Hawaii Conservation Alliance

Leaders in Environmental Management, Research and Education

HCA PARTNERS

University of Hawaii at Mānoa
Center for Conservation Research and Training

U.S. Geological Survey
Biological Resources Discipline

Department of Land and Natural Resources
Division of Forestry and Wildlife

National Park Service

The Nature Conservancy

U.S. Department of Agriculture
Forest Service

University of Hawaii at Hilo
College of Agriculture, Forestry and Natural Resource Management

Kamehameha Schools

U.S. Department of Agriculture
Natural Resources Conservation Service

Department of Land and Natural Resources
Division of Aquatic Resources

U.S. Fish and Wildlife Service
Ecological Services

U.S. Fish and Wildlife Service
National Wildlife Refuge Complex

National Oceanic and Atmospheric Administration
National Marine Sanctuaries

National Oceanic and Atmospheric Administration
National Marine Fisheries Service, Pacific Islands Regional Office

U.S. Army Garrison Hawaii
Natural Resource Program
Office of Hawaiian Affairs

Hawai‘i Conservation Alliance Staff

Deanna Spooner  Mariza Silva  Page Else
Executive Director  Program Assistant  Environmental Data Analyst

1151 PUNCHBOWL ST., RM. 224, HONOLULU, HI 96813
WWW.HAWAIICONSERVATION.ORG
Aloha and welcome to the 16th Annual Hawai‘i Conservation Conference (HCC), sponsored by the Hawai‘i Conservation Alliance (HCA) and the Hawai‘i Conservation Alliance Foundation (HCAF). The HCC is the largest annual gathering of people actively involved in the protection and management of Hawaiian ecosystems. The HCC provides a unique opportunity for natural resource managers, the scientific community, and other interested persons to share information and ideas on a broad spectrum of conservation issues relevant to Hawai‘i.

This year’s conference theme, Island Ecosystems: The Year of the Reef, was chosen to coincide with a global campaign to raise awareness about the value and importance of coral reef systems. The conference opens with a keynote presentation by world-renowned oceanographer and deep-ocean research pioneer, Dr. Sylvia Earle. Plenary presentations by Dr. Elliott Norse of the Marine Conservation Biology Institute, Dr. Peter Vitousek of Stanford University, and Bryan Harry of the National Park Service further explore ocean conservation issues as well as the interplay between terrestrial and marine systems in the Hawaiian archipelago. While many of the conference symposia and general sessions focus on coral reef and ocean research – including both science-based and traditional approaches to marine conservation – presentations cover a wide range of issues such as coastal wetland ecology, invasive species controls, forest succession, and alternative energies, among others. Indeed, this diversity of topics reflects the very diversity that comprises Hawai‘i’s natural environment.

In addition to the Conference, we invite you to partake in the other Hawai‘i Conservation Week activities hosted by the HCA and HCAF such as the Conservation Film Festival, My Hawai‘i Story Project presentation, Conservation Art Exhibition, and other activities. The full schedule begins on page 1.

Last, but not least, we’ve taken several steps to minimize the conference’s environmental impacts including minimizing paper usage by condensing this program booklet and posting on our Web site the presentation abstracts in online and PDF formats, offering compostable food containers, onsite recycling of unwanted conference materials, and other efforts. Finally, this year the HCA has set the goal of a carbon neutral HCC. We encourage you to contribute to the newly established Carbon Reduction and Offset Fund at the donation table in the registration area. After the conference, the HCAF will issue a request for proposals and select one or more Hawaiian-based carbon reduction and sequestration projects to receive a grant. The grant terms will require the recipient to present a progress report at the following year’s conference – thus bringing the process full circle.

Mahalo nui loa for your participation in HCC 16 and your continued support of the HCA.
CONFERENCE ACKNOWLEDGMENTS

Mahalo to the following persons and organizations:


Organizing Committee and Abstract Review: Deanna Spooner, Mariza Silva, Christopher F. Puttock (HCA); Lee-Ann Choy (Pacific Rim Concepts LLC); Norma Bustos, Michelle Gorham, Jessica Hawkins (DLNR/DOFAW); Athline Clark (DLNR/DAR); Annie Marshall, Michelle Clark (U.S. FWS); Lillian Coltin (Hawai‘i Children’s Discovery Center); Carlie Wiener (HIMB); Melia Lane-Kamahele (NPS); Phyllis Ha (NOAA); Evelyn Wight (TNC); Mike Walker (USAG-HI); Ranae Ganske, Jolene Lau, Reese Libby (USDA); Jim Jacobi (USGS). Special thanks to Ken Kaneshiro and Jennifer Ho at the Center for Conservation Research and Training, UH Mānoa, for handling insurance and other financial matters.

Teleconference Support: USDA/NRCS and U.S. FWS (Michelle Clark).

Art Exhibit Coordinator: Carlie Wiener (HIMB).

HCC Native Plant Display Committee: Michelle Clark, Jessica Hawkins, Lee-Ann Choy.

Native plants provided by: Rick Barboza, Hui Ku Maoli Ola.

Interpretive Display coordinated by: Michelle Clark (U.S. FWS), David Burney, Michael DeMotta (National Tropical Botanical Garden), Anne E. O Malley.

Film Festival Subcommittee: Michelle Gorham, Jessica Hawkins, Laurens Laudowicz, Christopher Minnes, Benton Pang, Katie Wright Pere, Christopher Puttock, Deanna Spooner. Equipment provided by Chuck Boller, Hawai‘i International Film Festival. Sponsored by: Hawai‘i Conservation Alliance Foundation, Hawai‘i International Film Festival, Kokua Hawai‘i Foundation, CFP Landscapes, 100% Green, and private donors.

My Hawai‘i Subcommittee: Lillian Coltin (Hawai‘i Children’s Discovery Center), Takiora Ingram (Pacific Writers’ Connection), Stri Longenecker (Youth Speaks Hawai‘i), Jennifer Metz (NOAA), Christopher F. Puttock (HCA), Deanna Spooner (HCA). Special thanks to ‘Ōhi‘a Productions for producing the Young Nature Writers’ workshop, sponsored by the Hawai‘i Tourism Authority in partnership with the City & County of Honolulu and Hawai‘i Coastal Zone Management Program, state of Hawai‘i Office of Planning. The My Hawai‘i Story Project was supported by HCA/HCAF, the Coastal Zone Management Program in partnership with, The National Oceanic and Atmospheric Administration, Rotary Club of West Honolulu, The Pacific Writers’ Connection, Dr. Alex Pickens, and other private contributors and donors.


Student Oral and Poster Awards: Annie Marshall (Coordinator); sponsored by The Wildlife Society Hawai‘i Chapter and Patagonia.

Volunteer Coordinators: Casey Carmichael (Hawai‘i Nature Center) and Jessica Hawkins (DLNR/DOFAW).

Oral Presentation AV Coordinators: Aaron Lowe and Ron Cannarella (DLNR/DOFAW).

Poster Session Coordinators: Norma Bustos, Jessica Hawkins and Ron Walker.

Conference Logo: Ron Walker (bags, mugs).

Cover Art: Two Worlds of Paradise by Wyland Galleries (Phone: 808-924-1322).

Program Printing: Hagadone Printing Company.
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## TUESDAY, JULY 29

**Registration** ⏳ 7:00 – 8:30 a.m.

**PLENARY SESSION:** 8:30 a.m. – 12:00 p.m.
Room 316ABC

### 8:30 a.m.

**Welcome, Oli, and Introductory Remarks**

**Introduction of Lieutenant Governor Aiona**
Laura Thielen
Chair, Department of Land and Natural Resources

**Lieutenant Governor’s Speech & Conservation Week Proclamation**

The Honorable James R. "Duke" Aiona, Jr.
Lieutenant Governor for the State of Hawai‘i

### 9:00 a.m.

**Keynote Presentation**

Dr. Sylvia Earle
Founder & Science Advisor, Deep Ocean Exploration and Research

**Break** ⏳ 10:00 – 10:20 a.m.

### 10:20 a.m.

**Plenary Presentation**

Dr. Elliott Norse
President, Marine Conservation Biology Institute

### 11:00 a.m.

**Presentation: HCA Effective Conservation Project**

Dr. Samuel M. ‘Ohukani‘ōhi‘a Gon III
Senior Scientist & Cultural Advisor, The Nature Conservancy

### 11:40 a.m.

**Presentation of My Hawai‘i Awards**

**Lunch** ⏳ 12:00 p.m.

Box Lunches to be distributed in 313ABC

12:30 p.m. – ‘Ōhi‘a Productions/My Hawai‘i Presentation, Room 316A
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<td>1:00 PM</td>
<td><strong>SYMPOSIUM:</strong> Hawai‘i Coral Reef Initiative: Past and Future Moderator: Kristine Davidson Room 316BC</td>
<td><strong>SESSION:</strong> Ecosystem Management in Hawai‘i: New Developments and Lessons Learned Moderator: Greg Koob Room 310</td>
<td><strong>SYMPOSIUM:</strong> Ecology and Management of Coastal Lowland Wetlands in Hawai‘i Moderators: Greg Bruland &amp; Richard Mackenzie Room 316A</td>
<td><strong>SYMPOSIUM:</strong> Energy Conservation Moderator: David Waller Room 312</td>
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<td>Hawai‘i Coral Reef Initiative: Ten Years of Scientific Innovation Kristine Davidson</td>
<td>One-Stop Information Shop for Managers and the Masses: A Science Communications Data Delivery System on the Web for 11 Pacific Island National Parks Leslie HaySmith and Corbett Nash</td>
<td>Historical Perspectives on Ten Coastal Wetlands of Kaua‘i Lida Pigott Burney</td>
<td>Energy in Hawai‘i: Managing Energy Use With Energy Efficiency David Waller</td>
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<td>Estuaries, Salt Marshes and Tidal Flats from a Plant Perspective Kimberly A. Peyton*</td>
<td>Atlas of Hawaiian Watersheds and Their Aquatic Resources – An Important Tool To Aid In Statewide Watershed Management Eko Lapp</td>
<td>Assessment of Vegetation, Soils, and Water Quality of Hawai‘i’s Coastal Wetlands Gregory Bruland</td>
<td>Opportunities in Energy Efficiency and Conservation Brian Kealoa</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>Populations of Endemic Hawaiian Limpets (Cellana spp.) Show Limited Connectivity Among Islands on Time Scales Relevant to Fisheries Management Christopher Bird</td>
<td>Atlas of Hawaiian Stream Species – Describing Habitat and Distribution for Stream Animals Statewide Glenn Higashi</td>
<td>Quantifying The Phosphorus Sorption Capacity Of Hawai‘i’s Coastal Wetlands Gwen DeMent*</td>
<td>Residential Photovoltaics in Hawai‘i Andrew Keith</td>
</tr>
<tr>
<td>3:00 PM</td>
<td>Integrated Management of a Coral Reef Ecosystem: An Ecosystem Recovery Area in Maui coastal waters Celia Smith</td>
<td></td>
<td>Developing a Hawai‘i Wetland Condition Index Using the Landscape Development Intensity Index and the Floristic Quality Assessment Index Susan Carstenn</td>
<td>University of Hawai‘i, Sustainable Saunders Experience David Nixon</td>
</tr>
</tbody>
</table>

*eligible for best student presentation award

**Tuesday, July 29 ** Concurrent Session 1 **1:00 – 3:00 p.m.**
| Session 2 | SYMPOSIUM: Coral Reef Health in Hawai‘i  
Moderator: Greta Aeby  
Room 316BC | FORUM: Ho‘i i ke Au a Kanaloa  
(Returning to the Cycles of Kanaloa): Traditional Perspectives on Marine Management in Hawai‘i  
Moderators: Nāmaka Whitehead & Kekuewa Kikiloi  
Room 310 | SYMPOSIUM: Ecology and Management of Coastal Lowland Wetlands in Hawai‘i: The Past, Present, and Future  
Moderators: Greg Bruland & Richard Mackenzie  
Room 316A | SYMPOSIUM: Biofuel-Panacea or Pandora’s Box?  
Moderator: Chris Buddenhagen  
Room 312 |
| --- | --- | --- | --- | --- |
| 3:20 PM | Partnerships between Managers and Researchers Help Increase our Understanding of Diseases in Marine Ecosystems  
Thierry Work | Fulfilling Combat Readiness, Conservation, and Community Involvement Objectives in Marine Corps Base Hawai‘i’s Lowland Coastal Wetland Management and Restoration Projects  
Diane Drigot | Hawai‘i’s Biofuels Assessment Project and Bioenergy Master Plan  
Maria Tome |  |
| 3:40 PM | Coral Disease Across the Hawaiian Archipelago  
Greta Aeby | Wetland Trends and Needs in the Hawaiian Islands  
Terrell Erickson | The Good (Jojoba), The Bad (Jatropha) and the Ugly (Chinese Tallow): Using Weed Risk Assessment to Select Non-Invasive Biofuel Crops in the Hawaiian Islands  
Charles Chimera |  |
| 4:00 PM | Bacterial Community Profiles of Montipora capitata and Montipora White Syndrome in Kaneohe Bay  
Ashley Smith* | Wetlands and The Pacific Islands Plant Restoration (PIPR) database  
Christopher Puttock | Identifying ‘2nd-generation’ Biofuel Crops and Their Capacity for Invasiveness in Hawai‘i  
Michael Poteet |  |
| 4:20 PM | Impact of Global Warming and Ocean Acidification on Hawai‘i’s Coral Reefs  
Paul Jokiel | Wetlands Restoration in a Hawaiian Cultural Context  
Scott Fisher | A GIS Approach to Evaluating Ethanol Production Potential: A Hawai‘i Case Study  
Scott Turn |  |
| 4:40 PM | Effects of Bleaching on Reproduction of a Hawaiian Scleractinian coral, Montipora capitata  
Evelyn Cox | Panel discussion and Q&A | Cleaning Up Island Ecosystems with Plastic and Biofuel Refineries  
Howard Wig (Dean Masai to present) | Panel discussion and Q&A |
| 5:00 PM | Modeling Hawaiian Coral Reef Ecological Condition  
Ku‘ulei Rodgers |  |  |  |

**PAU**

**POSTER RECEPTION**  6:00 - 9:00 p.m.  Room 313ABC

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*eligible for best student presentation award
## WEDNESDAY, JULY 30

### Registration 7:00 – 8:00 a.m.

### PLENARY SESSION 8:00 – 9:40 a.m.  Room 316BC

**PLENARY PRESENTATION, 8:00 a.m.**

Dr. Peter Vitousek  
Clifford G. Morrison Professor of Population and Resource Studies, Stanford University

**PLENARY PRESENTATION, 8:40 a.m.**

Brian Harry  
Director of the Pacific West Region, National Park Service (retired)

**PRESENTATION: HCA Climate Change Forum, 9:20 a.m.**

Dr. Stephen E. Miller  
Science Advisor, U.S. Fish and Wildlife Service

### BREAK 9:40 – 10:00 a.m.

### Concurrent Session 3 10:00 a.m. – 12:00 p.m.

#### Session 3  
**SYMPOSIUM:**  
The Science Supporting the Management of PMNM: Microbes to Monk Seals  
Session 1: Genetic Connectivity of Hawaiian Fauna  
Moderators: Carlie Wiener, Randy Kosaki, Robert Toonen  
Room 316BC

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 3</th>
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</table>
| 10:00 AM | The Introduction of Ta'ape to the Hawaiian islands: Using Genetics to Investigate an Invasion  
Michelle Gaither* | Captive Feeding Programs to Increase Juvenile Monk Seal Survival: A Case Study and Future Applications  
Charles Littnan | Land-Sea Connections: Integrated Watershed Management as a Tool for Coastal Coral Reef Conservation  
Lessons from the Pacific Islands  
Moderator: Robert Richmond  
Room 316A |
| 10:40 AM | Endemism and Dispersal: Comparative Phylogeography of Three Surgeonfishes across the Hawaiian Archipelago  
Jeff Eble* | Galapagos Sharks and Hawaiian Monk Seals: Ongoing Efforts to Mitigate Predation on Young Pups  
George Antonelis | Understanding Impacts of Sedimentation on Mangroves and Coral Reefs to Improve Land Use in a Wet Tropical Island, Pohnpei, Micronesia  
Steven Victor and Yimnang Golbu |
| 11:00 AM | Two Sea Cucumber Species (Holothuria atra and Holothuria whitmaei) Show Links between  
Johnston Atoll and Hawai'i  
Derek Skillings* | Extremely Low Genetic Diversity in the Endangered Hawaiian Monk Seal (Monachus schauinslandi)  
Jennifer Schultz* | Collaborative Research and Utilizing Indigenous Knowledge as Viable Strategies for Marine Conservation  
Charlotte Severne |
| 11:20 AM | Age and Origin of Hawaiian Endemic Fishes in the Papahānaumokuākea Marine National Monument  
Zoltan Szabo | The Status of Monk Seals in the Main Hawaiian Islands  
Tracy Wurth | Pacific Approaches to Improving Stewardship of Marine, Coastal and Island Ecosystems Utilizing Traditional Ecological Knowledge  
Moani Pai |
| 11:40 AM | Where Have All the Larvae Gone? Genetic Patterns of Connectivity in the Hawaiian Archipelago  
Rob Toonen | Hawaiian Monk Seal Management Issues and Programs in the Main Hawaiian Islands  
David Schofield | Ridge to Reef: Linking Watershed Science to Coral Reef Health on Moloka'i  
Michael Field |

### LUNCH 12:00 – 1:00 p.m.

*eligible for best student presentation award*
<table>
<thead>
<tr>
<th>Time</th>
<th>SYMPOSIUM: The Science Supporting the Management of PMNM: Microbes to Monk Seals</th>
</tr>
</thead>
</table>
| 1:00 PM | Session 2: Coral Communities of PMNM  
Moderators: Carlie Wiener, Randy Kosaki, Robert Toonen  
Room 316BC |
| 1:20 PM | Assessing the Biogeographical Distribution of Bacterial Communities Associated with Reef Water and Corals of the Papahānaumokuākea Marine National Monument and Greater Pacific Basin  
Jennifer L. Salerno* |
| 1:40 PM | Acropora Disease at French Frigate Shoals, NWHI  
Greta Aeby |
| 2:00 PM | Dinoflagellate Endosymbionts in the Corals of the Papahānaumokuākea Marine National Monument: Why Are They Important?  
Michael Stat  
**Gregory Concepcion** |
| 2:20 PM | Population Connectivity between A. cytherea in the North Western Hawaiian Islands  
**Gregory Concepcion*** |
| 2:40 PM | Management and Visualization of Ecological Data Collected in the Northwestern Hawaiian Islands  
**Erik Franklin** |
|        | Discussion  
Predator Control Techniques from Mainland Islands in New Zealand: Trapping, Baiting, and Predator-Proof Fencing  
Stephen M. Mosher |
| 3:00 PM | BREAK  
**3:00 – 3:20 p.m.** |

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**SESSION:** Invasives - From Mauka to Makai  
**Moderator:** Lloyd Loope  
**Room 310**

**SESSION:** Coral Reefs  
**Moderator:** Athline Clark  
**Room 316A**

**SESSION:** Native Plant Ecology and Conservation  
**Moderator:** Loyal Mehrhoff  
**Room 312**

**SESSION:** Moving Beyond the Shallows: Mesophotic Coral Ecosystem Programs  
**Moderator:** Lara Hinderstein*  
**Room 310**

**SESSION:** Are We Targeting Hawai'i's Endangered Plants for Extinction?  
**Bruce P. Koebel**

**SESSION:** Autonomous Reef Monitoring Structures as a Measure of Biodiversity and Ecological Monitoring  
**Amy Hall**

**SESSION:** Flower Visitation Among Hawaiian Scaevola  
**Michelle Elmore**

**SESSION:** Pollination Efforts for Hesperomannia arbuscula: An Inter-agency Achievement in Rare Plant Collection  
**Lauren Weisenberger**

**SESSION:** Recruitment Dynamics of Scleractinian Corals in a Network of National Parks and Marine Protected Areas: West Coast Hawai'i Island  
**James White**

**SESSION:** Survival, Growth and Photosynthetic Light Response of a Native Fern, Microlepia strigosa (Thunb.) K. Presl, to Varying Understory Light Conditions  
**Cynthia Nazario-Leary***

**SESSION:** Changes in Pollination Across an Elevation Gradient on the Island of Hawai'i  
**Heather Sahli**

**SESSION:** Assessing the relative Importance of Fishing Impacts on Hawaiian Coral Reef Fish Assemblages Along Regional Scale Human Population Gradients  
**Ivor Williams**

**SESSION:** Predator Control Techniques from Mainland Islands in New Zealand: Trapping, Baiting, and Predator-Proof Fencing  
**Stephen M. Mosher**

**SESSION:** Inter Situ Restoration Techniques: Creating a Third Front in Hawaiian Plant Conservation  
**Lida Pigott Burney**

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*eligible for best student presentation award
# Wednesday, July 30 @ Concurrent Session 5 @ 3:20 – 5:00 p.m.

| 3:20 PM | **SYMPOSIUM:** The Science Supporting the Management of PMNM: Microbes to Monk Seals  
**Session 3: National Marine Fisheries**  
**Moderators:** Carlie Wiener, Randy Kosaki, Robert Toonen  
**Room 316BCs** | **SESSION:** Invasives - From Mauka to Makai  
**Moderator:** Lloyd Loope  
**Room 310** | **SESSION:** Coral Reefs  
**Moderator:** Athline Clark  
**Room 316A** | **SESSION** Bats and Birds  
**Moderator:** Scott Fretz  
**Room 312** |
|---|---|---|---|---|
| Long-term Trends in Basking Hawaiian Green Turtles in the Northwestern Hawaiian Islands  
**Melissa Snover** | Alien Macrolgae Distribution and Management in Hawai'i  
**Brian Hauk** | Reproductive Biology of Three Native Hawaiian Goatfish, *Mulloidichthys vanicolensis*, *M. flavolineatus* and *Parupeneus porphyreus* (Perciformes: Mullidae)  
**Heather Leba*** | Seasonal Movements and the Occurrence of Hoary Bats in Hawai'i  
**Frank Bonaccorso** |
| Integrated Ecosystem Observations of Coral Reef Ecosystems of the U.S. Pacific Islands with a Focus on the Northwestern Hawaiian Islands  
**Russell Brainard** | A Life History Investigation of Mugilids in the Hilo Muliwai  
**Troy Sakihara** | Bioerosion of Coral Reefs by Two Hawaiian Parrotfishes: All a Matter of Size  
**Ling Ong** | Parasitic Mites (*Knemidokoptes jamaicensis*) Found in Hawai'i  
ʻAmakihī (*Hemignathus virens*) on the Island of Hawai'i: A New Threat to Hawaiian Honeycreepers?  
**Jacqueline Gaudioso*** |
| Geologic Aspects of Coral Reef Ecosystems of the NWHI and Implications for Their Understanding and Management  
**Ronald Hoeke** | Eradication of the Introduced Corallimorph *Actinodiscus nummiformis* in Hawai'i  
**Kaylyn McCoy** | Undoing of a Phase Shift: Recovery and Change in Reef Flat and Reef Slope Communities of Kaneohe Bay, O'ahu  
**Nadiera Sukraj*** | Nesting Behavior of the ʻAkikiki or Kaua'i Creeper  
**Jeremy D. Russell** |
| Community Structure of Hermatypic Corals at Seven Reef Systems in the Northwestern Hawaiian Islands  
**Jean Kenyon** | Life History Traits of Hawai'i's Most Invasive Marine Invertebrate  
**Daniel Wagner** | Urchins on Midway Atoll Can Directly Impact Live Corals  
**Wendy Cover*** | Fifteen-year Nesting Study of a Hawaiian Honeycreepers  
**Chris Farmer** |
| Marine Algal Diversity and Distribution in the Northwestern Hawaiian Islands (NWHI)  
**Peter Vroom** | **Discussion** | Midway Atoll as a Model System for Exploring Conservation of Marginal Reefs  
**Donald Potts (CANCELED)** | Translocation and Restoration: Moving Hawaiian Birds "Out of the Box"  
**David Leonard** |

*) eligible for best student presentation award

# FREE PUBLIC SEMINAR @ 7:00 – 9:00 p.m.

Dr. Sylvia Earle and Nainoa Thompson

*Theater (Room 310)*
## THURSDAY, JULY 31

### Concurrent Session 6 8:00 – 10:00 a.m.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 6</th>
<th>Session 7</th>
<th>Session 8</th>
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</thead>
</table>
| 8:00 AM | SYMPOSIUM Long-term Forest Succession in Hawai‘i  
Moderators: Dieter Mueller-Dombois and James Jacobi  
Room 316BC | SYMPOSIUM Rare Plant Conservation—CSI: Collaboration, Succor, and Innovation  
Moderator: Joan Yoshioka  
Room 310 | SYMPOSIUM The Mariana Islands: Issues in Island Conservation  
Moderator: Renee Robinette  
Ha and Shelly Kremer  
Room 316A |
| 8:20 AM | The ‘Maui Forest Trouble’ Revisited  
Dieter Mueller-Dombois | Road to Recovery: The Plant Extinction Prevention Program Focuses on Making a Difference  
Joan Yoshioka | Climate Change Effects and Reef Fishes in the Mariana Islands  
Terry Donaldson |
| 8:40 AM | Evidence for Long-term Cohort Dynamics in a Monodominant Tropical Rainforest  
H.J. Boehmer | Field Perspectives: Lessons from the Field  
Steve Perlman | Introduced Small Mammal Density And Biomass in the Mariana Islands: Implications for Island Ecology  
Andrew Viewel |
| 9:00 AM | Tree Age, Growth, and Death in an Ancient Hawaiian Wet Forest  
Patrick Hart | Role of Ex Situ Facilities In Plant Recovery  
Nellie Sugi | Seven Visions for Vertebrate Recovery on Snake-infested Guam  
Gordon Rodda |
| 9:20 AM | Effects of Invasive Alien Ginger (Hedychium gardnerianum) on Native Plant Species Regeneration in a Hawaiian Rainforest  
Vanessa Minden* | Role of Botanical Gardens and Arboreta in Hawaiian Plant Conservation  
Christopher Dunn | Nesting and Foraging Strategies: Do Generalists Have a Better Chance of Surviving in Rota’s Changing Forests?  
Sheldon Plentovich* |
| 9:40 AM | Climate Change in Hawaiian Terrestrial Ecosystems: Synergistic Processes and Management Implications  
Jonathan Price | The Silversword Project: An Example of an Effective Plant Recovery Program  
Marie Bruegmann | Population Trends, Breeding Biology and Nesting Success of the Endangered Mariana Crow or Aga on Rota, Mariana Islands  
Lainie Berry |
| 9:40 AM | Discussion | The Statewide Rare Plant Database: The Future of Data Management  
Matt Keir | Demographic Modeling of the Rota Aga Population: Interim Results  
James Ha |
### Thursday, July 31 • Concurrent Session 7 • 10:20 a.m. - 12:00 p.m.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 7</th>
<th>FORUM</th>
<th>SYMPOSIUM</th>
<th>SYMPOSIUM</th>
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<tbody>
<tr>
<td>10:20 AM</td>
<td>Increasing Efficiency in Ungulate Management: A Case Study from Santa Cruz Island, CA</td>
<td>Nest Site Selection in the Endangered Mariana Crow (Corvus kubaryi)</td>
<td>Long Term Management of Invasive Plant Species at Hawai‘i Volcanoes National Park—A Review of the Last 20 Years, or Where do we go from here?</td>
<td>Toward a Rationale and Strategy for a Collaborative Statewide Program of Early Detection of Incipient Invasive Plant Species in Hawai‘i</td>
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<tr>
<td>10:40 AM</td>
<td>Scott Morrison</td>
<td>Renee Ha</td>
<td>Lloyd Loope</td>
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<tr>
<td>11:00 AM</td>
<td>Eradicating Feral Pigs from Santa Cruz Island, California: Lessons for Hawai‘i?</td>
<td>Status and Trends of the Land Bird Avifauna on Saipan, Mariana Islands, with Emphasis on the Endangered Nightingale Reed-Warbler (Acrocephalus luscinia)</td>
<td>Long Term Management of Invasive Plant Species at Hawai‘i Volcanoes National Park—A Review of the Last 20 Years, or Where do we go from here?</td>
<td>Using Ecological Genetics and Molecular Tools to Improve our Understanding of Invasive Species</td>
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<td></td>
<td>John Parkes</td>
<td>Richard Camp</td>
<td>Rhonda Loh</td>
<td>Gabi Jakobs</td>
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<td>Mark White and Francis Quitazol</td>
<td>Paul Wenninger</td>
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<tr>
<td>11:40 AM</td>
<td>Ungulate Control in Hawai‘i Island Natural Area Reserves</td>
<td>Discussion</td>
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<td>Nicholas Agorastos</td>
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<td>12:00 PM</td>
<td>Tools and Techniques for Feral Hog Management: The View from the Mainland</td>
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<td>Michael Bodenchuk</td>
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**AWARDS LUNCHEON • 12-1:30 p.m.**

Presentation of HCA Awards:
Conservation Innovation Award
Best Student Oral and Poster Awards
Hawai‘i State Science and Engineering Fair Awards
Kalakaua Ballroom, 4th Floor

*eligible for best student presentation award*
<table>
<thead>
<tr>
<th>Time</th>
<th>Session 8</th>
<th>Session 8</th>
<th>Session 8</th>
<th>Workshop</th>
</tr>
</thead>
</table>
| 1:40 PM  | SYMPOSIUM | Issues in Ungulate Management  
Moderator: Mark Fox  
Room 316BC | SESSION  
Pacific Island Management: Engaging Communities  
Moderator: Sharon Ziegler-Chong  
Room 310 | WORKSHOP  
Managing Dynamic Alien Species Invasion Scenarios in Terrestrial Ecosystems: Identifying Management Priorities and Research Needs  
Moderator: Christoph Kueffer  
Room 312 (by invitation only) |
| 2:00 PM  |           | Cultural and Community Outreach Considerations in Ungulate Control  
Evelyn Wight and Samuel M.  
‘Ohukani’ōhi’a Gon III | Collaborative Community-Based Research and the Development of Resource Management Tools  
A Pacific Water Case Study  
Gail Tipa | Relative Abundance and Distribution of Mariana Swiftlets in the Northern Mariana Islands  
Shelly Kremer |
| 2:20 PM  |           | An Evaluation of the Market Opportunity for Contract Ungulate Control in Hawai’i.  
Ariel Rivera and Suzanne Case | Effects of Swim-With-Wild-Dolphin Activities on Spinner Dolphins in Two South Kona Bays  
Jan Ostman-Lind (Jayne LeFors to present) | Breeding Biology of the Endangered Mariana Swiftlet  
(Aerodramus barschi) on Guam and Recommendations for their Recovery  
John Morton |
| 2:40 PM  |           | Feral Ungulate Control Techniques and Strategies From New Zealand: Using Local Contract Hunters for Conservation  
Jobriath Rohrer | The Cost-Effectiveness of Integrated Approaches to Population and Coastal Management: Evidence from the Philippines  
Leona D’Agnes | Diet of the Mariana Swiftlet  
(Aerodramus barschi)  
Charles Kohley |
| 3:00 PM  |           | An Examination of the Effects of Feral Pigs (Sus scrofa) on Water Quality and Soil Loss within a Hawaiian Watershed  
Chad Browning and Greg Bruland | Who, What And How: Audience, Message and Delivery Method  
Christy Martin | Guam Rail Recovery On Guam:  
Ko’ko’ for Cocos  
Diane Vice |
| 3:20 PM  |           | Understanding the Links between Ungulates and Ecosystems in Hawai’i: Critical Gaps in Scientific Research  
Steven Hess | Discussion | Discussion |
| 3:40 PM  |           |                                                                 |                                                                 |                                                                 |
Friday, August 1, 2008

Workshops
8:00 am-12:00 pm
- A Tool for Preventing Non-native Invasive Species Spread: Hazard Analysis and Critical Control Point (HACCP) Planning for Hawai‘i and other Pacific Islands (Room 309)
- He Kai Kanalani Ko Maunalua: Community-Based Marine Management for Maunalua Bay, O‘ahu (Room 308AB)

9:00 am-5:00 pm, Room 305AB
- Reef Roundtable: A Leadership Summit for Main Hawaiian Islands Coral Reef Conservation

Tours
Space is limited for these events. If you are not registered for a tour, inquire at the registration desk if space is available. You must provide your own transportation to the meeting point. Car pooling is encouraged. Complete details online at: http://hawaiiconservation.org/2008HCC_tours.asp

Coconut Island-Hawai‘i Institute of Marine Biology (HIMB)
Time: 9:00 am to 12:30 pm
Limit: 40 people Cost: $5/person for boat ride and donation to HIMB

Lyon Arboretum Plant Propagation Lab
Time: 9:00am, 9:45am, and 10:30am
Limit: 15 people per group (45 total) Cost: Free

Mānoa Heritage Center
Time: 1:30-2:30 pm
Limit: 12 Cost: Free
Tea on the lanai following the tour

Bishop Museum Natural Science Department Tour
Time: 3:00-5:00 pm
Limit: 40 people Cost: Free

Saturday, August 2, 2008

Tours/Service Trips

Service Trip: Poamoho
Time: TBD (5-6 hours)
Limit: 10 people Cost: Free

Service Trip: Kahuku Beach Clean-up
Beach Environmental Awareness Campaign Hawai‘i
Time: 8:00 am-10:30am
Limit: 100 people Cost: Free

Mānoa Heritage Center
Time: 9:30-10:30 am
Limit: 12 Cost: Free
Tea on the lanai following the tour
**Keynote Speaker**

Tuesday, July 29, 9:00 am, Room 316ABC

**Dr. Sylvia Earle**  
Founder/Science Advisor  
Deep Ocean Exploration and Research

Sylvia Earle, called "Her Deepness" by the New Yorker and the New York Times, "Living Legend" by the Library of Congress, and the first "Hero for the Planet," is an oceanographer, explorer, author, and lecturer with experience as a field research scientist. She also is executive director for corporate and nonprofit organizations, including the Aspen Institute, the Conservation Fund, American Rivers, Mote Marine Laboratory, Duke University Marine Laboratory, Rutgers Institute for Marine Science, the Woods Hole Oceanographic Institution, National Marine Sanctuary Foundation, and Ocean Conservancy.

Former chief scientist of NOAA, Earle is president of Deep Search International and chair of the Advisory Council for the Harte Research Institute for Gulf of Mexico Studies. She has a B.S. from Florida State University, an M.S. and a Ph.D. from Duke University, and 15 honorary degrees. She has authored more than 150 scientific, technical, and popular publications, lectured in more than 60 countries, and appeared in hundreds of television productions.

Earle has led more than 60 expeditions and logged more than 6,000 hours underwater, including leading the first team of women aquanauts during the Tektite Project in 1970 and setting a record for solo diving to a depth of 1,000 meters (3,300 feet). Her research concerns marine ecosystems with special reference to exploration and the development and use of new technologies for access and effective operations in the deep sea and other remote environments.

Honors include the Netherlands Order of the Golden Ark, inclusion in the National Women’s Hall of Fame and the American Academy of Achievement, and medals from the Explorers Club, the Philadelphia Academy of Sciences, the Lindbergh Foundation, the National Wildlife Federation, Sigma Xi, Barnard College, the New England Aquarium, the Seattle Aquarium, the Society of Women Geographers, and the National Parks Conservation Association.
**PLenary Speakers**

**Tuesday, July 29, 10:20 am, Room 316ABC**

**Dr. Elliott Norse**  
President, Marine Conservation Biology Institute

Dr. Norse has worked at the conservation science-policy interface for his entire career. After earning his B.S. in Biology from Brooklyn College, he studied the ecology of blue crabs in the Caribbean for his Ph.D. at University of Southern California and his Postdoctoral Fellowship at University of Iowa. Since 1978 he’s worked at the U.S. Environmental Protection Agency, President’s Council on Environmental Quality (where he defined biological diversity as conservation’s overarching goal), Ecological Society of America, The Wilderness Society and The Ocean Conservancy before founding MCBI in 1996. Elliott’s 140+ publications include 4 books: Conserving Biological Diversity in Our National Forests (1986), Ancient Forests of the Pacific Northwest (1990), Global Marine Biological Diversity: A Strategy for Building Conservation into Decision Making (1993) and Marine Conservation Biology: The Science of Maintaining the Sea’s Biodiversity (2005). He served as President of the Society for Conservation Biology’s Marine Section and is a Pew Fellow in Marine Conservation.

**Wednesday, July 30, 8:00 am, Room 316AB**

**Dr. Peter Vitousek**  
Clifford G. Morrison Professor of Population and Resource Studies, Department of Biology, Stanford University

Peter Vitousek was born in Honolulu, and graduated from HPA in 1967. He got his PhD from Dartmouth in 1975, and taught at Indiana University and the University of North Carolina before joining the faculty of Stanford University in 1984. His research interests include: evaluating the global cycles of nitrogen and phosphorus, and how they are altered by human activity; determining the effects of invasive species on the workings of whole ecosystems; understanding how the interaction of land and culture contributed to the sustainability of Hawaiian society before European contact; and more generally using the extraordinary ecosystems of Hawai‘i as models for understanding how the world works. He is a Fellow of the National Academy of Sciences, and the American Academy of Arts and Sciences.

**Wednesday, July 30, 8:40 am, Room 316AB**

**Bryan Harry**  
Director of the Pacific West Region (retired), National Park Service

From his earliest years, armed with sling shot and bb-gun, Bryan Harry tagged along with his dad hunting and fishing. This led to his interest in studying wildlife. He received a B.S. at Michigan and an M.S. at Colorado State, both in wildlife management. After short term jobs as a botanical researcher, canoe guide in Michigan and Ontario, and refuge manager for the U.S. Fish and Wildlife Service, he settled in with the National Park Service (NPS) for over 50 years. With the NPS he was ranger-biologist and naturalist at Grand Teton and Yellowstone, and Chief Park Naturalist and Valley Manager at Yosemite. He came to Hawai‘i as superintendent of Hawai‘i Volcanoes National Park in the early ‘70s and, except for sojourns as Alaska Area Director and superintendent of Glen Canyon, has been here in that capacity and as NPS Pacific Area Director since that time. Throughout his career he has been involved in the planning of the National Park System. He was intimately involved with studies leading to North Cascades and American Samoa establishment as National Parks. He was a founding member of the HCA and the Cooperative Ecosystem Studies Unit at the University of Hawai‘i.
The “My Hawai‘i” Story Project is a statewide writing contest sponsored by the HCA, HCAF, and Pacific Writers’ Connection. We invite all middle school students in Hawai‘i to express their appreciation of and concern for Hawai‘i’s natural environment. The project culminates with a Young Nature Writers Workshop for the students whose writings have been selected for publication in the “My Hawai‘i” anthology. At the workshop, ‘Ōhi‘a Productions will work with the students to write and produce a marine-themed song, which they will perform for the benefit of conference attendees on July 29.

Poster, Exhibit and Art Reception  
Tuesday, July 29, 6-9 pm, Room 313ABC

The Tuesday evening reception is your opportunity to meet the poster authors, mingle with other conference participants, and view the 2008 International Year of the Reef Art Exhibitors, featuring the Hawai‘i Institute of Marine Biology International Year of the Reef Mural, marine life artist and advocate Wyland’s Year of the Reef display, and other works. Additionally, Dieter Mueller-Dombois will be signing a new book he co-edited, Biodiversity Assessment of Tropical Island Ecosystems – PABITRA Manual for Interactive Ecology and Management. Light pupus and refreshments will be served at 7 pm.

Public Presentation  
Wednesday, July 30, 7-9 pm, Theater (Room 310)  
Free Public Seminar by Dr. Sylvia Earle and Nainoa Thompson

Each year the HCA sponsors a free public seminar that is open to both conference attendees and the general public. This year’s presenters are the HCC keynote speaker, Dr. Sylvia Earle, and master navigator Nainoa Thompson, Chairperson of the Polynesian Voyaging Society. Dr. Earle and Mr. Thompson will share their experiences in raising awareness about ocean conservation issues, the wisdom they have gained from their many and varied ocean explorations, and how these experiences tie into this year’s conference theme of Island Ecosystems: The Year of the Reef.

Awards Luncheon  
Friday, July 31, 12-1:30 pm, Kalakaua Ballroom

Presentation of HCA Awards  
Conservation Innovation Award  
Best Student Oral and Poster Awards  
Hawai‘i State Science and Engineering Fair Awards
Tuesday, July 29

Hawai‘i Coral Reef Initiative: Past and Future
Moderator: Kristine Davidson, Hawai‘i Coral Reef Initiative
1:00–3:00 pm, Room 316BC

Since its inception in 1998, the Hawai‘i Coral Reef Initiative has sponsored a rich and diverse set of scientific research focused on building capacity to manage effectively our islands’ marine habitats. The proposed symposia will begin with an overview of HCRI’s scientific research during its first decade followed by presentations on the results for three of its most recently completed projects: carrying capacity of three O‘ahu reefs, statewide wetland seagrass characterization, and ‘ōpili connectivity across our islands. These will be followed by a presentation on a new direction for HCRI. 2008 not only marks the International Year of the Reef, it also represents a fundamental transition in scientific research funded by HCRI. Building upon the breadth of past results, HCRI has embarked on a targeted, multidisciplinary, geographic approach to research in support of practical community and government collaboration in resource management. This symposium is supported by NOAA’s Hawai‘i Coral Reef Initiative.

Energy Conservation and Energy Efficiency
Moderator: David Waller, Hawaiian Electric Company
1:00–3:00 pm, Room 312

This symposium provides background into Hawai‘i’s current energy use and initiative to bring greater levels of energy conservation and efficiency. Case histories of energy success stories and early adopter will yield in-sight into local innovation. The symposium will also discuss national energy efficiency programs, building codes and appliance standards, and their linkage to climate change issues.

Ecology and Management of Coastal Lowland Wetlands in Hawai‘i: The Past, Present, and Future
Moderators: Gregory Bruland, Natural Resource and Environmental Management Department, University of Hawai‘i Mānoa, and Richard MacKenzie, Institute of Pacific Islands Forestry, USDA Forest Service
1:00–5:00 pm, Room 316A

Coastal lowland wetlands in Hawai‘i connect terrestrial watersheds to marine coral reef ecosystems. These coastal wetlands provide numerous ecological services such as flood control, sediment retention, water quality maintenance, habitat for endangered species, and carbon sequestration. Despite these important functions, coastal lowland wetlands have not received as much attention from the scientific and conservation communities as their mauka (i.e. dry and wet forests) and makai (i.e. coral reefs) counterparts. Furthermore, urban development, invasive species, and sea level rise pose imminent threats to the integrity and even continued existence of these ecosystems in Hawai‘i and the Pacific Islands. In response to these concerns, this symposium will focus on the past, present, and future of coastal lowland wetland ecology and management in Hawai‘i. We will start with the past and draw upon experienced scientists and managers who have worked in coastal lowland wetlands in Hawai‘i for the past few decades. They will share their experiences, challenges, and victories throughout the symposium. Scientists and managers will also discuss the current status of coastal lowland wetland vegetation (native and invasive species), fish communities, bird communities, soils, and water quality. A number of speakers will also look ahead to the future management and research needs for coastal lowland wetlands in Hawai‘i and the larger Pacific Island region. Our final speaker will discuss wetland restoration and management in a Hawaiian cultural context. All of the speakers will be asked to consider and discuss the linkages between coastal lowland wetlands and adjacent coral reef ecosystems and the role the wetlands play in supporting and protecting the reefs. The symposium will end with a panel discussion that attempts to define priority areas for future research and management and answer questions from the audience. As the theme of 2008 HCC is Island Ecosystems: The Year of the Reef, we believe that this symposium will make an excellent linkage between terrestrial and marine science and management. It will be an outstanding opportunity to bring together a diverse, multi-disciplinary, multi-institutional team of scientists, managers, and policy makers to share their knowledge, insights, and data on this increasingly important topic. To our knowledge, a symposium on this topic has never previously been organized at this conference.
Coral Reef Health in Hawai‘i
Moderator: Dr. Greta Aeby, Hawai‘i Institute of Marine Biology
3:20-5:00 pm, Room 316BC

Increasing anthropogenic stressors combined with the threats associated with global climate change are placing Hawai‘i’s coral reefs at risk for serious degradation. Bleaching events have already occurred in both the main and Northwestern Hawaiian Islands and coral and fish disease has been reported throughout. This symposium will provide a synthesis of current research pertaining to coral reef health in Hawai‘i. Topics such as ocean acidification, coral bleaching, and coral and fish disease in Hawai‘i will be addressed updating participants on new information and allowing the identification of knowledge gaps and future management needs.

Traditional Perspectives on Marine Management in Hawai‘i
Moderator: Noelani Puniwai, Hawai‘i Biodiversity and Mapping Program, Hawai‘i Island
3:20-5:00 pm, Room 310

Hawaiian culture and identify has been shaped in fundamental ways by the generational ties and adaptive interactions between kanaka maoli and the ocean resources that surround our island communities. This symposium focuses on three case studies on different managed areas in the Hawaiian Islands. Each marine management area will give a presentation on their site and stewardship efforts, and will be followed by a moderated panel discussion that will highlight Hawaiian perspectives concerning the ocean. The main objective of this discussion is to demonstrate the importance of returning to traditional ways of understanding and managing marine resources and how it relates to Hawaiian health and well-being.

Biofuels—Panacea or Pandora’s box?
Moderator: Chris Buddenhagen, Hawai‘i Invasive Species Council
3:20-5:00 pm, Room 312

Biofuels (solid or liquid) generally produce equivalent energy with lower greenhouse gas emissions when compared to fossil fuels- a potential aid in efforts to reduce greenhouse gas emissions and our dependence on fossil fuels. Changing land use, and the development of these new energy technologies come with their own costs and benefits in relation to the economy and the environment. An equal measure of caution and enthusiasm toward developing this technology is probably warranted. This symposium invites speakers to consider the risks, costs and benefits of these technologies.

Wednesday, July 30

The Science Supporting the Management of Papahānaumokuākea Marine National Monument: Microbes to Monk Seals
Moderators: Carlie Wiener and Robert Toonen, Hawai‘i Institute of Marine Biology; Randy Kosaki, NOAA
10 am-5:00 pm, Room 316BC

This symposium will address the research currently occurring in the Papahānaumokuākea Marine National Monument. Three separate sessions will be held under the overarching theme, The Science Supporting the Management of Papahānaumokuākea Marine National Monument: Microbes to Monk Seals. The first half day session will examine genetic connectivity of Hawaiian fauna. Here, scientists will discuss the relationship between invertebrate, fish and coral species, identifying the Northwestern Hawaiian Islands as a possible source or sink for marine species across the entire Hawaiian Archipelago. The following two sessions will be shared for the other half of the day. The next session will include scientists from the Hawai‘i Institute for Marine Biology addressing the coral communities of the Monument. Presentations revolving around the microbial community, coral and fish diseases and coral symbiont will be revealed. Lastly, the final session will take a look at some of the work that the National Marine Fisheries Service has been doing in the Papahānaumokuākea Marine National Monument, presentations will highlight monk seals, amongst other topics of interest.

The research currently occurring in the Papahānaumokuākea Marine National Monument is extremely important as it is one of the only examples of ecosystem based science working to help inform the management of a protected area. The Monument became the world’s largest fully marine protected area in June 2006, and is continuing to make advancements in its management and science plan. The varied, cutting-edge research is also making remarkable new discoveries and altering the way we look at the marine ecosystems across the Hawaiian Archipelago. This conference will bring together
world renowned scientists in the Hawai‘i community, to share the latest cutting edge research and information relating to

global coral reef resources. This event is not only an excellent opportunity to remain educated on the current science and
management practices, but also offers an opportunity for people to familiarize themselves with the information being
developed pertaining to the Northwestern Hawaiian Islands. This symposium will be critical to expanding both personal and
professional knowledge bases related to Monument research and conservation.

Hawaiian Monk Seal Symposium
Moderator: Lance Morgan, Marine Conservation Biology Institute
10:00 am-12:00 pm, Room 310

Hawaiian monk seals have been sunning themselves on the beaches of Hawai‘i for nearly 13 million years, and are one of
only two endemic mammals found in the island Archipelago. Now, critically endangered, monk seals number less than 1200
individuals, and continue to decline by 4% per year. In September of 2007 the National Oceanic and Atmospheric
Administration released a revised recovery plan with a renewed focus on more intensive management actions to recover
the seal. These efforts include establishing a captive care program to improve survival of young female monk seals,
reducing mortality to all individuals and building better capacity in the Main Hawaiian Islands to manage the monk seals and
their interactions with the public. One bright spot for the monk seal in recent years is its reoccupation of the Main Hawaiian
Islands. Monk seals are now found on all of the main islands and several islands have recorded births in recent years. The
growing numbers of monk seals in the MHI is not without problems however, as increasingly seals are coming into contact
with the public and these interactions can be detrimental to the seals. These interactions with the public pose a
management challenge, but also a great opportunity to engage local communities in the Hawaiian monk seal’s recovery.

The monk seal is an iconic species of the newly established Papahānaumokuākea Marine National Monument, but it is also
the proverbial canary in the coal mine. Caught in between many human impacts – climate change, overfishing, marine
waste, coastal development and disease – the monk seal’s recovery will involve improving ocean stewardship in many
diverse arenas. Supplementary efforts to recover the monk seal include research identifying and actions mitigating sources
of mortality in the Northwest Hawaiian Islands including male aggression, shark attacks, starvation and entanglement in
marine debris. The monk seal population is at a critical juncture; efforts at recovery need to aggressively move forward in
the next few years. This symposium will highlight the ongoing research and management actions planned and being
undertaken by the staff of NOAA to implement the Hawaiian monk seal recovery plan.

Land-Sea Connections: Integrated Watershed Management as a tool for Coastal Coral Reef Conservation Lessons from the
Pacific Islands
Moderators: Robert H. Richmond, Ph.D., Kewalo Marine Laboratory, Pacific Biomedical Research Center, University of
Hawai‘i at Mānoa
10:00 am-12:00 pm, Room 316A

Coral reefs worldwide are being degraded by human-induced disturbances, resulting in ecological, economic and cultural
losses. Runoff and sedimentation are among the greatest threats to coastal reefs surrounding high islands and adjacent to
continental landmasses. Scientific data exist that identify key stressors, synergisms, and outcomes at the coral reef
ecosystem, community and population levels. These data demonstrate that marine protected areas alone may be
insufficient for coral reef protection and that integrated watershed management practices are also needed. Gaps in the
effectiveness of environmental policy, legislation and regulatory enforcement have resulted in the continued degradation of
U.S. reefs. Several Pacific Islands, with intact resource stewardship and traditional leadership systems, have been able to
apply research findings to coral reef management policies relatively quickly. Three case histories in Micronesia provide
insight on how biophysical data can be applied to manage human behaviors responsible for coral reef destruction, through
the social sciences.
Thursday, July 31

Long-term Forest Succession in Hawai‘i
Moderator: James Jacobi, U.S. Geological Survey, Pacific Island Ecosystems Reserach Center
8:00 am-10:00 am, Room 316BC

This symposium deals with research results of Hawaiian forests in a successional context. Here the focus is on past and current ecological studies done with the attempt to make predictions of future trends. Science-based predictions have played important roles in forest policy and management in the past, and they will give similar guidelines for the future. The five papers offered in this symposium are concerned with: (1) A historic rainforest collapse that happened 100 years ago on the lower east slope of Maui, its past and recently revised interpretations; (2) Thirty years of recovery, a permanent plot study following a major rainforest decline on the east slopes of Mauna Loa and Mauna Kea; (3) Analysis of an old-growth rainforest on Mauna Kea at Hakalau with a prediction of its development over the next 100 years; (4) An insidious underground plant invader that interferes with the growth cycle of a native rainforest; and (5) The climate change syndrome as it may affect Hawai‘i’s terrestrial ecosystems.

Rare Plant Conservation – CSI: Collaboration, Succor, and Innovation
Moderator: Joan Yoshioka, Plant Extinction Prevention Program
8:00 am-10:00 am, Room 310

The symposium of six speakers from multiple conservation agencies will highlight the collaborative nature of current rare plant protection programs that are vastly different from the site-specific efforts of the past. With the inception of the Plant Extinction Prevention Program and collaborative work with rare plant facilities, botanical gardens and arboretas, micropropagation lab, and seed storage facilities, conservation efforts for critically endangered plants have improved by leaps and bounds. These new programs focus on species protection through the collaboration of multiple partners that stretch across landowner boundaries. We are still far from recovery and delisting of species but we feel the collaborative approach is the only hope for biodiversity protection. These programs do not offer lip service but instead invest in practical, effective, and directed stabilization of Hawai‘i’s rarest botanical treasures. The symposium will focus on two things: 1) Demonstrating that directed, high-impact rare plant protection projects can contribute significantly to the stabilization of species and are an integral part of biodiversity protection efforts and 2) Highlighting programs that have made significant, innovative inroads in recovery actions. The symposium is an opportunity to link conservation practitioners with effective programs already in place.

The Mariana Islands: Issues in Island Conservation
Moderator: Renee Robinette Ha, University of Washington, and Shelly Kremer, U.S. Fish and Wildlife Service, Pacific Islands Office
8:00 am-4:00 pm, Room 316A

The Mariana Islands in the northwestern Pacific represent an interesting cross-section of island conservation issues. The island habitats of the archipelago have a long history of habitat disturbance. Forests in the region were impacted by sugar cane and copra production, military operations during WW II, introduction of feral ungulates and development for military use and tourism. Guam’s avifauna was devastated by the introduction of the brown tree snake and the islands of Saipan, Tinian and Rota remain under constant threat of brown tree snake introduction. However, efforts to conserve the unique flora and fauna of the region are currently being implemented by local, federal and non-government agencies. In this symposium, we will present an overview of some current issues facing the wildlife of these islands and report on the current status of conservation efforts throughout the archipelago.

Forum: Hawaiian Monk Seal
Moderator: Kayla Rosenfeld, Hawai‘i Public Radio News Director
10:20 am-12:00 pm, Room 310

The Hawaiian Monk Seal, more than any other animal species in Hawai‘i, is an iconic indicator of the health of Hawai‘i’s environment. The Hawaiian Monk Seal’s plight over the last 30 years, as an endangered species, is a function of multiple interconnected forms of ecosystem degradation. The designation of the Hawaiian Monk Seal as the Hawai‘i State Mammal in May 2008 is emblematic of the growing recognition within Hawai‘i of the icon and indicator status of this species.
The Monk Seal forum is one part of a rapidly expanding awareness and education campaign dedicated to saving this species and the ecosystems on which it depends. The forum will focus on identifying the interconnected forms of ecosystem degradation that have made the Hawaiian Monk Seal an endangered species, and articulating solutions, to protect this iconic indicator species.

The panel will discuss human impacts that have affected the seal’s decline, as well presenting an overview of the federal Monk Seal Recovery Plan signed on August 2007. The participants will also discuss other seal protection efforts that government leaders and public advocates can initiate to protect the seals, including fishing mitigation programs, and adequate funding for all seal recovery programs.

This Monk Seal Forum will be moderated by Kayla Rosenfeld in a discussion format and with time allotted for audience questions. The participants include Charles Littnan, Ph.D., Monk Seal Research Program, PIFSC, NMFS, NOAA; Chris Yates, Administrator, Protected Resources Division NMFS, NOAA; Bill Chandler, Policy VP Marine Conservation Biology Institute; Jeff Walters Ph.D., Co-Manager Hawaiian National Marine Sanctuaries and State of Hawai‘i; Gerry Okamoto, Volunteer Monk Seal Coordinator Program; Robert Braun, DVM, Monk Seal Veterinarian; and Earl Miyamoto ITP Coordinator, State of Hawai‘i. These seal experts and seal advocates are working to recover the most endangered endemic marine mammal in the United States.

Managing Dynamic Alien Species Invasion Scenarios in Terrestrial Ecosystems: Management Experiences and Research Needs
Moderator: Dr. Christoph Kueffer, Department of Botany, University of Hawai‘i at Mānoa
10:20 am-12:00 pm, Room 312

It becomes increasingly clear that the risk of alien species invasions and the challenges that invasive species managers are confronted with change with time. Global change factors such as climate change, increased CO2 air partial pressure, or changes in land use have a strong influence on invasions. Further, many invasive species evolve rapidly. With time the impact of an invasive species may diminish (e.g. because a native herbivore adapts to attack the alien species) or new impacts may emerge (e.g. because of synergetic effects with a later introduced alien species).

At this symposium, presentations from managers and scientists will discuss how possible changes in the behavior of an alien species can be foreseen and taken into account for management. It will for instance be discussed how management can reduce the risk of increased impacts of alien species with time (e.g. by reducing the potentials for evolutionary change).

In particular, presentations are invited that discuss how recent invasive species research, e.g. evolutionary biology or species distribution modeling of invasive alien species, can help invasive species management to deal with the dynamic nature of invasions. Presenters may also discuss managers’ experiences with dealing with invasions over long time periods.

Issues in Ungulate Management
Moderator: Mark Fox, The Nature Conservancy
10:20-4:00 pm, Room 316BC

This is a symposium providing a platform for presentation of current work in ungulate management, focusing on several pertinent issues: 1) monitoring/assessing success of a recent contract hunting effort on Santa Cruz Island; 2) results of a pilot ungulate control contract at Waikamoi Preserve utilizing the New Zealand based company Prohunt; 3) ungulate control in Hawai‘i Island Natural Area Reserves; 4) ungulate control tools/techniques in other states and national programs; 5) cultural and community outreach considerations in ungulate control; 6) an evaluation of the market opportunity for contract ungulate control in Hawai‘i; 7) the effects of feral pigs (Sus scrofa) on water quality and soil loss within a Hawaiian watershed; and 8) understanding the links between ungulates and ecosystems in Hawai‘i.

This is an opportunity to report in detail on a wide range of recent ungulate control efforts, to assess the efficacy and issues uncovered during the course of these projects, and to explore with symposium participants the potential for similar work in areas of highest biodiversity conservation importance where ungulates are a major threat.
Post-Conference Workshops

Post-conference workshops will be open to a limited number of participants. A separate registration fee may apply. Register on the conference registration form. Registration for invitation only workshops will be coordinated by the workshop organizer.

Thursday, July 31

Managing Dynamic Alien Species Invasion Scenarios in Terrestrial Ecosystems: Identifying Management Priorities and Research Needs
Dr. Christoph Kueffer, Department of Botany, University of Hawai’i at Mānoa, kuffer@hawaii.edu
1:40-4 pm, Room 312
Fee: None  Registration: By invitation only (contact the organizer)

The use of advanced technologies such as genetics, remote sensing and GIS modeling has recurrently been proposed as important new tools for invasive species management (e.g. Lodge et al., 2006, Ecological Applications). Given the research and management capacity, Hawai’i is an ideal model system to test the integration and application of these technologies for the long-term management of real-world invasion scenarios. The goal of the workshop is to facilitate new collaborations in this direction in Hawai’i, or even trigger new integrative projects.

Friday, August 1, 2008

A Tool for Preventing Non-native Invasive Species Spread: Hazard Analysis and Critical Control Point (HACCP) Planning for Hawai’i and other Pacific Islands
Jeffrey J. Herod, U.S. Fish and Wildlife Service, Invasive Species Program, Pacific Islands Fish & Wildlife Office jeffrey_herod@fws.gov
8:00 am-12:00 pm, Room 309
Fee: $20/person  Registration: Limited to 20 people (register on registration form)

This workshop will provide the background and skills to establish competence in developing Hazard Analysis and Critical Control Point (HACCP) plans and assist with proper implementation of these plans. Background information on HACCP will be applied to attendee’s experiences. Proficiency in plan development will be accomplished through classroom exercises.

He Kai Kanalani Ko Maunalua: Community-Based Marine Management for Maunalua Bay, O’ahu
Alyssa Miller, Mālama Maunalua, greenwaveproductions@gmail.com
8:00 am-12:00 pm, 308AB
Fee: None (sponsored by UH Sea Grant Program)  Registration: Limited to 50 people (register on registration form)

This workshop focuses on convening community and scientific management initiatives for Maunalua Bay, including conservation planning, human use monitoring, coral reef health land based pollution, invasive species removal, fishery monitoring, habitat restoration. The workshop’s final talk story session provides an opportunity to explore how local communities are taking the lead in marine management and restoration efforts.

Reef Roundtable: A Leadership Summit for Main Hawaiian Islands Coral Reef Conservation
Melissa Bos, Seascape Strategy Facilitator, consultant to Conservation International, Melissa.Bos@Ecorhythm.info
9:00 am-5:00 pm, Room 305AB
Fee: None (sponsored by Conservation International)  Registration: By invitation only (contact organizer)

The summit will be a one day facilitated discussion between invited representatives of key organizations. The number of attendees will be a balance between including all organizations involved in reef management and keeping the size of the summit small enough to produce meaningful dialogue. The summit will be one step in a continuing dialogue and will produce action items for follow-up by participants. Recommendations may range from repeating the summit periodically, to creating a networking mechanism, to joint proposals for future projects, to agency memorandum of understanding (MOU). Participants will leave with an enhanced understanding of the larger context of their work, contacts for new and strengthened partnerships, and ideas for how to better use their strengths to meet common goals.
Hawai‘i Conservation Alliance Awards

One of the goals of the Hawai‘i Conservation Alliance is to recognize achievements in the Hawaiian conservation community at all levels – from high school students to seasoned professionals. Each year the HCA presents a variety of awards, the recipients of which are honored at the Awards Luncheon on the final day of the Hawai‘i Conservation Conference.

Student Awards
The HCA awarded prizes to high school students, Chelsea Takahashi and Mali‘o Kodis, at the annual Hawai‘i State Science and Engineering Fair in April 2008. During the HCC you will have the opportunity to view their posters. Additionally, awards will be given to the top graduate student presenters in two categories: oral and poster presentation.

Conservation Innovation Award
This award shall be given to the instigators or champions of a procedure that leads to significant advances to the structure or nature of environmental conservation in Hawai‘i. Examples of such procedure may be the creating of legislation that changes the dynamics of management, or programs that lead to significant better protection of the Hawai‘i’s native ecosystems.

Award Recipients
Descriptions are available online at: http://hawaiiconservation.org/awards.asp

2008: To be announced at the Awards Luncheon on Thursday, July 31, 2008
2007: U.S. Fish and Wildlife Service Conservation Partnerships Program
POSTER PRESENTERS, TITLES AND LOCATION NUMBER

Poster List by Category

Presenter’s name listed only. See abstract book for complete abstract and author details.

Education and Outreach
P-1 The BWET Hawai‘i Ho‘okuleana (To Take Responsibility) Project for Educators. Federoff, Ellen.
P-2 Working to Preserve Pōhakuloa’s Natural Resources Through Public Outreach and Education. Suduth, Tiana.
P-3 Using Mālama Ke ‘Aina to Teach Science and Math in Hawai‘i. DeBoer, Nicholas.
P-4 Restoring the Ka‘ala Summit: Volunteers Valued for Their Time and More. Russo, Candace.
P-5 Volunteering on Vacation - Reinforcing Environmental Attitudes with Hands-on Experience. Porter, Brooke.
P-6 The County of Maui: Demonstrating its Commitment to Preserving Maui Nui’s Natural Resources Through Strong Community Relationships. Paracuelles, Kuhea.
P-7 Laying the Baseline for Community-Based Monitoring of Coral Reefs in Hawai‘i. Mejia, Manuel.
P-8 NOAA Fisheries: In Your Communities. Horvath, Dominique.
P-9 The Hawai‘i Fish Habitat Partnership: Creating New Opportunities for Stream Restoration. Smith, Gordon.

Management Tools
P-11 High Resolution Land Cover Data for the Island of O‘ahu, Hawai‘i. Feinholz, Christine.
P-12 “Ask a Bishop Museum Scientist”: An Online Identification Service Improving Public Understanding of Hawaiian Ecosystems. James, Shelley.
P-13 HIPNET: Hawai‘i’s Permanent Plot Network for Research, Monitoring, and Education. Ellsworth, Lisa.

Invasive Species-Terrestrial
P-14 Hawai‘i Invasive Species Council: Research and Technology. Buddenhagen, Christopher.
P-16* Conserving Native Hawai‘i Birds from Brown Tree Snake: Priority Species and Locations for Damage Valuation. Decker, Thomas.
P-17 Dynamics of a Controlled Mouflon Population in Hawai‘i. Stephens, Robert.
P-18 Rat Eradication on Mokapu Island by Aerial Application of Diphascione. Dunlevy, Peter.
P-19 Putting Together the Big Picture for Rodent and Mongoose Control in Hawai‘i: A Review of Need. Herod, Jeffrey.
P-20 Early Detection, Control and Containment of Invasive Ants at Pōhakuloa Training Area, Island of Hawai‘i. Slemmons, Caleb.
P-21 Alien Species Removal Following Fire Facilitates Native Recovery in Mesic to Wet Forest. Yanger, Corie.
P-22 Efficacy of Baits to Control the Big-Headed Ant (Pheidole megacephala) in Hawai‘i Volcanoes National Park. Snook, Kirsten.
P-23 A Cost-Effective Approach to Weed Management: Incipient Weed Program at Pōhakuloa Training Area. Foley, Erin.
P-25 Application of HACCP Principles to Non-native Invasive Species : Prevention, Monitoring and Innovation. Herod, Jeffrey.

Fresh Water Systems
P-27 Long-Term Rainfall Trends and Shifts in Mākaha Valley, O‘ahu. Mair, Alan.
P-29 Impacts of Invasive Fish on Nitrogen Dynamics in Hawaiian Coastal Wetlands. Kryss, Caitlin.

Marine Systems
P-31 New Action Plan to Address Marine Debris in Hawai‘i. Morishige, Carey.
Recreational Use and Impacts Assessment for Richardson's Ocean Park, Hilo, Hawai`i. Kearns, Colby.

Assessment of Land Based Threats to Coastal Resources at Kaloko-Honokōhau National Historical Park. Margriter, Sandra.

Kaho`olawe Baseline Data from Restoration Efforts and Coral Reef Monitoring in Kaulana and Hakioawa Watersheds. Higashino, Paul.


Elevated Levels of Selected Metals (Cr, Cu, Mn, Ni, V) in Honolulu Bay, Maui: A Potential Threat for Reef Biota? Hédouin, Laetitia.

Towards Conserving the Hawaiian Stony Coral, Montipora dilatata (Studer, 1901), and Other Rare Hawaiian Corals. Klobuchar, Richard.

Reproductive Biology of the Hawaiian Black Coral Antipathes dichotoma with Implications for Future Management. Wagner, Daniel.

An Analysis of the Prokaryotic Community Associated with the Mucus of Montipora patula. Kodis, Mali'o.

Examination of Algal Diversity and Benthic Community Structure at Palmyra Atoll, U.S. Line Islands. Braun, Cristi.


Hawai`i’s Nemobiinae Crickets: Unique Components of Caves and High-energy Marine Ecosystems. Stone, Fred.

Native Plants

P-C Native Hawaiian Plants at the United States Botanic Garden Conservatory in Washington D.C. Clark, Michelle. (on display in the concourse)


Management of Young Koa Forests. Friday, James.

Tree Pruning Residues Increase Soil Carbon and Nitrogen in Shade and Full-Sun Coffee Agroecosystems in Hawai`i. Youkhana, Adel et al.

Forest Structure and Composition on Maun Kea, Hawai`i. Farmer, Chris.

Adaptive Management of Portulaca sclerocarpa at Pōhakulua Training Area (PTA), Hawai`i Island. Kern, Joseph.


The Conservation of the Endangered Nanu (Gardenia brighamii) in Germplasm Storage. Takahashi, Chelsea.

Research Opportunities in the Hawai`i Experimental Tropical Forest. Kinslow, Frances.

Winged Vertebrates

A Monitoring Protocol for Hawaiian Hoary Bats in Pacific Island National Parks. Fraser, Heather.


Release of Captive Reared Hawai`i Akepa (Loxops coccineus coccineus) and Hawai`i Creeper (Oreomystis mana) into Kipuka 21 on the Big Island of Hawai`i. Lockyer, Adam.


Transfer of Maternal Antibodies as Protection Against Disease in Hawai`i `Amakihi. Hsu, Bobby.

Acclimation of Palila (Loxioides bailleui) to Captivity. Bebus, Sara.


Measuring Success: Lessons Learned from the Puaiohi (Myadestes palmeri). Roberts, Pauline.

Estimating Genetic Diversity of Palila (Loxioides bailleui) and Familial Relationships of Helper Males. Patch-Highfill, Leayne.

Genetic Diversity of Avian Malaria (Plasmodium relictum) in `Amakihi (Hemignathus virens). Farias, Margaret.

E Ho`opomaika`i i a Na Manu A`o. Blessings to the Newell’s Shearwaters. Holmes, Nick.

A Seabird Social Attraction Project at Kilauea Point National Wildlife Refuge. Joyce, Trevor.


*eligible for best student poster award

2008 Hawai`i Conservation Alliance Science Fair Award Recipients: At the annual Hawai`i State Science and Engineering Fair in April 2008, the HCA provided $950 in awards to two Senior and two Junior Research Projects. The two Senior awardees are invited to the HCC with their winning posters: Chelsea Takahashi (P-51) and Mali'o Kodis (P-40).
EXHIBITS

2008 International Year of the Reef Art Exhibitors

Hawai‘i Institute of Marine Biology (HIMB) International Year of the Reef Mural Display   HIMB has facilitated greater awareness and education of the current science occurring in the Northwestern Hawaiian Islands, as well as encouraged a greater interest in marine sciences from our local students in honor of 2008 International Year of the Reef. The three schools that participated in the program included: Kamehameha Schools Marine Science Program, Castle High School and King Intermediate. Over 130 students received a demonstration on the science in the Northwestern Hawaiian Islands and had the opportunity to participate and paint an interactive mural. Two 4 x 6 canvases were created and one outdoor wall mural. The goal of this program is to encourage reef stewardship, knowledge of marine research and the reef ecosystem across the Hawaiian Archipelago, and to spark student’s interest in the field of marine sciences.

Wyland Year of the Reef Display   Acclaimed marine life artist and advocate Wyland has generously donated a few of his pieces to be displayed at this year’s conference. His new “Year of the Reef” work is on display with generous support from the Wyland. Currently the artist is painting a wall mural to celebrate the ICRI International Year of the Reef 2008. The artist’s work has garnered him a place in the Guinness Book for World Records, and a place on the front lines for preserving marine life throughout the world. He is the author of more than 18 books and his non-profit Wyland Foundation is actively involved in clean water education. This year, as an official artist for the 2008 United States Olympic Team, Wyland has raised awareness about the “Green Olympics,” an international movement to focus attention on the environment during the Olympic year. Wyland pieces on display at HCC: Year of the Reef, Water Planet, Deep Blue Planet, Dolphin Sea.

Ocean and Me Contest Display   Staff from the National Oceanic and Atmospheric Administration, the state Division of Aquatic Resources, Mālama Hawai‘i and The Nature Conservancy worked to judge the Ocean and Me contest in honor of International Year of the Reef. Artwork was selected for an upcoming calendar and art exhibit at the Parents and Children Together office in Kalihi. More than 1,000 submissions were received from children in kindergarten through 12th grade. The theme for this year’s art contest was “The Ocean and Me.” Some of the selected works have been lent for this year’s art display.

Other Featured Local Artists

Iris Altamira
Limu Kala Sunlight, relief print on shoji paper
Limu Kala Echoes, relief print on shoji paper

Red Mahan
Abundant Seas, mixed medium giclee on canvas
Siren Emily, mixed medium giclee on canvas
Dive Beyond Your Fears, mixed medium giclee on canvas

Dawn Kovach
Angels Glow, acrylic on canvas
Ocean Angel, acrylic on canvas
Angel King, acrylic on canvas
Rising Monk, acrylic on canvas

Native Plant Display

Native plants provided by Rick Barboza, Hui Ku Maoli Ola; Interpretive Display coordinated by: Michelle Clark (U.S. FWS), David Burney, Michael DeMotta (National Tropical Botanical Garden), Anne E. O Malley

The U.S. Botanic Garden on The Mall, adjacent to the U.S. Capitol, houses the largest collection of native Hawaiian plants ever assembled outside the Hawaiian Islands — thanks to exhibits by the Kaua‘i Native Plant Society and the National Tropical Botanical Garden. The exhibit you see here features some of the plant species that traveled to Washington to become new residents of the Conservatory, as well as some of the posters that accompanied exhibits in Washington. It is our hope that by raising awareness of the beauty of Hawai‘i’s native plants and the peril they are in, officials in Washington and the general public will support the larger conservation effort required to save our native flora from extinction.
Exhibitors
(as of July 16)

Beach Environmental Awareness Campaign Hawai‘i
Bishop Museum Press
Community Work Day Program
Conservation Council for Hawai‘i
DLNR/Division of Aquatic Resources, International Year of the Reef (IYOR)
DLNR/Division of Aquatic Resources, IYOR Pledge
DLNR/Division of Forestry and Wildlife, Hawai‘i Branch
Environment Hawai‘i
ESRI
Evolution Sage
Hagadone Printing Company
Hawai‘i Coastal Zone Management Program
Hawai‘i Wetland Joint Venture
Hawai‘i Youth Conservation Corps
Hawaiian Electric Company
Hawaiian Forest
Hawaiian Island Solar
Hilo Core Genetics Facility
Kaho‘olawe Island Reserve Commission
KAUPA-Kalihi Ahupua‘a Ulu Pono Aahu‘u
Kealopiko LLC
Marine Conservation Biology Institute
Na Pua No‘eau
National Parks Conservation Association
National Tropical Botanical Garden
NOAA Fisheries Service, Pacific Islands Fisheries Science Center
NOAA Fisheries Service, Pacific Islands Regional Office
NOAA Pacific Services Center
NOAA Papahānaumokuākea Marine National Monument
‘Ōhi‘a Productions
Pacific GPS
Raser Technologies
Reef Check Hawai‘i
Resource Mapping
The Trust for Public Land
The Wildlife Society Hawai‘i Chapter
U.S. Fish and Wildlife Service
University of Hawai‘i
University of Hawai‘i at Hilo
University of Hawai‘i Press
USDA Natural Resources Conservation Service
William S. Richardson School of Law
Xcluder Pest Proof Fencing Ltd
PARTICIPANTS LIST
(Registrants as of July 14)

Pages 27-35 deleted from online version
Participants list will be included in printed version to be distributed to all registered participants at the conference
Hawai'i Conservation Alliance (HCA) and Hawai'i Conservation Alliance Foundation (HCAF)

Deanna Spooner Executive Director

The Hawai'i Conservation Alliance is a cooperative partnership of sixteen government, education and non-profit organizations that are strongly committed to environmental conservation in the Hawaiian Islands through land management, scholarly research and financial incentives. The mission of the Alliance is to promote effective, long-term management of Hawai’i’s native ecosystems through collaborative research, training and outreach among land managers, scientists, educators and the general public. The Hawai'i Conservation Alliance Foundation is the non-profit §501(c)(3) arm of the HCA. Its mission is to provide support for and conduct many of the charitable, educational, and scientific programs for the HCA.

Alliance Partners, Representatives and their Conservation Mission Statements


Loyal Mehrhoff (2007 Past Chair), Jim Jacobi

The mission of USGS/BRD is to work with others to provide scientific understanding and technologies needed to support and implement sound management and conservation of our Nation’s biological resources occurring in Hawai‘i and other Pacific island locations.

National Park Service (NPS)

Marilyn Parris (2008 Chair), Melia Lane-Kamahele

The National Park Service preserves unimpaired the natural and cultural resources and values of the national park system for the enjoyment, education, and inspiration of this and future generations. The Park Service cooperates with partners to extend the benefits of natural and cultural resource conservation and outdoor recreation throughout this country and the world.

Department of Land and Natural Resources: Division of Forestry and Wildlife (DLNR/DOFAW)

Paul Conry, Randall Kennedy

The mission of DLNR/DOFAW is to responsibly manage and protect watersheds, native ecosystems, and cultural resources and provide outdoor recreation and sustainable forest products opportunities, while facilitating partnerships, community involvement and education. Mālama ʻĀina.

University of Hawai‘i at Mānoa: Center for Conservation Research and Training (UH Mānoa/CCRT)

Kenneth Kaneshiro (Executive Chair), Rob Cowie

The mission of UH Mānoa/CCRT is to create the premier multi-agency, trans-disciplinary research and education center in the Pacific Asia Region whose mission is to develop a new paradigm for addressing ecosystem and human health issues within a socio-ecological systems framework that includes the spiritual values of traditional cultures.

Department of Defense/U.S. Army Garrison Hawai‘i: Natural Resource Program

Michelle Mansker

The goal of the U.S. Army Garrison, Hawai‘i Natural Resource Program is to enable the installation to comply with the Endangered Species Act while maintaining military mission readiness. The Army in Hawai‘i has over 100 listed species on their lands; which account for 1/3 of the nation’s and the State’s total listed species!

National Oceanic and Atmospheric Administration: National Marine Sanctuaries Program (NOAA/NMS)

Allen Tom, ‘Aulani Wilhelm

The mission of NOAA’s National Marine Sanctuaries is to serve as the trustee for the nation’s system of marine protected areas, to conserve, protect, and enhance their biodiversity, ecological integrity and cultural legacy.
National Oceanic and Atmospheric Administration: National Marine Fisheries Service (NOAA/NMFS)
Mike Tosatto, Gerry Davis
The mission of NOAA’s National Marine Fisheries Service in the Pacific Islands region is to achieve healthy marine ecosystems that provide for stability in fishery resources, recovery of endangered and threatened marine species, and enhanced opportunities for commercial, recreational, and cultural activities in the marine environment.

U.S. Department of Agriculture: Forest Service (USDA/FS)
Boone Kauffman, Karen Bennett
The mission of USDA/FS is through research, education, and demonstration, we provide scientific and technical information needed to restore, protect, and sustain forests of the Pacific for purposes of conservation and utilization.

U.S. Department of Agriculture: Natural Resource Conservation Service (USDA/NRCS)
Larry Yamamoto, Greg Koob
The Natural Resources Conservation Service works in partnership with private land owners and managers to protect, enhance, and preserve soil, water, air, plant and animals using sound science and expertise. Through our mission of "Helping People Help the Land," we provide technical and cost-share assistance for the implementation of conservation systems that help us to realize our vision of "Productive Lands, Healthy Environment."

U.S. Fish and Wildlife Service: Ecological Services (USFWS/ES)
Patrick Leonard, Steve Miller
The U.S. Fish and Wildlife Service's mission is: "working with others to conserve, protect and enhance fish, wildlife and plants and their habitats for the continuing benefit of the American people." The Service manages migratory birds and nationally significant fisheries; conserves and restores vital wildlife habitat through the National Wildlife Refuge System; protects and recovers endangered species; administers a Federal Assistance program; and helps other governments with conservation efforts.

U.S. Fish and Wildlife Service: National Wildlife Refuge Complex (USFWS/NWRC)
Barry Stieglitz
The mission of the USFWS/National Wildlife Refuge System is to administer a national network of lands and waters for the conservation, management and where appropriate, restoration of the fish, wildlife and plant resources and their habitats within the United States for the benefit of present and future generations of Americans.

Department of Land and Natural Resources: Division of Aquatic Resources (DLNR/DOFAW)
Dan Polhemus, Athline Clark
The State of Hawai‘i Division of Aquatic Resources has primary stewardship for all fresh, estuarine and near-shore marine waters in the Hawaiian Archipelago. It promotes sustainable conservation and use of marine ecosystems and their associated biota.

University of Hawai‘i at Hilo: College of Agriculture, Forestry and Natural Resource Management (CAFNRM)
William Steiner
The purpose of UH Hilo-CAFNRM is to provide quality education to assist individuals in acquiring the scientific knowledge, attitudes, and practical skills needed to practice environmentally sound, sustainable agriculture, forestry and natural resources and to be productive and responsible global citizens. The program blends comprehensive classroom instruction with practical, technology-based education through the use of the University of Hawai‘i at Hilo Agricultural Farm Laboratory, on-campus laboratory facilities, and a developing forestry facility. CAFNRM graduates skilled professionals who can further develop and promote agriculture, forestry and natural resources in the State of Hawai‘i, the United States, the Pacific Basin, and other countries. The College is especially interested in moving agriculture in the tropical and semitropical areas of the Pacific Basin toward more economical and self-sustaining methods.
Kamehameha Schools (KS)
Ulalia Woodside, Nāmaka Whitehead
The mission of the Kamehameha Schools is to fulfill Ke Ali‘i Pauahi’s desire to create educational opportunities in perpetuity to improve the capability and well-being of people of Hawaiian ancestry. It is the policy of KS to manage their lands and resources to optimize the balance of educational, cultural, economic, environmental, and community returns and steward resources in an ethical, prudent and culturally appropriate manner.

The Nature Conservancy Hawai‘i (TNC Hawai‘i)
Jason Sumiye, Samuel M. ‘Ohukani‘ōhi‘a Gon III
The mission of TNC Hawai‘i is to preserve the plants, animals, and natural communities that represent the diversity of life on Earth by protecting the lands and waters they need to survive. In the Hawaiian archipelago, our ecoregional goal is to bring active, protective management to representative, viable, native ecological systems and species of the Hawaiian Archipelago, and to thereby sustain the greatest possible complement of native Hawaiian biodiversity into the future. Working with partners, threats will be abated, health of terrestrial and freshwater ecological systems will be restored and maintained, and the unique biodiversity of the islands will be carried forward as an irreplaceable asset, meeting human needs and fulfilling ecosystem functions that serve all life in the islands. The Conservancy in Hawai‘i maintains a network of preserves, participates in watershed and other conservation partnerships, engages in active management of natural areas, and works to strengthen policies and capacity for conservation in Hawai‘i.

Office of Hawaiian Affairs (OHA)
Jonathan Scheuer, Kaiwi Nui
To mālama (protect) Hawai‘i’s people and environmental resources and OHA’s assets, toward ensuring the perpetuation of the culture, the enhancement of lifestyle and the protection of entitlements of Native Hawaiians, while enabling the building of a strong and healthy Hawaiian people and nation, recognized nationally and internationally.
17th Annual Hawai‘i Conservation Conference

JULY 28-30, 2009

Hawai‘i in a Changing Climate: Ecological, Cultural, Economic & Policy Challenges and Solutions

The 2009 Hawai‘i Conservation Conference theme will focus on climate change and its accompanying impacts on the Hawaiian archipelago’s terrestrial, freshwater, and marine ecosystems. The conference will provide a balance between in-depth presentations on current climate change research and solution-oriented sessions that address big-picture questions such as: How do we respond as managers and landowners to localized climate change impacts? What proactive steps can we take to ensure native species survival and continued ecosystem services?

HCC 2009 also will offer symposia, forums, and other general sessions for presentations on other important topics not directly related to climate change.

Stay tuned for HCA’s announcement about opportunities to lead a symposium, forum, or workshop.

Hawai‘i Conservation Week July 26 – August 1, 2009

www.hawaiiconservation.org

hcastaff@hawaii.edu