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HAWAII INVASIVE SPECIES COUNCIL  
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PLANNING  
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DEPARTMENT OF TRANSPORTATION

## MEETING NOTICE

Hawaii Department of Land and Natural Resources  
DOFAW Conference Room 325

Friday  
June 22, 2018  
9AM

Research & Technology Working Group  
of the  
Hawaii Invasive Species Council

## AGENDA

1. Call to order: 9:05:
2. Introductions:
  - a. **On-line:** James Leary/UH-CTAHR, Ray Kauhale/KISC, Parker S/UH, Kelsey Brock/UH-Bot, Chelsea Arnott/CGAPS, Michelle Montgomery/HAL, Springer Kaye/BIISC, Tracy Johnson/USDA-FS, Adam Radford/MISC
  - b. **In-person:** Josh Atwood/HISC, Rob Hauff/DOFAW, Julie Motkwele/SA, Randy Bartlett/HISC, David Rodriguez/HDOT
3. Review past meeting notes. <http://dlnr.hawaii.gov/hisc/meetings/wg/research/>
4. Action Items: (see table & **hi-lighted** items below)
  - a. Review [FY18-19 R&T WG Action Plan](#): Randy Bartlett/Josh Atwood:
    - i. **PrePro1.2: Risk Assessments**
      1. What assistance can R&T WG provide to HDOA on conducting risk assessments (a major component of the HIBP)?

ii. **BorPro2.4: Biofouling technologies**

1. In progress: HISC Reso 18-1, resos in 2018 legislature, Jules Kuo working on Hawaii joining the Alliance for Coastal Technologies evaluations of technology

iii. **PosTifs1.13 & 1.14, PwsPro3.8, PwsTifs1.7: CTAHR extension agents and faculty that teach invasives/biosecurity issues**

1. In progress: Dean Comerford is prioritizing new positions now. Diagnostics is high on this list.
  - a. New extension agent on Kaua'i (Roshan Mohandar?/entomologist)
  - b. New urban entomologist position to be filled.
  - c. Request for forest pathologist from Rob Hauff/DOFAW.

5. **Review Submitted FY19 Funding Research Proposals: James Leary/Josh Atwood:**

- a. [Rat Lungworm Hosts \(USDA\)](#)
- b. [Mongoose Toxicants \(USDA\)](#)
- c. [Hawaii Early Detection Support \(BISH\)](#)
- d. [Biochar Production & Application \(UH-CTAHR\)](#)
- e. [Lobate Lac Scale \(UH-CTAHR\)](#)
- f. [Sponges: Biofouling & Ballast Water \(UH-HIMB\)](#)
- g. [Ornamental Plants Trial Garden \(UH-CTAHR\)](#)
- h. [Rat & Cat Control on Kauai \(DLNR-DOFAW\)](#)
- i. [Rat Lungworm Surveys \(BISH\)](#)
- j. [Hydrogel Ant Baits \(UH-CTAHR\)](#)
- k. [Toxoplasma gondii \(AuburnU\)](#)
- l. [Albizia Biocontrol \(USDA-FS\)](#)
- m. [Himalayan Ginger Biocontrol \(USDA-FS\)](#)
- n. [Melastome Biocontrol \(USDA-FS\)](#)
- o. [Stinging Box Jellyfish \(DLNR-DAR\)](#)
- p. [Two-Lined Spittlebug \(UH-CTAHR\)](#)
- q. [Fusarium Banana Wilt Disease \(UH-CTAHR\)](#)
- r. [Research & Technology Capacity \(UH-CTAHR\)](#)
- s. [HI Alien Plants Informatics \(UH-PCSU\)](#)

6. **Project Updates:**

a. **Biocontrol: Tracy Johnson:**

- i. **Melastome:** *Two natural enemies in quarantine: stem weevil for Miconia which chews on Ohia, so will be shelved; flea beetle for Tibouchina/Melastoma/Pterolepis being maintained pending*

*release. Supporting release proposals/EAs for a couple of agents, and foreign development of others. Closure of HAVO affecting research & maintenance of agents in the quarantine facility; current focus is on utilizing alternative approaches to maintain progress with promising agents.*

- ii. **Himalayan Ginger:** *CABI-UK has a fly that damages vegetative growing shoots before they flower. Trying to get agent in sometime next year.*
- iii. **Albizia:** *Rehiring post-doc thru PCSU to continue foreign work on prioritized agents.*

**b. CRB:**

- i. *Michael Melzer: n/a*
- ii. *Zhiqiang Cheng: n/a*
  - 1. *Chemical & Mechanical control: n/a*

**c. LFA:**

- i. *Cas Vanderwoude/Michelle Montgomery:*
  - 1. *Topical marking experiment, then internal marking experiment for feeding.*
  - 2. *Kauai; treatment going well. One small hotspot detected at bottom of public access trail on Stiller property.*
  - 3. *Maui; working closely with MISC.*
  - 4. *Working with Paul K. on hydrogel research.*
  - 5. *Looking at organic product effectiveness:*
    - a. *Neem*
    - b. *Spinosis*
    - c. *Aromatic wood chips (repellent)*
- ii. *Paul Krushelnycky: Focusing on non-target aspects. Bees have very low propensity to feed on the baits. A non-native wasp has been taking bait at fairly high rates. Trials of different granule types. No significant attraction rates between the 3 different types for the target ant species.*

1. Michelle Montgomery: "hydrogels would stick better in canopy when applied aerially than dry granules, not necessarily that they are "better" than dry granules."

d. **HBT: James Leary:**

- i. **Miconia:** Authorized to dispense pesticides from UAS by FAA. 12# payload for 20' of flight time. Aerial pesticide applicator program to be developed with HDOA-PPC for FAA certification.
- ii. **Albizia:** Milestone/Iminoclyramid? Fusilade (grass-selective herbicide) vs. Glyphosate (broad-spectrum herbicide)

e. **Rat Lungworm:**

- i. Norine Yeung: n/a
- ii. Chris Niebuhr: n/a

f. **Mongoose:** Shane Siers: n/a

g. **Spittlebug:** Mark Thorne: n/a

7. **Announcements/Public Comments:**

a. **643PEST.org:** Elizabeth Speith:

i. **Responder List Update Request**

b. **MISC:** Bryan Berkowitz leaving. Brooke Mahnken back as GIS coordinator.

8. **Next Meeting:** FY19 Q1 TBD

9. **Adjournment:** 10:57a

*Please share with others. Thank you for your attention and your consideration to participate.*

**Online Participation Instructions:**

Friday, June 22, 2018 | 9:00 am Hawaii Time (GMT-10:00) | 2 hours

**Meeting number: 742 710 466**

**Meeting password: H!\$cWG18**

**Meeting link: [JOIN THE MEETING](#) <==click here**

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**Audio connection:**

**1-877-787-0206 (US) Call-in toll-free number (Verizon)**

**1-877-787-0206 (US) Call-in number (Verizon)**

**Attendee access code: 499 006 3**

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R&T Working Group Action Items Tracking			
Date Started	Action Item	Personnel	Status
3/9/18	<p>Josh will contact toxicologists to see if they would work with James on a position paper about glyphosate. Would be a review of the Cal-IPC paper to see if they're comfortable with it, then the HI product would be a simple statement on the value of glyphosate in management in Hawaii.</p> <p>6/22: Monsanto bought by Syngenta and will no longer be a brand-name. Need for talking points re facts on pesticide use, etc.</p> <ul style="list-style-type: none"><li>- Josh to search thru bills at beginning of next Legislative session for related red flag language.</li><li>- Begin process to create white-paper on specific chemicals; including environmental fate &amp; health issues/toxicology.</li></ul>	Josh	In progress
3/9/18	<p><b>PrePro1.2: Risk Assessments</b></p> <p>What assistance can R&amp;T WG provide to HDOA on conducting risk assessments (a major component of the HIBP)?</p> <p><b><i>ACTION: Josh to approach HDOA and ask what data they need help with, rather than us running with it and then presenting the results later. When HDOA and researchers are talking to one another about the types of assessments that need to be done, we can turn that into funding proposals to get the work done.</i></b></p>	Josh	Completed

	6/22: Josh asked HDOA. They're fine for now. Will be gathering data via their new e-manifest system to be online by the end of the year. Need to ask at next Prevention WG meeting re need for data analyst.		
3/9/18	<b>BorPro2.4: Biofouling technologies</b> Working on this. HISC Reso 18-1, resos in 2018 legislature. <b><i>ACTION: Jules working on Hawaii joining the Alliance for Coastal Technologies evaluations of technology.</i></b> 6/22: HISC resolution passed. Christy Martin worked on a House Concurrent Resolution 130 which passed in the 2018 Legislative session.	Jules	In progress
3/9/18	<b>PosTifs1.13 &amp; 1.14, PwsPro3.8, PwsTifs1.7: CTAHR</b> extension agents and faculty that teach invasives/biosecurity issues <b><i>ACTION: Dean Comerford is prioritizing new positions now. Diagnostics is high on this list. Support for these hires from CTAHR staff on the call. HISC staff relayed the interest in these positions in their initial meeting with Dean Comerford.</i></b> 6/22: New extension agent on Kaua'i (entomologist)	James/Josh	In progress