

Draft Agenda for Coconut Rhinoceros Beetle IPM Meeting Sponsored by the Western IPM Center

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The Center's Invasive Species program (headed by Kassim Al-Khatib) develops networks and protocols to address invasive species that are less visible nationally and are less well funded than nationally important species. A subgroup on Coconut Rhinoceros Beetle should be formed because of its regional importance, to focus attention on this insect through white papers and symposia, and to develop response protocols and collaborative grant proposals.

The CRB subgroup will meet during the afternoon of April 3 in conjunction with the Hawaiian Entomology Society's Pacific Entomology Conference to be held in the Hilton Waikiki Beach Hotel.

Introductions [10 min]

Background [presentations, 0.5 h total]

- History of CRB as an invasive insect pest in the Pacific
- Guam status report
- Hawaii status report

Tactics aimed at controlling all life stages (breeding sites) [0.5 h, round-table]

- Sanitation (destruction/mitigation of breeding sites)
 - Pesticide treatment of breeding sites
 - Physical treatment of breeding site material
 - Burning

- Composting
- Pesticides
- Netting
- Biocontrol
 - *Oryctes nudivirus*
 - *Metarhizium majus*
 - Other biocontrol agent candidates
- Biosecurity
 - pathways (inter-island, intra-island)
 - DNA profiling to determine sources
 - quarantine inspections and interception (incoming and outgoing)

Tactics aimed at controlling adults and damage [0.5 h, round-table]

- Using pheromone traps for population suppression
- Artificial breeding sites as sinks
- Pesticide application to tree crowns
- Sand in tree crowns
- Light traps
- Feeding attractants
- Netting

Detection and monitoring [0.5 h, round-table]

- Improved trapping methods (pan traps, DeFence traps)
- Detector dogs
- Detector beetles

Prioritization of applied research needs [0.5 h, round-table]

- Sanitation (destruction/mitigation of breeding sites)
- Biocontrol
- Chemical ecology
- Biosecurity / Rapid response