

Gifts, Grants, and Contracts for September 2009

The following gifts, grants and contracts received by all campuses during the period September 1, 2009 through September 30, 2009 total \$77,224,918.

Research

DA-Dept of Agriculture

Agriculture, Dept - Agricultural Research Svc-FED	\$179,744
<u>Environmental Effects of Tephritid Fruit Fly Control and Management</u>	
Hu, Ching Yuan	College of Tropical Agriculture and Human Resources
The approach to this project is to address the development and evaluation of currently acceptable or novel non-toxic fruit fly control strategies such as classical biological controls, post-harvest treatments, and microbial control agents.	
Agriculture, Dept - Agricultural Research Svc-FED	\$94,867
<u>Management and Control of Banana Bunchy Top Virus (BBTV) Through Resistant Cultivars</u>	
Hu, Ching Yuan	College of Tropical Agriculture and Human Resources
The overall objective of this cooperative research project is to minimize the impact of banana bunchy top virus.	
Agriculture, Dept - Agricultural Research Svc-FED	\$4,448
<u>Funding for Mutual Interest</u>	
Grace, Jack Kenneth JR	Department of Plant and Environmental Protection Sciences
Continuation of student assistant(s) at Manoa ARS facility for on-going research and grant studies.	
Agriculture, Dept - Agricultural Research Svc-FED	\$221,732
<u>Control of Minor Crop Pests and Diseases</u>	
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 - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED	\$226,546
<u>Hawaii Floriculture Research Grant - 2009</u>	
Hu, Ching Yuan	College of Tropical Agriculture and Human Resources
Develop and commercialize high yielding disease/insect resistant floral cultivars for Hawaii, address current technical constraints such as quarantine issues that limit the export of Hawaii floral and ornamental crops, develop in-field and post-harvest methodologies to eliminate invasive species.	
Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED	\$374,798
<u>Development of Combined Continuous-Flow Microwave and Pulsed Ohmic Heating Technologies for Rapid and Uniform Heating of Multiphase Foods</u>	
Jun, Soojin	Department of Human Nutrition, Food and Animal Sciences
Design a continuous flow microwave and ohmic combination heating system for particulate foods to be uniformly heat treated, ensuring food safety and quality.	
Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED	\$100,000
<u>Investigating the Application of Peptide Pesticides: Diversifying Molluscicide Targeting Capabilities and Enhancing Biodelivery</u>	
Bingham, John-Paul	Department of Molecular Biosciences and Bioengineering
Development and testing of peptide pesticides against mollusks.	
Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED	\$165,340
<u>Engineering a Signal Transduction Pathway in a Fungus for Industrial Protein Production</u>	
Cho, Yangrae	Department of Plant and Environmental Protection Sciences
This research is about re-engineering a signal transduction pathway in a fungus to utilize it for the production of hydrolytic enzymes. These enzymes will be used for simple sugar production out of biocellulose.	

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DA-Dept of Agriculture

Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED	\$197,772
<u>Using Diffuse Reflectance Spectroscopy to Quantify and Predict Soil Carbon Content in Agricultural Soils of Hawaii</u>	
Bruland, Gregory Lee	Department of Natural Resources and Environmental Management
This project will involve developing new methods to measure and quantify soil carbon. These will include Visible/near infrared and mid-infrared diffuse reflectance spectroscopy. Will we scan samples from Hawaii at the National Soils Lab in Lincoln, NE, and also collect and scan new samples from Hawaii.	
Agriculture, Dept - FED	\$80,850
<u>Sequencing of the Oriental Fruit Fly Genome</u>	
Patek, Paul Q	Department of Microbiology
Sequencing of the oriental fruit fly genome.	
Agriculture, Dept - FED	\$200,478
<u>UHM-Collaborative Effort for Evaluating Regionally Based Feedstock and Co-Products for Aquaculture and Livestock</u>	
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	\$348,461
<u>Protecting Papaya from Pests and Diseases</u>	
Vincent, Douglas L	College of Tropical Agriculture and Human Resources
Develop and evaluate non-toxic, preferably biologically-based, environmentally suitable technologies and processes for pest and disease control on papaya.	
Agriculture, Dept - FED	\$2,000
<u>Support of Agricultural Research - 2009-2</u>	
Stahl, Norman	Vice Chancellor for Student Affairs-UHH
Support for UH Hilo student assistants to conduct research on PBARC projects	
Agriculture, Dept - FED	\$64,000
<u>Ag Research of Mutual Interest, FY 2010</u>	
Stahl, Norman	Vice Chancellor for Student Affairs-UHH
Salary support for student assistants working on PBARC research projects	
Agriculture, Dept - Ntrl Resources Conservation Svc -FED	\$48,588
<u>Invasive Weed Management Strategies using Herbicide Ballistic Technology</u>	
Leary, James	Department of Natural Resources and Environmental Management
This is a new proposal that will demonstrate the utility of Herbicide Ballistic Technology eradicating incipient invasive weed populations from Hawaii's watersheds.	

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Research

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Natl Inst of Health (NIH)	\$1,830,516
<u>RCMI Clinical Research Infrastructure Initiative (RCRII)</u>	
Hedges, Jerris	John A. Burns School of Medicine
Health & Human Svc, Dept - Natl Inst of Health (NIH)	\$187,500
<u>Exploratory Studies on the Anti-Breast Cancer Function of Bamboo Extract</u>	
Panee, Jun	Department of Cell and Molecular Biology
This project aims to investigate the cellular and molecular pathways through which bamboo extract inhibits the initiation and/or promotion of chemically induced breast cancer.	
Health & Human Svc, Dept - Natl Inst of Health (NIH)	\$1,313,830
<u>Cancer Research Center of Hawaii</u>	
Carbone, Michele	Cancer Research Center
Assess current informatics systems at CRCH and develop an implementation plan for adopting in the three caBIG ₂ software bundles.	
Health & Human Svc, Dept - Natl Inst of Health (NIH)	\$232,529
<u>Administrative Supplements for: Physical Activity in Women with Infants</u>	
Albright, Cheryl L.	Cancer Research Center
The purpose of this administrative supplement is to increase recruitment efforts by targeting women who had gestational diabetes during their last pregnancy. Enrolling more women who had a history of gestational diabetes will allow us to investigate physical activity increases in this high risk populations.	
Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$1,543,339
<u>Pathogenesis of Mesothelioma (Parent Award, PO1 CA114047). Supplement title: Combinational Immunotherapy for Malignant Mesothelioma</u>	
Carbone, Michele	Cancer Research Center
Use mechanistic information developed during the studies supported by the PO1: Pathogenesis of Malignant Mesothelioma (MM) to develop novel immunotherapeutic approaches and to test whether immunotherapy can synergize with pharmacological chemotherapy to cure/improve survival of mice injected with MM cells.	
Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$100,000
<u>Hawaii Minority-Based CCOP</u>	
Cho, Jonathan	Cancer Research Center
If this supplemental funding is awarded, an additional clinical research associate will be hired to serve the neighbor islands of Hawaii, Maui and Kauai for oncology clinical trial screening and enrollment, trial treatment coordination with clinics and physicians, data management, and community outreach programs.	
Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$572,236
<u>Collaborative Genetic Study of Ovarian Cancer Risk</u>	
Goodman, Marc T	Cancer Research Center
The five-year study will examine the association of vitamin D and calcium-related genetic polymorphisms with the risk of epithelial ovarian in Hawaii.	

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DHHS-Dept of Health and Human Services

Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$111,994
<u>Role of Polyamines in MYCN-Amplified Neuroblastoma</u>	
Bachmann, Andre S.	Cancer Research Center
Research relates to active R01 which examines the role of polyamines and polyamine inhibitors in the pediatric cancer neuroblastoma and is in direct response to the "Notice of Availability of Recovery Act Funds for Administrative Supplements NOT-OD-056.	
Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$1,802,665
<u>Whole Genome Scan for Modifier Genes in Colorectal Cancer</u>	
Le Marchand, Loic	Cancer Research Center
The purpose of this supplement is to expand the study population of the parent grant and to conduct a genome-wide scan of colorectal cancer among African Americans.	
Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources	\$352,944
<u>Research Outcomes Accelerating Discoveries for Medical Applications and Practice</u>	
Ostrander, Gary Kent	John A. Burns School of Medicine
The RCMI Program aims to further develop research excellence in biomedicine and health by fostering translational research linking basic science and clinical medicine. Research activities include biomedical imaging and bioengineering, bioactive nutrients, tropical infectious diseases detection and prevention and expanded biostatistics and computer core support services.	
Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources	\$934,610
<u>Translational ARRA Supplement to COBRE: Center for Cardiovascular Research</u>	
Shohet, Ralph Victor	Department of Medicine
This supplement award supports augmented research core services to the Center for Cardiovascular Research.	
Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources	\$880,333
<u>Research Outcomes Accelerating Discoveries for Medical Applications and Practice</u>	
Ostrander, Gary Kent	John A. Burns School of Medicine
The RCMI Program aims to further develop research excellence in biomedicine and health by fostering translational research linking basic science and clinical medicine. Research activities include biomedical imaging and bioengineering, bioactive nutrients, tropical infectious diseases detection and prevention and expanded biostatistics and computer core support services.	
Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources	\$154,231
<u>IBR COBRE Supplement</u>	
Ward, William S	Dept Anatomy, Biochemistry, Physiology and Reproductive Biol
Research will be focused on an analysis of the location of transgene insertion sites that will be done using a transposon integration system. Recombination technology will be used to increase the size of inserted genes by using bacterial chromosomes. Funds from the supplement will go to new hiring of two graduate assistants.	
Health & Human Svc, Dept/NIH - Natl Ctr on Minority Hlth & Hlth Disprty	\$600,000
<u>Pili 'Ohana Program: Partnerships to Overcome Obesity Disparities in Hawaii</u>	
Kaholokula, Joseph	Department of Native Hawaiian Health
This competing continuation proposal seeks funding for a 5-year intervention project on weight loss maintenance among Native Hawaiians and Pacific Peoples based on a community-based participatory research model.	

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DHHS-Dept of Health and Human Services

- Health & Human Svc, Dept/NIH - Natl Human Genome Rsch Inst \$1,018,523
Epidemiology of Putative Causal Variants in the Multiethnic Cohort
Le Marchand, Loic Cancer Research Center
This project will study 180,000 genetic variants in relation to obesity, diabetes and metabolic biomarkers in the Multiethnic Cohort study. The information generated will be critical to determine the health impact of disease associated variants and will provide valuable insights into disease pathways and mechanisms.
- Health & Human Svc, Dept/NIH - Natl Inst of Diabetes,Digestive,Kidney Dis \$128,111
Administrative Supplement for: Multimedia Intervention to Motivate Ethnic Minority Teens to be Designated Donor
Albright, Cheryl L. Cancer Research Center
The purpose of this administrative supplement is to increase recruitment efforts on the three other islands, in addition to Oahu, in order to increase the proportion of ethnic minority adolescents who live in rural areas and to increase proportion of study sample that is from low-income households.
- Health & Human Svc, Dept/NIH - Natl Inst on Drug Abuse \$681,280
The Project Success Model: Evaluation of A Tiered Intervention
Wills, Thomas Cancer Research Center
The study is a two-level intervention, with one level (universal program) aimed at deterring initiation while second level (indicated program) is aimed at preventing escalation of use. This approach has the goal of reducing adolescent substance use problems.

DOC-Dept of Commerce

- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$199,996
From Science to Conservation: Linking Coral Reefs, Coastal Watersheds and their Human Communities in the Pacific Islands
Richmond, Robert H Pacific Biosciences Research Center
This project addresses the impacts of watershed discharges on coral reefs in the Pacific Islands and translating science into policy and management approaches to protect these coastal marine resources.
- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$1,371,000
The University of Hawaii Sea Level Center
Merrifield, Mark A Joint Institute for Marine and Atmospheric Research
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.
- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$215,013
Coral Reef Research Grants Program for Hawai`i and the Western Pacific
Wiltshire, John C Hawaii Undersea Research Laboratory
The NOAA Coral Reef Conservation Grant Program is providing funds to the Hawai`i Undersea Research Laboratory to administer a competitive coral reef research grants program for Hawai`i and the Western Pacific.
- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$2,881,455
HURL Annual Funding
Wiltshire, John C Hawaii Undersea Research Laboratory
This proposal provides FY2008, FY2009 funding for the Hawaii Undersea Research Laboratory.

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DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$142,025
<u>Evaluating the Marketing Channel and Food Safety of Fish and Seafood Products in Hawaii</u>	
Leung, Ping Sun	Department of Molecular Biosciences and Bioengineering
This research intends to describe and assess the marketing channels and food safety of fish and seafood products in Hawaii through surveying the seafood distribution channels and restaurants.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$126,810
<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 techniques and technology applicable to their nations and physically transfer appropriate hardware and software to that nation.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$248,117
<u>Integrating Socioeconomic Assessments to Build Community Resilience in Mitigating Drought</u>	
Anderson, Cheryl	Social Science Research Institute
The research will investigate socioeconomic factors of risk and vulnerability to drought in order to develop a network and measures for reducing drought and climate change impacts. These will be integrated in drought and disaster mitigation plans.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$681,818
<u>Hawaii Coral Reef Initiative</u>	
Hamnett, Michael P	Social Science Research Institute
HCRI proposes a five year plan 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.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$90,309
<u>Evaluation and Improvements of Cloud and Precipitation Physics in the Operational Hurricane WRF Model at NCEP/EMC</u>	
Wang, Yuqing	Joint Institute for Marine and Atmospheric Research
To improve the cloud microphysics scheme used in the Hurricane Weather Research and Forecast (HWRF) model developed in the Environmental Modeling Center (EMC) at the National Centers for Environmental Prediction (NCEP) of NOAA, with the ultimate goal to improve the prediction of hurricane structure and intensity by	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$228,164
<u>ADMB Open Source Project</u>	
Sibert, John R	Joint Institute for Marine and Atmospheric Research
To develop the protocols for maintaining a source code repository and producing binary distributions, and for testing and distributing the AD Model Builder (ADMB) software across multiple platforms, operating systems and compilers for scientific modeling use.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$10,000
<u>Monk Seal Recovery Team, Island of Hawaii</u>	
Turner, Jason	Natural Sciences-UHH
Funding to carry out monk seal response	

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DOC-Dept of Commerce

Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$934,333
<u>Coral Reef Management Initiative</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To establish an enhanced coral reef management presence in the Pacific and foster opportunities for cooperative research with the University of Hawaii.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$1,220,406
<u>Pelagic Fisheries Research Program</u>	
Weng, Kevin	Department of Oceanography
These funds will cover various topics of project research focusing on Pacific pelagic fish species to be conducted at various locations. Therefore, specific indirect cost rates, locations, certification as and attachments are not addressed here but will be addressed at the time each proposal is submitted.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$1,197,375
<u>Fisheries Oceanography: Protected Species Research Program</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To conduct research on Pacific islands area protected species populations, their ecology, and relationships to environmental and oceanographic parameters.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$179,580
<u>Data Administration of Pelagic Fisheries Data</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To enable timely and effective monitoring of the Hawaii-based longline fishery using data from the Pacific Islands Regional Office observer program & ancillary data sources, & to continue data administration support for Pacific Islands Fisheries Science Center and Pacific Islands Regional Office scientists and data managers.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$1,300,000
<u>Sustaining Healthy Coastal Ecosystems (JIMAR Coastal Research Program)</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
This project will support multi-disciplinary efforts to assess, monitor, map, restore, and protect coral reef ecosystems of the U.S.-affiliated Pacific Islands.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$330,000
<u>Fisheries Oceanography: Ecosystem Observations and Research Program</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
Scientific projects that bridge research investigations to produce ecosystem level analyses and products.	
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).	
Western Pacific Regional Fishery Mgmt Council	\$42,432
<u>Investigating the Relationship Between Deep Water Choruses and Hawaii's Mesopelagic Boundary Community</u>	
Lammers, Marc	Hawaii Institute of Marine Biology
Acoustic recording instruments and vessel-based echosounders will be used to investigate the possibility that elements of the migrating mesopelagic boundary community of organisms produce sounds.	

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Research

DOD-Department of Defense

Defense, Dept - Air Force	\$814
<u>Operations and Management of the Maui Supercomputing Center</u>	
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	\$362
<u>Operations and Management of the Maui High Performance Computing Center</u>	
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	\$68,614
<u>Operations and Management of the Maui High Performance Computing Center</u>	
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	\$5,974
<u>Operations and Management of the Maui Supercomputing Center</u>	
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	\$11,774
<u>Operations and Management of the Maui Supercomputing Center</u>	
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	\$1,132,938
<u>Operations and Management of the Maui High Performance Computing Center</u>	
Lassner, David K	Information Technology Services
Cost reimbursement award term contract for research development, operations and management of the Maui High Performance computing Center	
Defense, Dept - Army	\$74,961
<u>Modeling of Hurricane Surge and Waves for Hawaii</u>	
Cheung, Kwok Fai	Department of Ocean and Resources Engineering
Modeling of hurricane surge and waves for Hawaii.	
Defense, Dept - Army	\$98,915
<u>Evaluation and Characterization of Ground Water Resources at the Pohakuloa Training Area, Island of Hawaii</u>	
Thomas, Donald M	Hawaii Institute of Geophysics and Planetology
We will compile geologic, geophysical, biological, and cultural data for prospective groundwater sampling and test sites around the Pohakuloa Training Area on the Island of Hawaii; we will select one of those sites as an optimal sampling location and secure required permits for use of that site for goundwater sampling.	

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Research

DOD-Department of Defense

Defense, Dept - Naval Postgraduate School	\$97,339
<u>Collaborative Studies on Tropical Cyclone Intensification</u>	
Li, Tim	Department of Meteorology
To further investigate the fundamental dynamics and thermal dynamics processes associated with the vortical hot towers.	
Defense, Dept - Navy	\$47,000
<u>Research Associated with Marsilea Villosa at Lualualei Valley</u>	
Ranker, Thomas A	Department of Botany
This is a study of the ecology, population genetics, and conservation management of the rare fern Marsilea villosa.	
Defense, Dept - U.S. Army Med Rsch Acqstn Actvty (USAMRAA)	\$427,164
<u>Does a Personalized Health Portal for Diabetes Retinal Imaging Positively Affect Motivational Readiness to Change?</u>	
Birkmire-Peters, Deborah	John A. Burns School of Medicine
The proposed research aims to use constructs from the transtheoretical model to assess the impact of exposure to a personalized health technology (i.e., screening retinal images presented to patients via a web portal) on the readiness of type 2 diabetes patients to positively change their behavior.	

DOE-Dept of Energy

Energy, Dept - FED	\$50,000
<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	\$150,600
<u>Understanding Annual Cycle-ENSO Interactions in Climate Change Simulations</u>	
Schneider, Niklas	Department of Oceanography
An investigation of interactions of annual cycle and interannual variations (el Nino) of the tropical Indo-Pacific in simulations of future climate with changes of greenhouse gases.	
Energy, Dept - FED	\$17,241
<u>Study of Mechanisms of Aerosol Indirect Effects on Glaciated Clouds</u>	
Phillips, Vaughan	Department of Meteorology
Atmospheric Research	
Energy, Dept - FED	\$178,569
<u>Future Projections of Mean and Variability of the Asian Summer Monsoon and Indian Ocean Climate Systems</u>	
Annamalai, H	Department of Meteorology
The primary goal of the proposal is to quantify the future projections of the Asian Summer Monsoon and tropical Indian Ocean Climate systems. Specifically, the proposed research aims to examine the degree to which changes in greenhouse gas and aerosol concentrations influence the time-mean state of the monsoon climate.	

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Research

DOE-Dept of Energy

Energy, Dept - FED \$285,173

I. Structural and Mechanistic Studies of Doped Alanates; II. Kinetic Enhancement of Thermodynamically Tuned, High Capacity, Reversible Metal Hydrides

Jensen, Craig M Department of Chemistry

Development of High Performance Hydrogen Storage Materials.

Energy, Dept - FED \$40,000

Supplemental Proposal for Travel to KEK Super-B and SuperBelle

Browder, Thomas E Department of Physics and Astronomy

Bellell/SuperKEKB project is now funded in Japan. Additional funding is needed for the travel associated with Prof

Energy, Dept - FED \$119,048

Research in High Energy Physics: Technical Progress Report & FY08 Budget Request

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 \$13,000

Supplement Funds for Travel Support for Visiting Senior Researchers to Collaborate on TeV-Scale Phenomenology

Tata, Xerxes Department of Physics and Astronomy

Invite 3-4 senior researchers with expertise in TeV scale phenomenology as it relates to the LHC & in direct dark matter detection, to collaborate with members of the Hawaii Theory Group.

DOI-Dept of Interior

Interior, Dept - National Park Service \$23,030

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 \$65,840

Developing Rare Plant Monitoring and Recovery Strategies

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 - National Park Service \$140,000

Haleakala Silversword Research to Slow the Invasion of Argentine Ants in Silversword Habitat

Krushelnicky, Paul D Department of Plant and Environmental Protection Sciences

The project will research silversword reproductive ecology and survival, research current and future patterns of invasive Argentine ant spread, and develop methods for slowing ant spread into the park.

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DOI-Dept of Interior

Interior, Dept - U.S. Fish & Wildlife Service	\$14,482
<u>Project Support for Invasive Species Committees and CGAPS Outreach Efforts</u>	
Duffy, David C	Department of Botany
Conduct early detection research and strategies for high risk invasive species. Support public awareness of invasive species through public outreach.	
Interior, Dept - U.S. Fish & Wildlife Service	\$150,000
<u>Investigation of Wet Tropical Forest Ecosystems in the Pacific Remote Islands Complex</u>	
Li, Qingxiao	Department of Molecular Biosciences and Bioengineering
Investigate the wet tropical forest and hydrogeology of Palmyra Atoll NWR and other refuges in the Pacific Remote Island Complex.	
Interior, Dept - U.S. Fish & Wildlife Service	\$42,300
<u>Plant Extinction Prevention Program</u>	
Duffy, David C	Department of Botany
Prevent the extinction of 54 plant species on Kauai at high risk for imminent extinction through propagule collection, tissue culture and propagation.	
Interior, Dept - U.S. Fish & Wildlife Service	\$75,000
<u>Three Mountain Alliance (TMA) Coordination, Planning and Management</u>	
Duffy, David C	Department of Botany
Implement conservation projects in the Three Mountains watershed area on the Big Island.	
Interior, Dept - U.S. Geological Survey	\$13,000
<u>Hawaiian Forest Bird Research: Publishing Bird Trends</u>	
Ziegler-Chong, Sharon	Pacific Aquaculture-UHH
Complete data analysis and production of reports on the status and distribution of Hawn forest birds, including population estimates, distribution maps, and trends analysis	
Interior, Dept - U.S. Geological Survey	\$18,397
<u>Population Trends, Distribution, and Insect Prey Base of the Hawaiian Hoary Bat</u>	
Ziegler-Chong, Sharon	Pacific Aquaculture-UHH
Fully gather information needed for the re-evaluation of the conservation status of the Hawaiian hoary bat	
Interior, Dept - U.S. Geological Survey	\$20,800
<u>Hawaiian Vegetation Mapping Project: Digital Database</u>	
Ziegler-Chong, Sharon	Pacific Aquaculture-UHH
Enter plant data from approximately 4,000 additional stations sampled during the HFBS into the plant database	
Interior, Dept - U.S. Geological Survey	\$18,000
<u>Survey of Invasive Ants at Hakalau Forest National Wildlife Refuge.</u>	
Ziegler-Chong, Sharon	Pacific Aquaculture-UHH
Systematically surveying the Hakalau refuge for ants	

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DOI-Dept of Interior

Interior, Dept - U.S. Geological Survey \$65,540
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

ED-Dept of Education

Education, Dept - FED \$63,600
UHH Hawaiian Forest Database: Saipan Island
Ziegler-Chong, Sharon College of Agriculture, Forestry-UHH

Education, Dept - FED \$4,500
UHH Analysis Lab/Field Data Avian
Ziegler-Chong, Sharon College of Agriculture, Forestry-UHH

Education, Dept - FED \$10,259
Endangered Plant Species in Hawaii Volcano National Park (HVNP)
Ziegler-Chong, Sharon College of Agriculture, Forestry-UHH

Education, Dept - FED \$507,431
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.

Foreign

Daihatsu Motor Company, Ltd. \$25,000
Analysis and Recommendation for Daihatsu Hydrazine Fuel Cell Stack Optimization
Rocheleau, Richard E Hawaii Natural Energy Institute
HNEI will test and evaluate letter-sized hydrazine fuel cell stacks supplied by Daihatsu Motor Company Ltd. The purpose of this testing is to provide analysis of stack characterization and provide recommendation of stack optimization.

Hans Rausing Endangered Languages Proj \$13,292
Documentation of Archaic Akha, the Register of the Shaman, with a Comparison to Modern Spoken Akha
Thieberger, Nicholas Department of Linguistics
This dissertation project will document and describe the grammar of Akha, a language spoken in Mainland Southeast Asia. Jake Terrell will travel to Chiang Rai, Thailand to record and analyze the Akha language, and then write a descriptive reference grammar based on the data.

Gifts, Grants, and Contracts for September 2009

Research

Foreign

Ministry of Agriculture and Rural Development, Central Project Office - Vietnam	\$607,793
<u>Vietnam Natural Disaster Risk Management Project 1F</u>	
Gaines, James R	Vice President for Research
The Pacific Disaster Center will provide consulting services to assist the Department of Dyke Management and Flood and Storm Control (DDMFSC) and Central Project Office (CPO), within the Ministry of Agriculture and Rural Development (MARD), develop and implement an education and training program	
Northeast Asian History Foundation	\$8,000
<u>Chinese Newspaper's Attitude Toward Conflicts over History in East Asia: People's Daily and Beijing Youth Daily</u>	
Seo, Jungmin	Department of Political Science
Data coding of articles appeared in two Chinese newspapers (People's Daily and Beijing Youth Daily) to analyze Chinese journalism's attitude toward the conflicts over historical memories in East Asia.	
United Nations Educ, Scientific & Cultural Org (UNESCO)	\$153,548
<u>The IOC Coordinated Indian Ocean Tsunami Warning System: Upgrade of Sea Level Stations in the Indian</u>	
Merrifield, Mark A	Joint Institute for Marine and Atmospheric Research
To install, upgrade, and maintain multiple-use tide gauge stations in the Indian Ocean for tsunami and sea level monitoring.	
World Health Organization	\$25,000
<u>WHO: Disaster Education Project</u>	
Qureshi, Kristine	School of Nursing and Dental Hygiene
Develop, pilot test and evaluate disaster training programs that address bio-events and are culturally relevant for Asia and the Pacific Rim nations. Present findings at international meetings.	

Hawaii- Business and Other

Hawaii Agriculture Research Center	\$32,000
<u>Proteomics Study of Tropical Plants</u>	
Li, Qingxiao	Department of Molecular Biosciences and Bioengineering
Identify proteins involved in the resistant interaction of the most tolerant papaya cultivar, Kamiya, to its major root-rot pathogen.	
Hawaii BioEnergy, LLC	\$20,000
<u>NSF Center for Bioenergy Research & Development - Hawaii BioEnergy LLC Membership</u>	
Turn, Scott Q	Hawaii Natural Energy Institute
Hawaii BioEnergy LLC is paying for a membership in the University of Hawaii site of the NSF supported Center for Bioenergy Research & Development.	
Malama O Puna	\$33,000
<u>Restoration and Protection of Hawai'i Island's Coastline through Island-Wide Extirpation of the Alien Red Mangrove Rhizophora mangle</u>	
Duffy, David C	Department of Botany
Restore native coastline on Hawaii Island by removing invasive mangroves. Collect data to determine efficiency and benefits of mangrove eradication.	

Gifts, Grants, and Contracts for September 2009

Research

Hawaii- Government Agencies

County of Hawaii	\$8,000
<u>Innovative Practices to Sustain Sweet Potato Production</u>	
Miyasaka, Susan C	Hawaii County CTahr Extension and Research Office
The overall objective of this project is to improve the economic and environmental sustainability of sweet potato production along the Hamakua coast of Hawaii by demonstrating the benefits of clean-harvesting fields, crop rotation, and breeding for greater pest and disease resistance.	
County of Hawaii - Civil Defense	\$49,478
<u>Mapping Landslide Hazards on Hawaii Island</u>	
Nicholson, Peter G.	Department of Civil and Environmental Engineering
Data collection and development of a database and digitized maps to indicate potential landslide hazards on the Island of Hawaii.	
Defense, Dept - Civil Defense-HI	\$60,000
<u>Tsunami Inundation Map for Hawaii</u>	
Cheung, Kwok Fai	Department of Ocean and Resources Engineering
Develop tsunami inundation map for Hawaii.	
Health, Dept - HI	\$9,500
<u>Hawaii Asthma Friendly Pharmacy Project</u>	
Ma, Carolyn	College of Pharmacy-UHH
Utilize pharmacies in improving care to asthma patients in Hawaii	
Land & Natural Res, Dept - Div of Aquatic Resources-HI	\$119,293
<u>Fish and Habitat Monitoring and Assessment: Year One</u>	
Duffy, David C	Department of Botany
Monitor and assess marine ecosystems by collecting and compiling data on fish communities, mobile invertebrates, reef benthos, and water temperature and turbidity around Hawaii Island.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$15,000
<u>Research to Improve Estimates of Game Harvests and Hunting Participation in the State of Hawai'i Year 3</u>	
Lepczyk, Chris	Department of Natural Resources and Environmental Management
The objectives of this study are to: 1) Determine problems and costs associated with improving the accuracy of game harvest estimates and hunter recreation in Hawai'i; 2) Devise strategies that reduce differences between the	
Land & Natural Res, Dept - HI	\$50,000
<u>Detection and Control of Invasive Species in Wao Kele o Puna on the Island of Hawaii</u>	
Duffy, David C	Department of Botany
Survey and control invasive species in the forest reserve of Wao Kele o Puna on the island of Hawaii.	
Land & Natural Res, Dept - HI	\$127,434
<u>Kauai Endangered Forest Bird Conservation Research and Management</u>	
Duffy, David C	Department of Botany
Continue research and field management to restore the endangered Puaiohi and other endangered native forest birds on Kauai.	

Gifts, Grants, and Contracts for September 2009

Research

Hawaii- Government Agencies

Land & Natural Res, Dept - HI	\$141,533
<u>Kauai Endangered Seabird Conservation Research and Management</u>	
Duffy, David C	Department of Botany
Conduct research on the populations of endangered Kauai seabirds and make recommendations for conservation strategies.	
Land & Natural Res, Dept - HI	\$39,653
<u>Continuation of Development of a Statewide Rare Plant Tracking Database</u>	
Kaneshiro, Kenneth Y	Pacific Biosciences Research Center
Second phase of a multi-year effort to establish a statewide technical framework and the necessary technical infrastructure for the management and reporting of rare species data in Hawaii.	
Land & Natural Res, Dept - HI	\$143,176
<u>Endangered Maui Forest Bird Population Research and Management</u>	
Duffy, David C	Department of Botany
Research and manage recovery efforts for endangered Maui forest birds, including the Po'ouli.	
Land & Natural Res, Dept - HI	\$81,965
<u>Maui District Endangered Species Research</u>	
Duffy, David C	Department of Botany
Research and monitor endangered seabirds on Maui, Molokai, and Lanai in conjunction with statewide, multi-agency seabird recovery research, planning, and management.	
Land & Natural Res, Dept - HI	\$75,000
<u>Development of a Habitat Conservation Plan for Game Mammal Management in North Kona, Hawaii</u>	
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	\$175,000
<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	\$21,500
<u>Natural Area Reserves Management</u>	
Duffy, David C	Department of Botany
Add education and outreach component to existing Natural Area Reserves ecosystem research and management project.	
Land & Natural Res, Dept - HI	\$30,000
<u>Hawaiian Ecosystems Initiative: 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.	

Gifts, Grants, and Contracts for September 2009

Research

Hawaii- Government Agencies

Public Safety, Dept - HI \$106,310

Research and Training in Sex Offender Assessment and Treatment in Corrections

Coyne, Barry J School of Social Work

To coordinate and manage activities regarding research relating to the psychophysiological assessment of sexual offenders.

Transportation, Dept - HI \$149,000

Detection Techniques and Quarantine Treatments for High Risk Commodities Identified by the Kahului Airport Pest Risk Assessment

Hara, Arnold H Department of Plant and Environmental Protection Sciences

The objective of this project is to innovate detection techniques and develop safe and effective quarantine treatments for high risk commodities that are imported or shipped interisland as cargo.

Hawaii- Health Organizations

Kaiser Permanente - HI \$17,462

Cardiovascular Research Network

Novotny, Rachel Department of Human Nutrition, Food and Animal Sciences

This project will involve Dr. Novotny serving as Site PI for Hawaii, to develop and participate in collaborative research projects with the other investigators on this NIH funded research project. This will involve participation in conference calls, development of research proposals, and participation in the project annual meeting.

Hawaii- Non-Profit Organizations

Tri-Isle Resource Conservation & Dev Council \$76,000

East Maui Watershed Protection

Morden, Clifford W Department of Botany

Conduct applied conservation research and management to protect the native rainforests in East Maui's watershed.

Mainland- Business and Other

Booz, Allen & Hamilton Inc \$21,000

Pacific Disaster Center Catastrophic Hurricane Planning

Gaines, James R Vice President for Research

The Pacific Disaster Center will provide technical assistance and support as part of FEMA's Pacific and Hawaii Catastrophic Hurricane Readiness Response Planning effort.

Concurrent Technologies Corp \$115,858

Hawaii Underwater Chemical Munitions Survey Plan

Syrmos, Vassilis L Vice Chancellor for Research and Graduate Education

To survey the Hawaiian Waters for Chemical Munitions.

Fugro EarthData, Inc. \$131,705

Integrated Coral Reef Ecosystem Mapping and Monitoring

Friedlander, Alan M Department of Zoology

Organize previously collected data on marine protected areas in Hawaii into a database for web posting. Submit report and journal article on previously collected marine protected area data.

Gifts, Grants, and Contracts for September 2009

Research

Mainland- Business and Other

Jet Propulsion Lab	\$28,000
<u>Precision Tests of Ultracool Dwarf Atmospheric Models</u>	
Liu, Michael C	Institute for Astronomy
We will test current theoretical models of substellar atmospheres and evolution using brown dwarfs that are companions to main-sequence stars. where here are independent determinations of the ages and metallicities.	
MVSystems, Inc	\$89,286
<u>Photoelectrochemical Hydrogen Production</u>	
Miller, Eric L	Hawaii Natural Energy Institute
An "energy economy" based on clean-burning hydrogen instead of fossil fuels will be an important part of our nation's future. In this research, the Hawaii Natural Energy Institute will be developing low cost photoelectrochemical devices to produce hydrogen directly from water using sunlight as the energy source.	
Novartis Pharmaceuticals Corp	\$357,601
<u>Does Finding, Safety and Efficacy of Monthly Subcutaneous Canakinumab Administration for the Treatment of Hyperglycemia in Metformin Monotherapy Treat</u>	
Arakaki, Richard F	Department of Medicine
This study will investigate the safety and efficacy of monthly subcutaneous injections of Canakinumab for the treatment of hyperglycemia in patients with type 2 diabetes.	
SWCA Environmental Consultants	\$135,000
<u>Statewide Noxious Invasive Plant Program (SNIPP)</u>	
Duffy, David C	Department of Botany
Perform survey of priority invasive and native plant species along Oahu roadways, report the data via GIS database, and conduct control of target invasive species.	

Mainland- Health Organizations

American Cancer Society, Inc	\$720,000
<u>Induction of Invasive Breast Cancer by Activated Form of Geminin</u>	
EIshamy, Wael	Department of Pathology
Investigative ways: Geminin is turned on and turned off during cell division; contributing of two division inducing proteins; Aurora B kinase and topoisomerase IIalpha (we discovered interact with Geminin) in its ability of Geminin to induce aneuploidy.	
Children's Hospital Boston	\$26,000
<u>The Relationship Between Mitochondrial Dysfunction and Insulin Resistance in HIV-Infected Children Receiving AntiRetroviral Therapy</u>	
Gerschenson, Mariana	John A. Burns School of Medicine
Perform OXPHOS analysis on pediatric samples, perform data analysis and manuscript preparation.	
Women & Infants Hospital of Rhode Island	\$388,393
<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.	

Gifts, Grants, and Contracts for September 2009

Research

Mainland- Non-Profit Organizations

Consortium for Ocean Leadership	\$11,250
<u>Participation in IODP Research Cruise #324</u>	
Garcia, Michael O	Department of Geology and Geophysics
Participation in IODP scientific expedition #324.	
Consortium for Ocean Leadership	\$78,355
<u>IODP Expedition Participation on Expedition 313</u>	
Mottl, Michael J	Department of Oceanography
International marine research drilling program involving 20 nations. Mainly to conduct expeditions designed to advance scientific understanding of the Earth with other scientists.	
University Corporation for Atmospheric Research	\$79,461
<u>Chromospheric Data from MOTH and TRACE</u>	
Jefferies, Stuart M	Institute for Astronomy
To analyze simultaneous MOTH/MOTH II and TRACE observations and use them as a seismic probe of the chromosphere.	

National Aeronautics and Space Administration

National Aeronautics & Space Administration	\$617,724
<u>The NASA Infrared Telescope Facility: Mission Support and Solar System Observations</u>	
Tokunaga, Alan	Institute for Astronomy
We propose to provide NASA with observations and research data aimed at providing support of spacecraft missions and basic research in support of the Planetary Astronomy program.	
National Aeronautics & Space Administration	\$35,779
<u>Aquarius Salinity Calibration, Error Quantification, Signal-to-Noise Analyses, and Resolution Studies Using Historical and Concurrent Data</u>	
Maximenko, Nikolai A	Department of Oceanography
The project will use the Aquarius mission to provide the best possible product, to characterize the space-time variability of salinity fronts, to quantify and improve the accuracy and signal-to-noise characteristics of both gridded and along-track products, and to assess the value of Aquarius with respect to existing observations.	
National Aeronautics & Space Administration	\$103,648
<u>Integrating MESSENGER Data to Investigate the Origin of Mercury's Intercrater and Smooth Plains Deposits</u>	
Gillis-Davis, Jeffrey	Hawaii Institute of Geophysics and Planetology
The proposed work will investigate the origin of Mercury's Smooth plains and intercrater plains using data from the Mercury Surface, Space Environment, Geochemistry, and ranging (MESSENGER) mission. The main tasks of the proposal include; create a prioritized list of geologic targets, and integrate X-ray, gamma-ray, neutron, and spectral data to map these two units.	
National Aeronautics & Space Administration	\$175,264
<u>APANL: InSAR and Thermal Analyses of Kuril-Kamachatka Volcanoes</u>	
Brooks, Benjamin A	Hawaii Institute of Geophysics and Planetology
Relate remotely-sensed volcano deformation to eruptions.	

Gifts, Grants, and Contracts for September 2009

Research

National Aeronautics and Space Administration

National Aeronautics & Space Administration \$26,522
The Nature of the Faintest Hard X-Ray AGN
Treister, Ezequiel Institute for Astronomy
Measure and analyze the Compton reflection and other spectral components of 5 AGN using the Suzuka telescope.

National Science Foundation

National Science Foundation \$398,088
ARI-MA: Nuclear Materials Detection via Time-Encoded Differential Absorption and/or Differential Fluorescence
Madey, John M J Department of Physics and Astronomy
Proposed research is to develop and demonstrate an improved method for detection of fissile nuclear materials using techniques adapted from Laser Radar Systems and High Energy Physics, shifted to Gamma ray energies as required for detection of small, concealed quantities of Uranium and Plutonium.

National Science Foundation \$382,421
VOSS: Understanding Distributed Socio-Technical Systems
Suthers, Daniel D Department of Information and Computer Sciences
The goal is to understand how people interact in virtual organizations and communities, and improve the design technologies for such organizations. Towards this end, we will refine an analytic framework and software tools and apply them to understand the development of relationships and ideas in an online professional community.

National Science Foundation \$2,853
CAREER: Bridging Modern Computational Capabilities and Observations of Solar Magnetic Fields with Expanding Solar Physics Education at the University of Hawaii
Roussev, Ilia I Institute for Astronomy
Supplemental funding request is to support graduate assistant travel to attend the 2009 SHINE conference in Nova Scotia, Canada.

National Science Foundation \$417,937
Decadal Upper Ocean Variability in the North Pacific: Mechanisms, Impact and Prediction
Qiu, Bo Department of Oceanography
To improve our ability to predict the midlatitude Pacific climate variability and to better understand how the upper ocean dynamic and thermodynamic processes interact.

National Science Foundation \$4,000,000
Center for Microbial Oceanography: Research and Education (C-MORE)
Karl, David M. Department of Oceanography
To establish a Center for Microbial Oceanography Research & Education (C-MORE) as a vehicle for rapid progress in the fields of microbial ecology any genomics, including research and education.

National Science Foundation \$525,408
Mechanisms and Effects of Tropical Indian Ocean Variability
Xie, Shang-Ping Department of Meteorology
Conduct diagnostic and modeling studies of tropical Indian Ocean climate variability.

Gifts, Grants, and Contracts for September 2009

Research

National Science Foundation

National Science Foundation	\$267,177
<u>A Study of Multiple Environmental Influences on the Lightning of a Continental Cumulonimbus Cloud Simulated by a Numerical Model</u>	
Phillips, Vaughan	Department of Meteorology
Atmospheric research.	
National Science Foundation	\$117,647
<u>Phylogeography and Evolution of Indo-Pacific Reef Fishes</u>	
Bowen, Brian R	Hawaii Institute of Marine Biology
P.I. and associates will perform DNA sequence comparisons in support of reef exploration.	
National Science Foundation	\$428,916
<u>The Development of Microbial Associations in Major Reef Building Corals of the Pacific Ocean</u>	
Rappe, Michael S.	Hawaii Institute of Marine Biology
We propose to monitor the development of a microbial flora during the developmental cycle of major reef building corals in Hawaii and Moorea using molecular biology techniques.	
National Science Foundation	\$139,594
<u>Collaborative Research: Earthquake Triggering by Slow Slip Events Beneath Kilauea's South Flank</u>	
Wolfe, Cecily Jo	Hawaii Institute of Geophysics and Planetology
Improvements on predicting earth movement from volcanic activity.	
National Science Foundation	\$166,119
<u>Collaborative Research: Nearby M Dwarf Stars as High-Priority Targets for Exoplanet Searches</u>	
Gaidos, Eric J.	Department of Geology and Geophysics
This program will identify nearby low-mass stars that are especially suitable targets for current and future planet searches.	
National Science Foundation	\$162,094
<u>Collaborative Research: Hotspot Rift Interaction & Geochemistry of the North Atlantic Mantle: A U.S.-Norwegian Expedition to Sample the Aegir Ridge "Hole" in the Iceland Hotspot</u>	
Apuzen-Ito, Garrett	Department of Geology and Geophysics
This is a U.S.-Norwegian seagoing program to sample an extinct spreading center in the North Atlantic, which was surrounded by volcanic activity of the Iceland hotspot. Onshore petrologic and geochemical analyses as well as a geodynamic modeling will reveal how the mantle convects and generates magma around Iceland and the mantle's geochemical characteristics & evolution.	
National Science Foundation	\$24,202
<u>Collaborative Research: Hawaiian Plume Heterogeneity Revealed by Kilauea's Ongoing Eruption, Prehistoric Lavas and Olivine-hosted Melt Inclusions</u>	
Garcia, Michael O	Department of Geology and Geophysics
To investigate the petrology of Kilauea Volcano's new summit eruption, which has complicated our original hypothesis and work plan. Additional petrologic and geochemical analyses of tephra from the summit eruption will be done to compare these results with similar analyses of contemporaneous Puu Oo lavas.	

Gifts, Grants, and Contracts for September 2009

Research

National Science Foundation

National Science Foundation \$117,454

Robust Physiological Signal Extraction using High Precision Hardware and Personalized Signal Processing

Boric-Lubecke, Olga Department of Electrical Engineering

The research scope of this project is to develop data-driven solutions for extracting and interpreting physiological data obtained using robust Doppler radar sensing.

National Science Foundation \$10,000

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 \$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 \$324,060

Collaborative Research: Southern Ocean Current Observations from the U.S. Antarctic Research Vessels, 2010-14

Firing, Eric Joint Institute for Marine and Atmospheric Research

To routinely acquire, process and archive ocean current measurements from hull-mounted shipboard acoustic Doppler current profilers (ADCPs) on board the R/V Nathaniel B. Palmer and the ARSV Laurence M. Gould, operated by the United States Antarctic Program.

National Science Foundation \$50,000

Research Starter Grant: Characterization of Genetic and Biochemical Mechanisms of Iron Acquisition by Pseudomonas mendocina strain ymp

Awaya, Jonathan Biology-UHH

Molecular microbiology in characterizing the iron uptake pathways within P. mendocina

National Science Foundation \$141,664

MRI Acquisition: Hawaii-based Undergraduate Leadership in Astronomy [HULA] by Acquiring Instrumentation for an Educational Im-Class Telescope

James, David Astronomy-UHH

Acquisition and development of research-grade instruments for installation on the new 36" Hoku Kea telescope on Mauna Kea

National Science Foundation \$97,412

EAGER: Composite Adaptive Mirrors

Ftaclas, Christ Institute for Astronomy

Prepare innovative methods to create deformable mirrors that is easily scalable to larger mirrors.

Gifts, Grants, and Contracts for September 2009

Research

National Science Foundation

National Science Foundation \$3,045,504

Development of the H4RG-15: A Low Cost, High Performance 4096x4096 pixel Array for Infrared Astronomy and the Building Block for Very Large IR Mosaic Focal Planes

Hodapp, Klaus W Institute for Astronomy

To demonstrate full production of a high performance 4Kx4K infrared array, the H4RG-15, with integrated application specific integrated circuit controller at an affordable 2 cents per pixel.

National Science Foundation \$176,299

CPATH-2: Collaborative Research: Broadening Studio-Based Learning in Computing Education

Crosby, Martha E Department of Information and Computer Sciences

This collaborative project involves the University of Hawaii, Washington State University and Auburn University along with several other participating programs. This project implements and evaluates how studio-based learning techniques can be used to restructure computing education across the computer science curriculum.

National Science Foundation \$31,764

Collaborative Research: II-New: Distributed Research Testbed (DiRT)

Casanova, Henri Alain Department of Information and Computer Sciences

Establishment of a distributed computing research testbed over the wide-area.

US Colleges and Universities

Arizona, University of \$25,000

ASIC Development Testing for the James Webb Space Telescope

Hall, Donald N Institute for Astronomy

To continue the performance of application specific integrated circuit development testing for space telescopes.

Arizona, University of \$85,307

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 Berkeley, University of \$193,440

Collaborative Research with the SuperNova Integral Field Spectrograph (SNIFS) and the University of Hawaii 2.2 Meter Telescope

Aspin, Colin Institute for Astronomy

To continue collaboration with the Nearby Supernova Factory and the University of California in providing telescope time for the SNIFS instrument to conduct supernova studies.

Cornell University \$70,000

Stardust-NExT Project

Meech, Karen J Institute for Astronomy

To define the rotation period of the comet to assess the observing strategy and to enable the determination of the appropriate strategies for targeting the impact crater on the flyby of comet 9P/Tempel 1.

Gifts, Grants, and Contracts for September 2009

Research

US Colleges and Universities

Maryland, University of		\$15,978
<u>EPOXI Mission</u>		
Meech, Karen J	Institute for Astronomy	
To reduce and analyze data obtained (including recovering the comet) and characterizing the nucleus for the EPOXI Mission.		
Mississippi, University of		\$415,219
<u>Remote Infrasonic Monitoring of Natural Hazards (RIM)</u>		
Garces, Milton A	Hawaii Institute of Geophysics and Planetology	
Develop infrasound technology to support NOAA monitoring in the US for severe weather, high surf, and tsunamis.		
Pittsburgh, University of		\$46,650
<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.		
South Dakota State University		\$16,000
<u>Regional Biomass Feedstock Partnership - Herbaceous Bioenergy Crop Field Trials</u>		
Uehara, Goro	Department of Tropical Plant and Soil Sciences	
Five varieties of energycane will be studied to assess their growth and development for possible use as bioenergy feedstock crop under a Sun Grant program involving 7 states. Mississippi State University serves as the lead institution for the Department of Energy.		
Washington, University of		\$37,345
<u>The HOT Profiler: Supporting Activities at the University of Hawaii</u>		
Howe, Bruce M	Department of Ocean and Resources Engineering	
For the NSF-funded HOT Profiler mooring project, Bruce Howe will assist APL-UW in mooring design, logistics associated with deploying and recovering the mooring system at Station ALOHA north of Oahu, and data analysis, interpretation and publication.		

Subcount: 165 Subtotal: \$47,917,183

Non-Research

DA-Dept of Agriculture

Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED		\$326,664
<u>Agricultural Development in the American Pacific Year 22</u>		
Hashimoto, Andrew G	College of Tropical Agriculture and Human Resources	
The Agricultural Development in the American Pacific (ADAP) Project Year 22, funds a number of tasks with the goal of improving agricultural development across the Pacific. Year 22 include the following: Professional Development project, Management and Accountability project, & Food Security and Sufficiency project.		

Gifts, Grants, and Contracts for September 2009

Non-Research

DA-Dept of Agriculture

Agriculture, Dept - FED \$3,967

Digitizing Transactions of the Royal Hawaiian Agricultural Society (1850 -1856) and Planters' Monthly (1882-1894) Hawaiian Planters' Monthly (1895-1909)

Herring, Eileen Library

Digitize from microfilm two 19th century Hawaii titles and make available on the Web via repository.

Agriculture, Dept - FED \$55,976

Biotechnology Outreach Program

Wieczorek, Anna M. Department of Tropical Plant and Soil Sciences

Improved understanding of agricultural biotechnology issues by growers, marketers, legislators and consumers.

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Agcy for Hlthcare Rsch & Qlty \$52,325

Pacific Institute of Nursing Research Conference

Mark, Debra D Department of Nursing

To provide funds for a pre-conference workshop as well as travel stipends for nurses from neighbor islands and the Pacific Rim to attend the PIN conference during the years 2009-2012.

Health & Human Svc, Dept - Hlth Res & Svcs Adm (HRSA) \$383,130

Other Health Professions Programs (Earmarks)

Daub, Katharyn Nursing-UHH

Develop a dual interdisciplinary grad program of study, specifically, a Family Nurse Practitioner (FNP)/Doctor of Nursing Practice (DNP)/ PharmD program

Health & Human Svc, Dept - Sbstnc Abuse & Mntl Hlth Svcs Adm \$100,000

UH Multi-Campus Suicide Prevention Project

Tanouye, Allyson M Vice President for Student Affairs

Grant funds will allow for infrastructure and program enhancement across the 10-campus system of the University of Hawaii. Emphasis will be placed on general mental health promotion and risk reduction, suicide prevention, training, protocol and resource development, communication, diversity of students and tailored campus response.

Health & Human Svc, Dept/NIH - Natl Cancer Institute \$103,000

Cancer Information Service

Vogel, Carl-Wilhelm Cancer Research Center

The National Cancer Institute's cancer Information Service is a national resource for information and education about cancer, providing the latest and most accurate cancer information to patients and their families, the public, and health professionals. Hawaii's Partnership Program focuses on Native Hawaiians and other medically underserved populations in the US Pacific.

Gifts, Grants, and Contracts for September 2009

Non-Research

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources	\$138,810
<u>Improving Animal Resources for Biomedical Research</u>	
Kondo, Sylvia Y	Laboratory Animal Service
Request funds to renovate the cage wash area in Biomedical Sciences Building.	
Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources	\$296,612
<u>Master in Clinical Research</u>	
Harrigan, Rosanne C	Department of Complementary and Alternative Medicine
Offer Master's program in Clinical Research	
Health & Human Svc, Dept/NIH - Natl Ctr on Minority Hlth & Hlth Disprty	\$312,500
<u>Endowment for Cardiovascular Science</u>	
Hedges, Jerris	John A. Burns School of Medicine
The University of Hawaii (UH) John A. Burns School of Medicine (JABSOM) is submitting this application to establish an endowment focused on cardiovascular research, because cardiovascular disease is the primary cause of excess morbidity and mortality in our minority and medically-underserved citizens.	
Health & Human Svc, Dept/NIH - Natl Inst on Drug Abuse	\$189,468
<u>Neuroimaging and Mentoring in Drug Abuse Research</u>	
Chang, Linda	Department of Medicine
Support of 50% salary for PI to ensure protected time to conduct ongoing research and continue to mentor junior clinician scientists in research on HIV and methamphetamine abuse.	

DOC-Dept of Commerce

Commerce, Dept - Economic Dev Administration-FED	\$220,000
<u>UH-PBCP EDA University Center 2009-2010</u>	
Morton, John F	Vice President for Community Colleges
This Economic Development Administration University Center Program award supports the economic development and technical assistance work of the Pacific Business Center Program that will be provided to public and private sector clients located in Hawaii and throughout the American Affiliated Pacific Islands.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$38,000
<u>HIMB-NOAA Fellowship Program</u>	
Lemus, Judith D	Hawaii Institute of Marine Biology
To place Hawaii graduate and undergraduate student fellows, particularly underrepresented minorities such as those of Native Hawaiian and Pacific Islander ancestry, in NOAA Pacific Region agency offices for one-year paid internships to acquire "real world" job experiences and skills.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$30,000
<u>Western and Central Pacific and Hawaii Fishery Sustainability: Impacts and Implications of Future Climate Change on Fisheries</u>	
Okimoto, Darren K	Sea Grant College Program
UH Sea Grant proposes to generate a case study on the impact of climate change on Pacific Ocean fisheries through a partnership with UH SOEST and NOAA NMFS.	

Gifts, Grants, and Contracts for September 2009

Non-Research

DOI-Dept of Interior

Interior, Dept - FED	\$1,000
<u>Website Development for the Hawaii-Pacific Islands CESU</u>	
Duffy, David C	Department of Botany
Develop website for the Hawaii pacific Islands Cooperative Ecosystem Studies Unit	
Interior, Dept - FED	\$15,000
<u>Avian Influenza Morbidity and Mortality Surveillance in the Hawaiian Islands: BIISC, KISC, MISC, OISC</u>	
Duffy, David C	Department of Botany
Conduct surveillance for dead birds, monitoring for West Nile virus and Avian influenza.	
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 aliens species in Hawaii.	
Interior, Dept - National Park Service	\$26,148
<u>Honouliuli Internment Camp</u>	
Falgout, Suzanne	Chancellor, University of Hawaii at West Oahu
Multidisciplinary UHWO project will research & educate about Honouliuli Internment Camp. Two summer archaeological field schools will teach methods & techniques of historic archaeology. Archival and oral historic research by faculty & students will focus on those interred, their descendants, and others who interacted.	
Interior, Dept - National Park Service	\$14,955
<u>Captive on the U.S. Mainland: Oral Histories of Hawaii-born Nisei</u>	
Nishimoto, Warren S	Social Science Research Institute
The proposed project will collect and disseminate oral histories with Hawaii-born Japanese Americans who were removed from their places of study, training or employment on the West Coast and incarcerated in various assembly centers and relocation camps during World War II.	
Interior, Dept - U.S. Geological Survey	\$44,971
<u>Biodiversity Research Program</u>	
Sakamoto, Clyde M	Chancellor, Maui Community 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	\$403,919
<u>Student Support Services Program</u>	
Yoshimoto, Melven M	Vice Chancellor for Academic Affairs
Provide services and activities to increase retention and graduation rates of program-eligible students; foster campus climate to support students' success.	

Gifts, Grants, and Contracts for September 2009

Non-Research

ED-Dept of Education

Education, Dept - FED	\$951,000
<u>Clinical Pharmacy Training Program and Applied Rural Science Program FY 09</u>	
Pezzuto, John	College of Pharmacy-UHH
Enhance the clinical pharmacy training and applied rural science programs conducted by UHH	
Education, Dept - FED	\$1,016,255
<u>Heluhelu Maoli: Building Strong Foundations in Reading and Mathematics</u>	
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	\$823,711
<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	\$226,600
<u>Windward Community college Educational Talent Search Program -Windward</u>	
Oliveira, Judy	Chancellor, Windward Community College
Education, Dept - FED	\$226,600
<u>Windward Community College Educational Talent Search Program - Honolulu</u>	
Oliveira, Judy	Chancellor, Windward Community College
Education, Dept - FED	\$390,391
<u>Student Support Services</u>	
Inouye, Roy Owen	Chancellor, Windward Community College
Support services for low income, first generation and disabled students.	
Education, Dept - FED	\$267,613
<u>Maui Community College Student Support Services Program</u>	
Tagomori, Alvin R	Chancellor, Maui Community College
A program designed to promote postsecondary education for low-income, first generation MCC students.	
Education, Dept - FED	\$238,000
<u>Sulong-Aral: A Program to Provide College Preparatory Education for Filipino Students</u>	
Pecsok, Michael H	Chancellor, Leeward Community College
To increase postsecondary access for Filipino high school students from Oahu communities, raise persistence and completion rate of Filipino students at Leeward Community College, and increase the transfer rate of Filipino community college students into baccalaureate programs at the University of Hawaii at Manoa.	

Gifts, Grants, and Contracts for September 2009

Non-Research

ED-Dept of Education

Education, Dept - FED	\$343,625
<u>Kapiolani Community College - TRIO Student Support Services</u>	
Furuno, Nora M	Chancellor, Kapiolani Community College
Support services (academic and non-academic) for eligible low income, first generation in college, and students with disabilities enrolled at Kapiolani Community College. At selected participants must demonstrate need for academic support.	
Education, Dept - FED	\$252,200
<u>PRIDE Project TRIO-SS</u>	
Suda, Jolene	Chancellor, Honolulu Community College
Provide opportunities for academic development, assist students with basic college requirements, and motivate students towards the successful completion of their post secondary education. Increase college retention, graduation rates and help with transition from one level of higher education to the next. Meet grant objectives.	
Education, Dept - FED	\$313,189
<u>Student Support Services Program, fy 09</u>	
Johnson, Melissa	Vice Chancellor for Student Affairs-UHH
Education, Dept - FED	\$1,500,000
<u>Ka Huli Ao Center for Excellence in Native Hawaiian Law</u>	
Soifer, Aviam	William Richardson School of Law
To refine 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 - Ofc of Postsecondary Ed-FED	\$226,599
<u>The University of Hawaii at Manoa Educational Talent Search Program (METS)</u>	
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 - Ofc of Postsecondary Ed-FED	\$162,383
<u>Kokua a Puni - Native Hawaiian Student Service Program</u>	
Freitas, Antoinette K	Hawai'inuiakea School of Hawaiian Knowledge
Supplemental award for technology innovation activities related to three Kokua a Puni development grant activities	

Federal Agencies

Housing & Urban Development, Dept - FED	\$799,318
<u>Waikalua Loko Fishpond Project</u>	
Dykstra, Douglas	Chancellor, Hawaii Community College
Windward Community College in partnership with the Pacific American Foundation, proposes the acquisition of the Waikalua Loko Fishpond. Following the acquisition of the property, clearance of the land will make way for educational and cultural programming designed to enhance stewardship and preservation of the fishpond.	

Gifts, Grants, and Contracts for September 2009

Non-Research

Federal Agencies

Justice, Dept - FED	\$500,000
<u>Hawaii Innocence Project</u>	
Soifer, Aviam	William Richardson School of Law
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.	
Smithsonian Institution	\$139,039
<u>Submillimeter Array Post Doctoral Fellowship</u>	
McLaren, Robert A	Institute for Astronomy
The Smithsonian Institution Astrophysical Observatory continues funding of the Submillimeter Array Post Doctoral Fellowship. The fellows will carry out research with the Submillimeter Array telescope located at Mauna Kea and will contribute to research activities and facilitate interaction with other scientists within the Institute for Astronomy.	
Veterans Affairs, Dept - FED	\$312,384
<u>VA Nursing Academy: Enhancing Academic Partnerships Program</u>	
Ishida, Dianne N	Department of Nursing
The VA Pacific Islands Health Care System and the University of Hawaii at Manoa School of Nursing and Dental Hygiene propose to plan, develop, implement, and evaluate an academic partnership to build sustained capacity for nursing practice and education in Hawaii and the Pacific Islands.	

Foreign

High Energy Accelerator Research Orgn (KEK)	\$36,873
<u>JFY 2009 US Japan Program for Cooperation in High energy Physics for the High Luminosity R&D</u>	
Varner, Gary S	Department of Physics and Astronomy
Complete integration of the STURM II chip into a test bench that consists of sub-nanosecond timing solid-state sensors, fast Field Programmable Gate arrays, giga-bit fiber optic links and XMC PCI express data acquisition card in compact PCI crate with CPU.	
Nagoya University	\$26,500
<u>xTOP Readout Purchase</u>	
Varner, Gary S	Department of Physics and Astronomy
Fabrication, assembly, test and delivery of 4 Hamamatsu SL-10 PMT Readout Modules and FINESSE cards Task includes calibration and testing, documentation, and extensive engineering application support.	

Hawaii- Business and Other

Alu Like, Inc	\$110,544
<u>Fishery Observer: Preparatory Course (FOTP 8)</u>	
Hunter, Cynthia L.	Biology Program
Organize and conduct a course in fisheries observer preparation and training in September and December, 2009.	
Alu Like, Inc	\$130,000
<u>Ulukau 60 Titles</u>	
Donaghy, Joseph	Ka Haka'Ula O Ke'Elikolani-UHH
Identify, secure copyright license approval, digitize and place 60 titles on Ulukau	

Gifts, Grants, and Contracts for September 2009

Non-Research

Hawaii- Business and Other

Hawaiian Electric Co, Inc \$27,500

Data Acquisition System Troubleshooting, Repair, Monitoring, and Maintenance of Photovoltaic Systems" for HECO SunPower for Schools Program

Miller, Eric L Hawaii Natural Energy Institute

The Hawaii Natural Energy Institute (HNEI) at the University of Hawaii at Manoa (UH) will perform consulting work for the Hawaiian Electric Company (HECO), providing recommendations for repairing, maintaining and operation data acquisition systems at HECO-specified photovoltaic installation sites in the "SunPower for Schools" program.

Hawaiian Electric Co, Inc \$473,972

Oahu Electrical System Analysis

Rocheleau, Richard E Hawaii Natural Energy Institute

Collect data and perform preliminary analysis of the suitability of this data for future model (MAPS and PSLF models) development of the Oahu Electric Company (HECO) grid. These models will provide valuable insights.

Hawaii- Government Agencies

Commerce & Consumer Affairs, Dept - HI \$35,005

Automotive Service Excellence (ASE) Motor Vehicle Certification Program

Silliman, Mark D Chancellor, Honolulu Community College

Plan, coordinate, and deliver Automotive Service Excellence (ASE) training and administer ASE examination.

County of Maui \$86,872

Maui County Coastal Processes Extension Project, Year 13

Norcross, Zoe M Sea Grant College Program

The main goals of the project are to preserve coastal resources, to reduce the damage to property and risks to human health and safety caused by coastal hazards, and to enhance shoreline processes education in Maui County.

Health, Dept - Child & Adolescent Mntl Hlth Div-HI \$241,264

Clinical Therapy and Assessment, Department of Health

Nakamura, Brad J Department of Psychology

To provide psychological treatment and assessment of children struggling with emotional and/or behavioral difficulties. This project trains graduate student clinicians and offers children and families needed psychological services.

Health, Dept - HI \$4,900

School Based Influenza Vaccination Program Memorandum of Agreement

Qureshi, Kristine School of Nursing and Dental Hygiene

School Based Influenza Vaccination Program.

Health, Dept - HI \$115,000

Sexual Violence Prevention Project

Quemuel, Christine A Vice Chancellor for Student Affairs

The UHM Women's Center will pilot the development of a model for permanent campuses infrastructure to address sexual violence prevention and victim services at Hawaii Community College and Honolulu Community College, followed by implementation at all other UH campuses in following years.

Gifts, Grants, and Contracts for September 2009

Non-Research

Hawaii- Government Agencies

Human Services, Dept - HI	\$419,552
<u>Vocational Rehabilitation Needs Assessment</u>	
Izutsu, Satoru	John A. Burns School of Medicine
Conduct assessment of VR service outcomes, conduct assessment of consumer satisfaction with VR services, conduct assessment of long-term VR service impact, produce a grant project consistent with Rehab Act priorities, provide technical assistance, provide website, determine VR needs of persons with mental emotional disabilities, provide services for SRC.	
Land & Natural Res, Dept - HI	\$40,000
<u>Kipuka 21 Nature Trail Development and Management</u>	
Duffy, David C	Department of Botany
Development and manage a public access trail in Kipuka 21 on the Big Island.	
Land & Natural Res, Dept - HI	\$2,997
<u>Impact of Cruise Ship Visitors on Recreation Patterns in the State of Hawaii</u>	
Hunter, Cynthia L.	Waikiki Aquarium
Determine impact of tourist cruise participants on coral reef health in Hawaii.	
Land & Natural Res, Dept - HI	\$20,000
<u>Maintenance of Research and Services by the Hawaii Cooperative Fishery Research Unit</u>	
Birkeland, Charles	Department of Zoology
Hawaii Cooperative Fishery Research Unit will administer and advise graduate student research, teach graduate courses, and do research on topics of importance to the State of Hawaii.	
Public Safety, Dept - HI	\$174,852
<u>Sex Offender Program Officer</u>	
Matsuoka, Jon K	School of Social Work
To provide a clinical director who is experienced in the administration of sex abuse education and treatment services in a correctional institution.	

Hawaii- Health Organizations

Elam Sports, Inc	\$1,465
<u>University of Hawaii at Manoa Advanced Athletic Training Graduate Assistantship Program - Elam Sport Oahu (2009-2011)</u>	
Kimura, Iris F	Kinesiology and Leisure Science Department
Advanced education and research internship experience: A Board of Certification Athletic Trainer will participate in clinical and research experiences in order to enhance the educational and research application of athletic training/sport medicine practice.	
Elam Sports, Inc	\$1,409
<u>University of Hawaii at Manoa Advanced Athletic Training Graduate Assistantship Program - Elam Sport Oahu (2009-2011)</u>	
Kimura, Iris F	Kinesiology and Leisure Science Department
Advanced education and research internship experience: A Board of Certification Athletic Trainer will participate in clinical and research experiences in order to enhance the educational and research application of athletic training/sport medicine practice.	

Gifts, Grants, and Contracts for September 2009

Non-Research

Hawaii- Health Organizations

University Clinical, Ed & Research Assoc. (UCERA)	\$40,595
<u>Reimbursement Agreement - FY 2010, Agreement No. SF10-UCERA-INTL</u>	
Izutsu, Satoru	John A. Burns School of Medicine
Agreement to provide physician and physician related services for FY2010	
University Clinical, Ed & Research Assoc. (UCERA)	\$882,259
<u>Reimbursement Agreement - FY2010 Agreement No., SF10-UCERA-GERI</u>	
Masaki, Kamal H	Department of Geriatric Medicine
Agreement to provide physician and physician related services for FY2010.	
University Clinical, Ed & Research Assoc. (UCERA)	\$1,006,090
<u>Reimbursement Agreement - FY2010 Agreement No., SF10-UCERA-SURG</u>	
Takanishi, Danny M Jr.	Department of Surgery
Agreement to provide physician and physician related services for FY2010	
University Clinical, Ed & Research Assoc. (UCERA)	\$104,586
<u>Reimbursement Agreement - FY2010 Agreement No., SF10-UCERA-MED</u>	
Tam, Elizabeth K	Department of Medicine
Agreement to provide physician and physician related services for FY2010	
University Clinical, Ed & Research Assoc. (UCERA)	\$3,091,696
<u>Reimbursement Agreement - SF2010 Agreement No., SF10-UCERA-OBGYN</u>	
Millar, Lynnae K	Department of Obstetrics, Gynecology, and Women's Health
Agreement to provide physician and physician related services for FY2010	
University Clinical, Ed & Research Assoc. (UCERA)	\$29,474
<u>Reimbursement Agreement - FY2010 Agreement No., SF10-UCERA-PEDS</u>	
Rudoy, Raul C	Department of Pediatrics
Agreement to provide physician and physician-related services for FY2010	

Hawaii- Non-Profit Organizations

Lanai Culture & Heritage Center	\$19,428
<u>An Oral History of the Community of Lanai City, Lanai</u>	
Nishimoto, Warren S	Social Science Research Institute
This project proposes to conduct, preserve, and disseminate life history interviews with twenty (20) longtime residents of Lanai City, Lanai, who have witnessed and participated in the many developments in the island's history.	
University of Hawaii Foundation	\$109,000
<u>English Language Training Capacity at Hanoi University, Vietnam Fund</u>	
Bui, Tung X	Shidler College of Business
Strengthen English language pedagogy & capacity in Vietnam.	

Gifts, Grants, and Contracts for September 2009

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation	\$20,000
<u>Maunalua Bay Coastal and Watershed Coordinator</u>	
Lerner, Darren T	Sea Grant College Program
Continuation of work by Sea Grant, Malama Maunalua, and its partners, in restoring a healthy, sustainable, and resilient ecosystem in the bay and the watersheds that support it.	
University of Hawaii Foundation	\$50,000
<u>Community-Based Coral Reef Awareness & Management in West Hawaii</u>	
Grau, E Gordon	Sea Grant College Program
In partnership with the Harold K.L. Castle Foundation & the Managing Better Together cadre, UH Sea Grant will advance coastal & ocean literacy in West Hawaii by providing formal & informal learning opportunities at schools, community meetings & events, public presentations, & other educational forums on Hawaii Island.	
University of Hawaii Foundation	\$401,068
<u>Support of a Marine Science Learning Center at Moku o Lo'e</u>	
Rivera, Malia Ana J	Hawaii Institute of Marine Biology
Support to develop a marine science learning center at Moku o Lo'e (Hawaii Institute of Marine Biology).	
University of Hawaii Foundation	\$340,000
<u>P-3 Evaluation/External Evaluator</u>	
Johnsrud, Linda K	Vice President for Academic Planning and Policy
To perform evaluation services to support grant deliverables with the goal of every child reading at grade level by grade 3. The data will be used to identify strategies to be replicated in other communities to achieve grant deliverables.	
University of Hawaii Foundation	\$33,000
<u>Rama Watumull Distinguished Indian Scholar</u>	
Shankar, Subramanian	Center for South Asian Studies
To sponsor the Rama Watumull Distinguished Indian Scholar personnel and travel expenses. Travel amount is for scholar to use to attend a conference while in Hawaii.	
University of Hawaii Foundation	\$7,060
<u>Promising Practices</u>	
Johnsrud, Linda K	Vice President for Academic Planning and Policy
To pay for P-20 Administrative salary & fringe charges and for consultant services to develop a recognition program framework that recognizes and promotes effective strategies for teaching and learning needed to reach the goal of every child reading on grade level by the third grade.	
University of Hawaii Foundation	\$15,000
<u>Basic Institutional Needs</u>	
Sohn, Ho-Min	Center for Korean Studies
Pay for student salaries.	
University of Hawaii Foundation	\$6,000
<u>International Longevity Center</u>	
Hayashida, Cullen	Chancellor, Kapiolani Community College
Expand gerontology program by creating an entry level paraprofessional training.	

Gifts, Grants, and Contracts for September 2009

Non-Research

Mainland- Non-Profit Organizations

Community Colleges for International Development, Inc.	\$3,619
<u>CCID - Egypt Grant</u>	
Goodman, James	Chancellor, Leeward Community College
LCC will receive funding to support a cohort size of 8 students from Egypt to attend LCC, take English courses in the English Language Institute if needed and take credit courses to achieve certificates in the area of studies chosen by the student. three students will take digital media courses, three will take business and two TV Pro.	
Monsanto Fund	\$24,725
<u>Curriculum Development for Highly Qualified Teacher Courses</u>	
Irwin, Sally	Chancellor, Maui Community College
This proposal seeks funding to promote curriculum in two crucial areas of science education in an effort to improve the retention and level of scientific knowledge achieved in Maui County School Students.	
National Academies	\$4,000
<u>Ford Foundation Diversity Fellowship for AY 2009-10</u>	
Garrod, Peter V	Graduate and Professional Education
Cost of education awards to support award recipients.	

National Aeronautics and Space Administration

National Aeronautics & Space Administration	\$30,000
<u>Connecting and Constraining Data-Driven Solar Atmosphere Models Through Observations: Studying EUV Emission in Realistic Flare-CME Environments - C. Dawns</u>	
Roussev, Iliia I	Institute for Astronomy
This project aims to include the important physics of Extreme Ultraviolet emission into a global 3D model of the solar atmosphere. This improved model will be used to best constrain observable properties of the corona as well as initiation mechanisms and subsequent evolution of solar flares and Coronal Mass Ejections.	

National Science Foundation

National Science Foundation	\$250,000
<u>IMUA 2: NSF Hawaii EPSCoR</u>	
Gaines, James R	Vice President for Research
Extend critical support personnel. Expand STEM activities in K-12 and at Kapiolani CC.	
National Science Foundation	\$4,000,000
<u>IMUA III: Pacific High Island Evolutionary Biogeography: Impacts of Invasive Species, Anthropogenic Activity and Climate Change on Hawaiian Focal Species</u>	
Gaines, James R	Vice President for Research
This capacity building proposal will enhance our science and technology capabilities for understanding and predicting how invasive species, anthropogenic activities and climate change impact the biodiversity, ecosystem function and current or potential human use of Hawaiian focal species and includes education, outreach and workforce components.	

Gifts, Grants, and Contracts for September 2009

Non-Research

National Science Foundation

National Science Foundation \$3,000,000

Collaborative Research: PACMAN -- Cyberinfrastructure for Discovering Climate Change Impacts on Water Resources Across Alaska and the Hawaiian Islands

Gaines, James R Vice President for Research

The 3-year project seeks to develop and demonstrate the capability of a Pacific Area Climate Monitoring and Analysis Network (PACMAN) designed to yield a more reliable understanding of the impacts of climate change on fresh water resources in Hawaii and Alaska.

National Science Foundation \$147,686

EAGER Collaborative Research: The Basalt-Hosted Biosphere Observatory at North Pond, Advanced Instrumentation for Transformative Science

Cowen, James P Department of Oceanography

Fabricating a third seafloor cork instrument sled (3rd of 3).

National Science Foundation \$861,092

2009 Shipboard Scientific Support Equipment

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

Requisition to augment shipboard scientific equipment of R/V Kilo Moana.

National Science Foundation \$6,600

Hawaii-Vancouver Education, Assessment, and Articulation Planning Visit: Vancouver, Canada, July-August 2009*

Taylor, Stephen V Chancellor, Kauai Community College

Kauai Community College requests \$6600 for a planning visit to the University of British Columbia, Vancouver, where participants from University of Hawaii at Manoa, Kauai Community College, and University of British Columbia will collaborate on environmental and global change education.

National Science Foundation \$470,751

MRI: Acquisition of a Versatile Single Cell Labeling and High Resolution Multi-Channel Imaging System

Martindale, Mark Q. Pacific Biosciences Research Center

Acquisition of major research instrumentation to enhance and develop the following systems: (1) microinjection (fluorescent dissecting microscope, hydraulic micromanipulator system, Eppendorf FemtoJet injection system); (2) ballistic delivery (Gene Gun); and (3) multi-channel high resolution imaging (confocal microscope).

National Science Foundation \$174,206

FSML: Improvements at the Kewalo Marine Laboratory

Martindale, Mark Q. Pacific Biosciences Research Center

Improving infrastructure at Kewalo Marine Laboratory.

US Colleges and Universities

California San Francisco, University of \$334,568

HIV Care Services Training & Educational Services

Goshima, Cyril K Department of Psychiatry

Provide HIV/AIDS Care Services Training and Educational Services to health care providers in Hawaii and South Pacific.

Subcount: 93

Subtotal: \$29,307,735

Gifts, Grants, and Contracts for September 2009

Count: 258

Total: \$77,224,918

Funds Received from UH Foundation for 09/01/2009 - 09/30/2009

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$401,068
"Support of a Marine Science Learning Center at Moku o Lo'e"
Rivera, Malia Ana J Hawaii Institute of Marine Biology
Support to develop a marine science learning center at Moku o Lo'e (Hawaii Institute of Marine Biology).

University of Hawaii Foundation \$33,000
"Rama Watumull Distinguished Indian Scholar"
Shankar, Subramanian Center for South Asian Studies
To sponsor the Rama Watumull Distinguished Indian Scholar personnel and travel expenses. Travel amount is for scholar to use to attend a conference while in Hawaii.

University of Hawaii Foundation \$15,000
"Basic Institutional Needs"
Sohn, Ho-Min Center for Korean Studies
Pay for student salaries.

Count: 11

Total: \$1,059,928

**Extramural Research Awards
for the Month of
September 2009
Distribution by Sponsors**

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	15	\$2,309,624	4.82%
DHHS-Dept of Health and Human Services	17	\$12,444,641	25.97%
DOC-Dept of Commerce	19	\$11,525,918	24.05%
DOD-Department of Defense	11	\$1,965,855	4.10%
DOE-Dept of Energy	8	\$853,631	1.78%
DOI-Dept of Interior	12	\$646,389	1.35%
ED-Dept of Education	4	\$585,790	1.22%
Foreign	6	\$832,633	1.74%
Hawaii- Business and Other	3	\$85,000	0.18%
Hawaii- Government Agencies	18	\$1,401,842	2.93%
Hawaii- Health Organizations	1	\$17,462	0.04%
Hawaii- Non-Profit Organizations	1	\$76,000	0.16%
Mainland- Business and Other	7	\$878,450	1.83%
Mainland- Health Organizations	3	\$1,134,393	2.37%
Mainland- Non-Profit Organizations	3	\$169,066	0.35%
National Aeronautics and Space Administration	5	\$958,937	2.00%
National Science Foundation	23	\$11,126,613	23.22%
US Colleges and Universities	9	\$904,939	1.89%
Total:	<u>165</u>	<u>\$47,917,183</u>	<u>100%</u>

**Extramural Non-Research Awards
for the Month of
September 2009
Distribution by Sponsors**

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	3	\$386,607	1.32%
DHHS-Dept of Health and Human Services	8	\$1,575,845	5.38%
DOC-Dept of Commerce	3	\$288,000	0.98%
DOI-Dept of Interior	6	\$107,474	0.37%
ED-Dept of Education	15	\$7,342,085	25.05%
Federal Agencies	4	\$1,750,741	5.97%
Foreign	2	\$63,373	0.22%
Hawaii- Business and Other	4	\$742,016	2.53%
Hawaii- Government Agencies	10	\$1,140,442	3.89%
Hawaii- Health Organizations	8	\$5,157,574	17.60%
Hawaii- Non-Profit Organizations	12	\$1,079,356	3.68%
Mainland- Business and Other	4	\$339,163	1.16%
Mainland- Non-Profit Organizations	4	\$60,156	0.21%
National Aeronautics and Space Administration	1	\$30,000	0.10%
National Science Foundation	8	\$8,910,335	30.40%
US Colleges and Universities	1	\$334,568	1.14%
Total:	<u>93</u>	<u>\$29,307,735</u>	<u>100%</u>

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

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	35	\$5,338,412	5.10%
DHHS-Dept of Health and Human Services	53	\$27,938,915	26.68%
DOC-Dept of Commerce	57	\$22,879,323	21.85%
DOD-Department of Defense	22	\$4,157,248	3.97%
DOE-Dept of Energy	10	\$1,114,550	1.06%
DOI-Dept of Interior	29	\$1,594,868	1.52%
ED-Dept of Education	5	\$672,198	0.64%
Federal Agencies		-\$164	0.00%
Foreign	8	\$1,019,141	0.97%
Hawaii- Business and Other	6	\$335,520	0.32%
Hawaii- Government Agencies	36	\$4,586,718	4.38%
Hawaii- Health Organizations	5	\$324,962	0.31%
Hawaii- Non-Profit Organizations	12	\$682,887	0.65%
Mainland- Business and Other	18	\$1,767,777	1.69%
Mainland- Health Organizations	5	\$1,232,203	1.18%
Mainland- Non-Profit Organizations	9	\$682,125	0.65%
National Aeronautics and Space Administration	32	\$3,179,091	3.04%
National Science Foundation	60	\$24,831,451	23.71%
US Colleges and Universities	23	\$2,386,504	2.28%
Total:	<u>425</u>	<u>\$104,723,729</u>	<u>100%</u>

Note: YTD amounts include adjustments.

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

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	8	\$2,157,382	2.65%
DHHS-Dept of Health and Human Services	29	\$8,666,856	10.64%
DOC-Dept of Commerce	9	\$672,155	0.83%
DOD-Department of Defense	1	\$175,560	0.22%
DOI-Dept of Interior	11	\$366,553	0.45%
ED-Dept of Education	48	\$25,025,093	30.74%
Federal Agencies	9	\$7,635,259	9.38%
Foreign	6	\$275,051	0.34%
Hawaii- Business and Other	14	\$1,901,570	2.34%
Hawaii- Dept of Education	2	\$34,607	0.04%
Hawaii- Government Agencies	46	\$5,984,719	7.35%
Hawaii- Health Organizations	18	\$7,613,402	9.35%
Hawaii- Non-Profit Organizations	38	\$3,702,296	4.55%
Mainland- Business and Other	5	\$425,194	0.52%
Mainland- Non-Profit Organizations	8	\$108,104	0.13%
National Aeronautics and Space Administration	1	\$30,000	0.04%
National Science Foundation	24	\$16,047,625	19.71%
US Colleges and Universities	7	\$596,005	0.73%
Total:	<u>284</u>	<u>\$81,417,431</u>	<u>100%</u>

Note: YTD amounts include adjustments.