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<tr>
<th>Time</th>
<th>Session 1</th>
<th>Session 2</th>
<th>Session 3</th>
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<tbody>
<tr>
<td>8:00 AM</td>
<td>Opening Protocol, 3rd Floor Concourse</td>
<td>Lunch at 12:00 PM</td>
<td>Lunchtime Brown Bag (See p. 24)</td>
</tr>
<tr>
<td>8:45 AM</td>
<td>Opening Remarks, Room 316</td>
<td><em>Student Presentations</em></td>
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<tr>
<td>9:05 AM</td>
<td>Keynote Speaker: The Honorable Dr. Jane Lubchenco, Room 316</td>
<td>GENERAL SESSION - Lessons from the Pacific Islands</td>
<td>GENERAL SESSION Biosecurity</td>
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<tr>
<td>9:35 AM</td>
<td>HCA Distinguished Service Award, Room 316</td>
<td>MODERATOR Manuel Mejia</td>
<td>MODERATOR Josh Atwood</td>
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<tr>
<td>10:00 AM</td>
<td>FORUM Na’Aina Ho’olina Exploring the Relationship Between the Ali’i Trusts of Hawai’i and the Lands Managed to Support their Missions</td>
<td>SYMPOSIUM - Crossing the Blue Highway: Video Analysis of Dolphin Swim Participants Behavior During Wild Hawaiian Spinner Dolphin</td>
<td>SYMPOSIUM Navigating the Future: Impacts of Global Change and Management Implications</td>
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<td></td>
<td>KAMEHAMEHA SCHOOLS</td>
<td>MODERATOR Laura McCue &amp; Carilie Wiener</td>
<td>MODERATOR Jeff Burgett</td>
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<td>MODERATOR Milliani Browning</td>
<td>Cultural Conservation of the National Marine Sanctuary of</td>
<td>Hawaiian Electric Company</td>
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<td>American Samoa, Genevieve Brighouse</td>
<td>Climate Model Projections of Acidification and Thermal</td>
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<td>Bleaching in the World's Coral Reef Areas, Jeffrey Magnard</td>
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<tr>
<td>10:20 AM</td>
<td>Gathering Mānō: Involving Native Hawaiian Community Members in the Spinner Dolphin Management Process, Janye LeFors</td>
<td>Enabling Community Action to Foster Climate Resiliency - Amouli Village, American Samoa, Arielle Levine &amp; Fatima Saaufs-Leau</td>
<td>Discussion</td>
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<td>Dolphin SMART in the Pacific Islands Region: Educating the Public About the Conservation of Wild Dolphins, Laura McCoo</td>
<td>The Establishment of a Bio-Cultural Education Center on Moloka'i, French Polynesia, Orl Sta</td>
<td>11:20 AM</td>
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<tr>
<td>10:40 AM</td>
<td>Responsible Marine Wildlife Viewing: Tailored and Unique Outreach Options for Driving Behavioral Change, Elia Herman</td>
<td>Discussion</td>
<td>11:00 AM</td>
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<td>11:00 AM</td>
<td>Overview of Efforts to Standardize Monitoring and Expedite Permitting for Offshore Aquaculture in Hawai’i and the U.S. Pacific Islands, Alan Everson</td>
<td>First Conservation Easement in Micronesia: Vela Forest Legacy Project as a Pioneer Under the Micronesian Challenge, Blair Charley &amp; Kathleen Friday</td>
<td>12:00 PM</td>
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<td>Marine Cage Culture and Environmental Interactions Monitoring and Modeling for Responsible Stewardship, James Morris</td>
<td>Changing Cultures: Lessons from Conservation Programs in Papua New Guinea, Jaamy Lynch</td>
<td>Shifting Hawaiian Forest Bird Distribution under Climate Change and the Need to Consider Novel Conservation Strategies, Lucas Fortini</td>
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<td>Open Ocean Municulture as a Marine Conservation Imperative, Neil Sims</td>
<td>SCUBA Divers’ Environmental Perceptions, Preferences, and Willingness to Contribute to Conservation Actions in Guam, Shanna Grafton</td>
<td>Discussion</td>
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<td>Potential for Bivalve Culture and Use of Ecological Services in Traditional Hawaiian Fishponds, Maria Haws</td>
<td>Sustainable Ocean Management and the Human Element: Coral Reef Management on Ulithi Atoll, Yap State, FSM, Nicole Crane</td>
<td>12:00 PM</td>
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<td>Ho'āla Loko 'Ia - Restoring Traditional Hawaiian Fishpond Systems, Michael Cain</td>
<td>Socio-Economic Analyses of Villages Under the Community Based Fisheries Management Program in American Samoa, Faleselau Tullagi &amp; Saumanifauxase Ukirifi</td>
<td>1:20 PM</td>
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<td>1:20 PM</td>
<td>Response of Reef Corals to Extreme Turbidity on the South Molokai Reef Flat, Paul Jokiel</td>
<td>Perpetuating Traditional Conservation Through Blending Cultural Practice and Modern Science, Ku'ulani Kekaulani &amp; Hannah Springer</td>
<td>Re-Designing Predator Proof Fences for Hawai'i: Results of a Survey of Sanctuaries in New Zealand and Hawai'i, Lindsay Young</td>
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<td>Putting Human Impacts on Fish Populations in Perspective: Spatial Variation on a Local Scale, Kelvin Geroose</td>
<td>Aquaponic Versus Soil Cultivation of 'Ahuulu and 'Olema: Comparisons of Plant Growth and Nutrient Dynamics for Effective Propagation and Use, Leina'alai Bright &amp; Danielle Hull</td>
<td>Effects of Non-native Ungulate Removal on Vegetation and Ecological Processes in Pacific Island Forests, Rebecca Cole</td>
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<td>1:40 PM</td>
<td>Lesson Learned from Maui's Algal Blooms in the Last Decade, Celia Smith &amp; Meghan Dailer</td>
<td>Using Botanical Footprints to Delineate Social-Ecological Zones Such as Sacred Forest on Kaua'i in the Pre-colonial Era, Kawika Winter</td>
<td>Zero Tolerance: The Kaua'i Watershed Alliance’s East Alaka'i Protective Fence Project, Nicolai Barca &amp; Lucas Behnke</td>
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<td>Larval Dispersal on the Big Island: Connecting Reefs, Fish, and People, Mark Hixon</td>
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<td>A Glimpse at the Future of Pest Control in Upper Limahuli Valley, John-Carl Watson &amp; Chiem Nagle</td>
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<td>1:40 PM</td>
<td>SYMPOSIUM Coral Reef of Maui Nui: Physical and Biologic Complexity and Connectivity</td>
<td>GENERAL SESSION Bio-cultural MODERATOR Kawika Winter</td>
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<td>2:00 PM</td>
<td>Clayton Averett, University of Hawai'i at Mānoa</td>
<td>Pelika Bertelmann, Nā Maka o Papahānaumokuākea</td>
<td>Robert Richmond</td>
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<td>Rhonda Loh, National Park Service</td>
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<td>Creighton Litton, University of Hawai'i at Mānoa</td>
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<td>Andrew Stevens, Center for Environmental Management of Military Lands</td>
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<td>Wayne F. Ching, Division of Forestry &amp; Wildlife</td>
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<td>Elizabeth Pickett, Hawai'i WildFire Management Organization</td>
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<td>2:40 PM</td>
<td>Pokihi Arts, Maui Nā Kalua</td>
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<td>3:00 PM</td>
<td>Break</td>
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<td>3:30 PM</td>
<td>Alien Atkins, Hawai'i Community College, Lo'ihi Lena Nurses</td>
<td>Pelika Bertelmann, Pilina Kii, Nā Maka o Papahānaumokuākea, Rick Barboza, Hui Kō Māoli-Ola</td>
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<td>Eva Schemmel, University of Hawai'i at Mānoa</td>
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<td>Kaloi No-Iluhehia, Kaua'i Mahina</td>
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<td>Mahinalepape Pahoa Duarte, Hālau Kō Mana</td>
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<td>Charter School</td>
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<td>Pelika Bertelmann, Pilina Kii, Nā Maka o Papahānaumokuākea</td>
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<td>Rick Barboza, Hui Kō Māoli-Ola</td>
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<td>4:00 PM</td>
<td>General Session: A Fish Future, MODERATOR Jack Kittinger</td>
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<td>4:00 PM</td>
<td>Numerical Modeling of Coral Connectivity in the Maui Nui Complex of Hawai'i, Curt Storozzi</td>
<td>Using the Principles of Reef Resilience to Inform Management of West Maui Coral Reefs, Eric Conklin</td>
<td>Human Threats to Maui's Manta Rays and the Olowalu Reef; Is Science Enough?, Mark Deakos</td>
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<td>Using Genetics to Infer Connectivity Among the Hawaiian Islands for the Rice Coral (Montipora capitata), Rob Toonen</td>
<td>Coral Disease as an Indicator of Reef Resilience in Maui Nui, Darci White</td>
<td>Cultural Science, Edwin &quot;Ekolu&quot; Lindsey</td>
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<td>4:40 PM</td>
<td>Diagnosis and Treating the Causes of Coral Reef Decline, Robert Richmond</td>
<td>Population Connectivity Modeling in Hawai'i with a Focus on Maui Nui, Johanna Wren*</td>
<td>Piilani: Conservation Through Relationships, Pelika Bertelmann</td>
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<td>5:00 PM</td>
<td>Understanding and Measuring Sagoon Security in the Hawaiian Islands, Jason Chow</td>
<td>Future Coral Community Projections for the Hawaiian Islands: A Look at Maui Nui, Erik Franklin</td>
<td>Nā Kōlo 'Āna: A Digital Tool for Monitoring Natural-cultural Resources and Supporting Management Strategies, Strengthen Healthy, Balanced Communities in Hawai'i, Pelika Bertelmann</td>
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<td>Barriers to Effective Fisheries Co-Management in Hawai'i and Opportunities for Robust Governance, Adam Ayers*</td>
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<td>5:30 PM</td>
<td>Closing Protocol, Room 316</td>
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*Student Presentations
Wednesday, July 16, 2014

SESSION 4
10 AM – 12 PM

SYMPOSIUM Ocean Tipping Points in Hawaiian Coral Reefs: Developing Science to Support Marine Ecosystem-Based Management
MODERATOR Jack Kitttinger

10:00 AM
Embedding the Science of Ocean Tipping Points in Coral Reef Conservation and Management, Mary Donovan

10:20 AM
People and Reefs: Cumulative human Impact Mapping for Marine Ecosystems of Hawai’i, Joseph Loya
Predictive Models and Trade-Off Analysis for Guiding Cost-Effective Land-Based Management Actions for Conserving Coral Reefs, Kirsten Olsson

10:40 AM
Environmental Drivers and Local Human Impacts Shape Coral Reef Communities Across the Pacific, Jamison Gove
Using Modeling Approaches to Understand and Respond to Land-Based Pollution Impacts on Coral Reefs, Kirsten Olsson
Getting Stakeholders to the Table: The Collaborative ‘Au‘au Planning Initiative, Anne Walton

FORUM The Maui Nui Makai Area Learning Network Experience, MODERATORS Manuel Mejia, Emily Fielding, & Roxie Sylvia

11:00 AM
Edwin Lindsay, Polomai Hiu
Sol Kaho‘ohalahala, Mauaulu Ahupua‘a Community Managed Makai Area
Jay Carpino, Wailuku Ahupua‘a Community Managed Makai Area
Malia Carpino, Wailuku Ahupua‘a Community Managed Makai Area
Manuel Mejia, The Nature Conservancy
Emily Fielding, The Nature Conservancy
Leimamo Lind-Strausse, Kipahulu Ohana
Claudia Kalaola, Na Mamo O Mū‘olea
Robin Newbold, Maui Nui Marine Resource Council
Lagaris Ehari, Na Mamo O Mū‘olea

Propagating of Three Critically Endangered Fern Species of Kaua‘i: Asplenium deplanatum, Asplenium diphlemonii and Asplenium diellacinatum, Ruth Agaraula

Intbreeding Depression Leads to Decline in a Majority of Captive-Bred Species in the Hawaiian Tree Snail Subfamily Achatinellinae, Michael Hadfield

FORUM Adapting to New Challenges: Innovative Science and Management Techniques for Emerging Issues in Marine and Coastal Ecosystems
MODERATOR Anne Rosinski

11:20 AM
Implementing Hawai‘i’s Rapid Response Contingency Plan: Strengthening Our Framework for Responding to Coral Disease, Bleaching, and Crown-Of-Thorns-Starfish Events, Anne Rosinski

FORUM Acacia Koa: Silviculture and Breeding for Effective Conservation and Restoration MODERATOR Faith Inman-Narahari

11:40 AM
Innovative Research in Hawaiian Estuaries to Improve Sustainable Fishing in Hawai‘i, Kimberly Pettern
What’s a Polyp to Do? Hawaii‘i’s First Coral Nursery Dedicated to Mitigation and Restoration, Dave Gallo

FORUM Nā Kia‘i Kūmokuhāli‘i: Forest Guardians Project inspires Conservation Leaders in Hawai‘i and Peru
MODERATOR Colleen Cole

12:00 PM Lunch

SESSION 4
10 AM – 12 PM

General Session Species Recovery
MODERATOR George Wallace

10:00 AM
Stretching the Boundaries: Long Distance Translocation of Millerbirds Facilitates Endangered Species and Ecosystem Recovery, Sheldon Plentovich

10:20 AM
Home-Range Patterns of Kīwiku (Pseudonaias xantophyly) and Maui ‘A‘auwaihio (Pareoreomyza montana), Chris Warren

10:40 AM
Native Hawaiian Forest Birds Using Non-Native Habitat on Maui, Peter Motyka

FORUM Bringing Agriculture and Conservation Initiatives, MODERATOR Duane Okamoto

1:00 PM
David Morgan, Ka‘ūlani Ranch
Stephanie Whalen, Hawai‘i Agricultural Research Center
Niklos Dudley, Hawai‘i Agriculture Research Center
Irene Sprecher, DLNR/Division of Forestry and Wildlife
Steph Dunbar-Co, Kaimalu Ranch

1:20 PM
Herbicide Use in Wainiha Valley, Kaua‘i to Control Australian Tree Fern, Cythetha cooperi, Trae Menard

FORUM Nā Kia‘i Kūmokuhāli‘i: Forest Guardians Project inspires Conservation Leaders in Hawai‘i and Peru
MODERATOR Colleen Cole

1:00 PM
Labela Camara, Three Mountain Alliance
Emily Leucht, Three Mountain Alliance
Colleen Coe, Three Mountain Alliance
Robin Keith, San Diego Zoo Institute for Conservation Research
Samantha Young, San Diego Zoo Institute for Conservation Research
Jill Kerach, Project Dragonfly/Miami University
Gustavo Flores, Sicán National Museum
Tina Flower, Halalali Academy

1:20 PM
### Wednesday, July 16, 2014

#### ROOM 315

**Community Fisheries Enforcement Units - A New Model for Fisheries Management**, Brook Tamayo  
What Do We Know And How is it Related? Organizing Data Based on a Ridge-To-Reef Concept, Glenn Higashi & Eko Lapp

### ROOM 316

**GENERAL SESSION**

**MODERATOR Elia Herman**

- For the People Artisanal Fisher Perceptions Regarding the Sustainability of Bottom Long Line Use in Baja, Guanacaste, Pacific Coast, Costa Rica, Andy Systerm
- From Inspiration to Action: Using Social Marketing Approaches to Encourage Behavioral Change for Coral Reef Health in Sipadan and Maui, Sheila Sarhangi
- Rivers of Resilience: Information Flow Within the Socio-Ecological Systems of Hawai'i, Nathan Albirton

### SESSION 6

**FORUM** An Ocean of Partnerships: Regional and State Ocean Resources Management Planning and Collaboration, MODERATOR Kristina Kekuewa

- Expressing the Benefits of Tree Improvement for Forest Restoration through Innovations in Propagation and Silvicultural Management, Kyle Earnshaw
- Dynamics of a Koa Looper Moth (Scotorythra paludicola) Outbreak at Hakalau Forest National Wildlife Refuge, Robert Peck
- Response of Koa (Acacia koa) and Birds to an Outbreak of the Koa Looper Moth (Scotorythra paludicola) on Hawai'i Island, Paul Banke
- It’s Raining Caterpillars! A Massive Koa Moth Outbreak on Hawai’i Island, William Haines
- Assembly of Arthropod Communities in Hawai‘i’s Interactions and Response to Changes in Immigration Rate, Curtis Ewing  
- Evaluating the Net Benefits of Primary and Restored Koa Forest Ecosystem Services, Katherine Wilson
- Archipelago-wide Demography of Hawai‘i’s Most Abundant, but Declining, Native Tree, Metrosideros polymorpha, Nasby Burton  
- Conservation Tools for Commercial Forestry in Hawai‘i: What’s Available and What’s Needed, Paul Conroy
- The Hawaiian Monk Seal: Status, Trends and Recovery Efforts, Tracy Wurth
- Male Dominance and Aggression in the Endangered Hawaiian Monk Seal (Monachus schauinslandi), Thea Johanss
- State of Preparedness Efforts for Vaccination of Hawaiian Monk Seals (Monarchus schauinslandi) Against Morbillivirus, Michelle Barbiere
- iWales: Integrating Multiple Technologies to Understand the Foraging Behavior and Fisheries Impacts of Monk Seals in the Main Hawaiian Islands, Kenady Wilson
- Promoting the Conservation of Hawaiian Monk Seals Through Scientific Collaboration and Outreach with Local Communities, Charles Littnan
- Complexities of Conflict: Lessons from the Critically Endangered Hawaiian Monk Seal, Rachel Sprague

### ROOM 314

- Faith Inman-Narahari, University of Hawai‘i at Mānoa and Tropical Hardwood Tree Improvement and Regeneration Center
- Christian Giardina, USDA Forest Service, Institute of Pacific Islands Forestry  
- Robert Hauff, DLNR/Division of Forestry and Wildlife
- Nicholas Koch, Forest Solutions, Inc.  
- Thomas Baribault, Forest Solutions, Inc.  
- Irene Sprecher, DLNR/Division of Forestry and Wildlife
- James B. Friday, University of Hawai‘i at Mānoa
- Nickoles Dudley, Hawai‘i Agriculture Research Center

### ROOM 312

**FORUM** The Marine Fellowship Program: Building Capacity for Conservation Success in Hawai‘i, MODERATOR Sean Marrs

- Manuel Mejia, The Nature Conservancy
- Jean Tanmoto, NOAA Pacific Services Center
- Russell Animoto, The Nature Conservancy
- Brad Wong, Office of Hawaiian Affairs
- Leilani Warren, The Nature Conservancy Fellowship Program
- Bract Chillingworth, Ha‘ui‘u‘u-Mau Loa Foundation

### SESSION 6

**FORUM** Kū‘ula: Integrating Western and Indigenous Sciences in Hawai‘i, MODERATORS Misake Takabayashi & Pelika Bertelmann

- University of Hawai‘i at Hilo Students:  
  - Emily Cadu
  - Malei Awohi
  - James Akau
  - Maury Sutteling
  - Lomāala Halii
  - Daniel Jennings-Kam
  - Cindy Among-Serrara
  - Kahili Anderson
  - ‘Elika Jardin
  - Lauren Kapono
  - Kewika Aspili
  - Cherie Kaushi
  - Kanoe Steward
  - Devon Aquair
  - Kailay Passcoe
  - Kalani Quicho
  - Leilani Abuya
  - Melissa Adams
  - Louisa Economy

### SESSION 5:30 PM

- Closing Protocol, Room 316

### 5:30 - 6 PM

- 2016 IUCN WCC Briefing, Room 314

### 5:30 - 8 PM

- Poster Reception - Exhibits Open
**Thursday, July 17, 2014**

**SESSION 7**  
**10 AM - 12 PM**

**FORUM** Sustainable Tourism Benefits Everyone - Overview of the Hawai‘i Ecotourism Association's Sustainable Tourism Certification Program  
*"Travel Pono"*, **MODERATOR Aaron Lowe**

**10:00 AM**
- Linda Cox, University of Hawai‘i
- Aaron Lowe, DLNR/Division of Forestry and Wildlife
- Tim McKeage, Atlantis Adventures
- Annette Kahoalau, Annette’s Adventures
- Liz Foote, Coral Reef Alliance

**10:20 AM**
- Native Collector Sea Urchins: Not so Hawai‘a’s (Useless) After All, **Grace Chon**

**10:40 AM**
- Developing Removal Strategies to Control Invasive Algae in Kāne‘ohe Bay, **Dwayne Minton**

**11:00 AM**
- Using ARIES to Map Ecosystem Service Flow for Coral Reef Conservation and Management, **Kenneth Bagstad**

**11:20 AM**
- Incorporating Ecosystem Services in Management and Planning: Experiences with INVEST, **Greg Guannel**

**11:40 AM**
-**Discussion**

**12:00 PM**
-**Pacific Islands Luncheon, HCAF hosted**

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**SESSION 8**  
**1 PM - 3 PM**

**FORUM** Guns for Hire: Challenges and Benefits of Utilizing Contractors in Natural Resource Management  
**MODERATORS Jason Suniye & Alison Cohan**

**1:00 PM**
- Overview of the Research Cyberinfrastructure Core (RCC), **Michael Kido**

**1:30 PM**
- Environmental Monitoring in Hawaiian Allopatric Using InateleSense-based "Smart" Wireless Sensor Networks, **Kevin Montgomery**

**1:40 PM**
- Investigating Coral Reef Ecosystem Responses to Increasing Nutrients and Other Disturbances: Herbivore Control of Algal Overgrowth in Two Hawai‘i Parks, **Jim Boets**

**2:00 PM**
- A Community-Based Aedes Mosquito Study and Surveillance Program in Kona, Hawai‘i Island, **Sylvia Taxeira**

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**SESSION 7**  
**1 PM - 3 PM**

**FORUM** Hawaiian Disease: Avian Disease in Hawai‘i  
**MODERATOR Jim Jacoby**

**1:00 PM**
- Next-Generation Sequencing Reveals Major Heterogeneity in Allopatric Associated with Survival to Avian Malaria (Plasmodium relictum) in Hawaiian Honeycreepers, **Susan Jarvis**

**1:20 PM**
- Acoustic Detections of Avian Power Line Collisions: A Novel Monitoring Solution for a Global Problem, **Marc Travers**

**1:40 PM**
- Discussion

**2:00 PM**
-**Winter Distribution and Use of High Elevation Caves by the Endangered Hawaiian Hoary Bat, Losinthus cinereus spectabilis, Kristina Montoya-Aiona & Frank Bonaccorso**

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**SESSION 8**  
**1 PM - 3 PM**

**SYMPOSIUM** Ecosystem Service Modeling and Valuation to Support Ridge-to-Reef Management  
**MODERATOR Kirsten Oliver**

**1:00 PM**
- Building an Ecosystem Service Tool to Support Ridge-to-Reef Management and Conservation in Hawai‘i, **Kirsten Oliver**

**1:20 PM**
- Modeling Coral Reef Ecosystem Goods and Services to Guide Management: A Case Study of Maui Nui, **Jade Olevaux**

**1:40 PM**
- The Importance of Coral Reefs for Coastal Protection, **Greg Guannel**

**2:00 PM**
- The Perplexing Problem of Avian Pox in Hawaiian Forest Birds, **Michael Samuel**

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**SESSION 8**  
**1 PM - 3 PM**

**GENERAL SESSION** Marine Invasives  
**MODERATOR Sonia Gorgula**

**1:00 PM**
- Understanding the Adaptive Ability of Lobe Corals, **Koho Titihammer**

**1:20 PM**
- Local or Exotic Cuisine? Quantifying Herbivory Pressure and Preference for Macrocystis, **Scott Chulakota**

**1:40 PM**
- Investigating Coral Reef Ecosystem Responses to Increasing Nutrients and Other Disturbances: Herbivore Control of Algal Overgrowth in Two Hawai‘i Parks, **Jim Boets**

**2:00 PM**
- Context-Specific Effects of Disturbance on Coral Reef Communities in the Cook Islands: A Case Study, **Rachel Morrison**

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**SESSION 8**  
**1 PM - 3 PM**

**SYMPOSIUM** 'Ōpe'ape'a: Conserving Hawai‘i’s Native Land Mammal Through Research, Restoration, and Adaptive Management  
**MODERATOR Frank Bonaccorso**

**1:00 PM**
- Reconstructing the Biogeographic History of the Hawaiian Hoary Bat, **Amy Russell**

**1:20 PM**
- Inter-Island Variation and Potential Geographic Structure in ‘Opape’a: Implications for Conservation Management in Hawai‘i, **Frank Bonaccorso**

**1:40 PM**
- A Previously Undescribed Extinct Vespertilionine Bat from Hawai‘i, **Kevin Olival**

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**SESSION 8**  
**1 PM - 3 PM**

**SYMPOSIUM** Evaluating the Efficacy of Marine Protected Areas in Controlling Cephalopholis argus in Puakō, Hawai‘i: Methods for Assessing Native Collector Sea Urchins: Friend or Foe?, **Laura Stanley**

**1:00 PM**
- Experimenting Removal of the Introduced Grupapor, **Jonathan Giordano**

**1:20 PM**
- Marine Biosecurity in Hawai‘i: Progress in Minimizing Further Arrivals of Aquatic Invasive Species, **Sonja Gorgula**

**1:40 PM**
- The Importance of Coral Reefs for Coastal Protection, **Greg Guannel**

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**SESSION 8**  
**1 PM - 3 PM**

**SYMPOSIUM** Management and Conservation in Hawai‘i: Lessons Learned and Future Directions  
**MODERATOR Stephen Anthony**

**1:00 PM**
- Incorporating Ecosystem Services in Management and Planning: Experiences with INVEST, **Greg Guannel**

**1:20 PM**
- Valuing Ecosystem Services Through the Eyes of the beneficiaries, **Gan Jin**

**1:40 PM**
- Discussion

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**SESSION 8**  
**1 PM - 3 PM**

**SYMPOSIUM** Monitoring Solution for a Global Problem, **Wei Liao & Michael Samuel**

**1:00 PM**
- The Perplexing Problem of Avian Pox in Hawaiian Forest Birds, **Michael Samuel**

**1:20 PM**
- The Effects of Climate Change on the Avian Malaria and Hawaiian Forest Birds, **Wei Liao & Michael Samuel**

**1:40 PM**
- Discussion

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**SESSION 8**  
**1 PM - 3 PM**

**SYMPOSIUM** Modeling to Connect Land Management to Hydrologic Ecosystem Services: Opportunities and Challenges  
**MODERATOR Aaron Lowe**

**1:00 PM**
- Modeling to Connect Land Management to Hydrologic Ecosystem Services: Opportunities and Challenges, **Kim Falinski & Hla Htun**

**1:20 PM**
- Valuing Ecosystem Services Through the Eyes of the beneficiaries, **Gan Jin**

**1:40 PM**
- Discussion
<table>
<thead>
<tr>
<th>Time</th>
<th>Room 314</th>
<th>Room 315</th>
<th>Room 316</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:20 PM</td>
<td>Seasonal Occupancy in a New Mitigation Area for the Endangered Hawaiian Hoary Bat, Christopher Todd*</td>
<td>Using Multiple Approaches to Detect and Understand Bat Fatalities at Wind Turbines: A Case Study from North O‘ahu, P. Marcos Gorresen</td>
<td>The Restoration of an O‘ahu Wetland for ‘Opo‘ale‘apea, Dave Johnston</td>
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<td>2:40 PM</td>
<td>The Pacific Fire Exchange - Partnership Driven Contributions to Fire Management on Pacific Islands, Christian Giardina</td>
<td>The Efficacy of Using Ultrasonic Acoustic Deterrents to Reduce Hawaiian Hoary Bat Fatalities at Wind Turbines, Cris Hein</td>
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<td>3:00 PM</td>
<td>Break</td>
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<td>3:00 PM</td>
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<tr>
<td>3:15 PM</td>
<td>GENERAL SESSION: Tech &amp; Tools</td>
<td>GENERAL SESSION: Managing a Sea of Change</td>
<td>GENERAL SESSION: Catalyzing Capacity for Conservation</td>
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<td>MODERATOR Regina Ostergaard-Klem</td>
<td>MODERATOR Manuel Mejia</td>
<td>MODERATOR Wendy Kuntz</td>
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<td>3:35 PM</td>
<td>Mapping and Monitoring with Unmanned Aerial Vehicles (UAVs), Miguel Castrence</td>
<td>Honokohau Coastal Resource Assessment: An Integrative Approach to Coastal Resource Management, Hōkū Pihana &amp; V. Kalani Quiocho</td>
<td>Building a New Generation of Young Leaders in the Western Pacific Islands, Lauren Wetzell</td>
</tr>
<tr>
<td>4:15 PM</td>
<td>Our Changing Islands: Building an Optimized Baseline Soil Carbon Map for the State of Hawai‘i, Michelle Lazarou*</td>
<td>Using Plastic Inside Shearwaters to Monitor Marine Debris Around O‘ahu, Shannon Lyday</td>
<td>Powerhouse Internship Programs: Building Local Leaders for Hawai‘i’s Sustainability Movement, Amy Brinker, Ella Aki, Nicole Fisher &amp; Michel Arakaki</td>
</tr>
<tr>
<td>5:15 PM</td>
<td>Our Changing Islands: Seabird Contribution to Nutrient Deposition in Hawaiian Tropical Montane Ecosystems, Julia Rowe*</td>
<td>Baseline and Projected Future Carbon Storage and Flux in Terrestrial and Freshwater Aquatic Ecosystems of Hawai‘i, Paul Selinata</td>
<td>Projecting Hawaiian Terrestrial Biome Shifts Under Climate Change, Lucas Fortini</td>
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<tr>
<td>6:30 PM</td>
<td>Closing Pau Hana Tastings &amp; Drinks, HCA Student Awards, 3rd Floor Concourse</td>
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<td>6:30 PM</td>
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*Student Presentations