

Gifts, Grants, and Contracts for April 2011

The following gifts, grants and contracts received by all campuses during the period April 1, 2011 through April 30, 2011 total \$23,698,795. The unofficial FY 2011 year-to-date total is: \$422,453,543.

Research

DA-Dept of Agriculture

Agriculture, Dept - Natl Institute of Food and Agriculture \$150,000

Establishment of a Huanglongbing Detection and Wide-area Monitoring Program in Hawaii

Sether, Diane M

Department of Plant and Environmental Protection Sciences

Establishment of a huanglongbing (HLB) detection center and monitoring program in Hawaii. Education of the public, stakeholders, and extension agents on HLB recognition and sample submission program.

Agriculture, Dept - Natl Institute of Food and Agriculture \$3,658,873

Children's Healthy Living Program for Remote Underserved Minority Populations in the Pacific Region (CHIL)

Novotny, Rachel

Department of Human Nutrition, Food and Animal Sciences

The project aims to train a public health nutrition work force, conduct public health nutrition research, communicate nutrition- & Health-related information, develop nutritional monitoring & surveillance systems & incur environmental policy change to promote active play & intake of healthy food to prevent young child obesity in the Pacific Region.

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Natl Inst of Health (NIH) \$311,400

The Genetic Control of Social Behavior

Blanchard, Robert J

Pacific Biosciences Research Center

Autism spectrum disorder involves multiple deficits in social behavior and interaction. The current research will use novel behavioral tests to evaluate the role of specific genes in these behaviors.

Health & Human Svc, Dept/NIH - Natl Cancer Institute \$581,283

Self-Control as a Moderator for Effects of Mass Media on Adolescent Substance Use

Wills, Thomas

UH Cancer Center

This is a research program to investigate effects of movies and advertising on adolescent smoking and alcohol use. A field study with middle school students will be conducted in Hawaii and four laboratory studies with persons from this population will be conducted in Hawaii, Michigan, and New Hampshire.

Health & Human Svc, Dept/NIH - Natl Inst of Mental Health \$307,575

Modeling Monocyte and Macrophage Based Gene Therapy for NeuroAIDS

Lu, Yuanan

Department of Public Health Sciences and Epidemiology

To test for the potential use of primary monocytes/macrophages as a gene transfer vehicle to deliver anti-HIV tat gene and a neuroprotective agent (TNFR) into the central nervous system and their stable high-level expression in the brain for combating neuroAIDS using laboratory mouse as a in vivo model system.

Health & Human Svc, Dept/NIH - Natl Inst on Drug Abuse \$192,436

The Project Success Model: Evaluation of A Tiered Intervention

Wills, Thomas

UH Cancer Center

The study is a two-level intervention, with one level (universal program) aimed at deterring initiation while second level (indicated program) is aimed at preventing escalation of use. This approach has the goal of reducing adolescent substance use problems.

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Research

DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$192,467

From Science to Conservation: Linking Coral Reefs, Coastal Watersheds and their Human Communities in the Pacific Islands

Richmond, Robert H

Pacific Biosciences Research Center

This project addresses the impacts of watershed discharges on coral reefs in the Pacific Islands and translating science into policy and management approaches to protect these coastal marine resources.

DOD-Department of Defense

Defense, Dept - Army \$135,888

Developing Novel Ecosystems that Optimize Carbon Storage, Native Biodiversity, and Human Mobility in Lowland Hawaiian Forests

Ostertag, Rebecca

Natural Sciences-UHH

Develop and evaluate a set of what we call 'hybrid ecosystems', in which a mix of native and non-native species maintains valuable forest structure and ecosystem services.

Defense, Dept - Navy \$550,097

Waianae Ordnance Reef Remedial Investigation Project II

DeCarlo, Eric H

Applied Research Laboratory

To assess water quality and sediment composition in the study area, to determine the potential effects of WWII discarded military munitions (DMM) deposited off the waters of the Waianae Ordnance Reef, Oahu, Hawaii

Defense, Dept - Navy \$50,000

Analysis of Historical Passive Acoustic Monitoring Recording in the Hawaii Range Complex

Au, Whitlow W L

Applied Research Laboratory

Analysis of passive acoustic monitoring recordings that were obtained by scientists at Hawaii Institute of Marine Biology (HIMB) off of Oahu and Kauai. The information to be extracted from the recordings is on the presence of marine mammals and the nature of the sounds they make.

Defense, Dept - Navy \$920,000

Pacific Island UXO Detection and Munitions Constituents Study

Ray, Chittaranjan

Applied Research Laboratory

Assess quality of soils, sediments, and soil pore water for residual explosive chemicals and other MC in tropical volcanic soils and develop vegetation and area mapping survey technology

Defense, Dept - Navy \$1,598,000

Standoff IED Detection II

Sharma, Shiv K

Applied Research Laboratory

Develop detector technologies to defeat IEDs

Defense, Dept - Office of Naval Research \$50,000

Multiple Approaches for Testing Novel Coatings in the Laboratory and in Pearl Harbor, Hawaii, with Emphasis on the Global, Problem-fouling Tubeworm Hydroides Elegans

Hadfield, Michael G

Pacific Biosciences Research Center

Testing of marine fouling organisms on experimental coating in the field and laboratory.

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Research

Foreign

Guam, University of \$239,832
Ecosystem Resilience to the Introduction and Spread of Invasive Species: Is There a Role for Herbivore Diversity and Standing Stock?
Toonen, Robert J Hawaii Institute of Marine Biology
An insular Pacific regional project to examine tools for early detection of alien invasive species, and ecosystem characteristics to minimize and mitigate against alien species introduction.

Hawaii- Dept of Education

Education, Dept - HI \$163,767
MOA D09-021. CO-90041 Provision of the Hawaii Content & Performance Standards III Streamline Project
Young, Donald B Jr. Curriculum Research and Development Group
Revise Hawaii State Content and Performance Standards in English, Mathematics, Science, and Social Studies; create criteria for textbook adoption; create design for teacher professional development.

Hawaii- Government Agencies

Attorney General, Dept - HI \$24,046
Burglary and Motor Vehicle Theft in Hawaii: An Analysis of Criminal History Records
Castberg, Didrick Social Sciences-UHH - Division Office
Determine whether there are correlations between crimes against property and other criminal behavior, such as substance abuse.

Defense, Dept - Civil Defense-HI \$50,000
Post & Pier Foundation Retrofit Performance Under Cyclic Lateral Loading
Robertson, Ian N Department of Civil and Environmental Engineering
This project will evaluate the performance of Post & Pier foundation retrofit systems developed under a prior SCD project. Both retrofitted and non-retrofitted foundation systems will be tested under cyclic lateral loading simulating earthquake ground shaking. video of the tests will be used to create a video promoting home retrofit.

Health, Dept - Alcohol & Drug Abuse Div-HI \$176,879
REACT: Enforcement of Underage Sales
Albright, Cheryl L. UH Cancer Center
Provide and conduct alcohol sales random sample survey program to retail outlets and liquor establishments.

Health, Dept - HI \$150,000
Survival and Die-off of Enterococci and Fecal Pathogens in Tropical Beach Sand
Yan, Tao Department of Civil and Environmental Engineering
Study the survival of fecal indicator enterococci and pathogens in beach sand in several Hawaiian beaches.

Land & Natural Res, Dept - Div of Aquatic Resources-HI \$62,500
Cres 2007: Investigating the Deep (50-100M) Coral Reefs in Hawaii
Popp, Brian N Department of Geology and Geophysics
Several milestones on the CRES 2007: Investigating the Deep (50-100m) Coral Reefs in Hawaii project, which were originally to be completed by Hawaii Division of Aquatic Resources personnel, will now be completed by Dr. John Rooney and Heather Spalding. Tasks include quantitatively characterizing benthic communities associated w/mesophotic coral reef ecosystems. Coral species richness, diversity, percent cover, incidence of coral disease

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Hawaii- Government Agencies

and size class distribution will be determined from remaining benthic video surveys.

Land & Natural Res, Dept - Div of Aquatic Resources-HI	\$22,600
<u>Kohala Coast Coral Recruitment Monitoring</u>	
Duffy, David C Department of Botany	
Monitor coral larval or juvenile recruitment along the Kohala coast and analyze data to determine coral replacement rate.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$37,453
<u>Natural Area Reserves Management</u>	
Duffy, David C Department of Botany	
Continue the educational and outreach component of the Natural Area Reserves ecosystem research and management project.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$26,722
<u>Natural Area Reserves Management: Kauai Island</u>	
Duffy, David C Department of Botany	
Research and manage endangered species in their protective habitats in the state's natural area reserves with a focus on the native ecosystem and species diversity.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$105,495
<u>Waianae Mountains Planning and Management</u>	
Morden, Clifford W Department of Botany	
Coordinate the Waianae watershed partnership, including restoration of native ecosystems.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$60,469
<u>Natural Area Reserves Management: Kauai Island</u>	
Duffy, David C Department of Botany	
Research and manage endangered species in their protective habitats in the state's natural area reserves with a focus on the native ecosystem and species diversity.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$70,229
<u>Natural Area Reserves Management: Maui</u>	
Duffy, David C Department of Botany	
Research and manage endangered species in their protected habitats in the state's natural are reserves with a focus on the native ecosystem and species diversity.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$45,000
<u>Diet Composition of Maui Parrotbill and Availability of Arthropod Prey at Kahikinui, a Potential Site of Reintroduction, Ph 2</u>	
Ziegler-Chong, Sharon Pacific Aquaculture-UHH	
Identify arthropod prey in the diet of the Maui Parrotbill and to survey arthropod food resources at Kahikinui, Maui, as part of an assessment of the site's potential to support a reintroduced population of this critically endangered Hawaiian honeycreeper species	

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Research

Hawaii- Government Agencies

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$71,633
<u>Implementation of the Statewide Wildlife Action Plan: Hawaii Island</u>	
Duffy, David C	Department of Botany
Implement site- and species-specific recovery management plans for endangered native birds on the Big Island.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$80,000
<u>Statewide Plant Conservation Program</u>	
Morden, Clifford W	Department of Botany
Develop and coordinate integrated statewide plant conservation program across partner agencies.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$13,000
<u>Statewide Plant Conservation Program</u>	
Morden, Clifford W	Department of Botany
Develop and coordinate integrated statewide plant conservation program across partner agencies.	
Land & Natural Res, Dept - HI	\$23,825
<u>Detection and Control of Invasive Species on Oahu</u>	
Duffy, David C	Department of Botany
Develop and implement a strategy to control and prevent invasive species on Oahu.	
Land & Natural Res, Dept - HI	\$31,816
<u>Statewide Wildlife Conservation Program Coordination and Implementation</u>	
Duffy, David C	Department of Botany
Contribute research coordination and implementation for various research projects under a statewide wildlife conservation plan.	
Land & Natural Res, Dept - HI	\$23,825
<u>Detection and Control of Invasive Species on the Island of Kauai: FY Supplement</u>	
Duffy, David C	Department of Botany
Control and eradicate invasive species on Kauai, with an emphasis on the mongoose.	
Land & Natural Res, Dept - HI	\$173,577
<u>Kauai Endangered Forest Bird Conservation Research and Management</u>	
Duffy, David C	Department of Botany
Continue research and field management to restore endangered Hawaiian forest birds on Kauai.	

Hawaii- Non-Profit Organizations

EPIC Ohana Inc.	\$5,000
<u>Hawaii Youth Opportunities Initiative Data Analysis</u>	
Stern, Ivette	College of Tropical Agriculture and Human Resources
Assist the Hawaii Youth Opportunities Initiative of EPIC Ohana, Inc., in its use of the Unit Record Data for the Opportunity Passport™ participants in Hawaii for measuring impact, making better data-driven decisions, influencing and institutionalizing practice and policy, and increasing public will.	

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Hawaii- Non-Profit Organizations

Paepae O He'eia	\$10,000
<u>Pilot Mangrove Removal Project</u>	
Ruttenberg, Kathleen C	Department of Oceanography
Pilot study to evaluate the impact of mangrove removal on pond biogeochemistry and ecology at He'eia Pond in Kaneohe.	
Tri-Isle Resource Conservation & Dev Council	\$106,332
<u>Leeward Haleakala Watershed Restoration Partnership</u>	
Morden, Clifford W	Department of Botany
Conduct restoration and management-based research in the watershed forests on Southern Haleakala.	
University of Hawaii Foundation	\$10,000
<u>Cell and Molecular Biology Program</u>	
Humphreys, Tom D II	Pacific Biosciences Research Center
Study of development and regeneration of neural structures of Ptychodera Flava.	

Mainland- Business and Other

Better Place	\$89,735
<u>Vehicle and Charging Data Collection and Analysis for Smart Charging for Electric Vehicles</u>	
Liaw, Bor Yann	Hawaii Natural Energy Institute
Assist Better Place in an HREDV pre-commercial demonstration project to collect and analyze electric vehicle and charging data, report results, and develop a strategic report on smart charging infrastructure management for future implementation in the next phase.	
Boeing Company	\$80,000
<u>Innovative Research and Optical Systems Support (IROSS) Program - Instrument and Systems Development for AEOS Telescope</u>	
Kuhn, Jeffrey R.	Institute for Astronomy
The IfA will maintain the HiVIS instrument on AEOS and provide reduced data products from this instrument as required for the client. Routine hardware and software instrument upgrades will be completed.	
Boeing Company	\$30,000
<u>Innovative Research and Optical Systems Support (IROSS) Program - Instrument and Systems Development for AEOS Telescope</u>	
Kuhn, Jeffrey R.	Institute for Astronomy
The IfA will maintain the HiVIS instrument on AEOS and provide reduced data products from this instrument as required for the client. Routine hardware and software instrument upgrades will be completed.	
Brookhaven National Laboratory	\$48,375
<u>MOU between University of Hawaii & Brookhaven National Laboratory Long Baseline Neutrino Experiment's Water Cherenkov Detector Project Office</u>	
Matsuno, Shigenobu	Department of Physics and Astronomy
The Neutrino group will carry out studies to facilitate the design of the inner-detector calibration system for the large water Cherenkov detector to be built at DUSEL as part of the Long Baseline Neutrino Experiment.	

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Mainland- Business and Other

Cellana LLC	\$30,454
<u>Analysis of Biochemical Constituents (ABC) for Optimal Microalgae Biomass and Lipid Production</u>	
Bidigare, Robert R	Hawaii Institute of Marine Biology
Develop and apply standard operating procedures (SOPs) for harmonization and deployment throughout project laboratories to measure a range of key biochemical metrics of performance, up to the level of molecular characterization.	
Cellana LLC	\$215,840
<u>Novel Isolations and Pre-Screening Activities in Support of Optimal Microalgae Growth and Lipid Production</u>	
Brown, Susan L.	Department of Oceanography
Isolate and maintain new microalgae strains from nature. Prescreen new and existing strains for thermal and halo-tolerance, autoflocculation and other desirable cell characteristics relevant to large-scale production.	
Jet Propulsion Lab	\$35,526
<u>Assessing the Quality of Aquarius Sea Surface Salinity Measurements Using an Ocean State Estimation System</u>	
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.	
National Geographic Society	\$12,000
<u>Global Plankton Genetics Project: Sampling a Longitudinal Transect Across the Atlantic Ocean</u>	
Goetze, Erica	Department of Oceanography
Funds requested to support participation in an Atlantic Meridional Transect cruise in 2010 (and 2011). The samples will be used in a global population genetics study of marine zooplankton (related Goetze NSF award).	
Northrop Grumman Corporation	\$86,921
<u>Corrosion Control Studies of Alloys Using Hybrid Ceramic-Polymer Coatings</u>	
Hihara, Lloyd H	Department of Mechanical Engineering
Ceramer coatings previously developed at UH will be tested on various materials in the laboratory and at field sites	
Smithsonian Astrophysical Observatory	\$16,310
<u>An In-Depth Study of Dark Matter in the Massive Cluster Merger MACSJ0358.8-2955</u>	
Ebeling, Harald	Institute for Astronomy
We propose multi-passband observations with Hubble Space Telescope and moderately deep X-ray observations with Chandra of the massive cluster merger MASJ0358.8-2955. The combination of existing snapshots show strong evidence for a segregation of luminous and dark matter in a linear cluster merger.	
Smithsonian Astrophysical Observatory	\$55,971
<u>The Bullet Cluster Reloaded? An In-Depth Study of Two Post-Collision Cluster Mergers</u>	
Ebeling, Harald	Institute for Astronomy
We propose a study of two newly discovered very X-ray luminous galaxy clusters. The proposed observations will allow an accurate mapping of collisional (X-ray gas) and collisionless matter (galaxies and, presumably, dark matter) and thus yield improved constraints on the properties of dark matter.	

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Mainland- Business and Other

Space Telescope Science Institute \$44,198

Physical Characteristics of the Massive Outflow in 3C 48

Stockton, Alan N Institute for Astronomy

The purpose of this project is to obtain high-spatial-resolution spectroscopy of gas in a massive outflow from the quasar 3C48, in order to determine the physical parameters of the gas, such as its density and velocity field. These will allow us to estimate the total mass, momentum, and kinetic energy of the outflow.

Mainland- Health Organizations

Kaiser Foundation Research Institute \$115,118

Comparative Effectiveness of Diabetes Prevention Strategies in Women with GDM

Albright, Cheryl L. UH Cancer Center

The main goal of this study is to test the effectiveness of diabetes prevention for women with gestational diabetes (GDM) to control obesity, hyperglycemia, hypertension, and depression. Dr. Albright will participate in the development, implementation, and ongoing management of diet/exercise intervention.

Mainland- Non-Profit Organizations

Cades Foundation \$25,000

Support of Bioscience Research and Training at the Bekesy Laboratory

Hartline, Daniel K Pacific Biosciences Research Center

Support of training and basic biomedical research in molecular and cellular neurophysiology.

National Fish and Wildlife Foundation \$24,992

New Species Description of Deep Sea Bamboo Coral

Watling, Les Department of Zoology

Describe and name new species of bamboo corals from the deep sea.

Southwest Research Institute \$6,200

JUNO Science Support Phase B/C/D Activities

Owen, Tobias Institute for Astronomy

Dr. Owen will provide guidance and review of all Education and Public Outreach activities. He will also assist in analysis, modeling and interpretation of models of Jupiter formation.

University Corporation for Atmospheric Research \$5,997

Okeanos ROV Research Cruise

Bingham, Brian S Department of Mechanical Engineering

This project would support one graduate students from the University of Hawaii at Manoa to participate in the upcoming research expedition on the R/V Okeanos Explorer.

National Aeronautics and Space Administration

National Aeronautics & Space Administration \$50,989

Assessment of Lunar Resources: Using Targeted Observations of Mini-RF in Conjunction with Data from LROC, LEND, DLRE, LOLA, and LAMP

Gillis-Davis, Jeffrey Hawaii Institute of Geophysics and Planetology

The proposed work will create a list of lunar geologic features to target with the Lunar Reconnaissance Orbiter

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Research

National Aeronautics and Space Administration

mini radar. Data will be acquired of basalt flows of varying titanium content and lunar pyroclastic deposits to investigate the resource potential of these two types of deposits.

National Aeronautics & Space Administration \$63,379

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 \$307,000

Support Services, Maintenance and Calibration of the TLRs-4 System

O'gara, Daniel J Institute for Astronomy

To continue the history of Haleakala as one of two fixed, well-defined geometric reference points in NASA's tectonic motion data solution.

National Aeronautics & Space Administration \$71,513

Formation, Evolution, and Detection of Ocean-Bearing Planets Close to Cool Stars

Gaidos, Eric J. Department of Geology and Geophysics

To investigate how rocky planets with the mass of earth or larger may occur close to late-type stars, whether they will have substantial fluid envelopes of water and other volatiles, how those envelopes may effect the interior evolution.

National Aeronautics & Space Administration \$98,712

A Doppler and Transit Search for Signpost Planets Around Nearby M Dwarf Stars

Gaidos, Eric J. Department of Geology and Geophysics

Establish a lower limit for M stars w/Neptune-mass planets on short orbits; identify additional planets for the mass radius diagram; provide targets for major telescopes; generate a catalog of candidates for planet searches of M dwarf stars zones.

National Aeronautics & Space Administration \$50,000

Isotopic Analysis of Stardust Samples by Ion Microprobe

Huss, Gary Robert Hawaii Institute of Geophysics and Planetology

We will use the UH Cameca ims 1280 ion microprobe to make isotopic measurements of comet samples that were returned by NASA's Stardust Mission to comet Wild 2.

National Aeronautics & Space Administration \$102,845

Studying Young Gas-Giant Planets Directly

Liu, Michael C Institute for Astronomy

We will conduct photometric, spectroscopic, and astrometric studies of gas-giant planets detected by direct imaging.

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Research

National Science Foundation

National Science Foundation \$105,302

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 \$77,363

Radiation of the Vernoniaeae (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 Vernoniaeae 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 \$89,956

Type 2-L02170124 Collaborative Research: Investigating Decadal Climate Predictability and Climate Impacts (IDCPI) on the Western US

Timmermann, Axel Department of Oceanography

The proposed research will help to predict regional climate of the Western US (incl. Hawaii) several decades ahead.

National Science Foundation \$5,100

International Dissertation Enhancement: Interactive Effects of Harvest, Grazing and Fire on Plant Populations and Communities in the Western Ghats, India

Ticktin, Tamara Beth Department of Botany

We propose to study the effects of leaf harvest, grazing and fire on populations of a palm species (*Phoenix Loureiri* Kunth) and surrounding plant communities in the Western Ghats region of India in collaboration with two Indian non-governmental organizations.

National Science Foundation \$398,491

Collaborative Research: Pacific Undergraduate Research Experience in Mathematics

Pelayo, Roberto Chancellor, University of Hawaii at Hilo-UHH

Increase the number of native Pacific Islanders earning degrees and pursuing careers in the mathematical sciences; provide valuable and lasting mentoring experiences to faculty at UHH

National Science Foundation \$16,000

HCC:Small:Human Centered Information Integration for the Smart Grid

Johnson, Philip M Department of Information and Computer Sciences

Development of technologies and experiments to determine how to achieve positive, sustained behavioral change from consumers with respect to their energy usage.

National Science Foundation \$138,100

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.

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Research

US Colleges and Universities

Alaska, University of	\$50,000
<u>Operational Support of Infrasound Station I59US of the International Monitoring System (IMS)</u>	
Garces, Milton A	Hawaii Institute of Geophysics and Planetology
Operate, maintain and upgrade/sustain the I59 infrasound site in Hawaii.	
Arizona, University of	\$25,000
<u>ASIC Development Testing for the James Webb Space Telescope</u>	
Hall, Donald N	Institute for Astronomy
To continue the performance of application specific integrated circuit development testing for space telescopes.	
California Institute of Technology	\$19,997
<u>WISE (Wide-field Infrared Survey Explorer) Solar System Object Identification (SSOID)</u>	
Tholen, David J	Institute for Astronomy
This project is intended to support the WISE spacecraft mission by providing a capability to identify known solar system objects in the WISE data stream.	
California State University, Northridge	\$17,124
<u>Coral Reefs in the US Virgin Islands: 1987-2019</u>	
Gates, Ruth D	Hawaii Institute of Marine Biology
DNA genotyping of endosymbiotic dinoflagellates harbored by corals collected from St John, USVI	
Columbia University	\$151,644
<u>Collaborative Research: Global Ocean Repeat Hydrography, Carbon, and Tracer Measurements, 2009-2014</u>	
Ho, David	Department of Oceanography
PI will provide measurements of CFCs and SF6 as well as data reduction and quality check during the CLIVAR/CO2 Repeat Hydrography Program.	
Mississippi, University of	\$255,374
<u>Remote Infrasonic Monitoring of Natural Hazards (RIM)</u>	
Garces, Milton A	Hawaii Institute of Geophysics and Planetology
Develop infrasound technology to support NOAA monitoring in the US for severe weather, high surf, and tsunamis.	
New Mexico, University of	\$29,047
<u>Direct and In Situ Determination of Immobilized Activity and Loading</u>	
Cooney, Michael J	Hawaii Natural Energy Institute
In this work it is proposed to use 1) quantitative fluorescence and 2) imaging ellipsometry coupled to quartz crystal microbalance to quantify immobilized enzyme and loading.	
Utah, University of	\$552,495
<u>Novel Inhibitors of Metastasis</u>	
Kuwada, Scott	Department of Medicine
This research is intended to develop a class of NF-kB inhibitors that will prevent the metastasis (spread) of cancer cells in humans.	

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Research

US Colleges and Universities

Vanderbilt University \$134,524
Phytoestrogen and Endogenous Estrogen Exposure and Risk of Stroke
Franke, Adrian A H UH Cancer Center
To measure urinary isoflavonoids and creatinine in human urine.

Subcount: 78 Subtotal: \$14,214,611

Non-Research

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept/NIH - Natl Inst of Diabetes,Digestive,Kidney Dis \$161,011
High School Students Step Up to Biomedical Research
Hui, George S N Dept of Trop Med, Medical Microbiology and Pharmacology
Provide biomedical research training for high school students of ethnic minority and economically disadvantaged background.

DOC-Dept of Commerce

Commerce, Dept - Minority Business Dev Agency-FED \$98,500
Honolulu Minority Business Center, April 1, 2011 to March 31, 2016
Morton, John F Vice President for Community Colleges
The Minority Business Development Agency Award supports the Honolulu Minority Business Enterprise Center that will provide economic development and technical assistance work to minority enterprises located in Hawaii.

DOD-Department of Defense

Defense, Dept - Natl Security Agency \$90,458
2011 STARTALK-Hawaii Chinese Language Teacher Training Institute
Ning, Cynthia Y Center for Chinese Studies
STARTALK-Hawaii will recruit 15 teacher trainees both locally and nationally, and in a 3.5 week program that involves training in principles and theory as well as a practicum in the concurrent Student Camp, build teacher skills, knowledge, and confidence in teaching Chinese language following a standards-based format.

Defense, Dept - Natl Security Agency \$100,000
2011 STARTALK-Hawaii Chinese Language Student Camp
Ning, Cynthia Y Center for Chinese Studies
STARTALK-Hawaii will recruit 24 middle school students locally and nationally, and, in a 3 week innovative Chinese language residential program led by four lead instructors and 15 teacher trainees, immerse them in a four-skills program in Mandarin Chinese, imparting as much instruction as one college semester.

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Non-Research

ED-Dept of Education

Education, Dept - FED	\$85,142
<u>Advanced Study of Khmer (ASK) - Summer Abroad Intensive Program in Cambodia</u>	
Sak-Humphry, Chhany	Department of Indo-Pacific Languages and Literatures
The intensive and immersion advanced study of Khmer language program in Cambodia.	
Education, Dept - FED	\$91,000
<u>Advanced Filipino Abroad Program</u>	
Mabanglo, Ruth S	Department of Indo-Pacific Languages and Literatures
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.	
Education, Dept - FED	\$420,000
<u>Foreign Language and Area Studies Fellowship in southeast Asian Studies</u>	
O'Harrow, Stephen D	Center for Southeast Asian Studies
the grant will support undergraduate and graduate student scholarships in southeast Asian Studies at the University of Hawaii	
Education, Dept - FED	\$328,500
<u>Foreign Language and Area Studies Fellowship in East Asian Studies</u>	
Huey, Robert N	Center for Japanese Studies
The grant will support student scholarships in East Asian Studies at the University of Hawaii.	

Federal Agencies

Labor, Dept - Employment & Training Admin-FED	\$4,300,000
<u>Remote Rural Hawaii Job Training Project</u>	
Sakamoto, Clyde M	Chancellor, University of Hawaii Maui College
Provide innovative educational and job training projects at Maui College and other rural community college campuses.	
Small Business Administration	\$152,264
<u>Small Business Development Center (CY 2011)</u>	
Furstenwerth, John	Small Bus Dev Center-UHH
Develop programs and provide business management and other services that enhance the economic development goals and objectives of SBA and their other respective state and local funding partners.	

Hawaii- Business and Other

Hawaii Council for the Humanities	\$3,000
<u>The Past in the Present: Dances of Asia and the Pacific</u>	
Slaughter, Timothy Roy	Outreach Community Programs
The crossroads of tradition and contemporary interpretation of the traditional are evident in Asia and the Pacific, and are clearly manifested in dance. This project seeks to explore and shed light on how and why contemporary dancers/choreographers use or abuse traditional dance and culture.	

Gifts, Grants, and Contracts for April 2011

Non-Research

Hawaii- Business and Other

Kamehameha Schools \$39,435

Archaeological Collections Inventory

Mills, Peter

Social Sciences-UHH - Division Office

Provide archaeological data collection services to Kamehameha Schools

Maui County Community Television, Inc \$36,807

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 \$150,000

Designing Algebra Resources for Teachers

Zenigami, Fay K

Curriculum Research and Development Group

The project will create a partnership between HIDOE, UH COE, UH Department of Arts and Sciences, Hawaii Community Colleges. The project activities will be to create and disseminate replacement algebra units and companion teacher educative materials.

Hawaii- Government Agencies

Acctg & General Svc, Dept - State Fdn on Culture & the Arts-HI \$5,870

2010-2011 UHM Theatre Program: Hamlet & Waiting for Godot

Carroll, W Dennis

Department of Theatre and Dance

A repertory season of two great masterpieces of Western drama "Hamlet" and "Waiting for Godot" as a substitute for the earlier announced "The Women Warrior." The season had a through educational component of lectures, chats, and panels between the twelve public performances from 11/5/2010-12/5/2010.

Acctg & General Svc, Dept - State Fdn on Culture & the Arts-HI \$2,503

Intersections Visiting Artist/Scholar Program

Hamilton, Jaimey E

Department of Art and Art History

Funding for a lecture and residency series of visiting artists and scholars.

Acctg & General Svc, Dept - State Fdn on Culture & the Arts-HI \$7,983

2010-2011 Kabuki Training, Production and Outreach Project

Iezzi, Julie Ann

Department of Theatre and Dance

The 2010-2011 Kabuki is a theatre training, production and outreach project that includes intensive training in kabuki voice, movement and music for students and community members who will be in the ensemble. It culminates in a 3-week production run of the play THE VENGEFUL SWORD at Kennedy Theatre, 4/8-24/11.

Acctg & General Svc, Dept - State Fdn on Culture & the Arts-HI \$4,160

Manoa: A Pacific Journal of International Writing - 2011

Stewart, R F

Department of English

Publication of two issues of an international literary journal each year.

Gifts, Grants, and Contracts for April 2011

Non-Research

Hawaii- Government Agencies

Acctg & General Svc, Dept - State Fdn on Culture & the Arts-HI	\$8,595
<u>Special Exhibitions Program</u>	
Yoshihara, Lisa	Department of Art and Art History
one exhibition, one exhibition catalog, educational special events and educational website.	
Acctg & General Svc, Dept - State Fdn on Culture & the Arts-HI	\$6,286
<u>World Performance Series - 2011</u>	
Slaughter, Timothy Roy	Outreach Community Programs
Performances and educational services by touring artists from around the world.	
Acctg & General Svc, Dept - State Fdn on Culture & the Arts-HI	\$8,343
<u>Arts Aloha 2011</u>	
Patti, Joseph S	Chancellor, Leeward Community College
Present performances and outreach activities.	
Agriculture, Dept - HI	\$49,910
<u>Increasing Market Potential by Reducing On-Farm Food Safety Risk for Specialty Crop Produce Growers in Hawaii</u>	
Hollyer, James R	Department of Plant and Environmental Protection Sciences
The CTAHR Farm Food Safety team has been actively involved in providing educational workshops and farm consultations to Hawaii growers to assess and remedy high risk situations found on most Hawaii produce farms.	
County of Hawaii	\$59,759
<u>Implementation of Underage Drinking Prevention Evidence-Based Programs for Youth Ages 12-17</u>	
Yudko, Errol	Social Sciences-UHH - Division Office
Implement the evidence-based program "Too Good for Drugs and Violence" in conjunction with present substance abuse prevention efforts at the Lanakila Learning Center, an alternative off-campus learning center of Hilo High School.	
County of Kauai	\$97,000
<u>County of Kauai Coastal Processes Extension Project</u>	
Okimoto, Darren K	Sea Grant College Program
The goal of this project is to contribute to improved protection of coastal natural resources and minimization of risks to human lives and safety by providing a UH Sea Grant liaison between scientists, managers, policy makers and the public to ensure the application of the best available coastal management practices.	
County of Maui - Ofc of Economic Development	\$249,855
<u>Year-Round Youth Services and Training Program under the Workforce Investment Act of 1998 for the County of Maui</u>	
Tagomori, Alvin R	Chancellor, University of Hawaii Maui College
Ku'ina will assist economically and otherwise disadvantaged at risk youth to achieve academic and career success, contributing to independence, self-sufficiency, and life long advancement opportunities.	
Hawaii Tourism Authority	\$8,487
<u>Seasons and the Sea</u>	
Rossiter, Andrew	Waikiki Aquarium
The Aquarium will host a Seasons and the Sea event highlighting the importance of lunar cycles to ocean	

Gifts, Grants, and Contracts for April 2011

Non-Research

Hawaii- Government Agencies

practices for Native Hawaiians, involving educational activities, exhibits, and cultural practitioners followed by a sunset observation protocol to that marks the traditional change from the wet to the warm season.

Hawaii Tourism Authority \$45,000

Reef Watch Waikiki (Phase II)

Barrett, Jennifer

Sea Grant College Program

Through monitoring and stewardship projects, Reef Watch Waikiki will enhance community capacity to protect the natural resources of Waikiki. Given the 'gateway' characteristic of Waikiki, knowledge gained will also be carried with participants, influencing their behavior when they visit other coastal sites. creating a cumulative benefit for reefs statewide.

Labor & Industrial Relations, Dept - HI \$20,000

"Hawaii: The State of Clean Energy" Show 2

Moriwaki, Sharon Y

Public Policy Center

Partial sponsorship to produce and broadcast "Hawaii: The Clean Energy State" series 2 television program .
(Fixed fee basis)

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI \$85,000

Mauna Kea Watershed Alliance Planning and Management

Morden, Clifford W

Department of Botany

Coordinate the newly established Mauna Kea Watershed Partnership, including the drafting of a management plan.

Land & Natural Res, Dept - HI \$154,836

Assistant Extension Agent/Coastal Lands Specialist

Grau, E Gordon

Sea Grant College Program

Provide assistance on important issues of coastal hazards, mapping, beach nourishment, coastal erosion mitigation and coastal dependent development utilizing traditional extension methods.

Public Safety, Dept - HI \$170,102

Sex Offender Services Officer

Mokuau, Noreen K

School of Social Work

To provide a clinical director who is experienced in the administration of sex abuse education and treatment services in a correctional institution.

Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$130,888

Contemporary Challenges in Microbial Oceanography

Karl, David M.

Department of Oceanography

To train the next generation of scientists in the discipline of microbial oceanography.

Gifts, Grants, and Contracts for April 2011

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation	\$361,059
<u>Clarence T.C. Ching Athletic Complex (UHM 09-302)</u>	
Katsuyoshi, Thomas S	Buildings & Grounds Management Office
Plans, design, and construction of new Clarence T.C. Ching Athletic Complex.	
University of Hawaii Foundation	\$55,197
<u>Community Based Marine and Coastal Resources Sustainable Use Project 2010-2011</u>	
Okimoto, Darren K	Sea Grant College Program
To advance coastal and ocean literacy in East and West Hawai'i by providing formal and informal learning opportunities at schools, community meetings and events, public presentations, and other educational forums on Hawai'i Island.	
University of Hawaii Foundation	\$75,000
<u>Coral Industries Distinguished Professor of Renewable Energy Chairholder</u>	
Antal, Michael J JR	Hawaii Natural Energy Institute
To provide for salary, fringe benefit costs, and other program expenses.	
University of Hawaii Foundation	\$4,500
<u>Journal of Natural Resources Policy Research</u>	
Gopalakrishnan, Chennat	Department of Natural Resources and Environmental Management
To launch a new journal in the field of natural resources and environmental policy, "Journal of Natural Resources Policy Research", to be edited by Professor Chennat Gopalakrishnan of the Department of Natural Resources and Environmental Management at UH Manoa. Work will involve a variety of editorial activities connected with journal publication.	

Mainland- Business and Other

Booz, Allen & Hamilton Inc	\$17,400
<u>caBIG Enterprise Phase</u>	
Wilkens, Lynne R	UH Cancer Center
The primary objectives of this Task Order 3 Strategic Extension Project are to train on various web technologies, create implementation guides specific to NCI CBIIT, and engage with standards development organizations.	
EMD Serono Inc.	\$70,582
<u>EMR701048_009. A Phase IIIb, Study to Assess the Immunogenicity of the r-hGH Liquid Multidose Formulation (Saizen)</u>	
Arakaki, Richard F	Department of Medicine
A phase IIIb study to assess the immunogenicity of the r-hGH liquid multidose formulation (Saizen solution for injection) by measuring the proportion of subjects who become positive for binding antibodies (BAbs+) during a 6 mon. course of daily GH replacement therapy in adults with documented growth hormone deficiency (GHD).	
Genentech, Inc	\$160,806
<u>A Randomized, 3 Arm, Multicentre, Phase III Study to Evaluate the Efficacy and the Safety of T-DM1 Combined with Pertuzumab</u>	
Cho, Jonathan	UH Cancer Center
A Phase III clinical trial to evaluate the efficacy & safety of T-DM1 (study drug) combined with pertuzumab or T-DM1 combined with pertuzumab-placebo versus the combination of trastuzumab plus taxane, in progressive or recurrent locally advanced or untreated metastatic breast cancer in HER2-positive patients.	

Gifts, Grants, and Contracts for April 2011

Non-Research

Mainland- Business and Other

National Solar Observatory \$13,355

Akamai Remote Sensing Workshop

Hunter, Lisa Institute for Astronomy

Akamai Remote Sensing Workshop is a new activity for alumni of the Akamai Internship Program, aimed at advancing understanding of remote sensing techniques and fostering career and educational opportunities at the NSO Workshop will be a collaboration between NSO and IfA Akamai Workshop Initiative.

Mainland- Non-Profit Organizations

Casey (Annie E.) Foundation \$75,000

Hawaii KIDS COUNT 2011

Stern, Ivette College of Tropical Agriculture and Human Resources

Hawaii KIDS COUNT's objective is to improve the well-being of Hawaii's children and families by increasing public awareness of their conditions and serving as a catalyst for positive actions on their behalf. Activities include

Doctors Company Foundation, The \$5,000

2nd Cross-Cultural Health Care Conference: Collaborative and Multidisciplinary Interventions

Chun, Maria Department of Surgery

The conference will address the well-documented need for physicians and other healthcare providers to be formally trained in the delivery of care to diverse patient populations.

Education Trust, The \$20,000

Access to Success Leading Indicator Project 2

Johnsrud, Linda K Executive Vice President for Academic Affairs/Provost

Support data analysis, report preparation and presentation that will be carried out by UH System for the Leading Indicator project between January 14, 2010 and June 30, 2011. this is a fixed price contract.

Gilead Foundation \$75,000

SEARCH Regional HIV/AIDS Training

Shikuma, Cecilia M Department of Medicine

Provide advanced HIV training in SE Asia to physicians, nurses, laboratory technicians, and peer educators who have basic HIV/AIDS knowledge and are caring for patients with HIV.

Orthopaedic Research & Education Foundation \$6,953

OREF Clinician Development Program - 2011-2012 Residency Enhancement Grants

Atkinson, Robert E 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. Also, provide funds for residents to attend educational programs off site.

National Science Foundation

National Science Foundation \$670,978

Oceanographic Technical Services, 2009-2012, R/V Kilo Moana (supplemental funding)

Shor, Alexander N School of Ocean and Earth Science and Technology

Support for shipboard technical services on UH research vessels.

Gifts, Grants, and Contracts for April 2011

Non-Research

National Science Foundation

National Science Foundation	\$67,500
<u>Acquisition and Upgrading of Equipment for High Pressure-Temperature Research in Mineral Physics</u>	
Manghnani, Murli H	Hawaii Institute of Geophysics and Planetology
Upgrading High Pressure laboratory for high pressure-temperature mineral physics in spectroscopy and ultrasonic measurements.	
National Science Foundation	\$465,000
<u>Transcriptional Coding of Interneuron Differentiation</u>	
Robinow, Steven N	Department of Zoology
Funds are requested to support two undergraduate students in the research lab for the summer of 2011. Both students will work on projects related to understanding how neurons develop.	
National Science Foundation	\$12,000
<u>Microhabitat Selection and Morphological Constraint in the Insect Visual System</u>	
Butler, Marguerite	Department of Zoology
Provide funds for undergraduates to participate in research on Hawaiian damselflies.	

US Colleges and Universities

California Community College Chancellor's Office	\$100,000
<u>California and Hawaii Solar Train the Trainer Program</u>	
Murakami, Scott	Chancellor, Honolulu Community College
This is a trainer program in Photovoltaic Installation and in Solar Thermal (water heating) Installation. The target training population will be Credit, non-credit and unions.	
Jackson State University	\$10,000
<u>C-More Stars Internship Program</u>	
Bruno, Barbara	Department of Oceanography
This internship program aims at promoting diversity in the geosciences, particularly among Native Hawaiians, Pacific Islanders and other students from under-represented groups. The content focus is microbial oceanography. Students will be closely supervised by faculty mentors.	
Kansas State University	\$48,160
<u>OSD Operation Military Kids Camp</u>	
Nakatsuka, Claire M	College of Tropical Agriculture and Human Resources
The Hawaii OMK team will provide weekend camping opportunities to military children and families that advance the accomplishment of national OMK goals and enhance the effective implementation of OMK program elements to reach more Military youth.	

Subcount:	52	Subtotal:	\$9,484,184
Count:	<u>130</u>	Total:	<u>\$23,698,795</u>

Funds Received from UH Foundation for 04/01/2011 - 04/30/2011

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$75,000

"Coral Industries Distinguished Professor of Renewable Energy Chairholder"

Antal, Michael J Hawaii Natural Energy Institute

To provide for salary, fringe benefit costs, and other program expenses.

University of Hawaii Foundation \$4,500

"Journal of Natural Resources Policy Research"

Gopalakrishnan, Chennat Department of Natural Resources and Environmental Management

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University of Hawaii Foundation \$130,888

"Contemporary Challenges in Microbial Oceanography"

Karl, David M. Department of Oceanography

To train the next generation of scientists in the discipline of microbial oceanography.

University of Hawaii Foundation \$361,059

"Clarence T.C. Ching Athletic Complex (UHM 09-302)"

Katsuyoshi, Thomas S Buildings & Grounds Management Office

Plans, design, and construction of new Clarence T.C. Ching Athletic Complex.

University of Hawaii Foundation \$55,197

"Community Based Marine and Coastal Resources Sustainable Use Project 2010-2011"

Okimoto, Darren K Sea Grant College Program

To advance coastal and ocean literacy in East and West Hawai'i by providing formal and informal learning opportunities at schools, community meetings and events, public presentations, and other educational forums on Hawai'i Island.

Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$10,000

"Cell and Molecular Biology Program"

Humphreys, Tom D Pacific Biosciences Research Center

Study of development and regeneration of neural structures of *Ptychodera Flava*.

Count: 6

Total: \$636,644

**Extramural Research Awards
for the Month of
April 2011
Distribution by Sponsors**

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	2	\$3,808,873	26.80%
DHHS-Dept of Health and Human Services	4	\$1,392,694	9.80%
DOC-Dept of Commerce	1	\$192,467	1.35%
DOD-Department of Defense	6	\$3,303,985	23.24%
Foreign	1	\$239,832	1.69%
Hawaii- Dept of Education	1	\$163,767	1.15%
Hawaii- Government Agencies	19	\$1,249,069	8.79%
Hawaii- Non-Profit Organizations	4	\$131,332	0.92%
Mainland- Business and Other	12	\$745,330	5.24%
Mainland- Health Organizations	1	\$115,118	0.81%
Mainland- Non-Profit Organizations	4	\$62,189	0.44%
National Aeronautics and Space Administration	7	\$744,438	5.24%
National Science Foundation	7	\$830,312	5.84%
US Colleges and Universities	9	\$1,235,205	8.69%
Total:	<u>78</u>	<u>\$14,214,611</u>	<u>100%</u>

**Extramural Non-Research Awards
for the Month of
April 2011
Distribution by Sponsors**

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DHHS-Dept of Health and Human Services	1	\$161,011	1.70%
DOC-Dept of Commerce	1	\$98,500	1.04%
DOD-Department of Defense	2	\$190,458	2.01%
ED-Dept of Education	4	\$924,642	9.75%
Federal Agencies	2	\$4,452,264	46.94%
Hawaii- Business and Other	3	\$79,242	0.84%
Hawaii- Dept of Education	1	\$150,000	1.58%
Hawaii- Government Agencies	17	\$983,689	10.37%
Hawaii- Non-Profit Organizations	5	\$626,644	6.61%
Mainland- Business and Other	4	\$262,143	2.76%
Mainland- Non-Profit Organizations	5	\$181,953	1.92%
National Science Foundation	4	\$1,215,478	12.82%
US Colleges and Universities	3	\$158,160	1.67%
Total:	<u>52</u>	<u>\$9,484,184</u>	<u>100%</u>

**Extramural Research Awards
Year to Date: 07/01/10 - 04/30/11
Distribution by Sponsors**

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	50	\$10,628,196	4.32%
DHHS-Dept of Health and Human Services	79	\$54,455,942	22.12%
DOC-Dept of Commerce	62	\$27,422,405	11.14%
DOD-Department of Defense	54	\$43,461,809	17.65%
DOE-Dept of Energy	21	\$21,799,873	8.85%
DOI-Dept of Interior	53	\$5,400,783	2.19%
ED-Dept of Education	3	\$1,365,407	0.55%
Federal Agencies	11	\$4,740,401	1.93%
Foreign	21	\$5,800,079	2.36%
Hawaii- Business and Other	26	\$1,830,957	0.74%
Hawaii- Dept of Education	2	\$218,364	0.09%
Hawaii- Government Agencies	112	\$11,847,283	4.81%
Hawaii- Health Organizations	6	\$714,454	0.29%
Hawaii- Non-Profit Organizations	56	\$2,808,716	1.14%
Mainland- Business and Other	56	\$5,134,942	2.09%
Mainland- Health Organizations	12	\$1,370,600	0.56%
Mainland- Non-Profit Organizations	28	\$950,052	0.39%
Miscellaneous	1	\$215,987	0.09%
National Aeronautics and Space Administration	52	\$9,561,127	3.88%
National Science Foundation	89	\$25,402,949	10.32%
US Colleges and Universities	89	\$11,106,887	4.51%
Total:	<u>883</u>	<u>\$246,237,213</u>	<u>100%</u>

Note: YTD amounts include adjustments.

**Extramural Non-Research Awards
Year to Date: 07/01/10 - 04/30/11
Distribution by Sponsors**

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	13	\$2,787,915	1.58%
DHHS-Dept of Health and Human Services	32	\$7,955,611	4.51%
DOC-Dept of Commerce	24	\$38,255,413	21.71%
DOD-Department of Defense	9	\$888,007	0.50%
DOE-Dept of Energy	1	\$750,000	0.43%
DOI-Dept of Interior	14	\$596,233	0.34%
ED-Dept of Education	78	\$37,710,173	21.40%
Federal Agencies	16	\$13,449,961	7.63%
Foreign	29	\$1,702,939	0.97%
Hawaii- Business and Other	37	\$5,418,115	3.07%
Hawaii- Dept of Education	11	\$2,490,521	1.41%
Hawaii- Government Agencies	104	\$24,904,611	14.13%
Hawaii- Health Organizations	10	\$3,485,499	1.98%
Hawaii- Non-Profit Organizations	80	\$5,655,677	3.21%
Mainland- Business and Other	16	\$1,037,319	0.59%
Mainland- Health Organizations	2	\$171,250	0.10%
Mainland- Non-Profit Organizations	33	\$3,138,849	1.78%
National Aeronautics and Space Administration	5	\$3,692,825	2.10%
National Science Foundation	43	\$19,728,206	11.20%
US Colleges and Universities	34	\$2,397,206	1.36%
Total:	<u>591</u>	<u>\$176,216,330</u>	<u>100%</u>

Note: YTD amounts include adjustments.