



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

EMAIL: hlsa-hawaii@outlook.com WEBSITE: www.hlsahawaii.org

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.

Kalaupapa Harbor, Island of Mōlokaʻi
Photo By: Cliff Yim, PLS (HI)

2023 PACIFIC RIM GEOSPATIAL CONFERENCE

HLSA :: ASPLS :: HIGICC

Save the Date – 2023 Annual Conference

2023 Pacific Rim Geospatial Conference
March 16th (Thursday) & 17th (Friday)
Ala Moana Hotel, Honolulu Hawaii



We are very pleased to jointly announce that our Annual Conference will be taking place In Person at the Ala Moana Hotel in Honolulu, Hawaii on March 16 and 17, 2023. We are also working to have the conference available virtually for those of you who will not be able to attend. We will have our registration site up soon, so please save the date.

Mahalo,

HLSA, ASPLS, and HIGICC Presidents

The Theme for this year's conference will be Legacy - Past, Present, & Future
Our Joint HLSA, ASPLS & HIGICC Conference Committee team is currently accepting abstracts for presentations which can be either long, short, or panel discussions covering our Theme and hot topics in the GIS and Surveying realm.

We are also looking for volunteers to assist with the numerous tasks that need to be accomplished so we can all enjoy what promises to be a fun time for us all!

If you'd like to volunteer or if you are interested in doing a presentation, copy link to your web browser or click here: <https://arcg.is/1aW45i>

We will be accepting applications for vendor exhibits and demonstrations soon.

Mahalo,

Joint Conference Committee



PRESIDENT'S MESSAGE

BY: VICTOR RASGADO, LPLS

PRESIDENT OF HAWAII LAND SURVEYORS ASSOCIATION - HLSA

Aloha HLSA, ASPLS, and HIGICC friends and O`hana.

On behalf of the HLSA Board of Directors, I wish you all Aloha and warm wishes for the holidays. The HLSA board of directors continues to work diligently to bring our Hawaii Land Survey community opportunities in education, networking opportunities with other GeoSpatial professionals, and ways to show case and provide “hands on” experience to new mapping tools and technologies. For these reasons the HLSA BOD has been working with our friends and colleagues from the ASPLS and HIGICC to put together a Joint GeoSpatial conference that will bring all our GIS, Land Survey, and Geomatics communities together into one Sandbox!

For our HLSA members, you may have noticed right off the bat, we’ve adopted a name change for this year’s annual conference, the joint conference committee voted to entitle our collective fellowship, efforts, and joint meeting into the **2023 Pacific Rim GeoSpatial Conference**. This was done for several reasons. First, it helped eliminate the need to include HLSA, ASPLS, and HIGICC in the conference name thus shortening the title of the joint conference. Second, we wanted to be inclusive and invite all Professionals working in the Geospatial field and throughout the Pacific Rim to our joint conference—as one of our conference members stated, “this joint conference could one day include other island nations and western states within the Pacific Rim”. Lastly, as I’ve stated in a past president’s message, our land survey profession is experiencing a rapid change in technology and workflows and it is important for our profession to keep pace with the challenges and changes our survey technicians, GIS analysts, land surveyors, and CAD technicians are experiencing by providing access to a variety of GeoSpatial educational opportunities. Thus, on behalf of the HLSA Board of directors we hope to see you at the 2023 Pacific Rim GeoSpatial Conference!

For myself, our conference theme of **“Legacy - Past, Present, Future”**, has special meaning because both Alaska and GIS have had a profound impact on my career as a Licensed Surveyor--It was my interest in GIS that led me to enroll at the University of Alaska, Anchorage’s Surveying and Mapping program in 1991. The ability to map digitally and attach attribute tables to points, lines, and polygons just blew my mind, but eh, once I got a taste of surveying and mapping it was game over and I knew I found my path to the future.

What a treat it has been for the HLSA BOD and the Joint Conference Committee to work together to bring Hawaii’s and Alaska’s Land Surveyors and GIS professionals together into one Big GeoSpatial Sandbox! We sincerely hope you will enjoy the upcoming fellowship March 16 & 17, 2023 at the Ala Moana Hotel.

Mahalo,

Victor M. Rasgado, LPLS

President, HLSA Board of Directors



FEATURED GUEST MESSAGE

BY: GWEN GERVELIS, LPLS

PRESIDENT OF ALASKA SOCIETY OF PROFESSIONAL LAND SURVEYORS -
ASPLS

Dear members of the Hawaii and Alaska GeoSpatial Professional Organizations,

It is fitting that Alaska and Hawaii are, once again, partnering for a joint survey / geospatial conference. Hawaii is our sister state. We share many things, and not just our year of Statehood, or the trouble getting items shipped to us. We are both popular vacation destinations. We each have incredible flora and fauna. Some we share like the Humpback whales. We are connected by water. We both have active volcanoes. Together we are the most northern, eastern, western, and southern points of the US. (Cape Wrangell, on Attu Island Alaska is far enough west that it is technically east.)

Surveying in each of our states is also very different than the lower 48. Hawaii's history and Alaska's size mean we do not conform to many of the standards for the contiguous states. During this conference we will have the opportunity to learn about these differences and about how the practice of our profession is both different and similar just like our states.

We are excited to bring together land surveyors from across Alaska and Hawaii for this event, and we hope that you will join us, either in person or virtually, for what promises to be a valuable and informative conference.

We look forward to seeing you!

Sincerely,

Gwen Gervelis, ASPLS President



FEATURED GUEST MESSAGE

BY: MIKE WAHL, HIGICC PRESIDENT

HAWAI'I GEOGRAPHIC INFORMATION COORDINATING COUNCIL

Aloha HIGICC members and our friends at HLSA and ASPLS,

The islands of Hawai'i have always been a place to gather, share, and celebrate the good works that humans do. These past few years have been a struggle for us to come together and many of us, including myself, have found comfort behind the screen to enhance our production while protecting our health. The **2023 Pacific Rim Geospatial Conference** is the perfect opportunity for us to reconnect, communicate, and share our good works with others in our industries so that we can help each other reach our common goals.

The HIGICC focuses on facilitating collaboration and providing educational opportunities in the field of GIS across all sectors of science and business in Hawai'i. Our modus operandi is to work with others and promote the use of GIS in an ethical way that benefits all in our society. We are excited and proud to be a part of this event and hope all of our members take advantage of the opportunity to show up in person and meet with our friends and family from HLSA and ASPLS so we can share our stories and come together as people have always done in Hawai'i.

With the theme of **"Legacy - Past, Present, and Future"**, I ask the members of our organizations to consider the legacy they are continuing and the legacy they are leaving behind. You have an opportunity in these organizations to make a positive change, big or small, that might only affect your organization or it might affect entire workflows throughout the world. Our boards and committees are tools to highlight your ideas and create events and programs that will benefit you, take advantage and you will see your legacy flourish.

Hawai'i has always been a place of innovation and adaptation of new ideas and technologies. Many know that 'Iolani Palace had flushing toilets and light fixtures operating before the White House and Buckingham Palace, but did you know that the land surveyors of the Hawaiian Kingdom were using technology to map volcanoes and island geographies that were considered "state of the art" for their time and had not been used elsewhere? Let us promote our technologies and fields of science for all haumana (students) in Hawai'i and Alaska to adapt, adopt, and innovate and we will see how our legacies will make the world a better place.

Please join us in this opportunity to collaborate and share our projects and ideas and form legacies that we are proud to leave to the next generation of surveyors and GIS professionals.

Mahalo,

Mike Wahl, HIGICC President



EMPLOYMENT OPPORTUNITIES



HAWAII ENGINEERING GROUP, INC.

Hawaii Engineering Group, Inc. is a full-service civil, structural and electrical consulting engineering and land surveying firm that specializes in commercial, industrial and residential projects. With over 25 years of experience in the industry, we recognize that we are only as successful as the people we employ.

SURVEY PARTY CHIEF (HONOLULU):

HAWAII ENGINEERING GROUP, INC. IS LOOKING FOR A SURVEY PARTY CHIEF FOR A LONG-TERM FULL-TIME POSITION.

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The Survey Rodman will be responsible for assisting the Party Chief in the performance of field work on all types of surveying projects.

General Responsibilities:

- Transporting and setting up equipment and instruments necessary for the survey.
- Preparing the job site for a survey, such as, clearing out the areas of vegetation or debris.
- Holding the prism staff and using of all tools necessary to complete the survey.
- Keep the company vehicle, tools and equipment clean and orderly.
- Inform the Party Chief or management of any safety concerns.
- Comply with all safety requirements.
- Able to take instructions from the Party Chief and work with others.

Requirements:

- High School Diploma or GED preferred.
- Maintain a valid driver's license.
- Work in various work environments.
- Able to lift up to 50-lbs.
- Knowledge with basic mathematics and reading numerals.

Advancement opportunities are available.

Email Resume: wteruya@pareninc.com



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-Land Surveyors-

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Wes Thomas Associates has been surveying in Hawai'i since 1975. This has allowed us the luxury of dedicating our staff, equipment, and facilities to this single specialized profession.

Our office is conveniently located in Kailua-Kona on the Big Island of Hawai'i and is managed by our President and Chief Surveyor, Chrystal Thomas Yamasaki, LPLS. Our staff has an aggregate experience of over 100 years of providing professional land surveying services in Hawai'i. Surveying is the primary focus of the firm, and we have completed thousands of individual survey projects since our inception.

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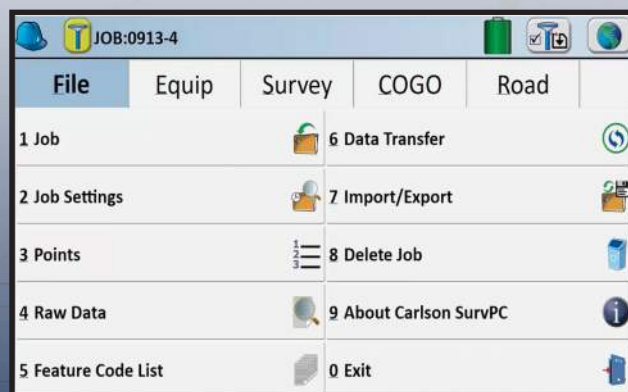
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What can it do?

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.

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Geomatics takes flight

Unmanned Aerial System (UAS)



Capabilities

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

In addition to UAS, 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
- HD Videos
- 3D point cloud data

Benefits

UAS keeps us safe while collecting data in remote locations.

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, we 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 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 California, Hawaii, 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.

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Q&A

PROPERTY DEVELOPMENT



Q1: There aren't any vampires in the haunted mansion, yet there are wooden stakes everywhere! Can you guess what they're for?

A: Someone's been busy 'staking out' the place - and that doesn't mean they're sitting in a cop car behind binoculars, trying to solve a crime! Also known as 'setting out', or 'laying out', these wooden stakes topped with red ribbons have been carefully placed in order to show construction workers where key points from digital plans should

be located on the physical site. This comes in handy when foundations are being laid that, later on, will have buildings, columns, pavements, curbs and utilities built on top of them! Let's hope that cheeky pug in B,1 puts the stake back where it belongs once he's finished playing fetch!



Q2: There are plenty of scanner-wielding, blueprint-scouring, busy-looking building surveyors in this scene, but what do they actually do?



A: Building surveyors are survey superheroes! They make sure that all the buildings that you and your family might go in - from home, to school, to shopping centres and office buildings - are all safe and well-built! They are very good at examining the quality and condition of buildings, and they can even help to find ways to make improvements. This might include suggesting ways to strengthen and secure parts of historic buildings in order to preserve them, or preparing homes for extensions, or even helping with public transport upgrades!

Building surveyors are also brilliant team players, helping workers from many other professions. On construction sites like the one you can see in the poster, they'll be advising architects and builders as they plan and put together new buildings, while making sure that all workers are keeping up strict health and safety standards. Someone should direct a building surveyor to B,3 quickly - it looks like the GeoSquad have spotted a seriously spooky health and safety hazard!

Q3: While the alien in F,6 has parked his ship somewhere it definitely shouldn't be, the Tri-Tech drone is flying masterfully around the site! What do you think it's up to?

A: Zipping across the site and snapping shots, the Tri-Tech drone can capture loads of high-quality photos that can be combined by computers to produce a 3D model of the site. This visual representation can be useful in so many ways for the construction teams. For example, they can use measurements from the model to calculate the volume of the different materials needed to complete the work they're planning to carry out. They can also use the drone during the construction process to create updated drawings and plans for the site, so that both workers and clients can see how the site changes throughout the project. Maybe the drone should circle back and take a snap through that skylight... Can you spot a mad professor making mischief!?



Q4: Sustainability is so important for buildings and developments. Can you spot any eco-friendly efforts being made across the scene?

A: While we might do our best to limit energy consumption in our homes, the fact is that heating and lighting up houses has an environmental impact - and that's before we get onto powering televisions, running washing machines, charging up devices and running computer consoles! Happily, there are lots of things developers and building surveyors can plan for that can help reduce emissions for new developments. Can you spot the two buildings in the scene that are harnessing solar power? The panels on the roofs convert sunshine into lovely, clean electricity. Can you think of any other natural power sources that can be used to produce renewable energy? What about hydro, wind, or geothermal energy? See what you can find out about them!

When the construction worker in G,6 replaces the window that the clumsy alien has smashed, you can be sure he'll consider using double glazed glass. This, along with insulated walls, prevents heat from escaping, which in turn means less energy is wasted. It's like putting a big, thick jacket around the whole building! Perhaps the surveyor in B,3 could recommend some replacement windows to the new owners of the haunted mansion... after they take care of the fiend in the foundations that is!

Beyond the buildings, there are more eco-efforts being made in this scene. Planners and building surveyors are being careful to conserve green spaces, which are important for biodiversity. These places allow wildlife to flourish in their habitats, and the trees help take in carbon. Can you count the crows in the crooked tree, and spot the busy bees on the roof of the haunted house? Maybe the new, nature-loving inhabitants aren't so scary after all!

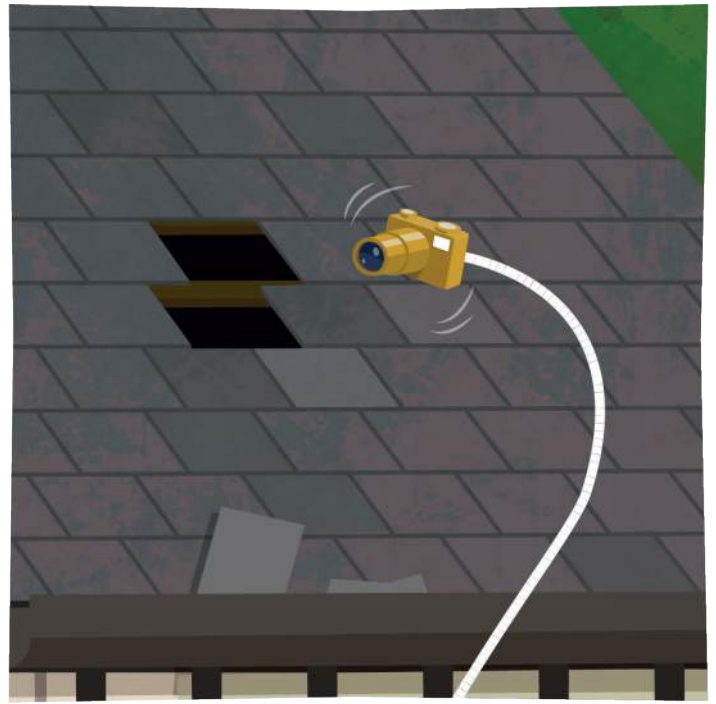
Finally, you can spot some eco-friendly transport options? This place looks great for cyclists, with its cycle paths and bike storage shelters - and cycling is great for the environment! Building surveyors can also look to add electric car charging points, while selecting areas close to public transport routes, so that the people who live in/use the new development have as many emission-friendly travel options as possible.



Q5: Some of the surveyors in the scene are busy pointing out damage and defects. How many problems can you spot, and why is it important for building surveyors to find them?

A: Did you spot the missing tiles, the gaping gutter and the cracked plaster in A,4? Did you notice cracked slats on the walls of the haunted mansion, and the fractured foundations below? These are the kinds of things a building surveyor would be looking out for as they assess the structural integrity of a property (how sturdy, strong and reliable the building is) and the condition, including the things that need to be repaired. They do all this so that the client (the person who might want to buy, live in, work in, or rent the building) knows whether the building is safe, what work might need to be done to fix any issues, and whether the property matches the description they've been given (as in, does its size, state and location match the plans and pictures?).

If the building surveyor does detect some issues, it's not the end of the world! In fact, if someone was looking to buy a property that had problems which would need to be fixed, they could use the information provided by the building surveyor to renegotiate the price they were willing to pay!



Q6: Being a super surveyor seems like a ton of fun, but what skills do you think you'll need if you want to pursue a career in survey?

A: Surveyors have several super skills, which can be summed up by the word **'PACT'**. 'Pact' means an agreement or a promise, and a good surveyor promises to try their best at all these things:

'P' is for 'Problem Solving'. Surveyors are naturally inquisitive, and they love to figure out problems and crack challenges in order to deliver spot-on, reliable results, every time.

'A' is for 'Accuracy'. The data that surveyors collect is used in projects that affect every person on the planet. Making sure that data is accurate, as well as understanding and interpreting it in order to make important decisions and advise other professionals, is key to being a good surveyor.

'C' is for 'Communication'. Surveyors work with so many people from lots of different teams doing lots of different jobs, and it's important that they convey information clearly and precisely. They are responsible for explaining what has been done, why, and any issues that have come up - even to **members of the public!**

'T' is for 'Technical Knowledge'. Surveyors use so many hi-tech gadgets and cutting-edge software programmes that it might seem like they're stars in a sci-fi movie! Survey technology moves fast, so they have to keep up with all the latest updates and upgrades, learning continuously as they go.





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