

**HAWAII INVASIVE SPECIES COUNCIL
Research and Technology Working Group Meeting Minutes**

Monday, March 03, 2008, 1:30 P.M. to 3:30 P.M.
Lyon Arboretum Children's Learning Center

Attendees:

Chair: Christopher Dunn (Lyon Arboretum/UH)

Chris Buddenhagen (HISC), Doug Vincent (CTAHR), James Leary (CTAHR), Miya Tsukazaki (Senator Kokobun's Office), Sara Pelleteri (DLNR/DAR), Shahin Ansari (SWCA Environmental Consultants).

1. Call to Order and Introductions

Called to order at 1:45.

Christopher Dunn explained how he came to be chair and indicated his interest in the invasive species issue. Meeting attendees briefly introduced themselves, their occupation and interest in the invasive species issue.

2. Brief review of current research programs

Chris Buddenhagen gave the background to HISC and its grant programs, indicating that 10-15 grants totaling around \$700,000 were given in the years in which adequate funds came from the legislature to cover both research and programs in prevention, response and control, outreach, *and* research (2005, 2006, and 2008). In all cases grants have been given through a competitive request for proposal process. Some of the research grants given to date were discussed. For more information see:

<http://www.hawaiiinvasivespecies.org/hisc/RandTworkinggroups.html>

3. Review and approve strategic plan research and technology section

Some of the typical processes, measures of accountability and terminology used by other research grant providers was described by Doug Vincent to inform our process. Edits were discussed for the Research and Technology working group's part of the strategic plan and Chris Buddenhagen agreed to make edits and circulate to the group for consideration. Recommended modified strategic plan section to follow minutes.

4. Public testimony/new business

No new business. Discussion of invasive species issues was free ranging.

5. Adjournment

Meeting Adjourned at 3:30 PM.

Research and Technology

Chair of working group: UH

(Participating HISC members: DOA, DOT, DOH, DLNR, DEB)

If funds are available the working group will oversee a request for proposals (RFP) process to achieve the goals outlined in this document. This strategic plan indicates the types of research that are likely to be supported. The working group may make recommendations about specific projects that may be implemented by member agencies or outside providers, as well as provide scientific advice to the Council to address current issues.

Research and Technology Goals: 1) Encourage researchers to address the problems created by invasive species. 2) Encourage the development and implementation of new technology to prevent or control the establishment of invasive species. 3) Develop effective, science-based management approaches to control invasive species. 4) Effectively communicate and apply the results of research to the field. 5) Promote interagency collaboration and stimulate new partnerships.

The Research and Applied Technology Working Group will work with HISC support staff to oversee the RFP process and ensure that research and technology development will contribute to the effective management of invasive species in Hawaii. Support will be given to:

- The development and implementation of new and transferable technology (chemical, mechanical, biological) for large-scale treatment of priority invasive species (e.g. marine invasive algae, coqui frogs, ants etc).
- Expanding off-site exploration and screening for high impact biocontrol agents targeting established invasive species (e.g. Miconia) already present in the State
- Projects containing plans to effectively share with stakeholders any useful information, methods and practical tools that would assist in the management of invasive species in Hawaii.
- Increasing the knowledge base of target organisms and gaining an understanding of the economic impacts of invasive species, as well as the effectiveness of geographical information system tools and associated database management.
- Developing new tools for effective early detection and monitoring of terrestrial and aquatic invasive species populations.
- Providing taxonomic services for identification of terrestrial and aquatic invasive species in a timely manner.
- The implementation of assessment protocols not only for determining risks of introduction via various pathways but also for determining the invasiveness of taxa (screening) in conjunction with supporting and encouraging efforts to enforce or obtain voluntary compliance from local industry groups, government agencies and the public where necessary.
- Developing technology with the shipping industry for on-board treatment of ballast water and surface treatment to minimize hull fouling.

- Determination of the ecosystem impacts of invaders and restoration following removal of invaders.
- Addressing emerging and current issues (e.g. biofuels, outbreaks of new species, coqui frog management).
- Innovative projects unlikely to get funds from other sources.
- Projects that emphasize open interaction and communication with stakeholders throughout implementation.
- Projects that effectively leverage other non-HISC resources.

Research and Applied Technology - Measures of Effectiveness

It is important that proposals include measures of effectiveness so that the reviewers can judge the likelihood of project success. Outcomes or anticipated impacts of the research must be addressed. Some examples of measures of effectiveness are suggested:

- Number of new technologies developed and adopted for invasive species management.
- Number of biological control agents tested and introduced, as well as the effectiveness of control they provide.
- New technology developed for prevention and control of invasive marine species
- Number of taxa screened using standardized science based risk assessment systems.