



**ALOHA ARBORIST ASSOCIATION  
MEETING MINUTES – 05/16/2018 - APPROVED  
Dixie Grill, Aiea, HI**

Members in Attendance: Desiree Page, Sergio Vasquez, Andrew Kendall, Angela Liu, Dudley Hulbert, Justin Donahue, Kainoa Holt, , J Zambo, Steve Connolly  
Guests: Kiani Ahia

1. Call to Order and Approval of Meeting Minutes of 04/18/18 - The meeting was called to order at 6:6:40 pm. The April minutes were approved with no changes.
2. Old Business
  - a) Research Committee (Chair: Dudley Hulbert) – AAA provided a Letter of Support, and a Letter of Commitment, to Dr. Andy Kaufman for inclusion with his application for grant funding to continue his tree root project. With better lead time, AAA probably would have been able to coordinate and provide more In-Kind matching resources for inclusion with the application. If funded, Dr. Kaufman also will have the opportunity to work with AAA to get more volunteers.  
  
AAA also is looking for other opportunities to build the local arboriculture knowledge base. Dudley had previously spoken with Donald Winsett of Davey, who supported the idea of more research on tropical and subtropical trees; he will continue to develop that opportunity.
  - b) ISA Certified Arborist / Tree Worker Exams, Saturday 04/14/2018 (Desiree Page) – Desiree contacted ISA to find out basic statistics for the CTW exam, for example if the CTW exam registration had reached maximum capacity (i.e., whether the number of individuals completing AAA's Aerial Rescue Training translated into a high number of CTW exam takers). No information had been obtained as of meeting time, however Desiree would continue to work on collecting information to improve the aerial rescue training.
  - c) Hui Manu-o-Kū Collaboration with AAA – Bird Banding Project (Desiree Page) – Sergio, Kai and J volunteered in addition to Desiree. Lake Gibby will be scheduling a training, after which everyone will also be on call to help return chicks to nests when they fall out of their trees.
  - d) Summer Volunteer Workday (Dudley Hulbert) – Tabled.
  - e) Aerial Rescue Training, August 2018 (Andrew Kendall) – Justin and Andrew will coordinate their calendars and propose a date and time for this event.
  - f) Western Chapter Regional Conference in Hawai'i, August 14<sup>th</sup> to 17<sup>th</sup>, 2018 (Angela Liu) – Interest surveys have been sent out to island-wide or statewide email lists of several Hawaii organizations including AAA. So far the response has been very positive, and this event is likely to proceed. Gordon Mann is available the week of August 12<sup>th</sup> and the event will take place from Tuesday through Friday that week. The timeline is very tight and the priority will be to secure locations where the event can be held.
  - g) LICH Annual Conference – Request for Speakers, Arborist / Contractor Track (Sergio Vagsquez) – Garrett Webb, executive director of LICH, contacted us for assistance on organizing speakers for the LICH Conference. The event date has been set for 10/10/18, and there will be five sessions to this track. The deadline for Speaker Abstracts had previously been set for August 1<sup>st</sup>, but has now been moved up to July 1<sup>st</sup> in order to get all information into the HawaiiScape Magazine by

August 15<sup>th</sup>. Andrew suggested to have a topic on specifications for public projects. Sergio will be working with LICH to fill out the program.

- h) Proposed Hawai'i Tree Jamboree 2019 on Big Island, Feb. 16<sup>th</sup> & 17<sup>th</sup>, 2019 (Andrew Kendall) – Andrew has spoken with Mike Kraus at Tree Works, and will be working closely with Mike to make sure everything, from the Master's Challenge to the T-shirts, will all be in place for the event. Andrew will be solidifying the event location in the coming weeks. Phil Kelley, a well-known judge for national tree climbing championships, may be able to come out and help run the program.
- i) Chainsaw Safety Workshop, Beginner Level (Dudley Hulbert) – Currently, the Urban Garden Center has worked with AAA to set up a talk about abiotic factors affecting tree health, to take place Saturday September 2<sup>nd</sup>. Desiree, J and Andrew volunteered to help out with this event. Dudley will find out about dates when UGC may be available for a chainsaw safety event, which is on hold at this time with more news to come.
- j) Proposed Certified Tree Worker (CTW) Exam Prep Course, March (Andrew Kendall) – Steve shared about an informal CTW prep course he conducted through AAA in 2011 with John Perry. It was about one hour per class, at \$10 per class with a total of six classes for the entire course. CEUs were earned for each class. The expectation was that each student would get the materials and study.
- k) ISA Publications order (Angela Liu) – An email had gone out to AAA Members that the order would be placed 5/18/18.
- l) Treasurer's Report (Desiree Page) – Tabled.

### 3. New Business

- a) Pest of the Month – MQD – Macadamia Quick Decline (*Phytophthora tropicalis*, *P. heveae*)  
Description: This disease – and the ambrosia beetle that are attracted to infected trees – can kill a Macadamia tree in about 7 months, and is a major agricultural threat in Hawaii. May be on Big Island only.  
Distribution: *P. tropicalis* is found in southeast Asia (Taiwan and Vietnam), Mexico, Hawaii, southern U.S., Brazil, Europe, and French Polynesia; sometimes distribution is limited. See: <https://www.cabi.org/isc/datasheet/109312>  
Symptoms and Damage: *P. tropicalis* in mature macadamia trees causes trunk bleeding, chlorosis and browning of leaves within the canopy. It also causes blight of Macadamia blossoms, and damage to the nuts. Trees develop secondary infection by *Nectria rugulosa*, seen as orange fruiting bodies, and infestation by ambrosia beetles. On breadfruit, breadnut, cacao and papaya, it causes fruit rot, and seedlings develop tip wilting and dieback / stem girdling, but seedlings showed some resistance and resprouting. It is especially virulent on cacao, causing formation of black water-soaked spots on leaves, seedling mortality and fruit damage.  
Control: Drenches or tree injection of phosphorous acid inhibits the pathogen and can extend the life of infected trees. Optimize tree health and growing conditions to suppress growth and spread of *Phytophthora*.  
Selected References:
  - Keith, L. and L. Sugiyama. "Macadamia Quick Decline Caused by *Phytophthora tropicalis* is Associated with Sap Bleeding, Frass, and *Nectria* in Hawaii," *APS Journals: Plant Disease*

(2010 Jan, Vol.94, No.1). Accessed 04/30/2018:  
<https://apsjournals.apsnet.org/doi/abs/10.1094/PDIS-94-1-0128B>

- Keith, L.M., Sugiyama, L.S., Matsumoto, T.K. and Nagao, M.A. “Disease management strategy for macadamia quick decline,” (Abstract), *Acta Hort.* (2016 Feb, 1109, 237-242, DOI: 10.17660/ActaHortic.2016.1109.38). Accessed 04/30/18:  
[https://www.actahort.org/books/1109/1109\\_38.htm](https://www.actahort.org/books/1109/1109_38.htm)
- Redfern, Takena R. “Etiological study of breadfruit diseases in Hawaii,” (Item Summary), ScholarSpace at University of Hawaii at Manoa (2010 Dec). Accessed 04/30/2018:  
<https://scholarspace.manoa.hawaii.edu/handle/10125/101751>

- b) Fids & Fibers Proposal for Arborist Rope Splicing Workshop (Angela Liu) – Mark Przekurat contacted AAA to proposed holding this event early January. The course is two jam-packed days, and course costs are \$350 for the workshop plus \$75 for the splicing kit. Board members expressed concern with the cost of the program. AAA assisted with recruiting and other related activities when this program was first considered in 2017, however the course was cancelled due to insufficient enrollment. AAA will send out an announcement / interest survey, after which if there is enough interest then the board will consider the next steps.
- c) Bank Signature Card (Desiree Page) – Desiree made the following proposals to AAA’s bank signature card, which were approved by board members in attendance:
  - Remove Steve Nimz and Carol Kwan
  - Add Andrew Kendall and Sergio VasquezAndrew is interested in getting a credit card. There was a discussion, after which the motion was made, seconded and approved to allow such action.
- d) Website Update (Desiree Page) – Desiree is adding member login and other features to the website, as well as working with Infoquest to make other site updates, including converting to a secure website. Most work is being done by her husband at no cost, however there will be additional costs in the near future to be approved by the board.

#### 4. Announcements

- a) ***Please join us on:***

*June 20th, 2018, 6:30pm – Dixie Grill*

#### 5. Adjournment – The meeting adjourned at 8:20 p.m.

Respectfully submitted,

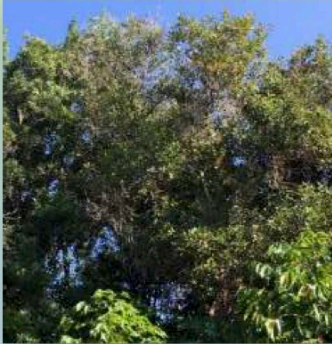
Angela Liu

## HANDOUT

Keith, Lisa, USDA/ARS, Hilo, HI "Facing Challenges: Old, New, & Emerging Diseases - Hawaii Island (Powerpoint)," 2017.

# Macadamia Quick Decline – Old and New

*Phytophthora tropicalis*



Day 0



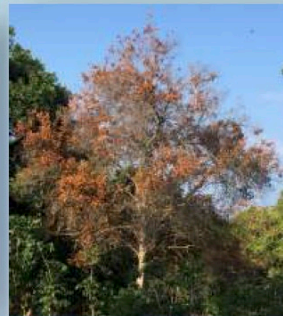
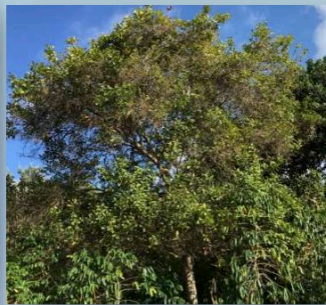
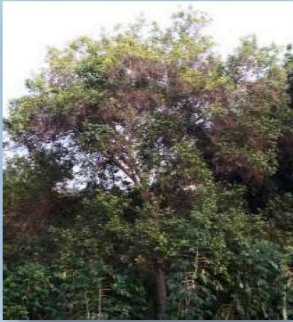
Day 14



Day 144



Day 253



*Phytophthora heveae*



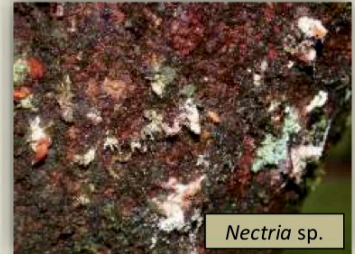


# Macadamia Quick Decline

- Prove Pathogenicity: Symptoms and Signs
- Strategies for controlling MQD



*Phytophthora tropicalis*



*Nectria* sp.



Ambrosia beetle frass



Sap bleeding

