Gifts, Grants, and Contracts for April 2010

The following gifts, grants and contracts received by all campuses during the period April 1, 2010 through April 30, 2010 total $20,141,734. The unofficial year-to-date total is: $351,629,146.

Research

**DHHS-Dept of Health and Human Services**

Health & Human Svc, Dept - Natl Inst of Health (NIH)  
**Contribution of Sperm Nucleus to Paternal DNA Replication**  
Ward, William S  
Dept Anatomy, Biochemistry, Physiology and Reproductive Biol  
The goal of this project is to test our hypothesis that sperm provide molecular instructions to the embryo for replicating the paternal DNA.  
$246,060

Health & Human Svc, Dept - Natl Inst of Health (NIH)  
**Surveillance, Epidemiology and End Results (SEER) Program**  
Goodman, Marc T  
Cancer Research Center  
Evaluate treatment patterns specifically for prostate cancer, non-hodgkin lymphoma (NHL), chronic lymphocytic leukemia (CLL), and gastrointestinal stromal tumor (GIST).  
$658,675

Health & Human Svc, Dept - Natl Inst of Health (NIH)  
**HIV-1 Proviral DNA and Monocyte Phenotype in Relation to Neurocognitive Function**  
Shiramizu, Bruce T  
Department of Medicine  
The grant application is a supplement to a funded R01 grant application that will collaborate with investigators at University of Puerto Rico-Medical Science Campus in studying neurocognitive problems in Hispanic women; in response to NIH NOT-NS-08-006.  
$228,084

Health & Human Svc, Dept/NIH - Natl Cancer Institute  
**The Colon Cancer Family Registry: Hawaii**  
Le Marchand, Loic  
Cancer Research Center  
To maintain and expand the Hawaii Colorectal Cancer Family Registry for the next four years.  
$20,644

Health & Human Svc, Dept/NIH - Natl Cancer Institute  
**Surveillance, Epidemiology and End Results (SEER) Program**  
Goodman, Marc T  
Cancer Research Center  
The Hawaii Tumor Registry will maintain a cancer registration system for identification and follow-up of all cancers diagnosed in Hawaii as part of the SEER program.  
$1,893,231

Health & Human Svc, Dept/NIH - Natl Inst of Allergy & Infectious Dis  
**Novel Engineering of a P. falciparum Merozoite Surface Protein 1 Malaria Vaccine**  
Hui, George S N  
Dept of Trop Med, Medical Microbiology and Pharmacology  
To develop a blood stage vaccine against human malaria.  
$69,657

Health & Human Svc, Dept/NIH - Natl Inst of Allergy & Infectious Dis  
**Mechanism of Activation of Innate Immunity by ISS-DNA**  
Chu, Wen-Ming  
Cancer Research Center  
Understand how innate immunity is activated by immunostimulatory DNA sequences (ISS-DNSs)  
$329,175

Health & Human Svc, Dept/NIH - Natl Inst of Biomed Imaging & Bioengrg  
**Spectral Spatial Pulses for Gradient Echo MRI**  
Stenger, Victor Andrew  
Department of Medicine  
Magnetic resonance imaging (MRI) is a powerful and non-invasive technique for observing anatomy, structure, and function in the human body. However, there are challenges and obstacles in the form of image artifacts. The goal of this project is to develop techniques to reduce image artifacts in MRI.  
$270,212
Gifts, Grants, and Contracts for April 2010

Research

**DOC-Dept of Commerce**

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) $34,327
Coral Habitat and the Use of Coral by Recruit Reef Fishes: Evaluation of Watershed Reclamation at Pelekane Bay, West Hawaii
Jokiel, Paul L Hawaii Institute of Marine Biology
The proposed project will provide important supplementary information on in-water responses of coral habitat and the recruit life-stage of a key coral-associated finfish resource that are necessary to fully evaluate a remediation project.

Commerce, Dept/NOAA - Natl Weather Service $124,999
Evaluation of Flash Flood Prediction Models for Small Watersheds in Tropical Islands
Fares, Ali Department of Natural Resources and Environmental Management
The main goal of this proposed research is to evaluate the performance of a distributed model and a semi-distributed version of the Sacramento Soil Moister Accounting Model (SAC-SMA) for operational flash flood forecasting in the Hanalei Watershed, Kauai.

**DOD-Department of Defense**

Defense, Dept - Air Force $500,000
Correlation of Field and Laboratory Studies on the Corrosion of Various Alloys in a Multitude of Hawaii Micro-Climates
Hihara, Lloyd H Department of Mechanical Engineering
Conduct research in performance of metal alloys and corrosion sensors in various microclimates in Hawaii.

Defense, Dept - Air Force Ofc of Scientific Rsch $49,952
Developing Cultural Analysis and Sociological Network Theory for Understanding Virtual Communities and their Intrinsic Relationships on the Web
Chai, Sunki Department of Sociology
This project is aimed at the identification and characterization of virtual communities on the World Wide Web through the use of state-of-the-art social science cultural and social network theories.

Defense, Dept - Office of Naval Research $125,000
Miniaturized Retrodirective Arrays for a Nanosatellite Platform
Shiroma, Wayne Akira Hawaii Space Flight Laboratory
Design and prototype of a miniaturized self-steering antenna array for reconnaissance, remote-sensing, and communications-on-the-move applications.

Defense, Dept - Office of Naval Research $45,000
Initialization of Topical Cyclone Structures for Operational Applications
Li, Tim Department of Meteorology
To develop a tropical cyclone dynamic initialization scheme and apply the schemes in real-case forecast.

Defense, Dept - Office of Naval Research $62,673
Radar Remote Sensing of the Mesoscale Flow Through Straits of the Philippines Archipelago
Flament, Pierre J Department of Oceanography
Deployment of high frequency radars to measure surface currents in the straits of the Philippines as part of a large coordinated ONR experiment.
Gifts, Grants, and Contracts for April 2010

Research

DOI-Dept of Interior

Interior, Dept - U.S. Fish & Wildlife Service  
Pagan Island Snail Surveys  
Hadfield, Michael G  
Pacific Biosciences Research Center  
The Dept. of Defense has contracted the US Fish and Wildlife Service's Pacific Islands Fish and Wildlife Office to conduct surveys on the island of Pagan and throughout the Mariana archipelago. The species Partula gibba, a candidate for listing under the Federal Endangered Species Act, is the focus of this project.  
$31,728

Interior, Dept - U.S. Geological Survey  
Water Resources Research Institute Annual Base Program 2009  
Ray, Chittaranjan  
Water Resources Research Center  
Summary of 6 USGS WRRIP 2009 Proposals  
$92,335

Interior, Dept - U.S. Geological Survey  
Evaluating Policy Options to Reduce the Risk of New Stains of Ohia Rust in Hawaii  
Burnett, Kimberly  
Social Science Research Institute  
The purpose of this research is to quantify more accurately the costs and benefits of the sale of imported Myrtaeae in the Hawaiian Islands. We will also examine the relative advantages and disadvantages of implementing either a quarantine policy or full ban on imported Myrtaeae.  
$39,540

ED-Dept of Education

Education, Dept - FED  
Accessible Professional Development for Teaching Aquatic Science Inquiry  
Duncan, Kanesa  
Curriculum Research and Development Group  
We propose to develop and evaluate a professional development (PD) series of modules and online learning community support that use instructional inquiry - learning about science by engaging in the practice of science. The PD will be developed around aquatic science content and tested throughout the state of Hawaii.  
$493,490

Foreign

Ministry of Agriculture and Rural Development, Central Project Office - Vietnam  
Vietnam Flood Forecasting and Early Warning Capacity Development Pilot Project  
Gaines, James R  
Vice President for Research  
The Pacific Disaster Center will provide technical assistance to Vietnam's Ministry of Agriculture and Rural Development (MARD) for the Flood Forecasting and Early Warning Capacity Development Pilot project covering provinces in the central part of the country.  
$582,853

Hawaii- Business and Other

East West Center  
The Expansion of Rubber and its Implications for Water and Carbon Dynamics in Montane Mainland Southeast Asia  
Giambelluca, Thomas W  
Department of Geography  
Using field measurements and model simulations, we will investigate how the expansion of rubber cultivation in the Montane Mainland Southeast Asia alters carbon and water dynamics of the region.  
$128,851
Gifts, Grants, and Contracts for April 2010

Research

**Hawaii- Business and Other**

Hawaii Agriculture Research Center

Field Evaluation of Oil Seed Crops at Benchmark Locations
Uehara, Goro  
Department of Tropical Plant and Soil Sciences
The proposed work is to establish field trails of oil bearing trees at 5 locations on the island of Hawaii.

Sunfuels Hawaii LLC

NSF Center for Bioenergy Research & Development -- SunFuels Hawaii LLC Membership
Turn, Scott Q  
Hawaii Natural Energy Institute
SunFuels Hawaii LLC is paying for a membership in the University of Hawaii site of the NSF supported Center for Bioenergy Research & Development

TREX Enterprises Corp.

Development of High Performance Carbon-Carbon-SiC Hybrid Nanocomposites Employing Nanopolymer Infiltration Pyrolysis, Phase I 
Ghasemi Nejhad, Mehrdad N  
Department of Mechanical Engineering
We will develop high performance Carbon-Carbon-SiC Hybrid Nanocomposites employing Nanopolymer Infiltration Pyrolysis (NIP) and will test the samples under tension and bending as well as other physical and microscopic characterizations to determine the effects of our NIP processing

**Hawaii- Government Agencies**

City & County of Honolulu

Reconnaissance Surveys of Streams Impacting Maunalua Bay, Oahu
Kido, Michael H  
Pacific Biosciences Research Center
To conduct reconnaissance surveys of Maunalua Bay watersheds to evaluate the condition and stream/watershed restoration potential.

Commerce & Consumer Affairs, Dept - HI

Broadband Data and Development Program for the State of Hawaii
Gaines, James R  
Vice President for Research
The Pacific Disaster Center will provide expertise in GIS, data mapping, processing and hosting for broadband data development for the State of Hawaii

Health, Dept - HI

Establishing Water Quality Parameters to Address Wet Weather Flow Impacts, Pathogens, and NPDES Program Strategies in a Priority Urban Watershed 
Tamaru, Clyde S  
Department of Molecular Biosciences and Bioengineering
The purpose of this project is to conduct water quality research and extension activities that support Department of Health (“DOH”) efforts to establish Total Maximum Daily Loads (“TMDL”) for inland waters in the Kaelepuwai Watershed, Oahu.

Land & Natural Res, Dept - Div of Aquatic Resources-HI

Using Algal Tissue o15N Values and Nutrient Ratios (C:N:P) to Assess and Monitor Anthropogenic Nutrient Impacts within the Kahekili HFMA in West Maui
Dailer, Meghan L  
Department of Botany
This project aims to detect the dispersal of treated sewage effluent from the Lahaina Wastewater Reclamation Facility across the Kahekili Herbivore Fisheries Management Area in West Maui.
Gifts, Grants, and Contracts for April 2010

Research

Hawaii- Government Agencies

Land & Natural Res, Dept - Div of Aquatic Resources-HI
Task 5: Tracking Nutrient Sources in Northern Kaneohe Bay
Ruttenberg, Kathleen  C  Department of Oceanography
Study the nutrient levels in northern Kaneohe Bay.

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI
Detection and Control of Invasive Species on the Island of Kauai
Duffy, David  C  Department of Botany
Control and eradicate invasive species on Kauai, with an emphasis on early detection and rapid response.

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI
Invasive Species Committee ARRA Support
Duffy, David  C  Department of Botany
Conduct surveys and control of invasive plants statewide and collect data into a statewide geospatial database.

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI
Statewide Plant Conservation Program
Duffy, David  C  Department of Botany
Develop and coordinate integrated statewide plant conservation program across partner agencies.

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI
Kauai Lagoons Nene Translocation Project
Duffy, David  C  Department of Botany
Develop, implement, and evaluate translocation techniques for nene goose populations from sites where they are in conflict with humans to more suitable habitats.

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI
Forest Restoration of Mauna Kea
Duffy, David  C  Department of Botany
Restore native forest areas on Mauna Kea to mitigate the declining population of endangered native Palila, a finch-billed honeycreeper.

Land & Natural Res, Dept - HI
Integrated Pest Management Program for Mauna Kea Dry Forest (ARRA)
Duffy, David  C  Department of Botany
Restore native forest areas on Mauna Kea to mitigate the declining population of endangered native Palili, a finch-billed honeycreeper.

Land & Natural Res, Dept - HI
GIS Research on State Forest Lands
Duffy, David  C  Department of Botany
Work cooperatively with DLNR on GIS mapping of forest fire response and development of a state forestry plan.

$64,031
$88,676
$703,261
$48,992
$12,000
$56,625
$291,000
$26,750
Gifts, Grants, and Contracts for April 2010

Research

Hawaii- Government Agencies

Land & Natural Res, Dept - HI

Ko‘olau Mountains Watershed Partnership Management Plan Implementation, FY 2010
Morden, Clifford W
Department of Botany
Research and manage watershed conservation on the Koolau Mountains on Oahu.

Land & Natural Res, Dept - HI

Lanaihale Forest and Watershed Project
Duffy, David C
Department of Botany
Conduct integrated pest management strategy on Lanaihale to protect native habitats from invasive plants.

Land & Natural Res, Dept - HI

Natural Area Reserves Management
Duffy, David C
Department of Botany
Research and manage endangered species in their protected habitats in the state's natural area reserves with a focus on the native ecosystem and species diversity.

Land & Natural Res, Dept - HI

Waianae Mountains Planning and Management
Morden, Clifford W
Department of Botany
Coordinate the creation of a Waianae watershed partnership, including the establishment of a partnership of landowners and development of a conservation plan.

Land & Natural Res, Dept - HI

Hawaiian Ecosystems: Management and Education: Koolau Watershed
Duffy, David C
Department of Botany
Monitor game check stations and run transects in native forest areas to determine impacts of pigs and axis deer in the Koolau watershed in Maui.

Land & Natural Res, Dept - HI

Invasive Plant Control in KMWP Priority Areas Along State/Private Forestry Interfaces (ARRA)
Morden, Clifford W
Department of Botany
Research and manage watershed conservation in the Koolau watershed on Oahu.

Land & Natural Res, Dept - HI

Natural Area Reserves Management Enhancement:Oahu
Duffy, David C
Department of Botany
Provide research support to the Natural Area Reserves System Commission to recommend designation of new lands into the Natural Area Reserves System.

Land & Natural Res, Dept - HI

Kauai Endangered Seabird Conservation Research and Management
Duffy, David C
Department of Botany
Conduct research on the populations of endangered Kauai seabirds and make recommendations for conservation strategies.
Research

Hawaii- Government Agencies

Land & Natural Res, Dept - HI

Detection and Control of Invasive Species on the Island of Hawaii
Duffy, David C Department of Botany
Detect new potentially invasive plants and plant populations, continue on-going efforts to contain known invasive plant species, and expand early detection surveys on the Big Island.

Hawaii- Non-Profit Organizations

Oceanic Institute - Ctr for Tropical & Subtropical Aquaculture (CTSA)

Diversifying Freshwater Aquaculture Products for Hawaii: Two Crossover Species, The Red and Black Pacu (Piratactus brachypomus and Colossoma macropomu)
Howerton, Robert D Sea Grant College Program
Investigate feasibility of culturing in Hawaii two new freshwater species that have value both in the ornamental and

Tri-Isle Resource Conservation & Dev Council

Watershed Protection in East Maui
Morden, Clifford W Department of Botany
Conduct adaptive resource management of the East Maui Watershed.

University of Hawaii Foundation

Pineapple Research
Paull, Robert E Department of Tropical Plant and Soil Sciences
To carry out applied research to address Hawaii's Pineapple Industry needs.

University of Hawaii Foundation

HMSA Endowed Chair for Health Care Services and Quality Research
Tseng, Chien-Wen John A. Burns School of Medicine
To conduct health services research to improve quality of care for the people of Hawaii and nationally.

University of Hawaii Foundation

Respiratory Health
Tam, Elizabeth K Department of Medicine
Teach General Internal Medicine Ambulatory and Inpatient care to medical students and medical residents, assist in clinical research, provide consultative care in inflammatory/immunologic diseases; develop/evaluate training programs.

University of Hawaii Foundation

Effects of Common Germ-Line Genetic Variation on Ovarian Cancer Survival
Goodman, Marc T Cancer Research Center
This study will collect additional information related to the treatment and disease progression of women with invasive ovarian cancer in the Hawaii Ovarian Cancer Study to investigate genetic markers associated with chemoresponse and contribute to the understanding of ovarian tumor chemoresistance.
**Gifts, Grants, and Contracts for April 2010**

**Research**

**Mainland- Business and Other**

Jet Propulsion Lab  
Assessing the Quality of Aquarius Sea Surface Salinity Measurements Using an Ocean State Estimation System  
Qu, Tangdong  
Department of Oceanography  
Analyze Aquarius satellite sea surface salinity measurements using an ocean state estimation system to assess the quality of data and to prepare for the observations' scientific exploitation.

PPD Development, LP  
A Phase 2b/3, Randomized, Double Blind, Close confirming Study of the Safety, Efficacy and Tolerability of Apricitabine Versus Lamivudine in Treatment  
Shikuma, Cecilia M  
Department of Medicine  
To test experimental HIV drug therapy on human subjects.

Phenomix Corporation  
A Phase 3, Randomized, Double-Blind, Placebo-Controlled, Multi-Center Study to Evaluate Safety and Efficacy of PHX1149T  
Arakaki, Richard F  
Department of Medicine  
This randomized, double-blind, placebo-controlled study is intended to evaluate safety and efficacy of the drug PHX1149T as a monotherapy in subjects with Type 2 diabetes.

Real-Time Genomics, LLC  
Development of Rapid Diagnostic Microarray Test for Tuberculosis  
Douglas, James T  
Department of Microbiology  

TKC Global Solutions, LLC  
Assessment of Health Effects Associated with VOG Exposure, Hawaii Island  
Tam, Elizabeth K  
Department of Medicine  
Characterize susceptible-VOG populations in the HICLASS cohort, characterize exposure to VOG, Assess acute and long term impact on asthma exacerbations.

**Mainland- Health Organizations**

Pediatric Dengue Vaccine Initiative  
ELISA Based Assay for Detection of Neutralizing Antibodies in Polyclonal Dengue Antisera  
Wang, Wei-Kung  
Dept of Trop Med, Medical Microbiology and Pharmacology  
With the availability of human monoclonal antibodies derived from subjects following dengue virus infection, it is possible to identify epitope(s) of neutralizing antibodies. An ELISA based assay thus developed for detecting protective neutralizing antibodies in polyclonal dengue antisera is critical for dengue vaccines and evaluation.

**Mainland- Non-Profit Organizations**

Casey Family Programs  
Rapid Assessment Instrument Pilot Program 2010 SOW 1  
Tochiki, Laurie Ariel  
William Richardson School of Law  
Perform legal research including data collection from the Rapid Assessment Instrument Pilot Programs on Maui, Kauai, Hawaii, and Oahu to reduce the number of children in out-of-home placements.
Gifts, Grants, and Contracts for April 2010

Research

Mainland- Non-Profit Organizations

Monterey Bay Aquarium Foundation
Movement Patterns, Environmental Preferences and Husbandry of Sharks and Rays of Hawaii
Holland, Kim N Hawaii Institute of Marine Biology
Field work focused on electronic tracking of target species, exploratory fishing and establishing facilities to support collaborative work.

Seattle Institute for Biomedical and Clinical Research
Renewal of Diabetes Prevention Program Outcomes Study - Phase 2
Arakaki, Richard F Department of Medicine
Maintain outcome measures and retention of the Diabetes Prevention Program cohort in Hawaii. Intervention of lifestyle modification and metformin treatment are continued during the course of this proposal in people at risk and who have developed diabetes. In addition, more extensive outcome measures will be obtained in participants who have developed diabetes.

National Aeronautics and Space Administration

National Aeronautics & Space Administration
Origin, Thermal History, and Impact Record of Meteorites and their Parent Asteroids
Scott, Edward R D Hawaii Institute of Geophysics and Planetology
We propose to elucidate the origin of meteorite parent bodies and their impact and thermal histories through detailed mineralogical, chemical and isotopic studies and numerical simulations of accretion in the asteroid belt.

National Aeronautics & Space Administration
LRO Mission Participation: Mineral Mapping With Diviner and LOLA
Lucey, Paul Hawaii Institute of Geophysics and Planetology
The project funds the participation of Paul G. Lucey in the Lunar Reconnaissance Orbiter Mission to the Moon.

National Aeronautics & Space Administration
Sharing Discoveries in Cosmochemistry on the Internet
Taylor, G Jeffrey Hawaii Institute of Geophysics and Planetology
We proposed to continue to write and manage Planetary Research Discoveries, an online science magazine that highlights for the public discoveries made through research funded by the NASA Cosmochemistry Program.

National Aeronautics & Space Administration
APANL: InSAR and Thermal Analyses of Kuril-Kamchatka Volcanoes
Brooks, Benjamin A Hawaii Institute of Geophysics and Planetology
Relate remotely-sensed volcano deformation to eruptions.

National Aeronautics & Space Administration
High Performance Thermal Infrared Interferometer Spectrometer
Lucey, Paul Hawaii Institute of Geophysics and Planetology
This project will develop an infrared imaging system that enables mapping of minerals and other constituents on the surface of planets.
Gifts, Grants, and Contracts for April 2010

Research

**National Aeronautics and Space Administration**

National Aeronautics & Space Administration

Mineralogy, Petrology, and Isotope Composition of Chondrite Components
Krot, Alexander N  Hawaii Institute of Geophysics and Planetology
To confirm a genetic relationship between rare flat earth element (chondrules), we propose to analyze isotope compositions and trace element abundances in rare chondrules. Using measuring instruments such as the Cameca Ims-1280.

National Science Foundation

National Science Foundation

Radiation of the Vernonieae (Compositae) in Montane and Lowland Habitats in the Americas
Keeley, Sterling C  Department of Botany
To understand the relationships and biogeographical distribution of two genera in the tribe Vernonieae of the sunflower family (Compositae) from South America to North America using one Andean/montane genus, Critoniopsis, and a lowland savannah genus, Vernonthura to document climate-related pathways of dispersal.

National Science Foundation

Extending Abyssal Mixing Observations and Parameterizations
Luther, Douglas S  Department of Oceanography
Estimates of the vertical rate of mixing in the deep ocean will be made with specialized analysis techniques applied to the global WOCE hydrographic database. This information will then be used to test and refine generalized models of deep ocean mixing.

National Science Foundation

A Comparison of Aerosol Organic Carbon Measurements and Models in the Free Troposphere at Mauna Loa Observatory (MLO)
Huebert, Barry J  Department of Oceanography
This is an extension of our grant to sample aerosols nightly at the Mauna Loa Observatory. It will continue our two-decade chemical time series through 2010 and allow junior colleagues a chance to prepare a follow-on proposal.

National Science Foundation

Further Study of Dynamics of Low-Frequency Variability of the Extratropical Atmospheric Circulation
Jin, Feifei  Department of Meteorology
This new project proposes to continue our study to further investigate the internal mechanisms for the formation of atmospheric circulation anomalies beyond month-to-seasonal time scales, and their excitation mechanisms.

National Science Foundation

GPS Observations in Chile of Co-seismic and Post-seismic Deformation Associated with the 27 Feb, 2010 Mw 8.8 Maule, Chile Earthquake
Brooks, Benjamin A  Hawaii Institute of Geophysics and Planetology
Installing 20 GPS stations in Chile to collection data of ground movement since the Chile earthquake.

National Science Foundation

Collaborative Research: Geodetic Constraints on the Tectonic Processes Operating at the East Flank of the Central Andean Plateau
Brooks, Benjamin A  Hawaii Institute of Geophysics and Planetology
Understanding earth's various crustal plate movements in the Andean and Tibetan Plateaus in Bolovia and North Western Argentina.
Gifts, Grants, and Contracts for April 2010

Research

National Science Foundation

National Science Foundation $16,000
Retrodirective Antenna Arrays for Secure Data Transmission in Covert Terrestrial and Nanosatellite Sensor Networks (17U07UHShiro)
Shiroma, Wayne Akira Department of Electrical Engineering
Develop novel antennas and infrasound techniques for intelligence-gathering scenarios.

National Science Foundation $496,006
Microhabitat Selection and Morphological Constraint in the Insect Visual System
Butler, Marguerite Department of Zoology
Insects have simple visual systems yet function in complex, dark habitat. We will study how they function, whether they have modify behavior or morphology to see in their habitats.

National Science Foundation $101,518
Collaborative Research: Larva-Environment Interactions: How Settlement of Marine Larvae Depends on their Responses to Varying Water Flow and Surfaces
Hadfield, Michael G Pacific Biosciences Research Center
This project will work towards deepening the understanding of the mechanisms (behavioral, structural and developmental) employed by larvae of marine invertebrate animals. We anticipate significant advancement in understanding how minute larvae succeed in finding small, scattered and specific sites in turbulently flowing

National Science Foundation $30,000
Functional Approaches to the Origin of the Bilaterally Symmetrical Body Plan in Animal Development
Martindale, Mark Q. Pacific Biosciences Research Center
To document anatomical features of bilateral symmetry in the nervous system of "simple" animals (sea anemones) and to investigate whether the molecular basis for bilaterality is the same in this group as it is in "higher" animals.

National Science Foundation $135,356
NSF Visitor and Observing Support for the NASA Infrared Telescope Facility
Tokunaga, Alan Institute for Astronomy
Funding is requested to cover the NSF portion of observing support at the NASA Infrared Telescope Facility.

National Science Foundation $139,000
SHINE: Separating the Dynamic and Quiescent Corona: A New Tool for the Detection and Analysis of Coronal Mass Ejections (CMEs)
Morgan, Huw Institute for Astronomy
A new technique has been developed to isolate Coronal Mass Ejection (CME) signal in coronagraph images, resulting in a pair of images for each observation-an image of the quiescent large-scale coronal structure devoid of CMEs, and another image containing CMEs and all other small-scale dynamic events.

US Colleges and Universities

California Davis, University of $141,680
Biological-based Postharvest Quality Maintenance and Disease Control for Mango and Papaya
Paull, Robert E Department of Tropical Plant and Soil Sciences
The proposal aims is to develop and evaluate biological-based, nontoxic, environmentally suitable approach for postharvest disease control. The output from this project would provide a postharvest disease control approach as an alternative to fungicide in conventional production for organic papaya production.
# Gifts, Grants, and Contracts for April 2010

## Research

### US Colleges and Universities

<table>
<thead>
<tr>
<th>Institution</th>
<th>Contract/Project</th>
<th>PI/PO</th>
<th>Department/Center</th>
<th>Amount</th>
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<tbody>
<tr>
<td>California San Diego, University of</td>
<td>PILOT: Coastal Run-up and Fringing Reefs</td>
<td>Merrifield, Mark A</td>
<td>Department of Oceanography</td>
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<td>California Santa Cruz, University of</td>
<td>The Roms las Data Assimilation and Prediction System: Quantifying Uncertainty</td>
<td>Powell, Brian</td>
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<td>Central Florida, University of</td>
<td>SEPPCoN, A Survey of the Ensemble Physical Properties of Cometary Nuclei</td>
<td>Meech, Karen J</td>
<td>Institute for Astronomy</td>
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<td>Illinois, University of</td>
<td>Protecting Drinking Water by Reducing Uncertainties Associated with the Geologic</td>
<td>Ray, Chittaranjan</td>
<td>Water Resources Research Center</td>
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<td>Carbon Sequestration in Deep Saline Aquifers</td>
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<td>Johns Hopkins University</td>
<td>AopE Expression in the CSF of Patients with HIV</td>
<td>Andres, Maria-Louisa</td>
<td>Pacific Biosciences Research Center</td>
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<td>Stanford University</td>
<td>Institute for Astronomy Support for the SDO/HMI Investigation</td>
<td>Kuhn, Jeffrey R</td>
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<td>Utah State University</td>
<td>Enhancing Phyto-nutrient Content, Yield and Quality of Vegetables with Compost</td>
<td>Radovich, Theodore J</td>
<td>Department of Tropical Plant and Soil</td>
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<td>Tea in the Tropics</td>
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Gifts, Grants, and Contracts for April 2010

Non-Research

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Natl Inst of Health (NIH) $52,154

Origins of Neuronal Patterning in Animal Development - NRSA Fellow M. Layden
Martindale, Mark Q. Pacific Biosciences Research Center
The work will be aimed at understanding the development of the nervous system including the brain, spinal cord and sensory systems. Because many neurological disorders result from developmental defects, by understanding neural development knowledge gained can be used to develop treatments for neurological disorders.

Health & Human Svc, Dept - Natl Inst of Health (NIH) $30,000

Community-Based Capacity Building: Academic-Community Partnerships Using Participatory Action Research to Bridge Across the USAPI
Qureshi, Kristine School of Nursing and Dental Hygiene
The UH SONDH will implement a project with the overall aim of developing capacity for community based participatory research in the USAPI. The project work will be accomplished through training program and meetings to be conducted in the USAPI jurisdictions and culminate in a grant proposal.

DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) $85,350

"WATER" Program - Waikiki Aquarium Tidal Exploration and Research Program
Pelleteri, Sara Waikiki Aquarium
Program will establish an outreach, field program conducted by the Waikiki Aquarium for students in the 4th through 8th grades. Grade-appropriate activities will concentrate on either watershed hydrology and sediment transport, or native vs. non-native species ecology. Students will collect, record and analyze their data.

DOD-Department of Defense

Defense, Dept - Natl Security Agency $97,155

2010 STARTALK Chinese Language Teacher Training Institute
Ning, Cynthia Y Center for Chinese Studies
The 2010 STARTALK Chinese Language Teacher Training Institute will train 20 pre- and in-service teachers of Chinese to be immersed in task-based and learner-centered theory through live and videotaped lectures, demonstration and experiential classes and daily feedback sessions. It will be conducted concurrently with the 2010 STARTALK Chinese Immersion Sports Camp.

Defense, Dept - Natl Security Agency $100,000

2010 STARTALK Chinese Language Immersion Sports Camp
Ning, Cynthia Y Center for Chinese Studies
The 2010 STARTALK Chinese Immersion Sports Camp will provide students between the ages of 12 and 17 an integrated language program through task-based classroom instruction, culturally appropriate sports classes conducted in the target language, and experiential activities in the media lab.

Defense, Dept - Naval Research Lab $218,500

On the Foraging Behavior of Beaked Whales and Other Deep Diving Odontocetes
Au, Whitlow W L Hawaii Institute of Marine Biology
Construct a profiler to investigate the prey field of beaked whales and other deep diving odontocetes.
Gifts, Grants, and Contracts for April 2010

Non-Research

DOI-Dept of Interior

<table>
<thead>
<tr>
<th>Program</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interior, Dept - Bureau of Land Management</td>
<td>$1,000</td>
</tr>
<tr>
<td>CESU Planning Support, Hawaii-Pacific Islands CESU</td>
<td></td>
</tr>
<tr>
<td>Duffy, David C</td>
<td></td>
</tr>
<tr>
<td>Department of Botany</td>
<td></td>
</tr>
<tr>
<td>Provide support to the coordination of the Hawaii-Pacific Islands CESU</td>
<td></td>
</tr>
<tr>
<td>Interior, Dept - National Park Service</td>
<td>$20,000</td>
</tr>
<tr>
<td>Chinese Visitation at the Arizona Memorial</td>
<td></td>
</tr>
<tr>
<td>White, Geoffrey M</td>
<td></td>
</tr>
<tr>
<td>Department of Anthropology</td>
<td></td>
</tr>
<tr>
<td>Open-ended interviews will be used to explore the attitudes and perceptions of Chinese visitors to the USS Arizona Memorial at Pearl Harbor.</td>
<td></td>
</tr>
</tbody>
</table>

Dept of State

<table>
<thead>
<tr>
<th>Program</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>State, Dept - National Security Language Initiative for Youth</td>
<td>$175,080</td>
</tr>
<tr>
<td>University of Hawaii Overseas Pre-College Summer Program</td>
<td></td>
</tr>
<tr>
<td>Sohn, Ho-Min</td>
<td></td>
</tr>
<tr>
<td>Department of East Asian Languages and Literatures</td>
<td></td>
</tr>
<tr>
<td>Offer an overseas component to our existing Pre-College Summer Program with language training, cultural enhancement, and community service; open to high school students and recent graduates, ages 15 to 18.</td>
<td></td>
</tr>
</tbody>
</table>

ED-Dept of Education

<table>
<thead>
<tr>
<th>Program</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education, Dept - FED</td>
<td>$59,000</td>
</tr>
<tr>
<td>Advanced Study of Khmer (ASK) - Summer Abroad Intensive Program in Cambodia</td>
<td></td>
</tr>
<tr>
<td>Sak-Humphry, Chhany</td>
<td></td>
</tr>
<tr>
<td>Department of Indo-Pacific Languages and Literatures</td>
<td></td>
</tr>
<tr>
<td>The intensive and immersion advanced study of Khmer language program in Cambodia.</td>
<td></td>
</tr>
<tr>
<td>Education, Dept - FED</td>
<td>$84,500</td>
</tr>
<tr>
<td>Advanced Filipino Abroad Program</td>
<td></td>
</tr>
<tr>
<td>Mabanglo, Ruth S</td>
<td></td>
</tr>
<tr>
<td>Department of Indo-Pacific Languages and Literatures</td>
<td></td>
</tr>
<tr>
<td>Eight week advanced Filipino language immersion project in De La Salle University-Dasmarias campus, set in a rural town in Cavite Province, Philippines. This is funded by Fulbright-Hays Groups Projects Abroad of the United States Department of Education.</td>
<td></td>
</tr>
<tr>
<td>Education, Dept - FED</td>
<td>$85,470</td>
</tr>
<tr>
<td>Advanced Samoan Language Abroad</td>
<td></td>
</tr>
<tr>
<td>Mayer, John F</td>
<td></td>
</tr>
<tr>
<td>Department of Indo-Pacific Languages and Literatures</td>
<td></td>
</tr>
<tr>
<td>Twelve-week intensive language immersion program in Samoa for ten advanced students. The program provides an opportunity to improve Samoan language proficiency, conduct independent research, and gain skills in culturally appropriate research methodology protocols.</td>
<td></td>
</tr>
</tbody>
</table>

Foreign

<table>
<thead>
<tr>
<th>Program</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>American Samoa, Govt of</td>
<td>$300,000</td>
</tr>
<tr>
<td>American Samoa Economic Disaster Recovery Plan</td>
<td></td>
</tr>
<tr>
<td>Morton, John F</td>
<td></td>
</tr>
<tr>
<td>Vice President for Community Colleges</td>
<td></td>
</tr>
<tr>
<td>Design, install and train staff in the use of a reporting system that can provide timely reports to the Governor and the GAR on the current status of all Federally funded emergency response grants.</td>
<td></td>
</tr>
</tbody>
</table>
Gifts, Grants, and Contracts for April 2010

Non-Research

Foreign

American Samoa, Govt of
American Samoa Interdisciplinary Studies
Stodden, Robert A
Center on Disability Studies
Development and delivery of University of Hawaii coursework specifically designed for High School Special Education teachers to obtain their degree in Interdisciplinary Studies.

Ryukyus, University of
University of the Ryukyus School of Law Study Tour
Kimura, Spencer
William Richardson School of Law
Conduct legal training and education courses for the University of the Ryukyus graduate students and faculty.

Hawaii- Business and Other

Kamehameha Schools
Archaeological Collections Inventory
Mills, Peter
Social Sciences-UHH - Division Office
Provide archaeological data collection services to Kamehameha Schools

Maui County Community Television, Inc
MCC-TV Educational Access Television
Sakamoto, Clyde M
Chancellor, University of Hawaii Maui College
Manage, coordinate, and operate MCC-TV Educational Access Television. This channel is one of the designated providers of educational television programming in Maui County.

Hawaii- Dept of Education

Education, Dept - HI
Provision of Professional Development in Mathematics
Olson, Melfried
Curriculum Research and Development Group
To provide professional development to utilize standards-based curriculum, instruction and assessment, and to increase teacher and student proficiency in mathematics.

Hawaii- Government Agencies

County of Kauai
County of Kauai Coastal Processes Extension Project
Okimoto, Darren K
Sea Grant College Program
To provide technical and outreach support related to preservation of coastal resources, mitigation of coastal hazards, and enhancing shoreline processes education in the County of Kauai.

Defense, Dept - Civil Defense-HI
Pacific Emergency Management, Preparedness and Response Information Network and Training Services
Sakaguchi, Ann M
Department of Anthropology
Develop training programs and conferences and purchase training equipment.
Gifts, Grants, and Contracts for April 2010

Non-Research

Hawaii- Government Agencies

Hawaii Tourism Authority $25,000

He Paepae Na’auao Project - The B. Krauss Hawaiian Ethnobotanical Garden A Foundation of Learning
Dunn, Liloa Lyon Aboretum
To build a traditional Hawaiian house and to host workshops related to the construction of the house.

Hawaii Tourism Authority $30,000

Building Community Capacity Through Education and Outreach to Address Land-Based Pollution in Maunalua Bay
Wanger, Jolie School of Ocean and Earth Science and Technology
UH Sea Grant is requesting support from Hawaii Tourism Authority to realize the initiation of a campaign with its partner, Malama Maunalua, to implement community and residential best management practices for the reduction of non point source pollution entering Maunalua Bay on Oahu.

Hawaii Tourism Authority $25,000

Cultural Bridge Training Program
Uyeno, Russell K School of Travel Industry Management
This proposal focuses on developing and implementing a pilot cultural training program for Chinese & Korean tour operators and associated businesses. UH TIM will manage the project and sub-contract a portion of the curriculum development to Native Hawaiian Hospitality Association (NaHHA).

Health, Dept - HI $75,000

Certified Nurse Aid (CNA) Training and Support Services for Employment Program
Umehira, Ronny T Chancellor, Leeward Community College
To deliver Certified Nurse Aid Training to 30 students including support services.

Health, Dept - HI $85,000

Department of Health - Certified Nurse's Aide
Howard, M Bernadette Chancellor, Windward Community College
Provide Certified Nurse Aide training to qualified applicants.

Health, Dept - HI $22,519

Pediatric Obesity Prevention - A Collaborative Effort Between HICORE and DOH HHI
Okihiro, May Department of Pediatrics
Program Goal: to change healthcare practice through institutional policy change so pediatric practices include reducing risk for childhood obesity. Objective: to increase healthcare participation in reducing childhood obesity by targeting six community health centers, their providers, training 40 primary care pediatrics and office staff.

Health, Dept - HI $58,000

State of Hawaii Department of Health Family Health Services Division Maternal & Child Health Grant Women's Health Section-Family Planning Program
Cohen, Denise Chancellor, University of Hawaii Maui College
To provide subsidized family planning services for women and men, as well as additional training for staff with regards to family planning.
Gifts, Grants, and Contracts for April 2010

Non-Research

Hawaii- Government Agencies

Human Services, Dept - HI  $132,000
Memorandum of Agreement between Dept. of Human Services & University of Hawaii, Maui Community College, to Provide Oral Health Services at MOHC.
Johnson, Nancy  K  Chancellor, University of Hawaii Maui College
To ensure that students are provided a place where they may obtain clinical training. And both DHS & MCC understand & acknowledge that student participation makes it possible to provide oral health services, through Maui Oral Health Center, to adult family members eligible for TANF and TAONF.

Human Services, Dept - HI  $1,298,447
Hawaii Child Welfare Education Collaboration Project
Godinet, Meripa  T.  School of Social Work
To provide competency based education and training to Master's Social Work students in the area of public child welfare, on Oahu as well as on the neighbor islands through distance education.

Human Services, Dept - HI  $458,424
Title IV-E Training Academy
Godinet, Meripa  T.  School of Social Work
To train public child welfare workers and administrators to meet key competency areas in the public child welfare system. In addition, the project will also provide evaluation and assessment on trainings provided by the Title IV-E Training Academy.

Land & Natural Res, Dept - HI  $160,000
Wildland Fire Mitigation through Fuel Reduction on the Island of Kauai
Duffy, David  C  Department of Botany
Protect Native Forest Habitat and conservation research sites from potential wildfires through firebreaks and removal of wildland fire fuels.

Land & Natural Res, Dept - HI  $220,610
Wao Kele o Puna Forest Reserve Coordinator
Duffy, David  C  Department of Botany
Coordinate the conservation management and protection of the newly established Wao Kele o Puna Forest Reserve.

Land & Natural Res, Dept - HI  $45,000
Volcano Rare Plant Facility (09)
Kaneshiro, Kenneth  Y  Pacific Biosciences Research Center
Propagation and maintenance of endangered Hawaiian plant species at the Volcano Rare Plant Propagation Facility.

Land & Natural Res, Dept - HI  $3,000
Whale Internship, 2010
Hunter, Cynthia  L.  Waikiki Aquarium
Provide intern to assist with whale counts.

Land & Natural Res, Dept - HI  $38,202
State Park Resource Management Rangers
Duffy, David  C  Department of Botany
Implement natural and cultural resource protection projects, management activities to reduce threats to resources, and implement activities to encourage community involvement in state parks on Kauai.
Gifts, Grants, and Contracts for April 2010

Non-Research

Hawaii- Government Agencies

Transportation, Dept - HI
SAFETEA-LU 2010 $120,000
Umehira, Ronny T Chancellor, Leeward Community College
Replace aging training motorcycles, classroom training materials and training aids with new, more efficient equipment to ensure that the motorcycle safety training course remains in compliance with HAR 19-123 standards. Develop and implement an automated test scoring and metric collection program.

Hawaii- Non-Profit Organizations

General Contractors Association Education Foundation $126,174
Construction Management Program
Llewellyn, Clark School of Architecture
To support the bachelor's degree in the interdisciplinary arts with emphasis in construction management program at the school of architecture.

Hawaii Farm Bureau Federation $86,282
On Farm Food Safety One-on-One Education Program for Commercial Produce Farmers in Hawaii (Subcontract between Hawaii Farm Bureau Federation and UH)
Hollyer, James R Department of Plant and Environmental Protection Sciences
Provide one-on-one training to 50 farmers to prepare them for a Food Safety Certification Audit by the Hawaii Department of Agriculture, and to support HFBF in its efforts to encourage farmers to become certified, and prepare educational materials for certification process.

University of Hawaii Foundation $5,000
Hawaiian Music Archive
Geary, Gregg S Library
The project account is being used to process payroll for a Library hire who will reformat and transfer 78, 45 and 33rpm phonodiscs and upload to a demonstration web site.

University of Hawaii Foundation $64,000
Confucius Institute Support
Lau, Frederick C. Center for Chinese Studies
Provides salaries and fringe benefits for Confucius Institute support personnel, and misc. office expenses and express mail payments for CI office operations. Also usable to pay travel and housing costs in conjunction with Confucius Institute programs and activities.

University of Hawaii Foundation $4,825
Support of a Marine Science Learning Center at Moku o Lo'e
Rivera, Malia Ana J Hawaii Institute of Marine Biology
Support to develop a marine science learning center at Moku o Lo'e (Hawaii Institute of Marine Biology).

University of Hawaii Foundation $40,356
Community-Based Coral Reef Awareness & Management in West Hawaii
Grau, E Gordon Sea Grant College Program
In partnership with the Harold K.L. Castle Foundation & the Managing Better Together cadre, UH Sea Grant will advance coastal & ocean literacy in West Hawaii by providing formal & informal learning opportunities at schools, community meetings & events, public presentations, & other educational forums on Hawaii Island.
## Gifts, Grants, and Contracts for April 2010

### Non-Research

#### Hawaii- Non-Profit Organizations

<table>
<thead>
<tr>
<th>Organization</th>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Hawaii Foundation</td>
<td>$2,500</td>
<td>Confucius Institute Support</td>
</tr>
<tr>
<td>Lau, Frederick C.</td>
<td></td>
<td>Center for Chinese Studies</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Provides salaries and fringe benefits for Confucius Institute support personnel, and misc. office expenses and express mail payments for CI office operations. Also usable to pay travel and housing costs in conjunction with Confucius Institute programs and activities.</td>
</tr>
<tr>
<td>University of Hawaii Foundation</td>
<td>$14,500</td>
<td>Arts &amp; Humanities Faculty Support</td>
</tr>
<tr>
<td>Lee, Hye-Ryeon</td>
<td></td>
<td>College of Arts and Humanities</td>
</tr>
<tr>
<td></td>
<td></td>
<td>To support the salaries and fringe benefits costs of faculty in the College of Arts and Humanities.</td>
</tr>
<tr>
<td>University of Hawaii Foundation</td>
<td>$6,000</td>
<td>KYA/Environmental Research &amp; Design Laboratory</td>
</tr>
<tr>
<td>Meder, Stephen E</td>
<td></td>
<td>School of Architecture</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The funds will be used to support the Environmental Research &amp; Design Lab at the School of Architecture. Expenses will primarily be for the support of a research assistant.</td>
</tr>
<tr>
<td>University of Hawaii Foundation</td>
<td>$5,000</td>
<td>CubeSat Project</td>
</tr>
<tr>
<td>Shiroma, Wayne Akira</td>
<td></td>
<td>College of Engineering</td>
</tr>
<tr>
<td></td>
<td></td>
<td>To fund launch and launch support of a student-built small satellite.</td>
</tr>
</tbody>
</table>

#### Mainland- Business and Other

<table>
<thead>
<tr>
<th>Organization</th>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lockheed Martin Corporation Space Systems</td>
<td>$620,999</td>
<td>Task Order (TO) 0090CLIN-005DARPA HTV OTTR/QUIK Mission Support</td>
</tr>
<tr>
<td>Shor, Alexander N</td>
<td></td>
<td>School of Ocean and Earth Science and Technology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The University of Hawaii proposes to provide R/V Ka`Imikai-0-Kanaloa, a research vessel owned and operated by the University, in support of the launch Mission DARPA HTV2-A in the Pacific Ocean.</td>
</tr>
<tr>
<td>Thirty Meter Telescope Observatory Corporation</td>
<td>$34,500</td>
<td>Hawaii Island Akamai Program</td>
</tr>
<tr>
<td>Hunter, Lisa</td>
<td></td>
<td>Institute for Astronomy</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Provide housing, meals, transportation and supplies for 12 students to attend the Akamai Internship program on Hawaii island.</td>
</tr>
</tbody>
</table>

#### Mainland- Non-Profit Organizations

<table>
<thead>
<tr>
<th>Organization</th>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Association of Universities for Rsch in Astronomy, Inc (AURA)</td>
<td>$200,000</td>
<td>Conservation District Use Permit for the Proposed Advanced Technology Solar Telescope</td>
</tr>
<tr>
<td>Maberry, Michael T</td>
<td></td>
<td>Institute for Astronomy</td>
</tr>
<tr>
<td></td>
<td></td>
<td>All funding provided by the Association of Universities for Research in Astronomy, on behalf of the National Solar Observations shall be used to provide legal representation for the University of Hawaii throughout the Conservation District Use Permitting process and any subsequent legal challenges.</td>
</tr>
</tbody>
</table>
Gifts, Grants, and Contracts for April 2010

Non-Research

Mainland- Non-Profit Organizations

Education Trust, The
Access to Success Leading Indicator Project
Johnsrud, Linda K  $10,000
Vice President for Academic Planning and Policy
Support data analyzes, report preparation and presentation that will be carried out b UH System for the Leading indicator project between November 15, 2009 and April 30, 2010. This is a fixed price contract

Orthopaedic Research & Education Foundation
OREF Clinician Development Program - Residency Enhancement Grant
Atkinson, Robert E  $12,500
Department of Surgery
To provide funds for expenses associated with guest speakers for resident research day programs, visiting professorships, or similar lectureship programs for residents.

National Aeronautics and Space Administration

National Aeronautics & Space Administration
Tenth Planetary Volcanology Workshop: Analogs to Martian Volcanic Features in Satellite and Rover Images
Rowland, Scott K  $77,000
Department of Geology and Geophysics
Organize and run a workshop for NASA-funded Graduate students and Post-Docs to learn field volcanology. the workshop will occur on Hawaii Island.

National Science Foundation

National Science Foundation
An Experimental Test of the Impacts of Rising Temperature on Carbon Input, Allocation, and Loss in Model Forests
Litton, Creighton  $15,000
Department of Natural Resources and Environmental Management
This supplemental request is to support two undergraduate students from the University of Hawaii at Manoa for summer REU internships. Both students will participate in our ongoing, NSF-funded research for a period of 10 weeks (May 17, 2010 - July 31, 2010).

US Colleges and Universities

Cornell University
Advanced Study of Khmer (ASK)-Summer Abroad Intensive Program in Program
Sak-Humphry, Chhany  $1,500
Department of Indo-Pacific Languages and Literatures
The intensive and immersion advanced study of Khmer language program in Cambodia.

Cornell University
Advanced Study of Khmer (ASK)-Summer Abroad Intensive Program in Program
Sak-Humphry, Chhany  $1,500
Department of Indo-Pacific Languages and Literatures
The intensive and immersion advanced study of Khmer language program in Cambodia.

Northern Illinois University
Building Capacity for the Digitization, Dissemination, and Preservation of Southeast Asian Resources
Mochida, Paula T  $19,500
Library
### Non-Research

#### US Colleges and Universities

<table>
<thead>
<tr>
<th>Institution</th>
<th>Amount</th>
</tr>
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<tbody>
<tr>
<td>Northern Illinois University</td>
<td>$33,000</td>
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<tr>
<td><strong>Building Capacity for the Digitization, Dissemination, and Preservation of Southeast Asian Resources</strong></td>
<td></td>
</tr>
<tr>
<td>Mochida, Paula T</td>
<td>Library</td>
</tr>
<tr>
<td>Northern Illinois University</td>
<td>$18,000</td>
</tr>
<tr>
<td><strong>Building Capacity for the Digitization, Dissemination, and Preservation of Southeast Asian Resources</strong></td>
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</tr>
<tr>
<td>Mochida, Paula T</td>
<td>Library</td>
</tr>
<tr>
<td>Northern Illinois University</td>
<td>$20,500</td>
</tr>
<tr>
<td><strong>Building Capacity for the Digitization, Dissemination, and Preservation of Southeast Asian Resources</strong></td>
<td></td>
</tr>
<tr>
<td>Mochida, Paula T</td>
<td>Library</td>
</tr>
</tbody>
</table>

| Subcount:  | 59     | Subtotal:  | $5,945,116 |
| Count:     | 145    | Total:     | $20,141,734 |
Funds Received from UH Foundation for 04/01/2010 - 04/30/2010

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation

"Hawaiian Music Archive"
Geary, Gregg S Library
The project account is being used to process payroll for a Library hire who will reformat and transfer 78, 45 and 33rpm

University of Hawaii Foundation

"Community-Based Coral Reef Awareness & Management in West Hawaii"
Grau, E Gordon Sea Grant College Program
In partnership with the Harold K.L. Castle Foundation & the Managing Better Together cadre, UH Sea Grant will advance coastal & ocean literacy in West Hawaii by providing formal & informal learning opportunities at schools.

University of Hawaii Foundation

"Confucius Institute Support"
Lau, Frederick C. Center for Chinese Studies
Provides salaries and fringe benefits for Confucius Institute support personnel, and misc. office expenses and express mail payments for CI office operations. Also usable to pay travel and housing costs in conjunction with Confucius

University of Hawaii Foundation

"Confucius Institute Support"
Lau, Frederick C. Center for Chinese Studies
Provides salaries and fringe benefits for Confucius Institute support personnel, and misc. office expenses and express mail payments for CI office operations. Also usable to pay travel and housing costs in conjunction with Confucius

University of Hawaii Foundation

"Arts & Humanities Faculty Support"
Lee, Hye-Ryeon College of Arts and Humanities
To support the salaries and fringe benefits costs of faculty in the College of Arts and Humanities.

University of Hawaii Foundation

"KYA/Environmental Research & Design Laboratory"
Meder, Stephen E School of Architecture
The funds will be used to support the Environmental Research & Design Lab at the School of Architecture. Expenses will primarily be for the support of a research assistant.

University of Hawaii Foundation

"Support of a Marine Science Learning Center at Moku o Lo'e"
Rivera, Malia Ana J Hawaii Institute of Marine Biology
Support to develop a marine science learning center at Moku o Lo'e (Hawaii Institute of Marine Biology).

University of Hawaii Foundation

"CubeSat Project"
Shiroma, Wayne Akira College of Engineering
To fund launch and launch support of a student-built small satellite.
Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation $28,654
"Effects of Common Germ-Line Genetic Variation on Ovarian Cancer Survival"
Goodman, Marc  T  Cancer Research Center
This study will collect additional information related to the treatment and disease progression of women with invasive
ovarian cancer in the Hawaii Ovarian Cancer Study to investigate genetic markers associated with chemoresponse
and
University of Hawaii Foundation $7,500
"Pineapple Research"
Paull, Robert  E  Department of Tropical Plant and Soil Sciences
To carry out applied research to address Hawaii's Pineapple Industry needs.

University of Hawaii Foundation $57,000
"Respiratory Health"
Tam, Elizabeth  K  Department of Medicine
Teach General Internal Medicine Ambulatory and inpatient care to medical students and medical residents, assist in
clinical research, provide consultative care in inflammatory/immunologic diseases; develop/evaluate training

University of Hawaii Foundation $180,000
"HMSA Endowed Chair for Health Care Services and Quality Research"
Tseng, Chien-Wen John A. Burns School of Medicine
To conduct health services research to improve quality of care for the people of Hawaii and
nationally.

Count: 12  Total: $415,335
Extramural Research Awards  
for the Month of  
April 2010  
Distribution by Sponsors

<table>
<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHHS-Dept of Health and Human Services</td>
<td>8</td>
<td>$3,715,738</td>
<td>26.17%</td>
</tr>
<tr>
<td>DOC-Dept of Commerce</td>
<td>2</td>
<td>$159,326</td>
<td>1.12%</td>
</tr>
<tr>
<td>DOD-Department of Defense</td>
<td>5</td>
<td>$782,625</td>
<td>5.51%</td>
</tr>
<tr>
<td>DOI-Dept of Interior</td>
<td>3</td>
<td>$163,603</td>
<td>1.15%</td>
</tr>
<tr>
<td>ED-Dept of Education</td>
<td>1</td>
<td>$493,490</td>
<td>3.48%</td>
</tr>
<tr>
<td>Foreign</td>
<td>1</td>
<td>$582,853</td>
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<tr>
<td>Hawaii- Business and Other</td>
<td>4</td>
<td>$198,851</td>
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</tr>
<tr>
<td>Hawaii- Government Agencies</td>
<td>21</td>
<td>$3,842,106</td>
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</tr>
<tr>
<td>Hawaii- Non-Profit Organizations</td>
<td>6</td>
<td>$404,989</td>
<td>2.85%</td>
</tr>
<tr>
<td>Mainland- Business and Other</td>
<td>5</td>
<td>$57,639</td>
<td>0.41%</td>
</tr>
<tr>
<td>Mainland- Health Organizations</td>
<td>1</td>
<td>$94,916</td>
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<tr>
<td>Mainland- Non-Profit Organizations</td>
<td>3</td>
<td>$359,095</td>
<td>2.53%</td>
</tr>
<tr>
<td>National Aeronautics and Space Administration</td>
<td>6</td>
<td>$724,371</td>
<td>5.10%</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>12</td>
<td>$2,102,339</td>
<td>14.81%</td>
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<tr>
<td>US Colleges and Universities</td>
<td>8</td>
<td>$514,677</td>
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</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>86</strong></td>
<td><strong>$14,196,618</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>
## Extramural Non-Research Awards for the Month of April 2010 Distribution by Sponsors

<table>
<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHHS-Dept of Health and Human Services</td>
<td>2</td>
<td>$82,154</td>
<td>1.38%</td>
</tr>
<tr>
<td>DOC-Dept of Commerce</td>
<td>1</td>
<td>$85,350</td>
<td>1.44%</td>
</tr>
<tr>
<td>DOD-Department of Defense</td>
<td>3</td>
<td>$415,655</td>
<td>6.99%</td>
</tr>
<tr>
<td>DOI-Dept of Interior</td>
<td>2</td>
<td>$21,000</td>
<td>0.35%</td>
</tr>
<tr>
<td>Dept of State</td>
<td>1</td>
<td>$175,080</td>
<td>2.94%</td>
</tr>
<tr>
<td>ED-Dept of Education</td>
<td>3</td>
<td>$228,970</td>
<td>3.85%</td>
</tr>
<tr>
<td>Foreign</td>
<td>3</td>
<td>$447,325</td>
<td>7.52%</td>
</tr>
<tr>
<td>Hawaii- Business and Other</td>
<td>2</td>
<td>$76,461</td>
<td>1.29%</td>
</tr>
<tr>
<td>Hawaii- Dept of Education</td>
<td>1</td>
<td>$8,000</td>
<td>0.13%</td>
</tr>
<tr>
<td>Hawaii- Government Agencies</td>
<td>18</td>
<td>$2,986,485</td>
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</tr>
<tr>
<td>Hawaii- Non-Profit Organizations</td>
<td>10</td>
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<tr>
<td>Mainland- Business and Other</td>
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<tr>
<td>Mainland- Non-Profit Organizations</td>
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<td>3.74%</td>
</tr>
<tr>
<td>National Aeronautics and Space Administration</td>
<td>1</td>
<td>$77,000</td>
<td>1.30%</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>1</td>
<td>$15,000</td>
<td>0.25%</td>
</tr>
<tr>
<td>US Colleges and Universities</td>
<td>6</td>
<td>$94,000</td>
<td>1.58%</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>59</strong></td>
<td><strong>$5,945,116</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

Extramural Research Awards
Year to Date: 07/01/09 - 04/30/10
Distribution by Sponsors

<table>
<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA-Dept of Agriculture</td>
<td>47</td>
<td>$6,479,273</td>
<td>2.90%</td>
</tr>
<tr>
<td>DHHS-Dept of Health and Human Services</td>
<td>95</td>
<td>$47,294,840</td>
<td>21.19%</td>
</tr>
<tr>
<td>DOC-Dept of Commerce</td>
<td>71</td>
<td>$25,734,567</td>
<td>11.53%</td>
</tr>
<tr>
<td>DOD-Department of Defense</td>
<td>83</td>
<td>$41,127,409</td>
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</tr>
<tr>
<td>DOE-Dept of Energy</td>
<td>14</td>
<td>$4,777,133</td>
<td>2.14%</td>
</tr>
<tr>
<td>DOI-Dept of Interior</td>
<td>54</td>
<td>$4,288,488</td>
<td>1.92%</td>
</tr>
<tr>
<td>ED-Dept of Education</td>
<td>7</td>
<td>$1,565,663</td>
<td>0.70%</td>
</tr>
<tr>
<td>Federal Agencies</td>
<td>5</td>
<td>$872,152</td>
<td>0.39%</td>
</tr>
<tr>
<td>Foreign</td>
<td>20</td>
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<td>1.09%</td>
</tr>
<tr>
<td>Hawaii- Business and Other</td>
<td>27</td>
<td>$1,412,467</td>
<td>0.63%</td>
</tr>
<tr>
<td>Hawaii- Dept of Education</td>
<td>1</td>
<td>$45,662</td>
<td>0.02%</td>
</tr>
<tr>
<td>Hawaii- Government Agencies</td>
<td>117</td>
<td>$16,285,412</td>
<td>7.30%</td>
</tr>
<tr>
<td>Hawaii- Health Organizations</td>
<td>9</td>
<td>$766,087</td>
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</tr>
<tr>
<td>Hawaii- Non-Profit Organizations</td>
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</tr>
<tr>
<td>Mainland- Business and Other</td>
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<td>$7,158,324</td>
<td>3.21%</td>
</tr>
<tr>
<td>Mainland- Health Organizations</td>
<td>17</td>
<td>$2,484,480</td>
<td>1.11%</td>
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<tr>
<td>Mainland- Non-Profit Organizations</td>
<td>29</td>
<td>$2,196,953</td>
<td>0.98%</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>1</td>
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<tr>
<td>National Aeronautics and Space Administration</td>
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<td>$11,550,021</td>
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</tr>
<tr>
<td>National Science Foundation</td>
<td>99</td>
<td>$34,172,037</td>
<td>15.31%</td>
</tr>
<tr>
<td>US Colleges and Universities</td>
<td>92</td>
<td>$8,966,501</td>
<td>4.02%</td>
</tr>
</tbody>
</table>

**Total:** 974 $223,213,383 100%

Note: YTD amounts include adjustments.
### Extramural Non-Research Awards

**Year to Date: 07/01/09 - 04/30/10**

**Distribution by Sponsors**

<table>
<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA-Dept of Agriculture</td>
<td>14</td>
<td>$3,371,972</td>
<td>2.63%</td>
</tr>
<tr>
<td>DHHS-Dept of Health and Human Services</td>
<td>38</td>
<td>$10,808,927</td>
<td>8.42%</td>
</tr>
<tr>
<td>DOC-Dept of Commerce</td>
<td>20</td>
<td>$2,095,464</td>
<td>1.63%</td>
</tr>
<tr>
<td>DOD-Department of Defense</td>
<td>7</td>
<td>$771,848</td>
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</tr>
<tr>
<td>DOI-Dept of Interior</td>
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<td>$387,553</td>
<td>0.30%</td>
</tr>
<tr>
<td>Dept of State</td>
<td>1</td>
<td>$175,080</td>
<td>0.14%</td>
</tr>
<tr>
<td>ED-Dept of Education</td>
<td>63</td>
<td>$32,113,828</td>
<td>25.01%</td>
</tr>
<tr>
<td>Federal Agencies</td>
<td>16</td>
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<td>6.54%</td>
</tr>
<tr>
<td>Foreign</td>
<td>25</td>
<td>$3,029,732</td>
<td>2.36%</td>
</tr>
<tr>
<td>Hawaii- Business and Other</td>
<td>35</td>
<td>$4,216,272</td>
<td>3.28%</td>
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<td>Hawaii- Dept of Education</td>
<td>13</td>
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<tr>
<td>Hawaii- Government Agencies</td>
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<td>13.55%</td>
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<tr>
<td>Hawaii- Health Organizations</td>
<td>30</td>
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</tr>
<tr>
<td>Hawaii- Non-Profit Organizations</td>
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<td>5.62%</td>
</tr>
<tr>
<td>Mainland- Business and Other</td>
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<td>2.15%</td>
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<tr>
<td>Mainland- Non-Profit Organizations</td>
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</tr>
<tr>
<td>National Aeronautics and Space Administration</td>
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</tr>
<tr>
<td>National Science Foundation</td>
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<tr>
<td>US Colleges and Universities</td>
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<td>$1,805,852</td>
<td>1.41%</td>
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</tbody>
</table>

**Total:** 611 $128,415,763 100%

Note: YTD amounts include adjustments.