

Gifts, Grants, and Contracts for September 2010

The following gifts, grants and contracts received by all campuses during the period September 1, 2010 through September 30, 2010 total \$128,049,228. The unofficial year-to-date total is: \$251,548,333.

Research

DA-Dept of Agriculture

- Agriculture, Dept - Agricultural Research Svc-FED \$297,732
Control of Minor Crop Pests and Diseases
Hu, Ching Yuan College of Tropical Agriculture and Human Resources
The approach to this project is to address the development of economical and environmentally friendly pest and disease management strategies for Hawaii's economically important and potentially important crops.
- Agriculture, Dept - Agricultural Research Svc-FED \$80,000
Constructing a DNA-Based Systematic Framework for the Bactorcera Dorsalis Complex for Improved Control and Quarantine
Rubinoff, Daniel Z Department of Plant and Environmental Protection Sciences
To identify both morphologically and through DNA sequence, the species and populations in the Bactorcera dorsalis fruit fly species group to improve control and quarantine against these serious agricultural pests.
- Agriculture, Dept - FED \$200,478
UHM-Collaborative Effort for Evaluating Regionally Based Feedstock and Co-Products for Aquaculture and Livestock
Hashimoto, Andrew G College of Tropical Agriculture and Human Resources
The main objective of this agreement is to evaluate the usefulness of regionally grown feedstock for aquaculture and livestock.
- Agriculture, Dept - FED \$40,000
Predicting and Interpreting Behavior and Performance of Soils Lacking Particle Size Distribution Data
Uehara, Goro Department of Tropical Plant and Soil Sciences
Particle size is associated with the capacity of soils to retain and store water and nutrients for plant growth and development. Particle size determination is problematic for soils with high sesquioxide content. The standard pipet method can be used with improvement in dispersion methods.
- Agriculture, Dept - FED \$233,461
Adding Value and Controlling Pests and Diseases of Papaya
Hu, Ching Yuan College of Tropical Agriculture and Human Resources
Develop and evaluate non-toxic, preferably biological-based, environmentally suitable technologies and processes for pest and disease control on papaya.
- Agriculture, Dept - FED \$83,380
Sequencing of the Oriental Fruitfly Genome
Patek, Paul Q Department of Microbiology
Sequencing of the Oriental Fruitfly Genome.
- Agriculture, Dept - FED \$15,000
Assessing and Mitigating Problems Caused by Varroa Mites and Small Hive Beetles on Honey Bees in Hawaii
Villalobos, Ethel Department of Plant and Environmental Protection Sciences
Project goals: 1-Determine the level of the expression of 'Varroa specific hygiene' (VSH) needed to obtain resistance to Varroa mites in commercial queen production; 2-Determine if small hive beetle (SHB) larvae can successfully pupate in lava rock; 3-Determine reproductive success of SHB on different Hawaiian fruits.

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Research

DA-Dept of Agriculture

Agriculture, Dept - Forest Service-FED \$36,835

Management Practices and Outcomes for Restoring Acacia koa and Sophora chrysophylla Forests to Abandoned Pastures and Degraded Forests of Hawaii

Friday, James B Department of Natural Resources and Environmental Management

Our goal is to develop information to help Hawaii land managers restore upland forests. Our objectives are to determine long-term effects of thinning, fertilization, and weed control in koa forests; to determine realistic timber yield estimates for koa; to determine changes in carbon in aboveground biomass and in the soil.

Agriculture, Dept - Natl Institute of Food and Agriculture \$234,817

Tropical and Subtropical Agricultural Research (TSTAR) for Hawaii: Management 2010

Hu, Ching Yuan College of Tropical Agriculture and Human Resources

This grant to the UH-CTAHR provides the resources necessary to effectively manage and coordinate the Pacific Basin Administrative Group, the Pacific part of the NIFA Special Grant entitled, "Tropical and Subtropical Agricultural Research (TSTAR) Special Grants Program".

Agriculture, Dept - Natl Institute of Food and Agriculture \$142,392

Agricultural Diversification: Hawaii Tropical Specialty Fruit Research and Development

Hu, Ching Yuan College of Tropical Agriculture and Human Resources

The overall objective is to provide scientific and outreach support services that enable Hawaii entrepreneurs to increase their revenues or profits from growing and selling tropical specialty fruits from Hawaii.

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Ctrs for Disease Cntrl & Prvntn (CDC) \$95,000

Program to Assess Health Effects Associated with Exposures to Volcanic Emissions and Environmental Air Pollutants

Tam, Elizabeth K Department of Medicine

Extend a community-based participatory research network to study the respiratory effects of volcanic air pollution in Hawaii Island schoolchildren.

Health & Human Svc, Dept - Hlth Res & Svcs Adm (HRSA) \$346,500

Service Focused Congressional Initiative

Daub, Katharyn Nursing-UHH

Continue to develop a dual interdisciplinary graduate program which is a DNP and PharmD program

Health & Human Svc, Dept - Natl Inst of Health (NIH) \$1,440,370

Cancer Research Center of Hawaii

Carbone, Michele Cancer Research Center

Assess current informatics systems at CRCH and develop an implementation plan for adopting in the three caBIG software bundles.

Health & Human Svc, Dept - Natl Inst of Health (NIH) \$99,735

Cancer Research Center of Hawaii

Carbone, Michele Cancer Research Center

Assess current informatics systems at CRCH and develop an implementation plan for adopting in the three caBIG software bundles.

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Research

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept/NIH - Natl Cancer Institute <u>Whole Genome Scan for Modifier Genes in Colorectal Cancer</u> Le Marchand, Loic Cancer Research Center To conduct a whole-genome association study of colorectal cancer in the Multiethnic study in order to identify susceptibility genes for this cancer.	\$1,944,822
Health & Human Svc, Dept/NIH - Natl Cancer Institute <u>Patterns Of Care/Quality Care Diagnosis Year 2009</u> Goodman, Marc T Cancer Research Center Evaluate treatment patterns specifically for bladder, head and neck, pancreas, and kidney cancer.	\$47,222
Health & Human Svc, Dept/NIH - Natl Cancer Institute <u>Hawaii Minority-Based Community Clinical Oncology Program</u> Cho, Jonathan Cancer Research Center This award will provide funding to allow minority and underserved populations in Hawaii receive state-of-the-art cancer treatment and to participate in cancer prevention and control studies	\$100,000
Health & Human Svc, Dept/NIH - Natl Cancer Institute <u>University of Guam/Cancer Research Center of Hawaii Partnership</u> Vogel, Carl-Wilhelm Cancer Research Center Cancer research, training, education and outreach in partnership with the University of Guam.	\$200,000
Health & Human Svc, Dept/NIH - Natl Cancer Institute <u>Characterizing Mitochondrial DNA Susceptibility to Breast, Colorectal and Prostate Cancers</u> Cheng, Iona Cancer Research Center This project proposes to comprehensively characterize the genetic diversity of the mitochondrial genome among a diverse sample of subjects in the Multiethnic Cohort Study and will investigate whether inherited differences in mitochondrial DNA influence the risk fo breast, prostate or colorectal cancer.	\$464,757
Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources <u>INBRE II: Hawaii Statewide Research and Education Partnership (HSREP)</u> Holmes, Eric Vice Chancellor for Research and Graduate Education Provide improved secondary education and biomedical research opportunities for the citizens of Hawaii at every level from community colleges through the state's medical school.	\$2,967,395
Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources <u>RCMI Multidisciplinary and Translational Research Infrastructure Expansion Hawaii (RMATRIX)</u> Hedges, Jerris John A. Burns School of Medicine Through the RCTR award, we propose to establish the RMATRIX as the integrated "home" for clinical and translational research infrastructure in the State of Hawai'i. By partnering with NCCR programs we seek to reorganize and expand the existing RCMI clinical and translational research infrastructure at UHM.	\$4,261,097
Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources <u>Pacific Center for Emerging Infectious Diseases Research</u> Yanagihara, Richard Department of Pediatrics The overall objective of the proposal is to strengthen and transform the Pacific Center for Emerging Infectious Diseases Research into a translational science center of excellence.	\$2,126,915

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DHHS-Dept of Health and Human Services

Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources	\$268,278
<u>INBRE II: Hawaii Statewide Research and Education Partnership (HSREP)</u>	
Holmes, Eric	Vice Chancellor for Research and Graduate Education
Provide improved secondary education and biomedical research opportunities for the citizens of Hawaii at every level from community colleges through the state's medical school.	
Health & Human Svc, Dept/NIH - Natl Inst of Allergy & Infectious Dis	\$75,000
<u>Selenoprotein K Modulates Calcium-Dependent Signaling in Immune Cells</u>	
Hoffmann, Peter	Department of Cell and Molecular Biology
The goals of this project is to determine the functional role of selenoprotein K in immune responses.	
Health & Human Svc, Dept/NIH - Natl Inst of Allergy & Infectious Dis	\$102,771
<u>Mechanism of Activation of Innate Immunity by ISS-DNA</u>	
Chu, Wen-Ming	Cancer Research Center
Understand how innate immunity is activated by immunostimulatory DNA sequences (ISS-DNSs)	
Health & Human Svc, Dept/NIH - Natl Inst of Diabetes,Digestive,Kidney Dis	\$111,620
<u>Neighborhood Characteristics and Diabetes Incidence in the Multiethnic Cohort Study</u>	
Sinclair, Kaimi	Department of Native Hawaiian Health
The purpose of this K01 Mentored Research Scientist Development Award is to provide Dr. Ka'imi A. Sinclair with support and protected time for an intensive, supervised career development experience leading to research independence and make her competitive for new (R01) research program funding.	
Health & Human Svc, Dept/NIH - Natl Inst of Neurologcl Disordr & Stroke	\$1,684,058
<u>Imaging Studies in Neurotoxicity and Neurodevelopment</u>	
Chang, Linda	Department of Medicine
To establish the infrastructure for a strong neuroscience research environment at JABSOM. The proposed projects will evaluate changes in higher cortical function and neurochemistry in individuals infected with HIV and in relation to substance-dependence, determine the physiological bases of these brain changes, and evaluate possible neurochemical changes.	
Health & Human Svc, Dept/NIH - Natl Inst of Neurologcl Disordr & Stroke	\$34,176
<u>HIV and Global Drug Therapies: Peripheral Neuropathy Complications and Mechanisms</u>	
Shikuma, Cecilia M	Department of Medicine
This proposal will study whether low baseline peripheral nerve fiber density will predict development of neuropathy in a clinical cohort in Thailand; and also study the role of mitochondria.	

DOC-Dept of Commerce

Commerce, Dept - Natl Inst of Standards & Tech	\$5,000,000
<u>University of Hawaii, Hawaii Open Supercomputing Center</u>	
Syrmos, Vassilis L	Vice Chancellor for Research and Graduate Education
To establish a Hawaii Open Supercomputing Center.	

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DOC-Dept of Commerce

Commerce, Dept - Natl Inst of Standards & Tech	\$172,510
<u>Radionuclide Measurement Assurance for Radiobioassay</u>	
Dulaiova, Henrieta	Department of Geology and Geophysics
Development of necessary metrology assurance tools that supplement and complement established NIST measurement methodologies, including radiobioassay, radiochemistry, measurement techniques and statistical analysis that will contribute to improvements of NIST radiometrology assurance program.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$172,171
<u>Multi-Model Ensemble Forecast of MJO</u>	
Wang, Bin	Joint Institute for Marine and Atmospheric Research
To develop Multi-coupled Model Ensemble (MME) methodology and real time MME prediction schemes for improvement of the prediction of the Madden-Julian Oscillation (MJO) and the associated western United States precipitation extreme events during the boreal winter.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$98,303
<u>A Study on the Predictability of Pacific Decadal Variability</u>	
Jin, Fei-Fei	Joint Institute for Marine and Atmospheric Research
To investigate the predictability of the Pacific decadal sea surface temperature (SST) variability that is a major source for decadal climate anomalies over North America.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$384,000
<u>NOAA Lau Basin Hydrophone Cruise</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To support continued exploration for hydrothermal activity in the northern Lau Basin between Samoa and Tonga. The main activities would be water-column surveys of hydrothermal plumes, camera tows, dredging, and multi-beam mapping of seafloor bathymetry.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$74,000
<u>Improved Extended-Range Prediction through a Bayesian Approach: Exploiting the Enhanced Predictability Offered by the Madden-Julian Oscillation</u>	
Xie, Shang-Ping	Joint Institute for Marine and Atmospheric Research
1) To extend knowledge on the geographical areas & lead times for which the Madden-Julian Oscillation (MJO) may offer enhanced predictability, & 2) to transition that knowledge to enhanced operational National Centers for Environmental Prediction (NCEP)/Climate prediction Center (CPC) forecast products.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$300,000
<u>Marine Fisheries Scientist at HIMB</u>	
Leong, Jo-Ann C.	Hawaii Institute of Marine Biology
Funding is requested for a faculty position in fisheries science at HIMB. The faculty member will work cooperatively with colleagues at UH-Manoa and the PIFSC for NMFS.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$1,470,999
<u>The University of Hawaii Sea Level Center</u>	
Merrifield, Mark A	Department of Oceanography
The University of Hawaii Sea Level (UHSLC) collects, processes, analyzes, and distributes tide gauge data from around the world in support of climate and oceanographic research.	

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DOC-Dept of Commerce

- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$34,243
Waikiki Aquarium Species of Concern (SOC) Research and Outreach Program and Captive Propagation of Lingula reevii
Rossiter, Andrew Waikiki Aquarium
Build holding tanks with associated life support to document factors affecting adult L. reevii microdistribution patterns and population density. Additionally, should we succeed in spawning these animals, we will investigate fecundity, habitat selection by larvae during settlement, growth rates, etc.
- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$49,940
Enhancing MPA Effectiveness: Identification and assessment of reproductively active epinephelid movement and fishery vulnerability for management improvement
Hopkins, Kevin D Pacific Aquaculture-UHH
Investigate area requirements for effectively protecting adult congeners, E. polyphekadion, away from and at spawning sites
- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$34,060
Genetic Isolation and Plasticity in Montipora dilatata and Hawaiian Congeners: Where are the Species Boundaries?
Toonen, Robert J Hawaii Institute of Marine Biology
Determine the degree of similarity of Montipora in the Hawaiian Archipelago with congeners in surrounding areas for the purpose of evaluating the proposed listing of these species under the Endangered Species Act.
- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$254,400
WHOTS-7 Cruise Plan: WHOI Hawaii Ocean Timeseries Station, Seventh Setting
Schroeder, Thomas A Joint Institute for Marine and Atmospheric Research
Mooring operations to provide long-term high quality air-sea fluxes and upper ocean temperature, salinity and velocity as a coordinated part of the Hawaii Ocean Timeseries (HOT) program, and contribute to the goals of observing heat, fresh water and chemical fluxes at a site representative of the oligotrophic North Pacific Ocean.
- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$141,900
Joint Institute for Marine and Atmospheric Research (JIMAR) - Task I
Schroeder, Thomas A Joint Institute for Marine and Atmospheric Research
To support administration and visiting scientist program activities.
- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$150,000
Hawaii Coral Reef Initiative Supplemental Funds
Hamnett, Michael P Social Science Research Institute
HCRI proposes a supplemental proposal to sponsor research on the state's biotic reefs, native aquatic habitats directly influencing them, and the effects of human activity through an integrated ecosystem approach specifically in the Pelekane Bay region of Hawaii.
- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$366,091
Capacity Building for Community Resilience: Providing Planning Tools that Promote Sustainable Ecosystem and Disaster Resilient Practices at the Village Level
Foley, Dolores A Department of Urban and Regional Planning
The project will work with government officials at the American Samoa Department of Commerce as well as other departments to assess strengths and weaknesses of existing regulations and develop recommendations for revisions. It will adapt planning tools and community resilience training programs for the various communities.

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DOC-Dept of Commerce

Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$240,000
<u>FISHERIES OCEANOGRAPHY: Marine Turtle Research Program</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To conduct critical research on sea turtle biology and ecology, and foundation activities including training of Pacific Islanders and information exchange, fishery observer training, fishery interaction data collection, collection of field	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$185,000
<u>Marine Resource Dynamics Assessment Program (MARDAP): Economics of Fisheries Initiative</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To support ongoing economic data collection programs and assess changes in key economic indicators in fisheries and other living marine resource utilizations in Hawaii and other Pacific Islands Area including American Samoa, Guam, and the Commonwealth of the Northern Mariana Islands (CNMI).	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$590,000
<u>Marine Resource Dynamics Assessment Program (MARDAP): Research Support</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To continue research support for the scientific information support and fishery data monitoring operations within the Marine Resource Dynamics Assessment Program (MARDAP).	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$266,000
<u>Kona Integrated Ecosystem Assessment</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To perform a formal synthesis and quantitative analysis of information on relevant natural and socio-economic factors, specifically in relation to identified ecosystem management goals for the Kona region of Hawaii.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$185,529
<u>Human Dimensions of Fishing and Marine Ecosystems in the Western Pacific</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To collect and analyze sociocultural information relevant to current and upcoming fisheries management and marine ecosystem issues in the Western Pacific region.	
Commerce, Dept/NOAA - Natl Weather Service	\$127,085
<u>National Weather Service Pacific Region Fellowship Program</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
Funds will be used to support students and infrastructure within the departments of Meteorology, Oceanography (marine applications) and Geology & Geophysics (hydrology).	
Commerce, Dept/NOAA - Natl Weather Service	\$137,190
<u>National Weather Service/JIMAR Pacific International Desk</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
Training is provided to selected candidate meteorologists from the predominantly island nations within World Meteorology Organization (WMO) Region 5. Goal is to train in techniques and technology applicable to their nations and physically transfer appropriate hardware and software to that nation.	

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DOC-Dept of Commerce

Western Pacific Regional Fishery Mgmt Council \$63,499
Mapping of the Commercially Valuable Hawaiian Black Corals (*Antipathes dichotoma* and *A. grandis*) with Fishery Stock Management Implications
Toonen, Robert J Hawaii Institute of Marine Biology
Mapping black coral resources across the Hawaiian Archipelago for fisheries management at request of Western Pacific Fisheries Management Council.

DOD-Department of Defense

Defense, Dept - Air Force \$678,508
Operations and Management of the Maui High Performance Computing Center
Lassner, David K Information Technology Services
Cost reimbursement award term contract for research, development, operations and management of the Maui Supercoming Center.

Defense, Dept - Air Force \$4,000,000
Operations and Management of the Maui High Performance Computing Center
Lassner, David K Information Technology Services
Cost reimbursement award term contract for research, development, operations and management of the Maui Supercoming Center.

Defense, Dept - Air Force \$110,000
Operations and Management of the Maui Supercomputing Center
Lassner, David K Information Technology Services
Cost reimbursement award term contract for research, development, operations and management of the Maui Supercomputing Center.

Defense, Dept - Air Force Space & Missile Syst Ctr \$1,502,701
LEONIDAS: Low-Earth Orbit Nanosat-Integrated Defense Autonomous Systems
Flynn, Luke Paul Hawaii Institute of Geophysics and Planetology
The LEONIDAS project will design, build, test, launch, and operate small spacecraft in low-Earth orbit.

Defense, Dept - Army \$289,997
Ecosystem Management Research Projects at Various Training Areas, USAG-HI
Duffy, David C Department of Botany
Cooperate with US Army environmental division on conservation biology projects to benefit protected native species on Army land.

Defense, Dept - Naval Research Lab \$1,796,515
Hydrogen Energy Systems as a Grid Management Tool
Rocheleau, Richard E Hawaii Natural Energy Institute
A demonstration of battery and hydrogen/fuel cells as potential energy storage technologies to evaluate the feasibility of utilizing a hydrogen production and storage system as a grid management tool to mitigate the impacts of renewable energy sources such as wind, solar, and geothermal, on the Big Island.

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Research

DOE-Dept of Energy

Energy, Dept - FED	\$1,427,250
<u>Development of High Yield, Tropical Feedstocks for Bioenergy</u>	
Hashimoto, Andrew G	College of Tropical Agriculture and Human Resources
Investigate the use of tropical grasses for conversion into liquid transportation fuels.	
Energy, Dept - FED	\$2,333,366
<u>National Marine Renewable Energy Center in Hawaii</u>	
Rocheleau, Richard E	Hawaii Natural Energy Institute
Conduct RD&D to promote the demonstration and commercialization of wave and other ocean power systems in Hawaii.	
Energy, Dept - FED	\$170,238
<u>Development of new Biomarkers for Surficial Earth Processes</u>	
Jahren, Hope	Department of Geology and Geophysics
To investigate: the stable isotope signature of terrestrial biomarkers, when contextualized according to the composition of whole organism and fortified with knowledge about general biochemistry, comprises a chemical signature that integrates over the lifetime of the organism, or the pedogenic development of the soil.	
Energy, Dept - FED	\$178,700
<u>Research in High Energy Physics: Technical Progress Report & FY08 Budget Request</u>	
Browder, Thomas E	Department of Physics and Astronomy
Primary purpose of this research is the understanding of the properties of the elementary constituents of matter and the nature of the fundamental forces between them.	
Energy, Dept - FED	\$371,263
<u>Assessing Enso Regime Changes in a Changing Climate</u>	
Jin, Fei-Fei	Department of Meteorology
We will assess the likelihood of El Nino regime changes in response to global warming. The outcome of this research should help to address the reliability of climate change projections.	
Energy, Dept - FED	\$195,000
<u>Synthesis of New Diamond-Like B-C Phases Under High Pressures and Temperatures</u>	
Ming, Li-Chung	Hawaii Institute of Geophysics and Planetology
The aim of the proposed research is to synthesize a new class of diamond-like materials containing only boron and carbon.	
Energy, Dept - FED	\$132,332
<u>Pacific Decadal Variability and Central Pacific Warming El Nino in a Changing Climate</u>	
Schneider, Niklas	Department of Oceanography
Investigate decadal North Pacific climate modes and linkages to the equatorial Pacific in current and future climates.	
Energy, Dept - FED	\$95,000
<u>Fast Feature Extracted High Precision Timing, Integrated Photodetector Readout</u>	
Varner, Gary S	Department of Physics and Astronomy
Develop and fabricate high-performance, high-density, and low-cost readout electronics - BLAB3 ASIC and it's initial evaluation system for the fast focusing-DIRC prototype at the SLAC Cosmic Ray Telescope.	

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DOE-Dept of Energy

Energy, Dept - FED \$100,000

Hawaii-New Mexico Sustainable Energy Security Partnership, Phase 4

Rocheleau, Richard E Hawaii Natural Energy Institute

The Hawaii Natural Energy Institute (HNEI) of the University of Hawaii's program goal is to evaluate, test, and demonstrate energy resource technologies to facilitate greater penetration of Hawaii's indigenous renewable energy sources and reduce Hawaii's predominant (>90%) dependence on imported fossil fuels.

DOI-Dept of Interior

Interior, Dept - National Park Service \$11,339

Invasive Coqui Study and Public Outreach in Hawaii Volcanoes National Park and Vicinity

Duffy, David C Department of Botany

Monitor and collect data on coqui frog populations in Hawaii Volcanoes National Park, implement control methods including testing barricades and chemical treatments, and provide technical assistance and public outreach.

Interior, Dept - National Park Service \$27,170

Fire Restoration Ecology Study in Lowland Grasslands

Daehler, Curtis C Department of Botany

Document fire effects on the lowland pili (*Heteropogon contortus*) grassland community in Hawaii Volcanoes National Park.

Interior, Dept - National Park Service \$75,883

Monitor and Protect Newly Discovered Hawksbill Turtle Nesting Beaches

Duffy, David C Department of Botany

Collect baseline data and monitor hawksbill turtles at newly discovered nesting beaches at Kahakahakea, Pohue Bay, Awili Point, and Manuka, and identify and control adverse effects on the nesting habitat.

Interior, Dept - National Park Service \$295,500

Developing and Evaluating Techniques to Restore Native Hawaiian Plant Communities Threatened by Invasive Plants

Duffy, David C Department of Botany

Evaluate weed removal techniques and document efficacy, differential results in target areas, and the need for post weed control restoration of native plants at Haleakala National Park.

Interior, Dept - National Park Service \$80,000

Designing a Framework to Address Climate Impacts on Cultural Resources

Anderson, Cheryl Social Science Research Institute

HCEP proposes to design a framework for understanding and addressing climate change impacts on cultural resources in National Parks in the Pacific Islands & to use two test cases in the development of the framework.

Interior, Dept - National Park Service \$9,625

Sustainable Partnerships for Conservation

Kaneshiro, Kenneth Y Pacific Biosciences Research Center

Promotion of effective long-term management of Hawaii's native ecosystems through collaborative research, training and outreach among land managers, scientists, educators and the general public.

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DOI-Dept of Interior

Interior, Dept - National Park Service	\$69,000
<u>Conduct a Socio-Cultural Affiliation Study of Kalaupapa National Historical Park</u>	
Inglis, Kerri	Chancellor, University of Hawaii at Hilo-UHH
Archival and literature research of the Kalaupapa National Historical Park	
Interior, Dept - National Park Service	\$144,000
<u>Managing Marine Ecosystem Responses to Increasing Nutrients and Other Disturbances Herbivory as a Control of Algal Overgrowth of Coral Reefs in Two Hawaii Parks</u>	
Beets, James	Natural Sciences-UHH
In marine national park units, a more thorough understanding of algal growth and changes in benthic community structure in response to various levels of herbivory among herbivore groups is needed to understand and collect defensible data on local ecosystem responses to potential water-quality changes associated with adjacent urban development and to protect nationally significant resources.	
Interior, Dept - National Park Service	\$40,000
<u>Environmental History for Kalaupapa National Historical Park, 1900-2000</u>	
Delparte, Donna	Chancellor, University of Hawaii at Hilo-UHH
Provide professional assistance and guidance in preparing spatial data (GIS) of Kalaupapa Natl Historical Park's landscape and environmental history over time	
Interior, Dept - National Park Service	\$57,369
<u>Inventory of Marine Invertebrates and Vertebrates at Two Units within the World War II Valor in the Pacific National Monument</u>	
Rodgers, Ku'ulei	Hawaii Institute of Marine Biology
This research includes an assessment of the invertebrates and fishes at the USS Arizona Memorial and the USS Utah Memorial with an emphasis on non-native species. A historical review of prior research will also be conducted.	
Interior, Dept - National Park Service	\$15,511
<u>Evaluate Eradication and Containment Strategies for Nonnative Plant Infestations</u>	
Duffy, David C	Department of Botany
Conduct removal experiments to eradicate localized weed infestations and contain moderate alien weed infestations in Hawaii Volcanoes National Park.	
Interior, Dept - National Park Service	\$173,940
<u>Evaluate Eradication and Containment Strategies for Nonnative Plant Infestations</u>	
Duffy, David C	Department of Botany
Conduct removal experiments to eradicate localized weed infestations and contain moderate alien weed infestations in Hawaii Volcanoes National Park.	
Interior, Dept - National Park Service	\$40,000
<u>Cooperative Development of the Fisheries Harvest Vital Sign Monitoring Protocol</u>	
Beets, James	Natural Sciences-UHH
Summarize a protocol that will be developed to monitor the amount of marine resources extracted annually from Pacific Island National Park waters	

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DOI-Dept of Interior

Interior, Dept - National Park Service	\$82,500
<u>Developing Rare Plant Monitoring and Recovery Strategies</u>	
Morden, Clifford W	Department of Botany
Conduct surveys and identify seed sources of endangered, threatened and rare plant species; collect seeds and cuttings and propagate and outplant seedlings; and evaluate propagation and outplanting success.	
Interior, Dept - U.S. Fish & Wildlife Service	\$18,822
<u>Sensitivity of Adult and Early Life Stage Tropical Corals to Metal Toxicity: Influence of Temporal Variation on Risk Assessment</u>	
Gates, Ruth D	Hawaii Institute of Marine Biology
Assess the lethal and sublethal toxicity of 3 different contaminants in the adult and early life stages of the coral <i>Pocillopora damicornis</i> from the Hawaiian Islands over time.	
Interior, Dept - U.S. Fish & Wildlife Service	\$68,596
<u>Field Monitoring and Analysis of Climate Change Across a Wide Range of Ecosystems in Hawaii</u>	
Giambelluca, Thomas W	Department of Geography
The goal of this project is to ensure continued operation and maintenance of the HaleNet climate observation network, including field operations, equipment maintenance and replacement, sensor recalibration, data communication improvements, data screening and archival, data analysis, and dissemination of results.	
Interior, Dept - U.S. Fish & Wildlife Service	\$130,026
<u>High Resolution Dynamical Projections of Climate Change for Hawaii and Other Pacific Islanders</u>	
Hamilton, Kevin P	International Pacific Research Center
Computer model simulation of weather and climate in the Pacific region.	
Interior, Dept - U.S. Fish & Wildlife Service	\$216,780
<u>Temporal and Spatial Pattern of Sea-level Rise Impacts to Coastal Wetlands and Other Ecosystems</u>	
Fletcher, Charles H III	Department of Geology and Geophysics
To map the spatial and temporal threat of inundation to coastal plain ecosystems on Oahu and Maui and to produce map visualizations of sea-level rise impacts.	
Interior, Dept - U.S. Fish & Wildlife Service	\$232,233
<u>Climate Change Impacts on Critical Ecosystems in Hawai'i and US Pacific Islands Territories</u>	
Elison Timm, Oliver	International Pacific Research Center
The overarching goal of this project is to enable a process of routine monitoring and an assessment of ongoing climatic changes and provide quantitative, empirical-statistical estimates of future climatic changes and their impacts on biological resources in the Hawaiian Islands.	
Interior, Dept - U.S. Geological Survey	\$186,380
<u>HCSU Unit Support & General Activities 2009</u>	
Ziegler-Chong, Sharon	Pacific Aquaculture-UHH
Support research programs of the USGS BRD PIERC related to the ecological, environmental and sociocultural management of natural and cultural areas and other components of DOI agencies	

Gifts, Grants, and Contracts for September 2010

Research

DOI-Dept of Interior

Interior, Dept - U.S. Geological Survey \$125,000

HCSU Unit Support & General Activities 2009

Ziegler-Chong, Sharon Pacific Aquaculture-UHH

Support research programs of the USGS BRD PIERC related to the ecological, environmental and sociocultural management of natural and cultural areas and other components of DOI agencies

Interior, Dept - U.S. Geological Survey \$75,000

Ecohydrological Field Research in Hawaii

Giambelluca, Thomas W Department of Geography

We will maintain the HaleNet system on Maui, consisting of 9 active climate stations, two repeaters, and a base station. On Hawaii Island, we will operate two advanced flux towers measuring energy, water, and carbon exchanges over one native forest site and one strawberry guava-invaded site.

Interior, Dept - U.S. Geological Survey \$19,000

Population Trends, Distribution, and Insect Prey Base of the Hawaiian Hoary Bat

Ziegler-Chong, Sharon Pacific Aquaculture-UHH

Fully gather information needed for the re-evaluation of the conservation status of the Hawaiian hoary bat

ED-Dept of Education

Education, Dept - FED \$566,402

Project Ho`oku`i

Roberts, Kelly D Center on Disability Studies

Project Ho`oku`i will increase the number of Native Hawaiian high school students, who are able to acquire additional high school credits toward graduation and meet the academic qualifications to enroll in college classes as part of their high school coursework.

Education, Dept - Ofc of Special Ed & Rehab Svcs-FED \$299,999

Steppingstones: Text to Speech Phase Two Study

Stodden, Robert A Center on Disability Studies

The proposed project is a Phase 2 project - Research on Effectiveness. Building on the promising findings of a previously funded Steppingstones Phase I grant, the proposed project staff intend to conduct a rigorous field-based research study to further explore the effectiveness of text-to-speech software in educational setting.

Federal Agencies

Environmental Protection Agency \$100,000

Reducing Pesticide Applications for Fusarium Wilt, Nematodes and Weeds by Soil Solarization in Hawaii

Wang, Koon-Hui Department of Plant and Environmental Protection Sciences

Promoting the proper use of soil solarization for Fusarium wilt, nematode and weed control in agriculture farming systems in Hawaii.

Gifts, Grants, and Contracts for September 2010

Research

Foreign

Bio-ON srl		\$345,516
<u>PHA Production from Crude Glycerol</u>		
Yu, Jian	Hawaii Natural Energy Institute	
Crude glycerol is a waste stream of biodiesel production from renewable oils and fats. This research investigates a sustainable solution for its upgrade via production of polyhydroxyalkanoates from the crude glycerol. The goal is to raise the polymer's productivity and reduce the production cost so that the ecofriendly bioplastics can compete with the petroleum-based plastics in material properties and production costs.		
World Cancer Research Fund		\$577,394
<u>Validation of the Hair as a Tissue to Biomonitor PhIP, a Carcinogenic Heterocyclic Aromatic Amine</u>		
Le Marchand, Loic	Cancer Research Center	
The focus of this multidisciplinary application is to validate the use of hair as a tissue in which to biomonitor the chronic exposure to the carcinogen, 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP), a heterocyclic aromatic amine (HAA) formed in cooked meat.		

Hawaii- Business and Other

East West Center		\$20,095
<u>Family Change in Japan</u>		
Lee, Sang-Hyop	Department of Economics	
The incumbent will assist with the NIH-funded project on Changes in Japanese Family. Major duties involve running and interpreting the complex statistical analysis of cross-sectional and longitudinal survey data and preparing summaries, charts, and tables. Other duties include literature review and compilation of data from published sources.		
East West Center		\$55,999
<u>Cultural Archives Research for Pacific Climate Impacts Resource Guide Development</u>		
Nogelmeier, Marvin	Kawaihuelani Hawaiian Language Program	
A survey of Hawaiian-language archival resources will generate a database of audio and printed materials for use in the Pacific Climate Impacts Resource Guide. Selected materials will be translated for consideration. All research and translation will be carried out off-campus.		
Marine Research Consultants Inc.		\$18,468
<u>Nutrient Analysis for Maalaea Bay, Maui</u>		
Atkinson, Marlin J	Hawaii Institute of Marine Biology	
Collect water samples and analyze for salinity and nutrients. Provide interpretation and analysis.		
Martin & Chock, Inc		\$42,000
<u>Maui County All-Hazard Assessment of Critical Facilities</u>		
Robertson, Ian N	Department of Civil and Environmental Engineering	
This project will assess and evaluate critical facilities in Maui County and develop prioritized retrofit recommendations where necessary to improve continuity of government operations after future disaster events.		
Martin & Chock, Inc		\$25,000
<u>Wind Debris Testing of Typical Residential Wall Panels</u>		
Robertson, Ian N	Department of Civil and Environmental Engineering	
This project will perform windborne debris testing of wall specimens typical of residential construction in Hawaii. The intent is to develop design guidelines for construction of residential saferooms for residents to shelter at home		

Gifts, Grants, and Contracts for September 2010

Research

Hawaii- Business and Other

during future hurricanes. These guidelines will be incorporated into the Hawaii State Building Code.

Hawaii- Government Agencies

\$60,000

Business, Econ Dev & Tourism, Dept (DBEDT) - HI

NSF Center for Bioenergy Research & Development -- State of Hawaii Energy Office Membership

Turn, Scott Q

Hawaii Natural Energy Institute

The State of Hawaii Energy Office is paying for a membership in the University of Hawaii site of the NSF supported Center for Bioenergy Research & Development.

County of Hawaii

\$9,600

Innovative Agricultural Research to Evaluate Olive Varieties for Oil Production in Hawai'i

Miyasaka, Susan C

Department of Tropical Plant and Soil Sciences

There is a potential market for healthy, high-value olive oil grown in Hawai'i. The objective of this project will be to determine the olive varieties best suited for growth and olive production in the Lalamilo area of Hawai'i.

Health, Dept - HI

\$76,000

Hair Analysis for Mercury and Arsenic Exposure

Li, Qingxiao

Department of Molecular Biosciences and Bioengineering

To assist the Hazard Evaluation and Emergency Response Office, Hawaii Department of Health in establishing a biomonitoring project to assess exposure to hazardous substances in the environment. Mercury and arsenic will be measured in hair collected from Women, Infant and Child participants.

Health, Dept - HI

\$9,500

Hawaii Asthma Friendly Pharmacy Project 2010

Gomez, Lara

Chancellor, University of Hawaii at Hilo-UHH

Utilize pharmacists in improving care provided to asthma patients in East Hawaii

Health, Dept - HI

\$339,782

Concussion Management Protocol for Interscholastic Student/Athletes in Hawaii High Schools

Murata, Nathan M

Kinesiology and Leisure Science Department

This project will develop a standardized protocol using technology (concussion management software) to identify and diagnosis concussions and in assisting in determining an athlete's ability to return to play safely. This protocol would help reduce the inconsistencies in identifying and diagnosing concussions in athletes.

Judiciary, Dept - HI

\$6,000

JDAI DMC Facilitation

Umemoto, Karen N

Department of Urban and Regional Planning

In consultation with the Juvenile Detention Alternatives Initiative Coordinator and Disproportionate Minority Contact subcommittee Chair, we will design and facilitate a process to develop a work plan to reduce racial disparities in detention, prepare and facilitate subcommittee meetings, synthesize/analyze data, draft a report.

Gifts, Grants, and Contracts for September 2010

Research

Hawaii- Government Agencies

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$60,000
<u>Hawaiian Ecosystems: Management and Education: Koolau Watershed</u>	
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 - Div of Forestry & Wildlife-HI	\$68,544
<u>Natural Area Reserves Enhancement (Oahu)</u>	
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 - Div of Forestry & Wildlife-HI	\$85,000
<u>Threatened and Endangered Species Recovery: Kauai</u>	
Morden, Clifford W	Department of Botany
Conduct applied field research to promote recovery of Kauai's threatened and endangered plants.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$199,630
<u>Forest Restoration on Mauna Kea</u>	
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	\$65,000
<u>Landowner Assistance Program for Endangered Species Protection</u>	
Duffy, David C	Department of Botany
Provide conservation expertise to landowners on all aspects of assistance programs for endangered species protection, and assist in development of plans and agreements.	
Land & Natural Res, Dept - HI	\$49,977
<u>Acoustic Monitoring of Long-Term Movement Patterns, Habitat Use and Site Fidelity of Food and Game Fishes in the Main Hawaiian Islands, Phase 4</u>	
Meyer, Carl G	Hawaii Institute of Marine Biology
We will equip coral reef fishes with small transmitters to determine their movements.	
Land & Natural Res, Dept - HI	\$55,064
<u>GIS Research on State Forest Lands</u>	
Duffy, David C	Department of Botany
Work cooperatively with DLNR on GIS mapping of forest fire response and development of a state forestry plan.	
Land & Natural Res, Dept - HI	\$280,000
<u>Coordination and Planning of the Kauai Seabird Habitat Conservation Plan on Kaua'i, Hawai'i</u>	
Duffy, David C	Department of Botany
Complete a programmatic seabird habitat conservation plan and National Environmental Policy Act analysis for the incidental take of endangered seabirds due to light attraction.	

Gifts, Grants, and Contracts for September 2010

Research

Hawaii- Government Agencies

Land & Natural Res, Dept - HI \$75,000

Development of a Habitat Conservation Plan for Game Mammal Management in North Kona, Hawaii

Duffy, David C Department of Botany

Conduct research to develop a conservation plan for game mammal management in conservation areas in Hawaii.

Land & Natural Res, Dept - HI \$173,576

Kauai Endangered Forest Bird Conservation Research and Management

Duffy, David C Department of Botany

Continue research and field management to restore endangered Hawaiian forest birds on Kauai.

Hawaii- Non-Profit Organizations

Chun Foundation \$8,925

Pediatric Fatty Liver Disease Is Affected By Nuclear Receptor Signaling

Collier, Abby Cherise Dept of Trop Med, Medical Microbiology and Pharmacology

We hypothesize that changes in detoxification that cause/contribute to fatty liver disease in children are mediated in fatty-acid effects on nuclear transcription factors coupled with pediatric development of detoxification. If proven; this path can be targeted for interventions to prevent liver damage and disease.

Oceanic Institute - Ctr for Tropical & Subtrpcl Aquaculture (CTSA) \$50,000

DNA-Based Selection of High-Growth, Saltwater-Tolerant Tilapia

Yang, Jinzeng Department of Human Nutrition, Food and Animal Sciences

The long-term goal of the project is to develop saltwater-tolerant and fast-growing tilapia by using existing strains and hybrids in Hawaii. The study will be focused on the development of DNA-based tools for selection of saltwater-tolerant, fast-growing tilapia in combination with growth trial and fillet quality evaluation.

Tri-Isle Resource Conservation & Dev Council \$6,500

Leeward Haleakala Watershed Restoration Partnership

Morden, Clifford W Department of Botany

Conduct restoration and management-based research in the watershed forests on Southern Haleakala.

Tri-Isle Resource Conservation & Dev Council \$75,000

Leeward Haleakala Watershed Restoration Partnership

Morden, Clifford W Department of Botany

Conduct restoration and management-based research in the watershed forests on Southern Haleakala.

University of Hawaii Foundation \$24,056

Do Invasive Macroalgae Store Arginine and Trigger Tumor-Formation in the Herbivorous Green Sea Turtle, Chelonia Mydas?

Smith, Celia M Department of Botany

We will evaluate the impact of elevated nutrients on the health of algae that are known foods for the green sea turtle. Our hypothesis is elevated nutrients allow invasive algae to concentrate an amino acid which has been tied diseases in turtles and other animals.

Gifts, Grants, and Contracts for September 2010

Research

Mainland- Business and Other

Allergan Inc	\$600,000
<u>Biophysical Studies on Botulinum Neurotoxin based on Fluorescence Correlation Spectroscopy</u>	
Jameson, David M	Dept Anatomy, Biochemistry, Physiology and Reproductive Biol
Biophysical characterization of the botulinum toxin protein using advanced fluorescence methods	
Argonne National Laboratory	\$160,000
<u>Development of Application Specific Integrated Circuits for the Large Area Photodetector Development Project</u>	
Varner, Gary S	Department of Physics and Astronomy
Development of waveform sampling readout electronics (ASICS) to be used in low-cost large-area detectors under development at Argonne National Laboratories.	
Argonne National Laboratory	\$83,500
<u>Anti-Neutrino Imaging Prototype Detector</u>	
Learned, John G	Department of Physics and Astronomy
Construct a ~2 liter prototype scintillation neutrino detector.	
Jet Propulsion Lab	\$63,356
<u>GASPS: Gas in Protoplanetary Systems</u>	
Williams, Jonathan P.	Institute for Astronomy
We will use the unique capabilities of the Herschel satellite to observe far-infrared spectral lines from atomic and molecular gas in protoplanetary systems. Our international team will carry out the first extensive and systematic survey of gas in the planet forming regions of circumstellar disks around over 250 stars with ages from 1 to 30 Myr.	
Jet Propulsion Lab	\$27,000
<u>Cassini Solstice Mission</u>	
Owen, Tobias	Institute for Astronomy
To study seasonal and other long-term temporal changes on Saturn and its moons, from northern winter solstice to northern summer solstice. The mission extension will allow for continued observations of Saturn's rings and the magnetic bubble around the planet known as the magnetosphere.	
Jet Propulsion Lab	\$20,000
<u>New JPL 1279251 - Cassini IDS Orbital Phase</u>	
Owen, Tobias	Institute for Astronomy
To work with results from the orbiter and the probe regarding the origin of Saturn and the origin and early evolution of the atmosphere of Titan.	
Lockheed Martin Corporation Space Systems	\$50,000
<u>Lockheed Martin OTEC Project</u>	
Vega, Luis	Hawaii Natural Energy Institute
Provide the services of Dr. Luis Vega to provide the LM team support in the definition and design of ocean thermal energy conversion (OTEC) plantships; participate in design review meetings; provide input and review of the technology and commercialization plans under development.	

Gifts, Grants, and Contracts for September 2010

Research

Mainland- Health Organizations

Glaucoma Foundation, The	\$39,975
<u>LOXL1-Associated Pathomechanisms in PEX Glaucoma</u>	
Csiszar, Katalin	Department of Complementary and Alternative Medicine
The proposal investigates how different alleles (G153G/D) of the Lysyl Oxidase-Like1 gene influences the development of glaucoma in pseudoexfoliation syndrome.	
Women & Infants Hospital of Rhode Island	\$370,447
<u>Prenatal Methamphetamine Exposure and School Aged Outcome (IDEAL II)</u>	
Derauf, Donald C	Department of Pediatrics
The major goal of this project is to study the effects of prenatal methamphetamine exposure on child outcomes.	

Mainland- Non-Profit Organizations

Consortium for Ocean Leadership	\$20,219
<u>IODP Cruise 325</u>	
Herrero-Bervera, Emilio	Hawaii Institute of Geophysics and Planetology
Cruise on the JOIDES Resolution for paleomagnetism.	
Consortium for Ocean Leadership	\$60,486
<u>Participation in IODP Cruise #330</u>	
Mahoney, John	Department of Geology and Geophysics
Participation in IODP scientific expedition #330.	
Consortium for Ocean Leadership	\$145,963
<u>IODP Expedition Participation on Expedition 331 Deep Hot Biosphere</u>	
Mottl, Michael J	Department of Oceanography
Participation as co-chief scientist of the IODP Expedition 331 Deep Hot Biosphere aboard on the Chikyu.	

National Aeronautics and Space Administration

National Aeronautics & Space Administration	\$55,122
<u>Water and Habitable Worlds</u>	
Meech, Karen J	Institute for Astronomy
This project will trace the history of water from its formation in the interstellar medium to incorporation in the solar system, how it reaches the terrestrial planets, and its role in life.	
National Aeronautics & Space Administration	\$23,960
<u>Measuring Cluster Properties and Flows From Cosmic Microwave Background WMAP and X-ray Data</u>	
Ebeling, Harald	Institute for Astronomy
Reflecting the importance of galaxy clusters for a wide range of extragalactic research topics, the science goals addressed by this project are numerous, from the physical mechanisms governing galaxy evolution, to investigations into the nature and properties of dark matter and dark energy.	

Gifts, Grants, and Contracts for September 2010

Research

National Aeronautics and Space Administration

National Aeronautics & Space Administration \$24,656

Using the Near-Sun Neutral Helium to Probe the Corona

Moise, Elena Institute for Astronomy

Cool Neutral Helium (He I) is being observed near the Sun. Sensitive IR spectropolarimetry data using an off-axis reflecting coronagraph (SOLARC) from Haleakala reveal scattered photospheric light at 1083 nm from the HE I far above the solar limb. This project will support extended analysis and interpretation of this transient coronal constituent.

National Aeronautics & Space Administration \$138,673

Interannual Variability of Ocean Vector Winds Near Ocean Fronts and Coastal Orography

Xie, Shang-Ping Department of Meteorology

We study interannual variability of ocean vector winds observed by satellites and their role in ocean-atmosphere interactions, with a focus on narrow-scale features not resolved by traditional climate datasets.

National Aeronautics & Space Administration \$1,157,000

Data-Intensive Research and Model Development at the International Pacific Research Center (IPRC)

Hamilton, Kevin P School of Ocean and Earth Science and Technology

To enhance the research conducted at the IPRC to study the Pacific climate variability and processes, Pacific Ocean circulation and its roles in climate and Asian-Australian monsoon system (A-AMS).

National Aeronautics & Space Administration \$92,406

Remote Sensing Studies of Lunar Pyroclastic Deposits

Hawke, Bernard Ray Hawaii Institute of Geophysics and Planetology

This is a proposal to use a variety of remote sensing data to investigate lunar pyroclastic deposits.

National Science Foundation

National Science Foundation \$100,000

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 \$133,000

University of Hawaii Partnership with the NSF I/U CRC for Telecommunication Circuits and Systems at Arizona State University

Iskander, Magdy F. Hawaii Center for Advanced Communications

This is a collaborative research effort between the University of Hawaii and four other universities including ASU, UA, RPI, and the Ohio State University. Requested funds will support faculty research and graduate students projects.

National Science Foundation \$49,988

EAGER: TC: Collaborative Research: Experimental Study of Accountability in Existing Anonymous Networks

Dong, Yingfei Department of Electrical Engineering

Computer network security, digital forensics, tracing back, accountability.

Gifts, Grants, and Contracts for September 2010

Research

National Science Foundation

National Science Foundation \$33,115

OCEAN ACIDIFICATION - Category 1: COLLABORATIVE RESEARCH: Acclimation and Adaptation to Ocean Acidification of Key Ecosystem Components in the California Current System

McManus, Margaret Anne Department of Oceanography

Whether or not marine organisms have the capacity to respond to ocean acidification via physiological acclimatization or evolutionary change has emerged as a central question in climate change research. We propose to establish a consortium to address this critical question in the coastal California current system.

National Science Foundation \$13,276

Collaborative Research: WSC-Category 1 - Linking Freshwater Inputs to Ecosystem Functioning and Services Provided by a Large Mangrove Estuary

Ho, David Department of Oceanography

Develop an integrated framework for assessing changes in ecosystem functioning and services as a result of water management practices and climate change.

National Science Foundation \$136,764

ARI-MA: Use of Laser Cooling to Extend the Peak Current and Duty Cycle of Microwave Thermionic Guns.

Madey, John M J Department of Physics and Astronomy

The proposed research will explore the use of laser-induced cooling of the surface of the lanthanon hexaboride cathodes used in the accelerator system being used of the research funded by NSF grant CMMI-0938976.

National Science Foundation \$219,164

ARI-MA Improved Detection of Fast Neutrons and Special Nuclear Material (SNM)

Vahsen, Sven E Department of Physics and Astronomy

Investigate a new approach to fast neutron detection that utilizes two new detector technologies that we have experience with from experimental particle physics: Gas Electron Multipliers and Silicon Pixel Electronics.

National Science Foundation \$837,000

Collaborative Research: Measuring Air-Sea Gas Exchange in High Winds for Improvement of Physics-Based Air-Sea Transfer Parameterizations

Huebert, Barry J Department of Oceanography

We propose to measure the uptake and release of CO₂ and DMS by the oceans in high winds. Polar regions are thought to be major CO₂ sinks, so climate models need observations of uptake during high-wind storms to make realistic forecasts for policy makers.

National Science Foundation \$457,490

Collaborative Research: Automated Continuous Measurement of CFC and SF₆ Saturations in Surface Waters

Ho, David Department of Oceanography

Trace gas saturation for CFCs and SF₆ will be made on cruises in the Pacific and Atlantic Oceans.

National Science Foundation \$442,738

A Cluster Randomized Study of Heuristic Teaching vs. Intelligent Tutoring for Community College Students with Disabilities in Algebra

Stodden, Robert A Center on Disability Studies

Pathways to STEM: Postsecondary Math Intervention Research project's goal is to ensure early academic success and persistence in science, technology, engineering and mathematics disciplines by postsecondary students with disabilities through mathematics interventions in college algebra courses.

Gifts, Grants, and Contracts for September 2010

Research

National Science Foundation

- National Science Foundation \$682,069
Redox Dynamics Resulting from Chemical and Physical Fluxes in Surficial Permeable Sediments
Glazer, Brian Department of Oceanography
Understand the interaction between biogeochemical recycling in permeable sediments and the overlying water column in nearshore systems.
- National Science Foundation \$398,318
Intra-Seasonal to Decadal Variability and Role of Eddies in the Low-Latitude Western Boundary Current off the Philippines
Qu, Tangdong Department of Oceanography
We propose a study that focuses on the low-latitude western boundary current off the Philippines: Its intraseasonal to decadal variability and mechanisms responsible for this variability using available observations and results from high-resolution GCMs.
- National Science Foundation \$75,000
Collaborative Research: Factor-Graph Approach to Monitoring and Failure Assessment in Smart-Grid Networks
Kavcic, Aleksandar Department of Electrical Engineering
Modeling a factor graph associated with a micro-grid, including electric, load, wind and solar interactions. Developing belief propagation algorithms for monitoring. Assuring secure communication of messages.
- National Science Foundation \$125,001
RAPID: Funds to Complete Seafloor CORK Instrument Sleds for Imminent Deployment
Cowen, James P Department of Oceanography
Funds requested to complete the fabrication of 3 instrument sleds for deployment at North Pond in the Fall, 2011.
- National Science Foundation \$85,617
A Comprehensive Study of Chemical Evolution in Galaxy Mergers
Kewley, Lisa J Institute for Astronomy
Galaxy interactions and mergers are fundamental to the formation and evolution of galaxies. We propose to exploit a new technique to systematically probe the major gas flows in galaxy mergers: metallicity gradients.
- National Science Foundation \$103,418
The Next Generation of Supernova Cosmology
Tonry, John L Institute for Astronomy
This project will take the next step in using Type Ia supernovae to take the next step in studying dark energy. By exploiting the remarkable combination of field of view and collection aperture of the Pan-STARRS survey system this project will increase the sample size 30-fold in the next four years.
- National Science Foundation \$390,849
Viral Contributions to Summer Bloom Dynamics in the Western Antarctic Peninsula
Steward, Grieg F Department of Oceanography
Will look at abundance, diversity of viruses in the Antarctic Peninsula and determine their contribution to the mortality of marine phytoplankton and bacteria.
- National Science Foundation \$490,200
Collaborative Research: Historic Perspectives on Climate and Biogeography from Deep-Sea Corals in the Drake Passage
Waller, Rhian Department of Oceanography
Deep-water corals straddle the Southern Ocean, from the Argentinian to the Antarctic continental shelf. The

Gifts, Grants, and Contracts for September 2010

Research

National Science Foundation

skeletons of these corals hold vital data on historic water masses, yet so little is known about their biogeography. We are proposing a 41 day cruise to map and collect corals that live across the Drake.

National Science Foundation \$23,512

Collaborative Research: Rapid Response to a Submarine Eruption at W. Mata Volcano

Rubin, Kenneth H Department of Geology and Geophysics

This project will fund shipboard and shore-based research on two submarine volcanic eruptions in the Lau basin, south of Samoa.

National Science Foundation \$47,525

IUCRC Center for Bioenergy Research and Development

Turn, Scott Q Hawaii Natural Energy Institute

Conduct bioenergy related research and development in accordance with Industry/University Cooperative Research Center program's Center for Bioenergy Research and Development.

US Colleges and Universities

Arizona, University of \$88,719

Vegetation Phenology and Vegetation Index Products from Multiple Missions and Satellite Sensors

Miura, Tomoaki Department of Natural Resources and Environmental Management

Characterize the potential impacts of spectral bandpass differences across multi-sensors (AVHRR, MODIS, and VEGETATION) on the derived phenology and EVI/EVI-2 products, and derive spectral transformation equations accompanied with associated uncertainties. Assemble and stage 1 km daily MODIS data and limited sets of daily 1 km AVHRR and SPOT-4 VEGETATION data for regional-scale analyses (the conterminous USA). Assist in deriving a moderate resolution (500 m or 1 km), regional phenology product using daily 1 km MODIS reflectances with limited sets of daily 1 km AVHRR and SPOT-4 VEGETATION reflectances.

California Irvine, University of \$323,284

Single-Cell Technology for Analyzing Spatial Expression of Burkholderia pseudomallei Genes

Hoang, Tung Thanhthanh Department of Microbiology

This research propose to develop single cell RNA amplification technology and to apply it for global gene expression of the bacteria pathogen, Burkholderia pseudomallei.

California San Francisco, University of \$146,736

Peripheral Reservoir of HIV DNA in Monocytes Pivotal to Cognition in HIV

Shikuma, Cecilia M Department of Medicine

To provide the laboratory work and logistical support for this research project.

Colorado, University of \$111,605

The Impact of an Environmental and Curriculum Change on Children's Obesity Related Behaviors

Nigg, Claudio R Office of Public Health Studies

This is a subcontract for a part of the physical activity curriculum, the process evaluation and biostatistics for a project promoting physical activity in elementary school children. It is a project investigating the interaction of curriculum and playgrounds.

Gifts, Grants, and Contracts for September 2010

Research

US Colleges and Universities

Harvard University		\$305,178
<u>Networking Research Resources Across America</u>		
Yanagihara, Richard	Department of Pediatrics	
The objective of this multi-institutional proposal is to identify and curate unique animal, clinical and biospecimen resources to encourage interdisciplinary collaboration and scientific exchange among institutions across America.		
Minnesota, University of		\$661,418
<u>Mechanisms of Ethnic Differences in Lung Cancer Due to Cigarette Smoking</u>		
Le Marchand, Loic	Cancer Research Center	
This study will examine genetic factors for ethnic differences in the metabolism of nicotine and tobacco carcinogens and its relation to the risk of lung cancer.		
Pittsburgh, University of		\$49,653
<u>Expansion and Synergistic Use of the ASTER Urgent Request Protocol (URP) for Natural Disaster Monitoring and Scientific Analysis</u>		
Harris, Andrew J.L.	Hawaii Institute of Geophysics and Planetology	
To detect and report on volcanic eruptions using satellite data.		
Pittsburgh, University of		\$12,750
<u>An Objective Measure of Physical Activity in the DPPOS: The Accelerometry Ancillary Study</u>		
Arakaki, Richard F	Department of Medicine	
Ancillary Study of the Diabetes Prevention Program Outcomes Study in which physical activity will be assessed using accelerometers. Study protocol includes initializing and downloading data from accelerometers which capture physical activity data worn by participants. Participants will be given small compensation.		
Utah State University		\$47,217
<u>Voluntary Long-Term Protection of Agricultural Land in Hawaii</u>		
Bowen, Richard L	Department of Natural Resources and Environmental Management	
Research, using personal interviews, will be conducted to determine attitudes of landowners toward two voluntary long-term programs for protecting agricultural land. Training will be provided to agricultural professionals on the use of these programs.		
Utah State University		\$92,991
<u>Control of Bacterial Wilt of Ginger through an Integrated Pest Management Program</u>		
Miyasaka, Susan C	Department of Tropical Plant and Soil Sciences	
Edible ginger is a high-value crop in Hawaii. Bacterial wilt of ginger (caused by <i>Ralstonia solanacearum</i> race 4) has caused a precipitous decline in production since 1992-93. The overall project objective is to restore ginger production in Hawaii through development and demonstration of sustainable farming practices.		

Subcount: 168

Subtotal: \$57,449,660

Gifts, Grants, and Contracts for September 2010

Non-Research

DA-Dept of Agriculture

Agriculture, Dept - FED	\$1,531,737
<u>University of Hawaii Agribusiness Education, Training and Incubator (AETI) Project</u>	
Kinoshita, Charles M	College of Tropical Agriculture and Human Resources
Expand local agricultural and food production through more productive agribusinesses and develop the local agricultural and food production workforce through education and training.	
Agriculture, Dept - FED	\$235,371
<u>Crop Insurance Education for Hawaii's Producers 2010-2011</u>	
Nakamoto, Stuart T	Department of Human Nutrition, Food and Animal Sciences
Prepare educational materials, deliver presentations, workshops, and small group/one-on-one assistance on crop insurance and risk management.	
Agriculture, Dept - FED	\$29,194
<u>Borlaug Global Alliance Fellow from Ghana</u>	
Sipes, Brent S	Department of Plant and Environmental Protection Sciences
A Ghanaian Global Research Alliance Fellow will obtain knowledge on cropping systems and greenhouse gas (GHG) emissions. The Fellow will learn sustainable strategies for cropping systems management that reduce GHG emission and ensure economic improvement for farmers.	
Agriculture, Dept - FED	\$61,820
<u>Inoculated Deep Litter System (IDLS) Expansion, Renovation and Education Program</u>	
Duponte, Michael W	Department of Human Nutrition, Food and Animal Sciences
An existing inoculated deep litter system (IDLS) piggery will be expanded and a small-scale conventional piggery will be renovated to incorporate the IDLS concepts, which will enhance nutrient (waste) management. An extension workshop will be held for Pacific Rim educators to learn to apply this best management practice.	
Agriculture, Dept - FED	\$15,000
<u>Sustain Hawaii Conservation Alliance</u>	
Kaneshiro, Kenneth Y	Pacific Biosciences Research Center
Sustain the Hawaii Conservation Alliance by organizing the Hawaii Conservation Conference; organizing workshops utilizing Hawaii's available research resources & publishing results; and developing efficient communication of relevant research findings to the manager's of Hawaii's natural resources.	
Agriculture, Dept - Ntrl Resources Conservation Svc -FED	\$75,000
<u>An Innovative Cover Cropping System for Organic Cucurbit Growers in Hawaii: From Nematode and Pickle Worm Management, Improvement of Pollinator Habitat to Soil Conservation</u>	
Wang, Koon-Hui	Department of Plant and Environmental Protection Sciences
Develop cover cropping system for nematode and pickle worm management, improvement of pollinator habitat and soil conservation.	

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Ctrs for Disease Cntrl & Prvntn (CDC)	\$794,284
<u>Pacific Center of Excellence in the Elimination of Disparities</u>	
Palafox, Neal A	Department of Family Medicine and Community Health
Provide infrastructure and technical assistance to the Pacific populations to 1) implement the respective strategies within the comprehensive cancer plans as they relate to breast and cervical cancer 2) Work with the ISAPI population in Hawaii and 3) serve as a national resource center.	

Gifts, Grants, and Contracts for September 2010

Non-Research

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Hlth Res & Svcs Adm (HRSA)	\$891,135
<u>Model State-Supported Area Health Education Center</u>	
Withy, Kelley Marie	Department of Complementary and Alternative Medicine
Improve diversity, distribution, and quality of the health professions workforce.	
Health & Human Svc, Dept - Hlth Res & Svcs Adm (HRSA)	\$269,634
<u>Pacific Simulation Training Centers</u>	
Withy, Kelley Marie	Department of Complementary and Alternative Medicine
The Hawaii/Pacific and Guam AHEC programs will collaborate to establish seven regional simulation centers for training in health care services including nursing, medical technician, pharmacy technician, medical and interdisciplinary training and clinical updates such as disaster preparedness skills.	
Health & Human Svc, Dept - Hlth Res & Svcs Adm (HRSA)	\$74,991
<u>IDT Team Training to Improve Nursing Home Patient Care for Eating Problems</u>	
Bell, Christina	Department of Geriatric Medicine
The proposed plan will allow me to develop skills in interdisciplinary team training, culturally sensitive teaching, health care delivery, and to improve the nursing home care of patients with eating problems.	
Health & Human Svc, Dept - Hlth Res & Svcs Adm (HRSA)	\$198,000
<u>Increasing Advanced Nursing Education and Practice in Hawaii</u>	
Boland, Mary G	School of Nursing and Dental Hygiene
To build educational capacity to meet the needs of the state of Hawaii for nurse practitioners competent to deliver care in rural and urban settings.	
Health & Human Svc, Dept - Hlth Res & Svcs Adm (HRSA)	\$198,000
<u>Addressing Disparities through a Rural Trans-Professional Health Workforce Training Center</u>	
Hixon, Allen	Department of Family Medicine and Community Health
This program will develop a model rural interdisciplinary health professions training center rooted around a family medicine residency program intended to address health disparities and workforce shortages.	
Health & Human Svc, Dept - Hlth Res & Svcs Adm (HRSA)	\$300,000
<u>Educational Equipment to Enhance Advanced Education in Nursing</u>	
Wong, Lorrie C K	Department of Nursing
Application for equipment to enhance education and training of advanced education of nurses.	
Health & Human Svc, Dept - Hlth Res & Svcs Adm (HRSA)	\$300,000
<u>Educational Equipment to Enhance Baccalaureate Clinical Educational Experiences</u>	
Wong, Lorrie C K	Department of Nursing
Application for equipment to enhance education and training of undergraduate baccalaureate nursing students.	
Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$503,876
<u>Nutritional & Behavioral Cancer Prevention in a Multiethnic Population</u>	
Maskarinec, Gertraud	Cancer Research Center
Grant will support postdoctoral training in cancer prevention and control research led by faculty at the Cancer Research Center of Hawaii and collaborators elsewhere at the University and health care organizations in Honolulu.	

Gifts, Grants, and Contracts for September 2010

Non-Research

DHHS-Dept of Health and Human Services

- Health & Human Svc, Dept/NIH - Natl Cancer Institute \$17,872
Nutritional & Behavioral Cancer Prevention in a Multiethnic Population
Maskarinec, Gertraud Cancer Research Center
Grant will support postdoctoral training in cancer prevention and control research led by faculty at the Cancer Research Center of Hawaii and collaborators elsewhere at the University and health care organizations in Honolulu.
- Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources \$128,551
Pacific Education and Research for Leadership in Science (PEARLS)
Withy, Kelley Marie Department of Complementary and Alternative Medicine
To increase science knowledge and interest in science careers through an inquiry based science curriculum for 7th and 8th grade students in the Pacific region. Additional funding is requested for travel, curricular supplies and staff time to provide teacher training in the rural and isolated areas of the Pacific. The planned activities include expanded foundational science teacher education and train-the-trainer seminars.
- Health & Human Svc, Dept/NIH - Natl Inst of Diabetes,Digestive,Kidney Dis \$1,964
Multimedia Intervention to Motivate Ethnic Teens to be Designated Organ Donors
Albright, Cheryl L. Cancer Research Center
Recruit teen groups from church and high school clubs, n = 38 groups; 500 teens, Deliver Interactive Multimedia Intervention to clubs in this condition and deliver comparison intervention - on prevention of Underage Drinking of Alcohol - for this condition. Assess designated organ donor status on driver's license/ID and family discussions.

DOC-Dept of Commerce

- Commerce, Dept - Minority Business Dev Agency-FED \$59,413
Honolulu Minority Business Enterprise Center
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 business enterprises located in Hawaii.
- Commerce, Dept - Natl Telecom & Information Adm \$1,949,360
Access for All: Hawaii Statewide Public Computing Centers
Lassner, David K Information Technology Services
Provide public computing facilities and wireless access in community colleges, public libraries and education centers on all islands throughout the State of Hawaii.
- Commerce, Dept - Natl Telecom & Information Adm \$33,972,800
Ke Ala 'Ike: Connecting Hawaii's Public Schools, Community Colleges, Universities and Libraries
Lassner, David K Information Technology Services
Provide/upgrade fiber optic connections and associated networking equipment at all University of Hawaii Community colleges, universities and educational centers, all Hawaii Public Schools and all Hawaii Public Libraries.
- Commerce, Dept/NOAA - Natl Marine Fisheries Svc \$74,474
Multicultural Marine Conservation Exchange
Peck, Sara J Sea Grant College Program
To improve communication networks among different Pacific Islander groups while also promoting science-based management of fishery resources on the island of Hawaii.

Gifts, Grants, and Contracts for September 2010

Non-Research

DOI-Dept of Interior

Interior, Dept - National Park Service	\$5,400
<u>Support for a Coordinator for the Coordinating Group on Alien Pest Species</u>	
Duffy, David C	Department of Botany
Assist the Coordinating Group on Alien Species with collaborative projects to reduce invasive species in Hawaii	
Interior, Dept - National Park Service	\$19,000
<u>Prepare Archaeological Overview and Assessment for National Park of American Samoa</u>	
Bayman, James	Department of Anthropology
The research project is designed to assist the National Park Service with their management of archaeological resources in the National Park of American Samoa. The research is focused on developing an annotated bibliography of previous archeological studies in the park, and acquiring copies of selected documentation.	
Interior, Dept - National Park Service	\$10,000
<u>Publication of Past Cooperative Ecosystem Studies Unit Reports as Part of the Pacific Cooperative Studies Unit/Hawaii-Pacific Islands CESU Technical</u>	
Duffy, David C	Department of Botany
Prepare final reports for previous Cooperative Ecosystem Studies Units projects for publication online, including peer reviews and editing.	
Interior, Dept - National Park Service	\$7,000
<u>Support of the Hawaii-Pacific Islands Cooperative Ecosystem Studies Unit</u>	
Duffy, David C	Department of Botany
Support the coordination of the Hawaii-Pacific Islands Cooperative Ecosystem Studies Unit.	
Interior, Dept - National Park Service	\$6,000
<u>Georeference Historical Aerial Photos of the Ala Kahakai NGT and Pu'uhonua o Honaunau NHP</u>	
Mohammed, Ghouse Salim	Library
The project involves georeferencing 60 aerial photographs. Georeferencing is the process of adding latitude and longitude points so that it can be used in a Geographic Information System.	
Interior, Dept - U.S. Geological Survey	\$53,281
<u>Biodiversity Research Program</u>	
Sakamoto, Clyde M	Chancellor, University of Hawaii Maui College
This cooperative agreement will allow USGS to co-locate at Maui Community College and involve students, faculty and staff to participate in biodiversity research and fieldwork including the modeling of spatial data.	

ED-Dept of Education

Education, Dept - FED	\$425,000
<u>Culturally Responsive Response to Intervention Strategies</u>	
Stodden, Robert A	Center on Disability Studies
Project will serve up to 500 Native Hawaiian (NH) youth in grades 7-12 who have been inappropriately or are at risk of being identified as eligible for special education services under the requirements of the Individuals with Disabilities in Education Act (IDEA) and are most at risk of school failure.	

Gifts, Grants, and Contracts for September 2010

Non-Research

ED-Dept of Education

Education, Dept - FED \$605,713

STEM Scholars Program: A Proposal to Grow, Extend, and Disseminate Native Hawaiian Excellence in STEM Education

Kaakua, Joshua College of Engineering

Activities to increase participation of Native Hawaiians in Science, Technology, Engineering, and Mathematics including outreach, high school workshops, bridge programs, student internships, and student stipends.

Education, Dept - FED \$1,500,000

Ka Huli Ao Center for Excellence in Native Hawaiian Law

Soifer, Aviam William Richardson School of Law

To continue program objectives and activities to enable the Center to further its mission to educate all the people of Hawaii on legal issues of particular significance to the Native Hawaiian Community.

Education, Dept - FED \$500,000

The Henry Ku'ualoha Giugni Digital Archives

Lee, Christopher Paul Academy for Creative Media

HKG Digital Archives will build upon and implement the best practice findings of the HKG Digital Archive's consultant's report on the state of Hawaii's audio-video history, and the lessons of the HKG Digital Archives Beta Pilot Project to realize the first dedicated facility to save the rapidly deteriorating and increasingly obsolete moving image history of Hawaii.

Education, Dept - FED \$332,664

TRIO Student Support Services

Furuno, Nora M Chancellor, Kapiolani Community College

Provide services to low income, first generation and/or students with disabilities to persist, remain in good academic standing, graduate and graduate and transfer to a four year educational institution.

Education, Dept - FED \$1,035,740

Heluhelu Maoli: Building Strong Foundations in Reading and Mathematics

Lai, Morris K Curriculum Research and Development Group

Heluhelu Maoli is a three-year project designed to provide strategic supports that build foundational concepts and knowledge in K-3 Hawaiian students. The project identifies struggling students, provides interventions for them and assists them before they fall behind, and uses high-quality instruction for all students.

Education, Dept - FED \$637,174

Hui Manawa Kupono

Maglaya, Michael H College Opportunities Program

The project will increase postsecondary access for Native Hawaiian (NIH) high school students from at-risk communities throughout Hawaii, provide financial assistance and academic support to undergraduate and graduate students at the UHM, and increase the retention and graduation rates of NIH students attending UHM.

Education, Dept - FED \$340,903

Kahuwai Ola: Supporting Native Hawaiian Undergraduate STEM Scholars at UH Manoa

Gomes, Lenore K Vice President for Student Affairs

Kahuwai Ola will increase the retention and graduation of Native Hawaiian undergraduate students in Science, Technology, Engineering, and Mathematics degrees, and increase their entry into graduate programs through the provision of scholarship support and the establishment of a faculty/student mentoring program.

Gifts, Grants, and Contracts for September 2010

Non-Research

ED-Dept of Education

Education, Dept - FED	\$827,855
<u>Kako'o Ikaika: Supporting Adolescent Hawaiian Students to Achieve High Standards</u>	
Lai, Morris K	Curriculum Research and Development Group
Kako'o Ikaika is a three-year project designed to help six secondary schools with large numbers of Native Hawaiian students to achieve high standards and graduation rates. The project will help build a school-wide model that provides a multi-tiered system for literacy and behavior supports.	
Education, Dept - FED	\$593,464
<u>Waianae Program for Afterschool Literacy Support (W-PALS)</u>	
Fukuda, Kay L	Student Equity, Excellence, and Diversity
W-PALS will implement an afterschool literacy program in 5 elementary schools in Waianae that emphasizes place-based educational curriculum and instructional strategies to improve student academic outcomes.	
Education, Dept - FED	\$397,454
<u>Kulia I Ka Nu'u (Strive for the Summit: Culturally Responsive, Place-based Professional Development in Science for Native Hawaiian Students)</u>	
Chinn, Pauline W	Department of Curriculum Studies
Professional development project will provide EDCS 433 and EDCS 450, (6 credits) curriculum courses for in-service K-12 science teachers. Courses will provide culturally relevant, place and standards-based content and pedagogy and culture-science immersions led by Native Hawaiian instructors.	
Education, Dept - FED	\$301,315
<u>Student Support Services Program, fy 09</u>	
Johnson, Melissa	Vice Chancellor for Student Affairs-UHH
Education, Dept - FED	\$358,439
<u>First Step to Success</u>	
Johnson, Jean Lee	Center on Disability Studies
The goal of this proposed project is to reduce the frequency of antisocial behaviors exhibited by at-risk children thus positively impacting their academic success through the implementation of the First Step to Success early intervention program.	
Education, Dept - FED	\$1,500,000
<u>Clinical Pharmacy Training Program Fy 2011</u>	
Pezzuto, John	College of Pharmacy-UHH
Significantly enhance the clinical pharmacy training programs conducted by UHH	
Education, Dept - FED	\$1,289,683
<u>Liko A'e III: Native Hawaiian Scholarship Program (YR 3)</u>	
Sakamoto, Clyde M	Chancellor, University of Hawaii Maui College
The Liko A'e III Native Hawaiian Scholarship program proposes to provide scholarship to Native Hawaiian students here and in other US States pursuing higher education.	

Gifts, Grants, and Contracts for September 2010

Non-Research

ED-Dept 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	\$7,500
<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.	
Education, Dept - FED	\$74,594
<u>Khmer Folktales Online: tales of the Hare 9web-based and DVD)</u>	
Sak-Humphry, Chhany	Department of Indo-Pacific Languages and Literatures
Develop instructional materials Khmer Folktales Online: Tales of the Hare in web-based and DVD formats	
Education, Dept - FED	\$220,000
<u>University of Hawaii McNair Student Achievement Program</u>	
Goo, Maile S.	Vice Chancellor for Student Affairs
The University of Hawaii at Manoa submits a new Ronald E. McNair Postbaccalaureate Achievement Program proposal to address the graduate degree attainment of first generation, low income students, and underrepresented groups. This undertaking is designed to strengthen student preparation for graduate school admission.	
Education, Dept - FED	\$382,580
<u>Pono School Climate Project</u>	
Roberts, Kelly D	Center on Disability Studies
The project's vision is to use Native Hawaiian cultural values to create safe and nurturing learning environments where all students achieve high academic standards, choose to remain in school, attain skills necessary to reach their goals and meet their potential, and are contributing members of society.	
Education, Dept - FED	\$371,581
<u>"I" in the IEP</u>	
Roberts, Kelly D	Center on Disability Studies
To improve outcomes for Native Hawaiian youth with disabilities through the development and testing of two interventions designed to equip educators, administrators and parents with necessary tools to support Native Hawaiian students with disabilities to engage within and benefit from the process of developing their own Individualized Education Plans (IEPs).	
Education, Dept - FED	\$424,873
<u>Ka'imi loa o ka hihi Project: Math and Science WebQuests</u>	
Stodden, Norma Jean	Center on Disability Studies
This project will develop standards-based math and science WebQuests (WQs) for grades 4 - 7 to increase the academic achievement of Native Hawaiian students at-risk and with disabilities.	

Gifts, Grants, and Contracts for September 2010

Non-Research

ED-Dept of Education

Education, Dept - Ofc of Postsecondary Ed-FED \$226,599

The University of Hawaii at Manoa Educational Talent Search Program (METS)

Goo, Maile S. Vice Chancellor for Student Affairs

The University of Hawaii at Manoa Education Talent Search program will serve 600 participants from 3 schools in the Leeward district of Oahu. Two-thirds of participants will be low-income families and will be potential first-generation college students. Comprehensive educational support services will be provided to ensure education success.

Education, Dept - Student Support Svcs Prog-FED \$254,371

Maui Community College Student Support Services Program

Tagomori, Alvin R Chancellor, University of Hawaii Maui College

The purpose of the Student Support Services Program will be to increase the college program retention, completion, graduation, and transfer rates in low-income, first generation, and disabled SSSP participants. The program will provide comprehensive support services for 160 students.

Federal Agencies

Environmental Protection Agency \$17,000

Resilience and Acclimatization Potential of Reef Corals Under Predicted Global Climate Change Stressors

Gates, Ruth D Hawaii Institute of Marine Biology

EPA STAR scholarship to support Hollie Putnam to conduct Ph.D. research aimed at examining the potential for corals to acclimatize to climate change stressors (increased temperature and ocean acidification).

Homeland Security, Dept - Fed Emer Mgmt Agcy (FEMA) \$4,800,000

FY10-Homeland Security National Training Program-National Disaster Preparedness Training Center, University of Hawaii

Kim, Karl E Department of Urban and Regional Planning

Develop and deliver all hazards training for Department of Homeland Security/FEMA related to disaster response recovery and preparedness for Hawaii, Pacific Islands and coastal communities, incorporating urban planning and needs of at-risk vulnerable populations.

Justice, Dept - Office of Justice Programs-FED \$300,000

Hawaii Innocence Project

Hench, Virginia Department of Family and Consumer Sciences

Provide legal assistance, free of charge, to prisoners who have a credible claim of actual innocence of the crime(s) for which they are imprisoned.

National Fdn on the Arts & Humanities-Natl Endow for the Humanities \$270,000

Digital Access to Hawaii Newspapers

Hori, Joan Library

Project will digitize (image, convert to text, mark-up) and submit to the Library of Congress National Digital Newspaper Project important English language newspapers-spanning the kingdom, republic, and territorial history of Hawaii. Deliverables will be 100,000 microfilmed newspaper pages, published between 1836-1922.

Gifts, Grants, and Contracts for September 2010

Non-Research

Foreign

American Samoa, Govt of \$25,000

American Samoa Newborn Hearing Screening Evaluation

Johnson, Jean Lee Center on Disability Studies

Principal Investigator will be conducting the evaluation on two grants received by the American Samoa Department of Health. Both are federally funded grants to establish a newborn hearing screening program and to implement a tracking system for the identified infants.

American Samoa, Govt of \$17,000

Pacific Regional Comprehensive Cancer Control Implementation Program (subcontract from American Samoa Department of Health)

Palafox, Neal A Department of Family Medicine and Community Health

Implement the Pacific Regional Comprehensive Cancer Control Program in conjunction with the USAPI jurisdictions; develop a shared cancer resource for use by the jurisdictions; conduct relevant training for health providers; build capacity and policies relevant to cancer control.

Commonwealth of Northern Mariana Islands \$101,695

CNMI Health Information Exchange, Health Information Technology and Electronic Health Record Project

Okamura, Norman H Social Science Research Institute

Assist planning Committee on HIT/EHR readiness study, assess the RPMS for local use; Prepare specs for CONNECT systems & interfaces; Recommend & draft governance model for long term operations & sustainability; Develop a network plan for HIE connectivity with local and NHIN to be HIPAA compliant.

Hans Rausing Endangered Languages Proj \$15,149

Documentation and Description of Kove - Student H. Sato

Blust, Robert Andrew Department of Linguistics

This project focuses on documenting Kove (ISO639-3:kvc), spoken in Papua New Guinea. The goal of this project is to build a corpus of Kove, and to produce a grammar and a small dictionary that may serve as the basis for educational materials.

High Energy Accelerator Research Orgn (KEK) \$22,900

KLM Scintillator Readout System

Varnier, Gary S Department of Physics and Astronomy

Fabrication, assembly, test, and delivery of a KLM Scintillator Readout System. Task includes testing, documentation, and extensive engineering application support.

Hawaii- Business and Other

Alu Like, Inc \$305,129

Alu Like, Inc., Native Hawaiian Career Technical Education Program - Poina Nalu

Matsui, Sandra Y Chancellor, Honolulu Community College

To increase the enrollment, retention and completion of Native Hawaiians in career technical education programs.

Alu Like, Inc \$297,636

Hooulu Project

Goodman, James Chancellor, Leeward Community College

To improve career and technical education services for Hawaiian natives

Gifts, Grants, and Contracts for September 2010

Non-Research

Hawaii- Business and Other

Alu Like, Inc		\$249,767
<u>Native Hawaiian Digital Arts Project</u>		
Kimura, Guy	Chancellor, Hawaii Community College	
The project proposes to teach digital arts courses to Native Hawaiian students for the recruitment, retention and completion of Native Hawaiian students into the DMA program at Hawaii CC.		
Alu Like, Inc		\$272,765
<u>Alu Like FY2009, Native Hawaiian Career and Technical Education, Kulia Ma Kapiolani Project (Year 3)</u>		
Lee, Mona	Chancellor, Kapiolani Community College	
Offer a suite of culturally-based services to students that recruit, enroll, and support academic completion of career and technical education degrees and certificates. Partner with Castle High School's Health Career Academy Project to create a clearly defined pathway from high school to college and to related employment in the career pathway.		
East West Center		\$21,568
<u>National Transfers Account</u>		
Mason, Andrew W	Department of Economics	
Evaluate National Transfers Account (NTA) that have been constructed in Taiwan, update and maintain NTA database, and develop tools for constructing reports using NTA database.		
Oceanit Laboratories, Inc		\$29,633
<u>Ocean Engineering Internship</u>		
Cheung, Kwok Fai	Department of Ocean and Resources Engineering	
Internship program for graduate students in Ocean and Resources Engineering.		

Hawaii- Dept of Education

Education, Dept - HI		\$223,339
<u>National Resource Center for Southeast Asian Studies at the University of Hawaii</u>		
O'Harrow, Stephen D	Center for Southeast Asian Studies	
The grant will support academic and scholarship programs in Southeast Asian Studies at the University of Hawaii		

Hawaii- Government Agencies

Business, Econ Dev & Tourism, Dept (DBEDT) - HI		\$200,000
<u>Understanding and Communicating the Environmental Impacts of Seawater Air Conditioning in Waikiki</u>		
Grau, E Gordon	Sea Grant College Program	
Understanding and Communicating the Environmental Impacts of Seawater Air Conditioning in Waikiki relative to conventional air conditioning and other renewable technology options.		
Defense, Dept - Civil Defense-HI		\$20,000
<u>Tsunami Observer Program, Phase 2</u>		
Moravcik, Philip S	Water Resources Research Center	
To coordinate, update, train, and supply Tsunami Observer's throughout the state of Hawaii. The goal is to safely and accurately record data of a tsunami, as it occurs, and to acquire post-tsunami run-up and inundation data. This data is vital to modeling, establishing and refining the State Tsunami Evacuation Maps.		

Gifts, Grants, and Contracts for September 2010

Non-Research

Hawaii- Government Agencies

Hawaiian Affairs, Office of-HI	\$1,231,140
<u>Na Pua Noeau FY 2011</u>	
Sing, David K	Vice Chancellor for Student Affairs-UHH
Center for Gifted and Talented Native Hawaiian Children	
Health, Dept - HI	\$298,000
<u>Workforce Development Demonstration Project</u>	
Miller, Susan B	Center on Disability Studies
To foster the collaboration among University of Hawaii Center on Disability Studies, Department of Human Services, Department of Labor and Industrial Relations and Department of Health for improving employment opportunities and related supports for person with disabilities.	
Human Services, Dept - HI	\$200,000
<u>Comprehensive Deaf Center</u>	
Pagotto, Louise	Chancellor, Kapiolani Community College
KCC Deaf Center/Gallaudet University Regional Center will provide planning, research and grant writing services for laying the groundwork for a comprehensive vocational rehabilitation center for deaf, hard of hearing and deaf-blind persons.	

Hawaii- Health Organizations

Queen's Medical Center	\$90,000
<u>'Ike Ao Pono/Native Hawaiian Health Initiative</u>	
Minton, B. Nalani	School of Nursing and Dental Hygiene
Financial student and program support including academic tutor, scholarships, cultural program costs (see typical example of budget for program expenditures, including food and lei), graduation events, workshops, conferences, special projects including film, research, fundraising activities, cultural exchanges, excursions and activities.	
Rehabilitation Hospital of the Pacific	\$10
<u>Reimbursement Agreement - FY2010, Agreement No. SF10-REHAB-MED</u>	
Tam, Elizabeth K	Department of Medicine
Agreement to provide physician and physician related services for FY2010	

Hawaii- Non-Profit Organizations

Hawaii Parkinson Association	\$11,590
<u>Hawaii Parkinson Association Coordinator</u>	
Masaki, Kamal H	Department of Geriatric Medicine
S&F Agreement for Hawaii Parkinson Association for Center Coordinator 0.5 FTE	
University of Hawaii Foundation	\$25,000
<u>CEE Department Support</u>	
Papacostas, C S	Department of Civil and Environmental Engineering
Provide support to Civil and Environmental Engineering Department activities.	

Gifts, Grants, and Contracts for September 2010

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation	\$20,095
<u>Center for Creative Leadership Graduate Student Support</u>	
Bhawuk, Dharm P S	Department of Management and Industrial Relations
To support the salary and fringe for a Graduate Assistant to be mentored by Dr. Dharm Bhawuk.	
University of Hawaii Foundation	\$19,300
<u>Oio Tagging Project</u>	
Okimoto, Darren K	Sea Grant College Program
To engage an extension faculty who will conduct extension activities that focuses on bonefish.	

Mainland- Business and Other

Eli Lilly & Company	\$3,596
<u>The Impact of LY2189265 vs. Insulin Glargine in Combination with Insulin Lispro for the Treatment to Target of Type 2 Diabetes Mellitus (AWARD-4)</u>	
Arakaki, Richard F	Department of Medicine
The purpose of this study is to assess the benefits and risks of 2 doses of LY2189265 (0.75 mg/wk and 1.5 mg/wk) compared to daily basal insulin glargine in patients with type 2 diabetes who are treated in combination with	
Space Telescope Science Institute	\$100,259
<u>Hubble Postdoctoral Fellowship - Adam L. Kraus - Star Formation and the Architecture of Outer Planetary Systems</u>	
Liu, Michael C	Institute for Astronomy--Director
I will pursue two revolutionary new programs that address a proper motion survey of the internal kinematics of star-forming regions and an imaging survey that exploits new interferometric techniques.	
Space Telescope Science Institute	\$119,169
<u>Hubble Postdoctoral Fellowship: Caitlin Casey</u>	
Sanders, David Bruce	Institute for Astronomy
Hubble Postdoctoral Fellowship: Caitlin Casey: "Toward a Complete Census of Starburst Activity in the Early Universe" Year one of three.	
Space Telescope Science Institute	\$119,169
<u>Hubble Postdoctoral Fellowship - Henry Hsieh</u>	
Meech, Karen J	Institute for Astronomy
Hubble Postdoctoral Fellowship - Henry Hsieh: "A Multifaceted study of Icy Bodies in the Inner Solar System: Year one of three.	

Mainland- Health Organizations

Brigham and Women's Hospital, Inc., The	\$160,000
<u>SAVOR "Saxagliptin Assessment of Vascular Outcomes Recorded in Patients with Diabetes Mellitus"</u>	
Arakaki, Richard F	Department of Medicine
This is a multicenter, randomized, double-blind, placebo-controlled Phase IV study to evaluate if treatment with saxagliptin can reduce the composite endpoint of cardiovascular death, non-fatal MI or non-fatal ischemic stroke in patients with type 2 diabetes mellitus.	

Gifts, Grants, and Contracts for September 2010

Non-Research

Mainland- Non-Profit Organizations

Institute of International Education, Inc.	\$366,529
<u>University of Hawaii Korean Language Flagship Center - Domestic</u>	
Sohn, Ho-Min	Department of East Asian Languages and Literatures
Continue the project with the third cohort of MA students, both self-funded and supported by the National Security Education Program fellowship.	
Institute of International Education, Inc.	\$249,978
<u>University of Hawaii Korean Language Flagship Center: Overseas at Korea University</u>	
Sohn, Ho-Min	Department of East Asian Languages and Literatures
Continue the project with the second cohort of MA students at Korea University in Seoul, Korea. Provide intensive training in advanced and specific-purpose Korean to students with professional internships and specialized field study.	
Johnson (Robert Wood) Foundation	\$300,000
<u>Evaluating Innovations in Nursing Education (EIN)</u>	
Niederhauser, Victoria	School of Nursing and Dental Hygiene
Evaluating the Hawaii statewide Nursing Consortium Curriculum.	
National Academies	\$2,000
<u>Ford Foundation Fellowship for AY 2010-2011</u>	
Garrod, Peter V	Graduate and Professional Education
Cost of education awards to support award recipients.	
Western States Communication Assn	\$9,400
<u>Editor for Communication Reports (Academic Journal)</u>	
Sharkey, William	Department of Speech
Review and process new manuscripts, find & select reviewers, write decision letters, work with accepted authors to prepare manuscript for publication, work with publisher to finalize issue publications, write two reports each year	

National Aeronautics and Space Administration

National Aeronautics & Space Administration	\$270,000
<u>The Hawaii Space Grant Consortium: 2010 Augmentation Proposal</u>	
Flynn, Luke Paul	Hawaii Institute of Geophysics and Planetology
The proposed effort outlines a 5-year plan for the Hawaii Space Grant Consortium to continue its support of NASA's strategic goals, NASA science education and workforce development activities.	

National Science Foundation

National Science Foundation	\$145,218
<u>REU Site: Astronomy in Hawaii</u>	
Coleman, Paul H	Institute for Astronomy
The REU Site program at the UH Institute for Astronomy provides astronomy research experiences to undergraduate students from across the United States during a 10 week summer program. Students will conduct an individual research project while being mentored by IFA faculty, observe on one of the telescopes at Mauna Kea, and present at a national conference.	

Gifts, Grants, and Contracts for September 2010

Non-Research

National Science Foundation

National Science Foundation \$20,000

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 for intelligence-gathering scenarios. Supplement for scholarship support for two undergraduate students.

National Science Foundation \$396,208

MRI: Acquisition of a Hitachi S-3400N-II Variable Pressure Scanning Electron Microscope with an Analytical Quantitative Element Detector for UH Hilo

Adolf, Jason

Natural Sciences-UHH

Acquisition of a scanning electron microscope with quantitative elemental analysis capabilities for UH Hilo

National Science Foundation \$22,500

Support for Workshops at the 2nd International Conference on Language Documentation and Conservation (ICLDC); To Be Held in February 2011 in Honolulu, Hawaii

Thieberger, Nicholas

Department of Linguistics

This project aims to fund participants at the 2nd International Conference on Language Documentation and Conservation (ICLDC), to be held in February 2011 in Honolulu.

National Science Foundation \$4,750

2010 International Conference on Wireless Information Technology and Systems on August 28, 2010, Honolulu, HI.

Iskander, Magdy F.

Hawaii Center for Advanced Communications

This proposal will provide support (stipends) to graduate students participating in the conference (registration fees).

National Science Foundation \$999,961

Hawaii's Pre-Engineering Education Collaboration (PEEC)

Pagotto, Louise

Chancellor, Kapiolani Community College

Kapiolani CC is proposing development of a "Pre-engineering Education Collaborative" that will support 125 Native Hawaiian students completing baccalaureates at UHM College of Engineering.

National Science Foundation \$399,922

TCUP Ecological Ahupuaa Monitoring in Urban Polynesia (TEAM-UP)

Richards, Leon

Chancellor, Kapiolani Community College

To establish a Native Hawaiian student support system modeled after an ahupuaa to increase the number of Native Hawaiian graduates in Life Sciences, ASNS degrees, and to prepare students for transfer to the University of Hawaii at Manoa or Hilo.

National Science Foundation \$164,358

University of Hawaii Shipboard Scientific Support Equipment CY2010

Shor, Alexander N

School of Ocean and Earth Science and Technology

Acquisition of shipboard equipment (winches and related systems) to support oceanographic research on R/V Kilo Moana, a research vessel operated by University of Hawaii.

Gifts, Grants, and Contracts for September 2010

Non-Research

National Science Foundation

National Science Foundation \$2,500,000
University of Hawaii Ship Operations 2005-2009
Taylor, Brian School of Ocean and Earth Science and Technology
Continuation of NSF-Funded Operations of R/V Kilo Moana.

US Colleges and Universities

California San Francisco, University of \$299,700
HIV Care Services Training & Educational Services
Goshima, Cyril K Department of Medicine
HIV education for clinicians in Hawai'i and the US Pacific jurisdictions.

Language Learning Prog - Univ of Michigan \$5,300
Editor of the Journal Language Learning, Published the University of Michigan by Wiley-Blackwell Publishing, 2009-2015
Ortega, Lourdes Department of Second Language Studies
Funds to support Lourdes Ortega as incoming Editor of the journal Language Learning with editorial expenses such as office supplies, mailing and courier costs, relevant books, payment of ta graduate students as hourly assistant, and travel to and accommodations and meals at meetings and conferences to promote the journal.

Western Washington University \$47,176
Students in Service
Pascua, Atina T Service Learning
To provide opportunities for students to be involved in community service and service learning.

Subcount:	102	Subtotal:	\$70,599,568
Count:	<u>270</u>	Total:	<u>\$128,049,228</u>

Funds Received from UH Foundation for 09/01/2010 - 09/30/2010

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$20,095

"Center for Creative Leadership Graduate Student Support"

Bhawuk, Dharm P S Department of Management and Industrial Relations

To support the salary and fringe for a Graduate Assistant to be mentored by Dr. Dharm Bhawuk.

University of Hawaii Foundation \$19,300

"Oio Tagging Project"

Okimoto, Darren K Sea Grant College Program

To engage an extension faculty who will conduct extension activities that focuses on bonefish.

University of Hawaii Foundation \$25,000

"CEE Department Support"

Papacostas, C S Department of Civil and Environmental Engineering

Provide support to Civil and Environmental Engineering Department activities.

Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$24,056

"Do Invasive Macroalgae Store Arginine and Trigger Tumor-Formation in the Herbivorous Green Sea Turtle, Chelonia Mydas?"

Smith, Celia M Department of Botany

We will evaluate the impact of elevated nutrients on the health of algae that are known foods for the green sea turtle. Our hypothesis is elevated nutrients allow invasive algae to concentrate an amino acid which has been tied diseases in turtles and other animals.

Count: 4

Total: \$88,451

**Extramural Research Awards
for the Month of
September 2010
Distribution by Sponsors**

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	10	\$1,364,095	2.37%
DHHS-Dept of Health and Human Services	18	\$16,369,716	28.49%
DOC-Dept of Commerce	23	\$10,496,920	18.27%
DOD-Department of Defense	6	\$8,377,721	14.58%
DOE-Dept of Energy	9	\$5,003,149	8.71%
DOI-Dept of Interior	23	\$2,193,674	3.82%
ED-Dept of Education	2	\$866,401	1.51%
Federal Agencies	1	\$100,000	0.17%
Foreign	2	\$922,910	1.61%
Hawaii- Business and Other	5	\$161,562	0.28%
Hawaii- Government Agencies	16	\$1,612,673	2.81%
Hawaii- Non-Profit Organizations	5	\$164,481	0.29%
Mainland- Business and Other	7	\$1,003,856	1.75%
Mainland- Health Organizations	2	\$410,422	0.71%
Mainland- Non-Profit Organizations	3	\$226,668	0.39%
National Aeronautics and Space Administration	6	\$1,491,817	2.60%
National Science Foundation	20	\$4,844,044	8.43%
US Colleges and Universities	10	\$1,839,551	3.20%
Total:	<u>168</u>	<u>\$57,449,660</u>	<u>100%</u>

**Extramural Non-Research Awards
for the Month of
September 2010
Distribution by Sponsors**

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	6	\$1,948,122	2.76%
DHHS-Dept of Health and Human Services	12	\$3,678,307	5.21%
DOC-Dept of Commerce	4	\$36,056,047	51.07%
DOI-Dept of Interior	6	\$100,681	0.14%
ED-Dept of Education	24	\$13,027,502	18.45%
Federal Agencies	4	\$5,387,000	7.63%
Foreign	5	\$181,744	0.26%
Hawaii- Business and Other	6	\$1,176,498	1.67%
Hawaii- Dept of Education	1	\$223,339	0.32%
Hawaii- Government Agencies	5	\$1,949,140	2.76%
Hawaii- Health Organizations	2	\$90,010	0.13%
Hawaii- Non-Profit Organizations	4	\$75,985	0.11%
Mainland- Business and Other	4	\$342,193	0.48%
Mainland- Health Organizations	1	\$160,000	0.23%
Mainland- Non-Profit Organizations	5	\$927,907	1.31%
National Aeronautics and Space Administration	1	\$270,000	0.38%
National Science Foundation	9	\$4,652,917	6.59%
US Colleges and Universities	3	\$352,176	0.50%
Total:	<u>102</u>	<u>\$70,599,568</u>	<u>100%</u>

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

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	36	\$4,925,568	3.59%
DHHS-Dept of Health and Human Services	56	\$41,996,565	30.60%
DOC-Dept of Commerce	49	\$22,359,480	16.29%
DOD-Department of Defense	11	\$11,569,963	8.43%
DOE-Dept of Energy	15	\$8,199,873	5.97%
DOI-Dept of Interior	45	\$4,533,074	3.30%
ED-Dept of Education	2	\$866,401	0.63%
Federal Agencies	6	\$2,810,307	2.05%
Foreign	10	\$3,410,157	2.48%
Hawaii- Business and Other	8	\$460,871	0.34%
Hawaii- Government Agencies	37	\$4,274,562	3.11%
Hawaii- Health Organizations	1	\$86,738	0.06%
Hawaii- Non-Profit Organizations	19	\$664,784	0.48%
Mainland- Business and Other	15	\$1,675,120	1.22%
Mainland- Health Organizations	5	\$580,999	0.42%
Mainland- Non-Profit Organizations	14	\$451,458	0.33%
National Aeronautics and Space Administration	18	\$2,261,696	1.65%
National Science Foundation	62	\$21,685,784	15.80%
US Colleges and Universities	35	\$4,443,217	3.24%
Total:	<u>444</u>	<u>\$137,256,617</u>	<u>100%</u>

Note: YTD amounts include adjustments.

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

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	9	\$2,217,952	1.94%
DHHS-Dept of Health and Human Services	24	\$6,114,541	5.35%
DOC-Dept of Commerce	18	\$37,095,997	32.46%
DOD-Department of Defense	2	\$28,961	0.03%
DOE-Dept of Energy	1	\$750,000	0.66%
DOI-Dept of Interior	12	\$502,650	0.44%
ED-Dept of Education	56	\$25,022,243	21.89%
Federal Agencies	7	\$5,519,000	4.83%
Foreign	14	\$640,174	0.56%
Hawaii- Business and Other	25	\$3,330,825	2.91%
Hawaii- Dept of Education	3	\$612,489	0.54%
Hawaii- Government Agencies	41	\$8,863,972	7.76%
Hawaii- Health Organizations	6	\$1,131,776	0.99%
Hawaii- Non-Profit Organizations	30	\$2,528,633	2.21%
Mainland- Business and Other	7	\$544,072	0.48%
Mainland- Health Organizations	1	\$160,000	0.14%
Mainland- Non-Profit Organizations	14	\$1,220,150	1.07%
National Aeronautics and Space Administration	2	\$300,000	0.26%
National Science Foundation	30	\$16,981,581	14.86%
US Colleges and Universities	14	\$726,700	0.64%
Total:	<u>316</u>	<u>\$114,291,716</u>	<u>100%</u>

Note: YTD amounts include adjustments.