



**Aloha Arborist Association  
Monthly Meeting  
January 18th, 2023 6:30pm- Hybrid Meeting**

In attendance: David Golden, Brian Fukada, Elaine Malina. Jackie.. , Justin Barrios, H. Nihipali, Tylor Schwarze, Rosie..., Angela Liu, Desiree Page, Dudley Hulbert, Sophia Colella, Justin Donahue, Sergio Vasquez

Quorum: Yes

1. Call to Order and approval of September, October, and November 2022 draft meeting minutes.

- 6:20PM- November approved with the corrections of the names & addition of Sophia.
- September minutes approved. Angela sent over the September minutes to Cory from Fish & Wildlife for her updates in needed.
- October- Tabled

2. Welcome Guests

- Nathaniel Kingsley – Talk on Seed biology and Native Hawaiian seed conservation. Part of University of Hawaii and Lyons Arboretum.
- Focuses on the rare plants in Hawaii. Rarest plants in the world. Hawaii has almost 40% on the Fed. Endangered Species Act.
- Hawaii has 430 endangered species out of the 1000 on the list.
- Hawaiian seeds are kept in Hawai'i and not shipped out to mainland partners.
- Largest repository plant site in the state.
- Volunteers welcome
- Genetic Safety Net Greenhouse - Lab does not have the capacity to keep the plants after they reach a certain stage. Green house partners assist with providing the proper care to help the plants thrive & be replanted into the forest.
- Micropropagation lab- assist with the propagation of plants that cannot be grown in the field.
- Seed Conservation lab- 29 million seeds stored. 152 species and less than 50 individuals.
- Outside agencies assist help with determining when to germinate a seed based on priority.
- Seed banking is minimal effort with a large impact. When they go into the frozen storage they are not susceptible to outside disease & fungus.
- Seed Dormancy (Primary) Exogenous- (outside) thick seed coats, prevents water & gases into the seeds, seed structure, or chemical inhibitors. Endogenous (inside)- seed dormant due to immature

seed embryo, presence of some inhibitors of absence of growth promoters, or due to immature embryos combined with inhibitors.

- Seed Storage Behavior- Desiccation Tolerant- good, dries out easily, good to freeze. Desiccation Sensitive- not ideal, water removal is difficult, does not withstand drying for frozen storage.
- Orthodox Seeds- can be stored for long periods of time, gradual decline.
- Intermediate seeds- Freeze Sensitive (can tolerate Desiccation at a gradual rate) & Short-lived (no defined times, hard to determine if is short lived or desiccation sensitive)
- Recalcitrant seeds- typically large, and die when dried, cannot be stored in seed banks. The higher the moisture content in the seed the more difficult is it dry and store.
- Cryopreservation- the storage of biological materials at ultra-low temperatures, usually with liquid nitrogen (-196C). Has not been done for Hawaiian species yet, still in the trial phase.
- Microscopy- layers of photos on top of each other (Z-Stacking), so you can get a full 3D effect on website SeedsofHawaii.org. will go live on Friday, January 20<sup>th</sup>, 2023.

### 3. Committee and Officer Reports

#### a. Jamboree

- Sponsors- TreeStuff, Clogger, RockExotica, CMI- contact not there anymore, not getting anything what we used to get. Teufelberger, not confirmed yet.
- 9 signed up judges so far. May have more, but they have not filled out the paperwork.
- Venue- Maui Wine Paula Packert (sp?)
- Volunteer day is February 13<sup>th</sup>, 2023- because they are closed. - Cleaning up 5 trees.
- Procedure book in progress
- Maui Power equipment—to see if they would like to sponsor. For local competitor only.
- Climb Aloha- would like to sponsor & Will L. will ask if they want to set up a booth.
- WesSpur- wants a booth if Climb Aloha will not do it.
- Look in to the hiring a medic or first aid booth? Local Fire department is informed about the competition.
- T-shirt Design will need to be submitted prior to the end of Chinese New Year.

#### b. Training

- J. Barrios- nothing upcoming right now. People have been interested in Entry level training climbing, chainsaw, Ariel Rescue, etc.
- Suggested that a Mailchimp be sent out every 3-4 months about trainings wanted & for every island.

- Dudley- it would be beneficial to have the Ariel Rescue & CPR/First Aid done together. Would like it to be offered at least 1x a year.
- Tylor- possible training starting in April/May for AR& First aid.
- **TO DO**: Beginning of February- send out MailChimp for AR& First Aid email. Send out per Island if possible.

c. Treasure reports

- Carol would like to resign from the Treasure position.
- Re-elections are up in May 2023.

4. Unfinished Business and General Orders

5. New Business

a. Benefits of AAA membership

- Job posting for members who are paid up with yearly dues.

b. Job posting details- list wages?

- Wages can be posted if member is requesting it.

c. Does AAA have a representative serving on LICH?

- At the latest LICH meeting was not
- Sophia would like to attend the next LICH meeting as the AAA rep. Will see how things go from there. Next meeting is January 27<sup>th</sup>, 2023 5:00-8:30PM

6. Announcements

- Manu-o-Ku training- need to leave on the agenda always.
- Need to leave all old business on the agenda until removed by the president.
- Desiree--- Rich wants AAA to assist with applying for a grant for public out-reach. Need to spearhead someone to coordinate trainings, outreach, etc.
- Western Chapter tree care training can possibly be paired with the Manu-o-Ku trainings.
- Sophia- Dept of Ag is rolling out a new pesticide disposal procedure. Test run will be held on Oahu & then rolled out to outer islands.

7. Pest of the Month/ Tree of the Month

- *Cinchona officinalis*- Early cure to malaria. Countess of Spain was the first one cured by a concoction from this plant. This plant was also commonly paired with whiskey, kind of the start of gin & tonic. National tree of Peru and is endangered.

Meeting adjourned: 8:34PM

*Join us for our next monthly meeting!*

*February 15th, 2023 at 6:30pm.*