

## Gifts, Grants, and Contracts for August 2009

The following gifts, grants and contracts received by all campuses during the period August 1, 2009 through August 31, 2009 total \$65,004,895.

### Research

#### DA-Dept of Agriculture

- Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED \$142,640  
Agricultural Diversification: Hawaii Tropical Specialty Fruit Research and Development -2009  
Vincent, Douglas L College of Tropical Agriculture and Human Resources  
The overall grant objective is to provide scientific and outreach support services that enable Hawaii entrepreneurs to increase their revenues or profits from growing and selling tropical specialty fruits from Hawaii.
- Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED \$351,028  
Vermicompost-based Media to Enhance Organic Vegetable Seedling Vigor, Yield, Crop Quality and Grower Profitability  
Radovich, Theodore J. Department of Tropical Plant and Soil Sciences  
This work will evaluate the production and economic value of replacing peat moss with locally produced vermicompost for organic seedling production.
- Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED \$144,807  
Lignocellulosic Biomass Conversion into Ethanol through Syngas Fermentation with Simultaneous Recovery of Acetic Acid using Mesoporous Silica Nanopart  
Khanal, Samir K Department of Molecular Biosciences and Bioengineering  
The project aims at converting syngas obtained from gasification of banagrass into ethanol using microbial catalyst. The project will specifically examine the mass transfer of the poorly soluble syngas in the aqueous phase. The acetic acid produced during fermentation will be recovered using nano-materials.
- Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED \$155,572  
Identification of Fusarium with Resistance in Acacia Koa  
Borthakur, Dulal Department of Molecular Biosciences and Bioengineering  
The goal of the project is to increase survival and productivity of koa (Acacia koa), the most leguminous tree in Hawaiian forests.
- Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED \$119,948  
Environmentally Accepted and Economically Viable Nitrogen and Water Best Management Practices for Tropical Conditions of Hawaii  
Fares, Ali Department of Natural Resources and Environmental Management  
This project will evaluate and recommend nitrogen and water best management practices for two different soil types in windward and leeward areas of Hawaii.
- Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED \$175,728  
Multiple Resistance to Viral and Fungal Diseases of Banana Using Gene Silencing  
Hu, John Department of Plant and Environmental Protection Sciences  
Develop and characterize transgenic banana plants with resistance to viral and fungal pathogens.
- Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED \$67,703  
Identifying Tropical Plant-Derived Sources of Dietary Iron: Linking Tropical Food Production and Consumption to Consumer Health  
Dunn, Michael A Department of Human Nutrition, Food and Animal Sciences  
The goal of this project is to create, for consumers, a data base of good food sources of iron based on tropical-plant derived foods from Hawaii and the Asia-Pacific region. Specifically, we aim to determine the iron content and iron bioavailability in selected, plant-based foods and rank those foods as good sources of iron.

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#### DA-Dept of Agriculture

- Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED \$149,952  
Construction of a High Density Genetic Map of Pineapple for Genome Sequencing and Marker-Assisted Selection  
Paull, Robert E Department of Tropical Plant and Soil Sciences  
A high-density genetic map of pineapple will be constructed using sequence-based microsatellite markers. This will be done using the next generation of sequencing technology and the published EST database. The evenly distributed microsatellite markers will be fine mapped to the agronomically important trait of leaf margin spines.
- Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED \$207,632  
Evaluating the Efficacy, Biological Interference and Nontarget Impacts of a Fireweed Biological Control Agent Release  
Rubinoff, Daniel Z Department of Plant and Environmental Protection Sciences  
Assess the impacts of an insect introduced to control a noxious weed on that weed, as well as its interactions with other plants and the potential impacts of ants on these interactions.
- Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED \$135,222  
Impacts of Nonnative Ungulates on Plant Invasions and Ecosystem Goods and Services in Native Hawaiian Forests  
Litton, Creighton Department of Natural Resources and Environmental Management  
The proposed study will quantify native and nonnative plant species biodiversity (richness and abundance) and ecosystem structure and function (productivity and carbon sequestration), in the presence and absence of feral pigs within montane wet forests in Hawai'i that are dominated by native canopy species.
- Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED \$335,000  
Tropical and Subtropical Agricultural Research (TSTAR) for Hawaii: Management 2009  
Hu, Ching Yuan College of Tropical Agriculture and Human Resources  
This grant to the UH-CTAHR provides the resources necessary to effectively manage and coordinate the Pacific Basin Administrative Group, the Pacific part of the CSREES Special Grant entitled, "Tropical and Subtropical Agricultural Research (TSTAR) Special Grants Program".
- Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED \$181,550  
Assessing Risks of Cross-Pollination from Genetically Engineered Crops to Endemic Hawaiian Species  
Wieczorek, Anna M. Department of Tropical Plant and Soil Sciences  
This project will assess risks of cross-pollination between genetically engineered crops and native plant species in the Hawaiian Islands.
- Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED \$157,000  
Indirect Effects of Biological Control: Competition, Multi-parasitism and Hyper-parasitism Among Aphid Parasitoids  
Messing, Russell H Department of Plant and Environmental Protection Sciences  
We will develop molecular diagnostic tools to determine whether competition and hyper-parasitism interfere with the success of biological control from invasive aphids in Hawaii and use this information to address regulatory concerns and improve the process of parasitoid introductions.
- Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED \$140,674  
Pineapple Heart Rot Disease Containment and Management Through Pathogen Detection and Exclusion from Latently Infected Plant Stocks  
Alvarez, Anne M Department of Plant and Environmental Protection Sciences  
Methods will be developed to detect, identify and genetically characterize the pineapple heart rot pathogen, *Erwinia chrysanthemi*. Survival and movement of the pathogen in waterways and soil will be determined. Information will be transferred to growers and industry for development of improved control measures.

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#### DA-Dept of Agriculture

Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED \$124,696

Innovative Nanoparticulate Surface Coating Technology to Minimize Fouling and Electrochemical Reactions During Tropical Juice Pasteurization

Jun, Soojin

Department of Human Nutrition, Food and Animal Sciences

Develop a carbon nanotube coating technique for thermal- and electro-heating food processors to be anti-fouling and self-cleanable during the pasteurization of tropical juices such as mango, pineapple, and orange juices.

Agriculture, Dept - FED \$131,136

Biology and Control of the Formosan Subterranean Termite

Grace, Jack Kenneth JR

Department of Plant and Environmental Protection Sciences

Develop tools and assessment methods to support community-wide termite management; detect and establish research methods for new invasive termites in Hawaii.

Agriculture, Dept - Forest Service-FED \$40,000

Integrated Weather/Fire Modeling Applications for Hawaii

Chen, Yi-Leng

Department of Meteorology

The purpose of this project is to investigate the feasibility and effectiveness of high resolution weather models as an alternative method of predicting weather conditions of interest to fire managers in tactical and strategic fire planning.

Agriculture, Dept - Forest Service-FED \$170,000

The Invasive Species/Wildfire Cycle: Fuel Loads, Microclimate, Fire Potential, and Fire Behavior in Dominant Grasslands and Adjacent Forests

Litton, Creighton

Department of Natural Resources and Environmental Management

This research will directly address knowledge gaps in tropical fire ecology by sampling fuels and microclimate regularly across a wide range of sites on Oahu. Integration of this baseline information into existing management scenarios will be crucial for validating and implementing the real-time fire potential and behavior models currently in use in Hawaii.

Agriculture, Dept - Forest Service-FED \$88,000

Effects of Mean Annual Temperature on Carbon Storage and Fluxes in Native Forests of Hawaii

Litton, Creighton

Department of Natural Resources and Environmental Management

This research will examine how the components of carbon storage (GPP, carbon allocation, and carbon losses) respond to changes in mean annual temperature.

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

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

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

Tam, Elizabeth K

Department of Medicine

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

Health & Human Svc, Dept - Natl Inst of Health (NIH) \$52,090

Patterns of Care: Diagnosis Year 2008

Goodman, Marc T

Cancer Research Center

Evaluate treatment patterns specifically for prostate cancer, non-hodgkin lymphoma (NHL), chronic lymphocytic leukemia (CLL), and gastrointestinal stromal tumor (GIST).

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

Health & Human Svc, Dept - Natl Inst of Health (NIH)	\$101,677
<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 software bundles.	
Health & Human Svc, Dept - Natl Inst of Health (NIH)	\$265,895
<u>Parallel MRI for High Field Neuroimaging</u>	
Stenger, Victor Andrew	Department of Medicine
This project is to develop and optimize the use of parallel transmitters for magnetic resonance imaging of the brain. We will produce new image acquisition methods that have reduced artifacts and improved accuracy. The methods will be validated in human studies of the brain.	
Health & Human Svc, Dept - Natl Inst of Health (NIH)	\$674,721
<u>HIV and Global Drug Therapies: Peripheral Neuropathy Complications and Mechanisms</u>	
Shikuma, Cecilia M	Department of Medicine
This proposal will study whether low baseline peripheral nerve fiber density will predict development of neuropathy in a clinical cohort in Thailand; and also study the role of mitochondria.	
Health & Human Svc, Dept - Natl Inst of Health (NIH)	\$155,948
<u>Impact of Marijuana Exposure on Brain Maturation</u>	
Cloak, Christine C	John A. Burns School of Medicine
This career development award provides support to launch an independent research career. This includes integrated didactic and research components. Adolescents with and without regular marijuana use are evaluated with several magnetic resonance imaging techniques to measure brain structure and chemistry, for correlation with measures of cognitive abilities and cortisol levels.	
Health & Human Svc, Dept - Natl Inst of Health (NIH)	\$228,000
<u>Testing Alternative Stage Models of Smoking Cessation: An Intervention Study</u>	
Herzog, Thaddeus	Cancer Research Center
An intervention study is proposed in which participants receive stage-matched interventions for smoking cessation. The 3-study conditions will use three different staging systems to determine the stage of each smoker. Stage 1 - stages for change. Stage 2 - an alternative developed by the PI. Stage 3 is a control condition.	
Health & Human Svc, Dept - Natl Inst of Health (NIH)	\$72,253
<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 software bundles.	
Health & Human Svc, Dept - Natl Inst of Health (NIH)	\$141,399
<u>PTSD Research Yr 4, FY 2010</u>	
Frueh, Christopher B.	Social Sciences-UHH - Division Office

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

Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$100,000
<u>Hawaii Minority-Based CCOP</u>	
Cho, Jonathan	Cancer Research Center
Working through Hawaii community physicians and hospitals in the absence of a University hospital or Outpatient Clinic for treatment patients, this award makes National Cancer Institute-funded treatment and prevention studies available to Hawaii cancer patients and individuals at high-risk for developing cancer.	
Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$447,582
<u>The Colon Cancer Family Registry: Hawaii</u>	
Le Marchand, Loic	Cancer Research Center
To maintain and expand the Hawaii Colorectal Cancer Family Registry for the next four years.	
Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources	\$2,906,952
<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 on Minority Hlth & Hlth Disprty	\$403,027
<u>Partnerships for Cardiometabolic Disparities in Native and Pacific Peoples</u>	
Mau, Marjorie K H	Department of Native Hawaiian Health
Additional requested funds.	
Health & Human Svc, Dept/NIH - Natl Inst of Allergy & Infectious Dis	\$191,875
<u>Novel Engineering of a P. falciparum Merozoite Surface Protein 1 Malaria Vaccine</u>	
Hui, George S N	Dept of Trop Med, Medical Microbiology and Pharmacology
To develop a blood stage vaccine against human malaria.	
Health & Human Svc, Dept/NIH - Natl Inst of Diabetes,Digestive,Kidney Dis	\$372,000
<u>Mechanism of Selenoprotein Synthesis</u>	
Berry, Marla J	Department of Cell and Molecular Biology
Scope includes investigating functions and localization of factors involved in selenoprotein synthesis, investigating interactions between these factors and other interaction partners.	
Health & Human Svc, Dept/NIH - Natl Inst of Mental Health	\$49,950
<u>Mentoring/Carrer Development in PTSD Services Research (ARRA)</u>	
Frueh, Christopher B.	Social Sciences-UHH - Division Office
Administrative supplement to support and accelerate the tempo of current study aims of the parent grant	

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#### DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$218,887
<u>Mechanisms of Atmospheric Mercury in Transport and Transformation in the Remote Pacific Marine Free Troposphere Measured in Hawaii</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
A data set will be assembled that will include the atmospheric measurements currently being conducted at Mauna Loa Observatory and the mercury measurements.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$93,800
<u>NOAA PMEL PICO R&amp;D</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
Pacific Marine Environmental Laboratory (PMEL) will use the PRAWLER (a subsurface instrumentation package capable of profiling the water column up & down the mooring line) systems for real time monitoring & transmission of subsurface data in deep-ocean testing grounds south of Oahu.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$124,551
<u>Profiling CTD Float Array Implementation and Ocean Climate Research</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
1) To support the profiling CTD floats through testing, deployment, and management of a subset of these floats; 2) To perform scientific analysis including estimates of ocean heat variability using the float and other data.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$176,782
<u>Determining the Biodiversity of Coral Reef Ecosystems Using Time-Series Acoustic Data</u>	
Au, Whitlow W L	Hawaii Institute of Marine Biology
Determining the biodiversity of coral reef Environment using acoustic time-series data.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$65,000
<u>HURL Annual Funding</u>	
Wiltshire, John C	Hawaii Undersea Research Laboratory
This proposal provides FY2008, FY2009 funding for the Hawaii Undersea Research Laboratory.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$101,432
<u>Detection and Control of Salmonella in Ahi and Pacific White Shrimp</u>	
Li, Yong	Department of Human Nutrition, Food and Animal Sciences
This project proposes to exploit a novel technique for rapid detection of living Salmonella cells in ahi and Pacific white shrimp. Work will also focus on practical seafood safety interventions, including ozone treatment and antimicrobial ice.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$137,035
<u>Pacific RISA Integrated Climate Program Support</u>	
Anderson, Cheryl	Joint Institute for Marine and Atmospheric Research
To provide ongoing support and collaboration for a Pacific Regional Integrated Climate and Assessment (RISA) climate program that responds to regional stakeholder climate needs, specifically related to issues in coping with drought and extreme climate impacts.	

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#### DOC-Dept of Commerce

- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$250,400  
WHOTS-6 Cruise Plan: WHOI Hawaii Ocean Timeseries Station, Sixth Setting  
Schroeder, Thomas A Joint Institute for Marine and Atmospheric Research  
Mooring operations to provide long-term, high-quality air-sea fluxes and upper ocean temperature, salinity and velocity as a coordinated part of the Hawaii Ocean Timeseries (HOT) program, and contribute to the goals of observing heat, fresh water and chemical fluxes at a site representative of the oligotrophic North Pacific Ocean.
- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$141,900  
Joint Institute for Marine and Atmospheric Research (JIMAR) - Task I  
Schroeder, Thomas A Joint Institute for Marine and Atmospheric Research  
To support administration and visiting scientist program activities.
- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$1,742,160  
Joint Institute for Marine and Atmospheric Research (JIMAR)  
Schroeder, Thomas A Joint Institute for Marine and Atmospheric Research  
To continue JIMAR's funding to June 30, 2011 under the current cooperative agreement with NOAA. These funds will cover various types of projects at various locations. Therefore, specific indirect cost rates, locations and certifications are not addressed here, but will be at the time each proposal is submitted.
- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$2,043,000  
Facilitation of Collaborative Monitoring, Research, and Data Management Between US DOC/NOAA/NOS/ONMS and the University of Hawaii  
Toonen, Robert J Hawaii Institute of Marine Biology  
Facilitation of collaborative monitoring, research, and data management between US DOC/NOAA/NOS/ONMS and
- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$41,207  
Remote Versus Local Forcing of Intraseasonal Variability in the IAS Region: Consequences for Prediction  
Xie, Shang-Ping Joint Institute for Marine and Atmospheric Research  
To use regional and global models to assess the remote versus local control of intraseasonal variability in the Intra-Americas Sea (IAS) region.
- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$375,000  
Fisheries Oceanography: Protected Species Research Program  
Schroeder, Thomas A Joint Institute for Marine and Atmospheric Research  
Field personnel will conduct research on Hawaiian monk seals in the Northwestern Hawaiian Islands. While deployed in field camps, researchers will carry out a variety of activities: populations survey, tagging & marking, specimen collection, interventions to improve survival, mortality mitigation, data processing.
- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$34,103  
High Resolution Climate Data Sets for Climate Diagnostics and Climate Change Detection in Hawaii  
Giambelluca, Thomas W Department of Geography  
We propose to develop the necessary data sets and analytical tools to develop a statewide temperature and precipitation data set from the earliest possible date in order to enable continued monitoring of the State's climate and to develop candidate regional-grouping analogous to the contiguous U.S. Climate Division records.

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#### DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$212,809
<u>Pacific ENSO Application Center (PEAC)</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
Conduct research on experimental climate prediction and impacts of interannual climate variability on the economies, cultures and public health of the U.S. -affiliated Pacific Islands.	
Commerce, Dept/NOAA - National Ocean Service (NOS)	\$113,128
<u>NEPA Initiative</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To obtain technical assistance on an activity and project specific basis to ensure and legally sufficient agency compliance with applicable National Environmental Policy Act (NEPA) requirements.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$184,143
<u>Contribution, Linkages and Impacts of the Fisheries Sector to the Economies of Hawaii and Other U.S.-Affiliated Pacific Islands: An Extended Input-Output Analysis</u>	
Leung, Ping Sun	Joint Institute for Marine and Atmospheric Research
To provide up to date information on the economics importance & value of the various fisheries in Hawaii & other Pacific Islands. To update Input-Output (I-O) analysis on Hawaii's fisheries based on 2002 I-O model & recent cost-earnings information, & to support series of economic data collection activities.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$78,507
<u>Marine Resource Dynamics Assessment Program (MARDAP): Sociocultural Profile of Pacific Islands Fishing Ports</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To develop a social & cultural database of fishing ports & associated communities in Hawaii, Guam, commonwealth of Northern Marianas, & American Samoa. Top provide a standard set of info for all Western Pacific fishing communities and ports that is consistent with profiles currently being developed in other parts of the country.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$255,000
<u>Fisheries Oceanography: Marine Turtle Research Program</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To conduct critical research on sea turtle biology and ecology, and foundation activities including training of Pacific islanders and information exchange, fishery observer training, fishery interaction data collection, collection of field	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$172,178
<u>Marine Resource Dynamics Assessment Program (MARDAP): Research Support</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
Continuation of administrative and facilities support for research operations as part of the ongoing research under the Marine Resource Dynamics Assessment Program.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$12,485
<u>Reducing Shark Bycatch with Electropositive Metals</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To conduct experimental longline trials field-testing the effects of E+metals on the catch rates of sharks and other fish species as well as behavioral experiments with captive animals.	



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#### DOC-Dept of Commerce

Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$139,000
<u>Marine Resource Dynamics Assessment Program (MARDAP): Research Support - Fisheries Data Monitoring</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
Research support for fishery data monitoring operations.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$440,660
<u>Climate Change and Ecosystem Variability in the North Pacific Ocean and the Dynamics of Marine Resource Populations</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
Seeks to improve understanding of the linkages between environmental & biological variability on interannual to decadal time scales, & to provide access to an expanded suite of satellite oceanographic data assembled by NOAA for use in physical, biological, & fisheries oceanography research.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$215,000
<u>Western Pacific Fishery Information Network Project</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
Provide technical and operational support to members of the participating agencies to provide best-available fisheries data to scientists, research, and managers within the Joint Institute for Marine and Atmospheric Research (JIMAR), University of Hawaii (UH), National Marine Fisheries Service (NMFS), and Western Pacific Fishery Information Network (WPacFIN).	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$175,895
<u>Pacific Islands Observer Program Initiative</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To collect high quality data on protected species interactions that occur in the fishing industry. observers are trained by the Pacific Islands Regional Observer Program (PIROP) staff to collect data on protected species interactions, fishing effort, total catch composition, and selected fisheries research projects.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$317,959
<u>Marine Resource Dynamics Assessment Program (MARDAP): Research Support - Scientific Information Services (SIS)</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
1) Complete redesign of Web site, and improve development of Web content, 2) Provide comprehensive professional editing services to program staff, and 3) Provide technical support to the Pacific Islands Fisheries Science Center Information Services group on various aspects of Data Services.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$125,505
<u>Applications of Satellite Ocean Remote Sensing to Living Marine Resources (Ocean Remote Sensing)</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To develop and integrate information derived from analyses of satellite oceanographic data into population dynamics research.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$38,556
<u>International Fisheries: Marine Turtle Conservation and Management Initiative</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To introduce fishermen, fishery administrator, policy makers & other relevant stakeholders info & materials designed to increase the opportunities for survival by marine turtles that might be captured during the course of pelagic fishing operations in the exclusive zones of the Fed States of Micronesia, Solomon Islands, & New Caledonia.	

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#### DOC-Dept of Commerce

Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$537,213
<u>Protected Resources Environmental Compliance Initiative (PRECI)</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To establish & maintain enhanced management based on scientific research for protected resources. Research conducted will be used to assist resource managers in decision making & directing further investigation in habitat & protected species, enhance interagency cooperation, conduct research, outreach & education.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$64,946
<u>Meso-photic Reef Ecosystem of Hawaii's Au'au Channel</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To characterize the physical and biological nature of meso-photic coral reefs in Hawaii as a starting point to address meso-photic corals throughout the Archipelago and wider Pacific.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$88,500
<u>Cetacean Oceanography</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To work with researchers at the University of Hawaii to analyze several data sets collected by cetacean ecologists. Specifically, this includes data on the movements of cetaceans collected from electronic tags, and physical oceanographic and acoustic data collected from sea gliders.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$151,061
<u>Marine Resource Dynamics Assessment Program (MARDAP): Stock Assessment Research Program</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To assess (1) the status of billfish, tuna, coastal pelagic species, bottomfish, coral reef fish and lobster stocks in the Western & Central Pacific Ocean, (2) impacts of fishing on these stocks.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$125,000
<u>Fisheries Oceanography: Methods Aimed to Reduce Sea Turtle-Longline Interactions: Tests of Modified Baits and Fishing Gear</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To identify a method to reduce or eliminate interactions between long-line fishing gear and turtles, and to conduct bycatch mitigation research with sharks.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$193,250
<u>Pacific Islands Monitoring and Sampling Program</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To develop a Pacific Islands Monitoring & Sampling Program in the U.S. jurisdictions in the Pacific Islands Region (initially Guam and the Commonwealth of the Northern Mariana Islands (CMNI)). Work includes collection of samples, sample processing & data management & archiving on bottomfish.	

#### DOD-Department of Defense

Defense, Dept - Army	\$65,621
<u>Pacific Rim Environmental Degradation of Materials Research Program</u>	
Hihara, Lloyd H	Department of Mechanical Engineering
Outdoor and laboratory corrosion studies throughout the Hawaiian Islands and the Pacific Rim on advanced materials for development and verification of corrosion models using computers, development of corrosion sensors for corrosion detection, and corrosion control strategy development.	

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## Research

### DOD-Department of Defense

Defense, Dept - Office of Naval Research \$74,301

Quasi-Ceramic Silicone Conversion Coating for Corrosion Protection of Aluminum Alloys

Hihara, Lloyd H Department of Mechanical Engineering

Quasi-ceramic silicone coatings will be synthesized and examined for corrosion protection of aluminum alloys.

Defense, Dept - U.S. Army Engineer Rsch & Dev Ctr \$500,000

Corrosion Control Studies of Aluminum and Aluminum-Composite Interfaces in Diverse Micro-Climates

Hihara, Lloyd H Department of Mechanical Engineering

Conduct research in corrosion protection of structural interfaces and atmospheric corrosion protection of aluminum using novel coatings. Studies will be conducted in the laboratory to identify corrosion mechanisms and in the field to determine performance in natural environments.

### DOE-Dept of Energy

Energy, Dept - FED \$68,113

Research on Distributed Electricity Systems Resources, Amdt 001

Surles, Terrance Hawaii Natural Energy Institute

Managing distribution system resources for improved service quality and reliability, transmission congestion relief, and grid support functions. Amendment 001 involves the awarding of funds from the American Recovery and Reinvestment Act of 2009 (Recovery Act). Recovery Act funds come with a different set of terms and conditions compared to the original funds.

Energy, Dept - FED \$192,806

Synthesis of New Diamond-Like B-C Phases Under High Pressures and Temperatures

Ming, Li-Chung Hawaii Institute of Geophysics and Planetology

Create a new diamond-like material using only Boron and Carbon.

### DOI-Dept of Interior

Interior, Dept - National Park Service \$13,983

Striped Mullet in Hawaii

Beets, James Natural Sciences-UHH

Provide information regarding the biology, ecology, traditional use, aquaculture and fisheries for the striped mullet as part of pond restoration at Kaloko-Honokohau Natl Historical Park

Interior, Dept - National Park Service \$49,957

Hawaii Volcanoes National Park Traffic and Parking: Current Issues, Future Solutions

Prevedouros, P. D. Department of Civil and Environmental Engineering

The primary purpose of the project is the data collection, and analysis of the traffic circulation and parking data that are contemporaneously and consistently collected, analyzed and compared with those collected by the park fee station, and with other historical data. The main outcome is to identify traffic related issues and corresponding solutions.

## Gifts, Grants, and Contracts for August 2009

### Research

#### DOI-Dept of Interior

Interior, Dept - U.S. Fish & Wildlife Service	\$20,000
<u>Five Year Review of the Status of the Genus Achatinella</u>	
Hadfield, Michael G	Pacific Biosciences Research Center
Assess data collected and the current status of all species in PI's laboratory, plus any other published information about the distribution and abundance of the endangered species in the field.	
Interior, Dept - U.S. Fish & Wildlife Service	\$90,000
<u>Conservation Biology of Federally Endangered Hawaiian Tree Snails: Captive Propagation Laboratory</u>	
Hadfield, Michael G	Pacific Biosciences Research Center
To continue the conservation effort in three areas (1) captive propagation of threatened and endangered Hawaiian tree snails; (2) monitor residual populations of Achatinella ssp. In the Koolau and Waianae Mountains; (3) periodically survey mountain areas on Oahu that are unknown to us or where recent surveys have not been carried out.	
Interior, Dept - U.S. Fish & Wildlife Service	\$223,963
<u>Project Support for Invasive Species Committees</u>	
Duffy, David C	Department of Botany
conduct early detection research and strategies for high risk invasive species.	
Interior, Dept - U.S. Geological Survey	\$20,000
<u>UHH Developing Strategies: Managing Mouflon</u>	
Ziegler-Chong, Sharon	Pacific Aquaculture-UHH
Interior, Dept - U.S. Geological Survey	\$9,900
<u>Palila Restoration Research 2009</u>	
Ziegler-Chong, Sharon	Pacific Aquaculture-UHH
Continue to analyze data, write reports, and monitor the palila population	
Interior, Dept - U.S. Geological Survey	\$21,000
<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 Hawaiian forest birds, including population estimates, distribution maps, and trends analysis	
Interior, Dept - U.S. Geological Survey	\$11,830
<u>Koa Ohia Community Ecology: Food Webs</u>	
Ziegler-Chong, Sharon	Pacific Aquaculture-UHH
Identify major arthropod prey of forest birds, including their young and the bat using microscopic examination of stomach lavage (birds) and fecal samples (birds and bat)	

## Gifts, Grants, and Contracts for August 2009

### Research

#### DOI-Dept of Interior

Interior, Dept - U.S. Geological Survey <u>Conservation Genetics: Molecular Tools</u> Ziegler-Chong, Sharon	Pacific Aquaculture-UHH	\$75,093
Interior, Dept - U.S. Geological Survey <u>Development of Biological Data Resource</u> Ziegler-Chong, Sharon	Pacific Aquaculture-UHH	\$140,165
Interior, Dept - U.S. Geological Survey <u>PBIN: PIERC Data Management &amp; Invasive Species</u> Ziegler-Chong, Sharon	Pacific Aquaculture-UHH Pacific Island Ecosystems Research Center (PIERC) data initiatives	\$85,000
Interior, Dept - U.S. Geological Survey <u>Numerical Simulation of the Effects of Borehole Flow on Measured Vertical Salinity Profiles from Deep Monitor Wells, Pearl Harbor Aquifer, Oahu, Hawaii</u> El-Kadi, Aly I	Water Resources Research Center A Model will evaluate the effects of borehole flow on measured salinity profiles from deep monitor wells incorporating data from the Pearl Harbor aquifer. The results will be used to assess differences between vertical salinity profiles in open boreholes and the adjacent areas in the aquifer.	\$45,000
Interior, Dept - U.S. Geological Survey <u>UHH Controlling Invasive Ants</u> Ziegler-Chong, Sharon	Pacific Aquaculture-UHH	\$54,000

#### ED-Dept of Education

Education, Dept - FED <u>Distance Education Clearing House for the Indonesian Language</u> Kozok, Ulrich	Department of Indo-Pacific Languages and Literatures Developing teaching modules for distance education in intermediate Indonesian.	\$86,408
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#### Foreign

Institute of Geological and Nuclear Sciences (NZ) <u>Geological Hazards and Society</u> Houghton, Bruce F.	Department of Geology and Geophysics Studies of natural hazards in New Zealand and Hawaii, using physical and social science approaches.	\$67,500
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## Gifts, Grants, and Contracts for August 2009

### Research

#### Foreign

Pusan National University \$119,008  
Development of a MME System for ISO Prediction and Improvement of Coupled Model Initialization  
Wang, Bin Department of Meteorology  
Facilitate establishment of APCC one-tier seasonal prediction system and development of the capacity for intraseasonal prediction.

#### Hawaii- Business and Other

Sea Life Park, Hawaii \$100,000  
Develop Live Cetacean Stranding Reponse Team  
Turner, Jason Natural Sciences-UHH  
Aid and assist stranded Cetaceans

#### Hawaii- Government Agencies

Health, Dept - HI \$150,000  
Teen Dating Violence Prevention Research Dissemination; ASO Log No. 10-098  
Helm, Susana Department of Psychiatry  
Develop a science-based teen dating violence prevention curriculum using a train-the-trainer approach.

Health, Dept - HI \$40,000  
The SATC Curriculum Evaluation Project  
Baker, Charlene Department of Psychology  
This project will evaluate the Sex Abuse Treatment Center's K-12 curricula to prevent sexual violence among children and teens. The project will be implemented in the schools and will involve pre and post-testing of students to assess changes in knowledge, attitudes, and behaviors.

Health, Dept - HI \$165,000  
Source Water Assessment Program (SWAP), Maintenance 2008-11  
El-Kadi, Aly I Department of Geology and Geophysics  
Assess the susceptibility of new drinking sources to contamination, update potentially contaminating activities databases, and do-pre-construction assessments of proposed drinking water source locations.

Human Services, Dept - HI \$322,925  
Partnership on Long Term Care Services and Policies  
Nixon, David C Public Policy Center  
Agreement between HI Dept Human Services, and UH Social Sciences Public Policy Center to conduct research on long term care services and policies, in cooperation with HI Long Term Care Commission.

Human Services, Dept - HI \$286,950  
Partnership on Long Term Care Services and Policies  
Nixon, David C Public Policy Center  
Agreement between HI Dept of Human Services, and UH Social Sciences Public Policy Center to conduct research on long term care services and policies, in cooperation with HI Long Term Care Commission.

## Gifts, Grants, and Contracts for August 2009

### Research

#### Hawaii- Government Agencies

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI \$8,000  
Population Distribution and Trends in the Hawaiian Hoary Bat  
Ziegler-Chong, Sharon Pacific Aquaculture-UHH

Transportation, Dept - HI \$87,634  
Structural Health Monitoring and Reliability Analysis of Highway Bridges Using Smart Sensor Technology  
Ma, Tianwei Department of Civil and Environmental Engineering  
To instrument selected highway bridges with sensors to monitor the bridge performance and to analysis the reliability of the bridges.

#### Hawaii- Health Organizations

Kaiser Permanente - HI \$100,000  
The Implementation and Evaluation of a Comprehensive Provider Toolkit to Assess and Manage Childhood Obesity  
Okiihiro, May Department of Pediatrics  
This project will determine the steps needed for optimal implementation of a comprehensive pediatric weight management toolkit, in a variety of clinical settings, evaluate the effectiveness of the toolkit in assessment and management of childhood obesity from the perspective of the patient, the parent and pediatric provider.

Kaiser Permanente - HI \$100,000  
The Implementation and Evaluation of a Comprehensive Provider Toolkit to Assess and Manage Childhood Obesity  
Okiihiro, May Department of Pediatrics  
This project will determine the steps needed for optimal implementation of a comprehensive pediatric weight management toolkit, in a variety of clinical settings, evaluate the effectiveness of the toolkit in assessment and management of childhood obesity from the perspective of the patient, the parent and pediatric provider.

Kaiser Permanente - HI \$100,000  
The Implementation and Evaluation of a Comprehensive Provider Toolkit to Assess and Manage Childhood Obesity  
Okiihiro, May Department of Pediatrics  
This project will determine the steps needed for optimal implementation of a comprehensive pediatric weight management toolkit, in a variety of clinical settings, evaluate the effectiveness of the toolkit in assessment and management of childhood obesity from the perspective of the patient, the parent and pediatric provider.

Queen's Medical Center \$7,500  
Developing the Emotional Intelligence of Nurse Managers  
Codier, Estelle E Department of Nursing  
The purpose of this research study is to evaluate the impact of a program to support the development of emotional

## Gifts, Grants, and Contracts for August 2009

### Research

#### Hawaii- Non-Profit Organizations

Hawaii Community Foundation (HCF)	\$50,000
<u>Discovery of Bioactive Compounds for Smoking Cessation</u>	
Chang, Leng Chee	College of Pharmacy-UHH
Discover the active compounds of vernonia cinerea Less which may be of potential use for smoking cessation	
Tri-Isle Resource Conservation & Dev Council	\$123,000
<u>Maui Invasive Species Committee Coqui Frog Project: FY 09</u>	
Duffy, David C	Department of Botany
Develop and implement long-term detection and control strategy for coqui frogs on Maui.	
Tri-Isle Resource Conservation & Dev Council	\$56,795
<u>East Maui Watershed Protection: Ha`iku Uka and Pu`u Pahu</u>	
Morden, Clifford W	Department of Botany
Control feral ungulates and invasive plants in Ha`iku Uka and Pu`u Pahu on East Maui. Collect and analyze data to create future management plan and improve future control efforts.	
University of Hawaii Foundation	\$2,592
<u>Fairmont Orchid Reef Monitoring</u>	
Adolf, Jason	Natural Sciences-UHH
Monitor nutrient levels in anchialine ponds and adjacent coastal areas in order to better understand the impact of nutrients delivered by groundwater on the coastal ecosystem.	
University of Hawaii Foundation	\$2,875
<u>Ha Kam Wi Tawk Pidgin Yet?</u>	
Higgins, Christina M	Department of Second Language Studies
The project will analyze transcribed interview data and will result in educational materials for pre-service and in-service teacher training about language in Hawai'i.	
University of Hawaii Foundation	\$241,250
<u>Kamehameha School Research Fellow Program</u>	
Soifer, Aviam	William Richardson School of Law
Implement Kamehameha School Research Fellowship Program to advance knowledge, scholarship or learning in Native Hawaiian Law.	
YWCA of Oahu	\$20,300
<u>YWCA of Oahu and Child &amp; Family Service Collaborative Project</u>	
Mills, Crystal	School of Social Work
The YWCA of Oahu and Child & Family Services are developing a strategic partnership to explore natural synergies and leverage resources to enhance service delivery to women and children, UH-SSW proposes to serve as the third-party evaluator for the partnership.	



## Gifts, Grants, and Contracts for August 2009

### Research

#### Mainland- Business and Other

Alaska Department of Fish and Game	\$59,394
<u>Acoustic Monitoring for the Presence of Beluga Whales in Cook Inlet, Alaska</u>	
Lammers, Marc	Hawaii Institute of Marine Biology
Acoustic recording instruments will be deployed in Cook Inlet, Alaska to study the occurrence and movement of beluga whales. This information will be used to establish areas of critical habitat that will aid in the conservation of these endangered animals.	
Battelle Energy Alliance LLC.	\$76,610
<u>Path Dependence Degradation Analysis of Li-Ion Battery for PHEV Applications</u>	
Liaw, Bor Yann	Hawaii Natural Energy Institute
To assist Idaho National Laboratory develop a path dependent test protocol and conduct supplemental tests for battery degradation analysis. Investigate the degradation mechanism under PHEV duty cycles.	
Booz, Allen & Hamilton Inc	\$43,634
<u>caBIG<sub>2</sub> Enterprise Phase</u>	
Wilkins, Lynne R	Cancer Research Center
The applicant will participate in projects of the Vocabulary and Common Data Elements Workspace of NCI's caBIG <sub>2</sub> project, an informatics initiative aimed at standard infrastructure for data sharing. Specific tasks will include review of software applications for compatibility and development and dissemination of information on common data element standards.	
Health Research, Inc	\$197,992
<u>Chemical Markers of Heterocyclic Aromatic Amines for Human Biomonitoring</u>	
Le Marchand, Loic	Cancer Research Center
Establish noninvasive chemical markers of heterocyclic aromatic amines (HAAs) to allow for an assessment of long-term HAA exposure through the diet to determine cancer risk.	
Jet Propulsion Lab	\$61,605
<u>GASPS: Gas in Protoplanetary Systems</u>	
Williams, Jonathan P.	Institute for Astronomy
We will use the unique capabilities of the Herschel satellite to observe far-infrared spectral lines from atomic and molecular gas in protoplanetary systems. Our international team will carry out the first extensive and systematic survey of gas in the planet forming regions of circumstellar disks around over 250 stars with ages from 1 to 30 Myr.	
Jet Propulsion Lab	\$20,582
<u>The Great Observatories Origins Deep Survey: Imaging with Herschel</u>	
Morrison, Glenn	Institute for Astronomy
Participate as Co-I on a team of investigators to analyze, interpret and publish data obtained from the Herschel Space Observatory Cycle-0 for the Great Observatories Origins Deep Survey project. If approved, funding will be awarded via a sub-award issued directly to the University of Hawaii.	
MERCK & Company, Inc	\$273,400
<u>SEARCH VN 001 - Open-label, randomized, pilot study of the efficacy and hepatic safety of a raltegravir-based and efavirenz-based regimens...</u>	
Shikuma, Cecilia M	Department of Medicine
To conduct a trial designed to study the safety and effectiveness of two different antiretroviral regimens when used in the treatment of HIV specifically in HIV-related individuals co-infected with hepatitis C.	

# Gifts, Grants, and Contracts for August 2009

## Research

### Mainland- Health Organizations

Children's Hospital Los Angeles \$810  
Kids Seek Cure for Kids  
Nerurkar, Vivek R Dept of Trop Med, Medical Microbiology and Pharmacology  
The goal of this project is to train Chihui Yuan in conducting research in the John A. Burns School of Medicine.

Riverside Research Institute \$97,000  
Advanced Ultrasonic Evaluation of Sentinel Lymph Nodes  
Machi, Junji Department of Surgery  
Using special advanced ultrasound techniques, we are trying to make a diagnosis of cancer in lymph nodes, which will help pathologists. We focus on sentinel lymph nodes of breast cancer so that diagnosis of lymph node metastasis will be improved in a non-invasive way.

### Mainland- Non-Profit Organizations

Casey Family Programs \$24,300  
Rapid Assessment Instrument Pilot Program  
Tochiki, Laurie Arial William Richardson School of Law  
Perform legal research including data collection from the Rapid Assessment Instrument Pilot Programs on Maui, Coy, and Oahu to reduce the number of children in out-of-home placements.

NSABP Foundation, Inc \$21,600  
Addendum to TIND - 118 Industrial Master Purchased Services Agreement, Subpart B-43  
Oishi, Robert H Cancer Research Center

National CFIDS Foundation \$91,160  
CFS: Screening for BMAA in CFS Serum Samples and the Effects of Toxins, Lipid Substances, and antibodies to Phospholipids on Mitochondria and NB Cells  
Davis, Harry B IV Dept Anatomy, Biochemistry, Physiology and Reproductive Biol  
Sera samples from Chronic Fatigue patients will be sent to the lab by their physicians and will be screened for specific toxins and antibodies. Tissue culture and animal tissues will also be examined.

### National Aeronautics and Space Administration

National Aeronautics & Space Administration \$60,000  
Testing the Relation Between UVVIS Color and TiO<sub>2</sub>  
Gillis-Davis, Jeffrey Hawaii Institute of Geophysics and Planetology  
We propose to integrate lab experiments, spectral modeling, and remote sensing data to examine the extent to which color variations in lunar basalts depend upon ilmenite content and how other factors contribute or detract from this canonical correlation. This work aims to provide quantitative and geologic understanding of factors that affect the UVVIS continuum.

## Gifts, Grants, and Contracts for August 2009

### Research

#### National Aeronautics and Space Administration

National Aeronautics & Space Administration \$122,076

Investigation of Tropical Cyclone Intensity Change and Genesis with EOS Observations and Cloud-Resolving HWRP Model

Wang, Bin Department of Meteorology

Use diverse global NASA Satellite observation and high-resolution numerical model to study tropical cyclone intensity change and genesis mechanism.

National Aeronautics & Space Administration \$169,213

High Performance Thermal Infrared Interferometer Spectrometer

Lucey, Paul Hawaii Institute of Geophysics and Planetology

This project will develop an infrared imaging system that enables mapping of minerals and other constituents on the surface of planets.

National Aeronautics & Space Administration \$88,365

Remote Sensing Studies of Lunar Pyroclastic Deposits

Hawke, Bernard Ray Hawaii Institute of Geophysics and Planetology

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

National Aeronautics & Space Administration \$53,309

Geodynamic Behavior of an Active Eruptive Vent from GPS, Tilt, Gravity, and INSAR: A Unique Opportunity to Integrate Research and Education Using

Brooks, Benjamin A Hawaii Institute of Geophysics and Planetology

Install various geodetic instruments on Kilauea volcano.

National Aeronautics & Space Administration \$83,884

Comets and the Early Solar System

Meech, Karen J Institute for Astronomy

To investigate the primordial properties of comets in three focused and related research areas which relate the understanding of the nucleus characteristics to the mechanisms of activity and ultimately to better understand the comet formation process in the early solar system.

National Aeronautics & Space Administration \$28,565

Integrating MESSENGER Data to Investigate the Origin of Mercury's Inter crater and Smooth Plains Deposits

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 \$21,000

Nature of Oxygen Isotopic Exchange in Refractory Inclusions

Krot, Alexander N Hawaii Institute of Geophysics and Planetology

Studies isotopic composition of materials.

## Gifts, Grants, and Contracts for August 2009

### Research

#### National Science Foundation

National Science Foundation \$450,000

Mechanistic Studies of the Adenosylmethionine Radical Enzyme Biotin Synthase

Jarrett, Joseph T Department of Chemistry

Biotin is an essential vitamin for humans but is only made by bacteria, yeast, and plants. We are studying how biotin is made in bacteria, and in particular how a sulfur atom is inserted into the vitamin.

National Science Foundation \$37,073

Collaborative Research: Development of a Fracture Processes Facility at DUSEL Homestake

Martel, Stephen J Department of Geology and Geophysics

Dr. Martel will contribute to the preparation of a proposal for experiments to create faults at the homestake deep underground science and engineering laboratory (Dusel) in South Dakota.

National Science Foundation \$189,279

Collaborative Research: Eddy-Dynamics and Impacts of Low-Frequency Variations in the California Current System

Schneider, Niklas Department of Oceanography

Investigate the role of ocean eddies in low frequency variations of the current and tracers in the California Current System.

National Science Foundation \$377,634

Collaborative Research: Modified Circumpolar Deep Water Intrusions as an Iron Source to the Summer Ross Sea Ecosystem

Measures, Christopher Department of Oceanography

Study the natural iron-fertilization process by upwelled modified circumpolar deep water in the Ross Sea, which is one of the most productive regions in Southern Ocean and How the biotic communities that live in the region react to this fertilization.

National Science Foundation \$407,705

Functional Approaches to the Origin of the Bilaterally Symmetrical Body Plan in Animal Development

Martindale, Mark Q. Pacific Biosciences Research Center

To document anatomical features of bilateral symmetry in the nervous system of "simple" animals (sea anemones) and to investigate whether the molecular basis for bilaterality is the same in this group as it is in "higher" animals.

National Science Foundation \$97,736

Collaborative Research in IPY: Abrupt Environmental Change in the Larsen Ice Shelf System, a Multidisciplinary Approach - Marine Ecosystems

Smith, Craig R Department of Oceanography

We will evaluate patterns of seafloor community development beneath the recently collapsed Larsen B ice shelf, and explore the biodiversity of a the first known cold seep on the Antarctic margin.

National Science Foundation \$43,383

Support of the Generic Mapping Tools

Wessel, Paul Department of Geology and Geophysics

Researcher proposes to implement support for the OGR/GIS file format in GMT and to extend our support for Google Earth overlays.

## Gifts, Grants, and Contracts for August 2009

### Research

#### National Science Foundation

National Science Foundation \$74,201

GSE/RES The Role of Gender in Language Used by Children and Parents Working on Mathematical Tasks

Olson, Judith K Curriculum Research and Development Group

Examine video tapes from selected parent-child dyads to code non-verbal actions and compare the results to the verbal interactions already coded from the same dyads.

National Science Foundation \$133,363

Collaborative Research: A Pilot Study of the Spatiotemporal Scales of Diversification in the Pandora Moth/Ponderosa Pine System Using Dendrochronology and Evolutionary Biogeography

Jorgensen, Stacy M Department of Geography

This project will examine the temporal and spatial dynamics of pandora moth outbreaks in ponderosa pine forests of western North America through the use of tree-ring and genetic analysis. I am collaborating with Dr. James Speer at Indiana State University. [This is a reworking of NSF Proposal Number 0852085.]

National Science Foundation \$6,201,878

The Hawaii Ocean Time-series (HOT): Sustaining Ocean Ecosystem and Climate Observations in the North Pacific Subtropical Gyre

Church, Matthew J. Department of Oceanography

The primary objectives of this study are to examine climate-linked changes in ocean biogeochemistry and physics through monthly research cruises to the North Pacific Ocean.

National Science Foundation \$200,286

Collaborative Research: GEOTRACES N Atlantic Section, Shipboard and Shorebased Determination of Key Trace Elements

Measures, Christopher Department of Oceanography

A better understanding of how global ocean biogeochemical cycles operate.

National Science Foundation \$749,795

Pacific Alliance for Supporting Individuals with Disabilities in STEM Fields Partnership (Pacific Alliance)

Stodden, Robert A Center on Disability Studies

The Pacific Alliance, led by CDS staff at UH-M, is designed to significantly increase and broaden participation of students with disabilities who enroll in and complete 2- and 4-year undergraduate degrees in STEM fields, enter STEM graduate programs, and enter the STEM workforce within Hawaii and US Pacific Jurisdictions.

National Science Foundation \$39,387

Collaborative Proposal: Influence of Plate Boundary Evolution and Global Mantle Flow on Ridge Geodynamics

Conrad, Clinton P Department of Geology and Geophysics

We propose to develop numerical models of mantle flow beneath the East-Pacific Rise (EPR) region. We will use these models to predict along-axis variations in thermal structure and magma supply, and compare these predictions to observations of seismic velocity, ridge axis depth, hydrothermal vent distribution, and lava composition.

National Science Foundation \$75,565

RREADI3 - TCS Eruption Dating Readiness and Decadal Magmatic Timing Studies for the EPR ISS

Rubin, Kenneth H Department of Geology and Geophysics

This project continues the readiness of a short-fuse high resolution rock dating facility that the PI has established at UH and also provides funding to refine the dating method based on 138 day half-life 210 Po.

## Gifts, Grants, and Contracts for August 2009

### Research

#### National Science Foundation

National Science Foundation \$346,167

Internat'l Collaboration in Chemistry: NHC-Pd Catalytic Systems (NHC = N-Heterocyclic Carbene) for the Synthesis of Novel Triarylamine Polymers Containing Fused Heterocyclic Rings

Navarro, Oscar Department of Chemistry

To develop new catalytic systems for the synthesis of novel conjugated polymers by Suzuki-Miyaura and Buchwald-Hartwig couplings under mild reaction conditions. To evaluate the potential of these organic semiconductors in OFETs and in sensor arrays.

National Science Foundation \$356,191

Effect of Melt Supply on MORB Compositions at Local and Regional Scales

Rubin, Kenneth H Department of Geology and Geophysics

Many scientists use the chemistry of lavas erupted at mid-ocean ridges to map the compositions of the Earth's upper mantle. This project will investigate the role volcanic processes at mid-ocean ridges play in modifying such compositions and the time scales of those processes.

National Science Foundation \$295,414

Glacial Water Mass Geometry in the South Atlantic: Testing Neodymium Isotopes versus Benthic Carbon Isotopes as Paleo-Water Mass Tracers

Pahnke, Katharina Department of Geology and Geophysics

Ocean circulation is an important component of the global climate system. This study is designed to improve the application of a promising indicator of deep ocean changes (neodymium isotopes) and to study deep ocean circulation during the most recent ice age compared to today.

National Science Foundation \$199,892

Computability and Probability

Kjos-Hanssen, Bjoern Department of Mathematics

The goal is to contribute to the mathematical theory of computability and randomness. In particular, it was recently shown that a limited amount of errors made by a random number generator cannot generally be compensated for using algorithms, and a goal of the project is to delineate what amount of such errors can be overcome.

National Science Foundation \$200,663

CIF: Small: Collaborative Research: Wireless Networks: Fundamental Limits via Extremal Entropy Properties

Liang, Yingbin Department of Electrical Engineering

Research in Wireless Communications.

National Science Foundation \$287,437

An Exploratory Application of Agent Based Modeling for Policy Evaluations in Hawaii's Longline Fishery

Leung, Ping Sun Department of Molecular Biosciences and Bioengineering

This research attempts to explore the use of Agent-Based Model as a flexible and comprehensive alternative for analysis of fishers' responses to alternative fishery policies, using Hawaii's longline fishery as an illustrative example.

National Science Foundation \$150,251

EAGER: Incremental and Distributed Learning in Nonstationary Environments with Applications to Wind Forecasting

Kuh, Anthony Department of Electrical Engineering

Proposal is an NSF EAGER proposal in exploratory new research. Proposal will focus on development and application of machine learning algorithms in the area of online and distributed algorithms. We examine learning in nonstationary environments with applications to wind forecasting.

## Gifts, Grants, and Contracts for August 2009

### Research

#### National Science Foundation

National Science Foundation \$1,583,885

MRI: Development of Mees Spectropolarimeter for the Photosphere and the Chromosphere for Synoptic Observations of the 3-D Magnetic Field Structure of the Solar Atmosphere

Lin, Haosheng Institute for Astronomy

This project will develop a new instrument, called the Mees Spectropolarimeter for the Photosphere and Chromosphere, for observational study of the 3-D magnetic field structure of the solar atmosphere.

#### US Colleges and Universities

Hawaii Pacific University \$47,547

Ecological Factors and Drug Use of Native Hawaiian Youth

Helm, Susana Department of Psychiatry

Examine the ecological risk and protective factors relevant to youth of Hawaiian ancestry in Hawaii.

Mississippi, University of \$24,981

Technical Support for CTBT Infrasound Sites

Garces, Milton A Hawaii Institute of Geophysics and Planetology

Analyze and compare data and modify algorithms from various infrasonic sounds from the Big Island, Southwestern US, Washington, Ecuador.

Mississippi, University of \$19,202

Technical Support for CTBT Infrasound Sites

Garces, Milton A Hawaii Institute of Geophysics and Planetology

Analyze and compare data and modify algorithms from various infrasonic sounds from the Big Island, Southwestern US, Washington, Ecuador.

Purdue University \$387,263

Inhibitors of Carcinogenesis Fy 08

Pezzuto, John College of Pharmacy-UHH

Virginia Polytechnic Inst and State Univ \$15,673

GripTester Viewing and Analysis Software (GripVAL)

Archilla, Adrian R Department of Civil and Environmental Engineering

Development of a software program to allow users to view and analyze automatically pavement friction profiles of any road.

**Subcount: 157**

**Subtotal: \$37,047,528**

## Gifts, Grants, and Contracts for August 2009

### Non-Research

#### DA-Dept of Agriculture

Agriculture, Dept - FED \$1,528,630  
University of Hawaii Agribusiness Education, Training and Incubator (AETI) Project  
Hashimoto, Andrew G College of Tropical Agriculture and Human Resources  
Strengthen UH's educational and workforce development and agribusiness incubation capacities and deliver effective education, training and business incubation assistance to stakeholders.

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

Health & Human Svc, Dept - Ctrs for Disease Cntrl & Prvntn (CDC) \$50,000  
Pacific Center of Excellence in the Elimination of Disparities  
Palafox, Neal A Department of Family Medicine and Community Health  
Provide infrastructure and technical assistance to the Pacific populations to 1) implement the respective strategies within the comprehensive cancer plans as they relate to breast and cervical cancer 2) Work with the ISAPI population in Hawaii and 3) serve as a national resource center.

Health & Human Svc, Dept - Hlth Res & Svcs Adm (HRSA) \$973,825  
Native Hawaiian Center of Excellence 93.157  
Judd, Nanette Department of Native Hawaiian Health  
Continue the work of the Native Hawaiian Center of Excellence in research training and development, education and cultural competence.

Health & Human Svc, Dept - Hlth Res & Svcs Adm (HRSA) \$385,360  
Pacific Islands Geriatric Education Center  
Masaki, Kamal H Department of Geriatric Medicine  
Health care professionals training in Geriatrics.

Health & Human Svc, Dept/ACF - Adm on Devlpmntl Dsbly \$100,000  
My Voice, My Choice  
Brown, Steven E Center on Disability Studies  
My Voice, My Choice will create a Youth Information, Training and Resource Center (Center) to infuse youth self-advocacy into existing adult self-advocacy activities in the state and region.

Health & Human Svc, Dept/NIH - Natl Cancer Institute \$374,095  
Nutritional & Behavioral Cancer Prevention in a Multiethnic Population  
Maskarinec, Gertraud Cancer Research Center  
Grant will support postdoctoral training in cancer prevention and control research led by faculty at the Cancer Research Center of Hawaii and collaborators elsewhere at the University and health care organizations in Honolulu.

Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources \$267,504  
Pacific Education and Research for Leadership in Science (PEARLS)  
Withy, Kelley Marie Department of Complementary and Alternative Medicine  
To increase science knowledge and interest in science careers through an inquiry based science curriculum for 7th and 8th grade students in the Pacific region. Additional funding is requested for travel, curricular supplies and staff time to provide teacher training in the rural and isolated areas of the Pacific. The planned activities include expanded foundational science teacher education and train-the-trainer seminars.



## Gifts, Grants, and Contracts for August 2009

### Non-Research

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

- Health & Human Svc, Dept/NIH - Natl Heart, Lung, & Blood Inst \$435,220  
GRS Supplement to Transcriptional and Physiological Analysis of Cardiac HIF-1  
Shohet, Ralph Victor Department of Medicine  
Supplement to support minority medical student gain research laboratory experience.
- Health & Human Svc, Dept/NIH - Natl Inst of Allergy & Infectious Dis \$41,176  
HIV DNA in CNS Compartments in Relation to HIV-Associated Neurocognitive Disorders  
Shiramizu, Bruce T Department of Cell and Molecular Biology  
The goal of the project is to train the applicant in neuroAIDS research as a predoctoral student by studying the role that HIV plays in Causing HIV-associated neurocognitive problems. Dr. Shiramizu will be the mentor for Melissa Agsalda.
- Health & Human Svc, Dept/NIH - Natl Inst on Drug Abuse \$703,931  
Phase 2, Double-Blind, Placebo-Controlled Trial of Bupropion for Methamphetamine Dependence  
Haning III, William F Department of Psychiatry  
This trial will evaluate the effectiveness of Bupropion in reducing methamphetamine use in methamphetamine addicted subjects. Subjects will be randomly assigned to receive either Bupropion or placebo for 12 weeks and will attend group-therapy 3 times weekly. Follow-up will occur 4 weeks after treatment ends.

#### DOC-Dept of Commerce

- Commerce, Dept - FED \$31,822  
Construction and Installation of a Monk Seal Rehabilitation Unit at the Waikiki Aquarium  
Rossiter, Andrew Waikiki Aquarium  
This funding is for the construction and installation of a rehabilitation unit to temporarily house wild monk seals. The project will include pools with appropriate life support. The goal of this project is to provide for the rescue, rehabilitation and release of Hawaiian monk seals.
- Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$111,885  
County of Hawaii Coastal Land Use Extension Project  
Lerner, Darren T Sea Grant College Program  
To provide technical and outreach support related to preservation of coastal resources, mitigation of coastal hazards, and enhancement of shoreline processes education in the County of Hawaii.
- Commerce, Dept/NOAA - Natl Marine Fisheries Svc \$97,458  
Development of Online Training in Fisheries and Aquaculture (OTFAP) for Hawaii and the Pacific Basin  
Ron, Tetsuzan Benny Water Resources Research Center  
The aim is to establish Online Training in Fisheries and Aquaculture Program (OTFAP) at the University of Hawaii (UH) that will be regionally-based aquatic education and training programs throughout the Pacific. This educational program is aimed to promote practical employment in the practice of fisheries & aquaculture.
- Commerce, Dept/NOAA - Natl Marine Fisheries Svc \$9,165  
Puu Honua: Ensuring a Safe Place for Hono (Sea turtles) in Waikiki  
Barrett, Jennifer Sea Grant College Program  
This project will enhance protection and conservation of sea turtles occurring in the main Hawaiian Islands through public outreach and education with an emphasis on the Waikiki coastline of Oahu's south shore.

## Gifts, Grants, and Contracts for August 2009

### Non-Research

#### DOI-Dept of Interior

Interior, Dept - National Park Service	\$2,732
<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 - U.S. Fish & Wildlife Service	\$64,455
<u>Volcano Rare Plant Facility - Clemontias</u>	
Kaneshiro, Kenneth Y	Pacific Biosciences Research Center
Provide services for the collection, propagation and reintroduction to prevent extinction of six endangered PEP species.	
Interior, Dept - U.S. Fish & Wildlife Service	\$29,386
<u>UH HIP Association with PIPES</u>	
Ziegler-Chong, Sharon	Pacific Aquaculture-UHH
Interior, Dept - U.S. Fish & Wildlife Service	\$111,555
<u>Project Support for Coordinating Group on Alien Pest Species (CGAPS) Agency Coordination and Outreach Efforts</u>	
Duffy, David C	Department of Botany
Promote inter-agency coordination and promote public awareness on invasive species issues.	

#### ED-Dept of Education

Education, Dept - FED	\$81,537
<u>The University of Hawaii at Manoa Children's Center-Child Care Access Means Parents in School (UHMCC-CCAMPIS)</u>	
Watkins, Wayne	Student Equity, Excellence, and Diversity
The UHM Children's Center Child Care Access Means Parents in School Program will meet the child care needs of low-income student parents attending the Manoa campus. Parent education workshops, child care tuition scholarships, and teacher staff development training will be provided.	
Education, Dept - FED	\$478,665
<u>University of Hawaii at Manoa GEAR UP Program</u>	
Malate, Agnes	Vice Chancellor for Student Affairs
The GEAR UP Partnership provides 1298 low-income middle school students access to rigorous academic preparation, financial information, and education awards to enter and succeed in post-secondary education. The program features an innovative language awareness and culture education component, tutoring, mentoring, professional development, and parent workshops.	
Education, Dept - FED	\$220,000
<u>University of Hawaii McNair Student Achievement Program</u>	
Goo, Maile S.	Vice Chancellor for Student Affairs
The University of Hawaii at Manoa submits a new Ronald E. McNair Postbaccalaureate Achievement Program proposal to address the graduate degree attainment of first generation, low income students, and underrepresented groups. This undertaking is designed to strengthen student preparation for graduate school admission.	

## Gifts, Grants, and Contracts for August 2009

### Non-Research

#### ED-Dept of Education

Education, Dept - FED \$372,805

Educational Talent Search

Sanders, Beth H

Chancellor, Hawaii Community College

Provide services addressing academic preparedness/personal development to 900 low-income, first generation secondary school students and high school/college dropouts at 10 West Hawaii schools. Increase postsecondary enrollment by impacting completion rates, percentage of students completing admissions/financial aid applications, and individuals re-entering postsecondary options.

Education, Dept - FED \$238,000

Health Law Policy Center

Soifer, Aviam

William Richardson School of Law

Continue to develop a Health Law Policy Center in Hawaii that will be of lasting benefit to all the people of Hawaii, as well as to people far beyond our shores.

Education, Dept - FED \$380,999

Kulia I Ka Nu'u (Strive for the Summit: Culturally Responsive, Place-based Professional Development in Science for Native Hawaiian Students)

Chinn, Pauline W

Department of Curriculum Studies

Professional development project will provide EDCS 433 and EDCS 450, (6 credits) curriculum courses for in-service K-12 science teachers. Courses will provide culturally relevant, place and standards-based content and pedagogy and culture-science immersions led by Native Hawaiian instructors.

Education, Dept - FED \$593,464

Waianae Program for Afterschool Literacy Support (W-PALS)

Fukuda, Kay L

Student Equity, Excellence, and Diversity

W-PALS will implement an afterschool literacy program in 5 elementary schools in Waianae that emphasizes place-based educational curriculum and instructional strategies to improve student academic outcomes.

Education, Dept - FED \$209,504

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

Gomes, Lenore K

Vice President for Student Affairs

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

Education, Dept - FED \$464,006

Hui Manawa Kupono

Maglaya, Michael H

College Opportunities Program

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

Education, Dept - FED \$426,991

Maui County Educational Opportunity Center

Tagomori, Alvin R

Chancellor, Maui Community College

Provide college access services-career exploration, college and financial aid information and application assistance to predominantly low-income first generation Maui county residents.

## Gifts, Grants, and Contracts for August 2009

### Non-Research

#### ED-Dept of Education

Education, Dept - FED	\$540,000
<u>UHM GEAR UP Waipahu</u>	
Agbayani, Amy	Vice Chancellor for Student Affairs
GEAR UP Waipahu provides 675 low-income middle school students access to rigorous academic preparation and financial information to enter and succeed in postsecondary education. The program features an innovative language and culture education program, an online learning initiative, a strong parent involvement component, tutoring, mentoring, and professional development.	
Education, Dept - FED	\$359,000
<u>ciber 2006-10: Enhancing U.S. Service Competitiveness in the Asia Pacific Region</u>	
Daniel, Shirley June	Shidler College of Business
Enhancing U.S. Service Undustry Competitiveness in the Asia Pacific Region.	
Education, Dept - FED	\$1,723,685
<u>Native Hawaiian Student Center - Renovation</u>	
Makuakane-Lundin, Gail M	Vice Chancellor for Student Affairs-UHH
Renovation of existing facilities for a Native Hawaiian Student Center	
Education, Dept - FED	\$2,656,700
<u>State of Hawaii GEAR UP 84.334S</u>	
Johnsrud, Linda K	Vice President for Academic Planning and Policy
Increasing the number of low-income students who are prepared to enter and succeed in postsecondary education.	
Education, Dept - FED	\$150,000
<u>Strengthening Rehabilitation Counselor Ed. in a Global Networked Environment</u>	
Cartwright, Brenda Y	Department of Counselor Education
To address the nation's continuing rehabilitation personnel needs by providing a master's level online training program to increase the number of qualified rehabilitation counselors and to upgrade the skills of practicing rehabilitation professionals available for employment in the State-Federal Rehabilitation System.	
Education, Dept - FED	\$430,114
<u>Upward Bound Program, Yr 1</u>	
Woods, Leonard	Vice Chancellor for Student Affairs-UHH
Education, Dept - FED	\$437,820
<u>Improve Success of Pacific Islander</u>	
Hong, Luoluo	Vice Chancellor for Student Affairs-UHH

## Gifts, Grants, and Contracts for August 2009

### Non-Research

#### ED-Dept of Education

Education, Dept - FED \$294,034  
Upward Bound Math & Science, Yr 2  
Woods, Leonard Vice Chancellor for Student Affairs-UHH

Education, Dept - FED \$1,311,575  
Center for Pacific Islander Education/Retention  
Hong, Luoluo Vice Chancellor for Student Affairs-UHH

#### Federal Agencies

Labor, Dept - Employment & Training Admin-FED \$263,075  
Ulu Pono-To Grow Well, Progress, Thrive and Succeed 2008  
Richards, Leon Chancellor, Kapiolani Community College  
Expand the recruitment and training of students from three community schools for adults, health care centers, and the Hawaii Technology Institute to enter Kapiolani Community College's health care programs.

Small Business Administration \$611,111  
Hawaii SBDC Network 2009  
Carter, William Chancellor, University of Hawaii at Hilo-UHH  
Support activities of the Hawaii Small Business Development Network

#### Foreign

American Samoa, Govt of \$25,000  
American Samoa Newborn Hearing Screening Evaluation  
Johnson, Jean Lee Center on Disability Studies  
Principal Investigator will be conducting the evaluation on two grants received by the American Samoa Department of Health. Both are federally funded grants to establish a newborn hearing screening program and to implement a tracking system for the identified infants.

Japan Foundation \$79,302  
Okinawan Studies in the United States  
Huey, Robert N Department of Botany  
These projects include symposium, publications, curriculum development, faculty research, and library development.

#### Hawaii- Business and Other

Kamehameha Schools \$30,279  
The Professional Doctorate (EdD) Project  
McEwan, Hunter T College of Education  
To work as a diverse and democratic community through teaching to prepare new educators and provide on-going professional development in education.

## Gifts, Grants, and Contracts for August 2009

### Non-Research

#### Hawaii- Business and Other

Kamehameha Schools		\$55,000
<u>Keaukaha Community Resource Center</u>		
Ikeda, Carol S	College of Tropical Agriculture and Human Resources	
To hire a technology program coordinator for the Keaukaha Community Resource Center who will provide educational programs for youth and adults in the community.		
Oceanit Laboratories, Inc		\$56,977
<u>Ocean Engineering Internship</u>		
Cheung, Kwok Fai	Department of Ocean and Resources Engineering	
Internship program for graduate students in Ocean and Resources Engineering.		

#### Hawaii- Dept of Education

Education, Dept - HI		\$117,254
<u>Provision of Professional Development</u>		
Ebersole, Michele	Social Sciences-UHH - Division Office	
Professional development opportunities for State Department of Education teachers		

#### Hawaii- Government Agencies

City & County of Honolulu		\$119,074
<u>Elderly Affairs Division Legal Services Program</u>		
Pietsch, James H	William Richardson School of Law	
Provide legal services to socially and economically elders 60 years old and older.		
City & County of Honolulu		\$44,700
<u>Elderly Affairs Division Caregiver Support Program</u>		
Pietsch, James H	William Richardson School of Law	
Provide legal services to family caregivers and their care recipients.		
County of Maui		\$5,536
<u>Starting a Business in Maui County</u>		
Carter, William	Chancellor, University of Hawaii at Hilo-UHH	
Financing the research, updating, formatting, publishing, and distribution of the "Starting a Business in Maui county 2009" handbook		
County of Maui		\$20,000
<u>HBRL - Digital Library Project</u>		
Carter, William	Chancellor, University of Hawaii at Hilo-UHH	
Financing the first phase of a three-phase digitization project at the Hawaii Business Research Library		

## Gifts, Grants, and Contracts for August 2009

### Non-Research

#### Hawaii- Government Agencies

County of Maui		\$150,000
<u>Hawaii Business Research Library</u>		
Carter, William	Chancellor, University of Hawaii at Hilo-UHH	
Support the operations of the Hawaii Business Research Library of the Hawaii Small Business Development Center Network		
Health, Dept - Adult Mental Health-HI		\$586,319
<u>Hawaii Mental Health Transformation State Incentive Grant</u>		
Wylie, Alexander M	Social Science Research Institute	
The purpose of this grant is to do a transformation of the current mental health delivery system in the state. It is to look at the system as a whole and modify laws, norms and values, reassessed, and systems of service delivery and finance, changed.		
Health, Dept - HI		\$9,500
<u>Student Internships</u>		
Daub, Katharyn	Nursing-UHH	
The department of Nursing at the University of Hawaii at Hilo will seek to investigate, develop, and implement a student internship program designed for implementation during the summer session between academic coursework		
Health, Dept - HI		\$5,000
<u>Patient Education Materials, Part 2</u>		
Pezzuto, John	College of Pharmacy-UHH	
Produce medication-related patient education materials that are culturally appropriate for use throughout the state of Hawaii		
Health, Dept - HI		\$9,097
<u>HIV Prevention Evaluation Services</u>		
Katz, Alan Roy	Office of Public Health Studies	
Support the development of the evaluation for the HIV prevention services STD/AIDS Branch.		
Health, Dept - HI		\$149,409
<u>Child Residency Training ASO Log No. 02-002</u>		
Guerrero, Anthony P	Department of Psychiatry	
Provide training and administrative support service to psychiatric residents and fellows for the Department of Health, Child and Adolescent Mental Health Division as outlined in the scope of services in the contract.		
Health, Dept - HI		\$178,798
<u>Child Residency Training ASO Log No. 02-002</u>		
Guerrero, Anthony P	Department of Psychiatry	
Provide training and administrative support service to psychiatric residents and fellows for the Department of Health, Child and Adolescent Mental Health Division as outlined in the scope of services in the contract.		
Health, Dept - HI		\$240,000
<u>EMS Stipend Program</u>		
Kalinowski, Edward J	Chancellor, Kapiolani Community College	
Legislative funded stipend program for MICT students not receiving stipends from the City and County of Honolulu or Hawaii County Fire Service.		

## Gifts, Grants, and Contracts for August 2009

### Non-Research

#### Hawaii- Government Agencies

Health, Dept - HI	\$228,637
<u>Tobacco Sales Enforcement for Synar Amendment</u>	
Steffen, Alana D	Cancer Research Center
Provide technical assistance to support county Police Departments in their operations to enforce HRS 709-908. This involves recruiting and training teams of adults and volunteer minors to participate in police operations, scheduling, and coordination of support activities. Inspection data will be collected and reported.	
Health, Dept - HI	\$31,800
<u>UH CES Food Stamp Nutrition Education Program</u>	
Kanehiro, Naomi A	School of Nursing and Dental Hygiene
Supplemental funding to support remainder of FY 2009. Project priorities are to explore practical ways to influence positive nutrition behaviors and to interactively deliver nutrition education services for food stamp participants and those eligible to participate.	
Health, Dept - HI	\$5,000
<u>Patient Education Materials, Part 1</u>	
Pezzuto, John	College of Pharmacy-UHH
Assess the needs of rural and underserved populations around culturally appropriate materials around medication therapy management.	
Health, Dept - HI	\$9,500
<u>Development of a Grad Program</u>	
Daub, Katharyn	Nursing-UHH
The department of Nursing at the University of Hawaii at Hilo will seek to investigate and develop a proposal for a graduate program in nursing.	
Human Services, Dept - HI	\$132,000
<u>Memorandum of Agreement between Dept. of Human Services &amp; University of Hawaii, Maui Community College, to provide oral health services at MOHC.</u>	
Johnson, Nancy K	Chancellor, Maui Community College
To ensure that students are provided a place where they may obtain clinical training. And both DHS & MCC understand & acknowledge that student participation makes it possible to provide oral health services, through Maui Oral Health Center, to adult family members eligible for TANF and TAONF.	
Judiciary, Dept - HI	\$12,284
<u>Indigent Legal Assistance Fund (ILAF) Legal Services for the Elderly</u>	
Pietsch, James H	William Richardson School of Law
Provide legal services to socially and economically needy persons 60 years or older.	
Land & Natural Res, Dept - HI	\$4,999
<u>PCSU firefighting Support in Conservation Research Areas</u>	
Duffy, David C	Department of Botany
PCSU conservation workers will provide firefighting support to the State during wildfires on sites conducting conservation research. PCSU workers will be limited to logistical support and firefighting "mop up."	



## Gifts, Grants, and Contracts for August 2009

### Non-Research

#### Hawaii- Government Agencies

Land & Natural Res, Dept - HI \$9,481  
State Park Resource Management Rangers  
Duffy, David C Department of Botany  
Implement natural and cultural resource protection projects, management activities to reduce threats to resources, and implement activities to encourage community involvement in state parks on Kauai.

#### Hawaii- Health Organizations

Waianae Coast Comprehensive Health Ctr \$34,162  
Waianae Health Academy - Ola Loa Ka Naauao Contract Agreement  
Pecsok, Michael H Chancellor, Leeward Community College  
Leeward CC to teach phlebotomy/pre-health prep courses and provide student support services.

#### Hawaii- Non-Profit Organizations

Hawaii Assn of Independent Schools \$8,000  
Hawaii Educational Networking Consortium (HENC)  
Lassner, David K Information Technology Services  
HENC serves to coordinate and advance education and research networks in the State of Hawaii

Hawaii Community Foundation (HCF) \$275,000  
Kupuna Adult Care Home Project - Phase II  
Hayashida, Cullen Chancellor, Kapiolani Community College  
Development of education, training, and other resources to upgrade the capacity of the residential care home industry in Hawaii over 3 years.

Kupu \$63,000  
Pono Pacific Leadership Training for Youth Conservation Corps  
Morden, Clifford W Department of Botany  
Provide hands-on conservation experience to young people statewide through internship program.

Maui Economic Opportunity, Inc \$50,000  
MEO Energy Management Green Training Program  
Sakamoto, Clyde M Chancellor, Maui Community College  
SLIM shall develop & deliver curricula to MEO for the "Small Business and REsidential Energy Management" and the "Commercial Building Energy Management" training programs. SLIM (with support from VITEC) will develop training manuals for each training program, recruit instructors, and serve as educational coordinator.

Queen Liliuokalani Children's Ctr \$50,980  
Hawaiian Learning Program II  
Matsuoka, Jon K School of Social Work  
To develop and implement the Hawaiian Learning Program for Master's level students at social work.

## Gifts, Grants, and Contracts for August 2009

### Non-Research

#### Hawaii- Non-Profit Organizations

Tri-Isle Resource Conservation & Dev Council	\$220,000
<u>Support for the Maui County Invasive Species Committee Project: Miconia Containment</u>	
Duffy, David C	Department of Botany
Prevent, control and eradicate the most serious invasive species threats in the county of Maui, focusing heavily on Miconia calvescens.	
University of Hawaii Foundation	\$853,090
<u>Moore Foundation Award: 2008-2012</u>	
Karl, David M.	Department of Oceanography
To support David Karl and his research in marine microbiology.	
University of Hawaii Foundation	\$193,000
<u>Post Doc Marine Debris</u>	
Crosby, Michael	Chancellor, Leeward Community College
Support a revolving 2 year post-doc position for the conduct of marine debris research, teaching and community outreach	
University of Hawaii Foundation	\$6,000
<u>Lecturer Services</u>	
Liu, Clark C. K.	Department of Civil and Environmental Engineering
Funds will be used to support lecturers hired for the Department of Civil and Environmental Engineering.	
University of Hawaii Foundation	\$825
<u>HP Technology for Teaching Fund</u>	
Edwards, Harry Keith	Chancellor, University of Hawaii at Hilo-UHH
Provide salary support to student	
University of Hawaii Foundation	\$1,200
<u>Center for Japanese Studies Educational Activities</u>	
Huey, Robert N	Center for Japanese Studies
To fund salary overload to UH faculty and honorarium to invited guests participating in CJS sponsored educational activities.	
University of Hawaii Foundation	\$5,000
<u>The Primal Quest</u>	
Herman, Louis G	Chancellor, University of Hawaii at West Oahu
Salary of lecturer replacement for Louis Herman to continue work on his Primal Quest book, manuscript, and multimedia project. Money received from Doran Foundation.	
University of Hawaii Foundation	\$6,852
<u>Laila Art Fellows</u>	
Chan, Gaye M G	College of Arts and Humanities
Transfer funds to pay Laila Art Fellow their month stipend.	

## Gifts, Grants, and Contracts for August 2009

### Non-Research

#### Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$116,220  
International Language Study and Service Learning in Asia  
Richards, Leon Chancellor, Kapiolani Community College  
Training program for CC students to develop foreign language skills.

#### Mainland- Business and Other

Smithsonian Astrophysical Observatory \$102,088  
The Most Obscured Super-Massive Black Holes - Fellow E. Treister  
Sanders, David Bruce Institute for Astronomy  
Provide post-doctoral support for Dr. Treister.

#### Mainland- Non-Profit Organizations

Gold (Arnold P) Foundation \$3,000  
The Arnold P. Gold Foundation 2009 Student Summer Fellowship Grant  
Antonelli, Mary Ann Office of Fiscal and Administrative Affairs  
Grant to be used for a 2009 Student Summer Fellowship for medical student Shawn Barnes. Fund to be disbursed in two payments: first payment upon receipt of the signed agreement and second payment upon receipt of a final paper due no later than September 15, 2009.

Lawrence University \$8,000  
University of Hawaii at Manoa ArtsBridge America Teaching Internship  
Schiffner, Amy Lynn Department of Theatre and Dance  
UHM students will partake in pre-service teaching internships at local elementary schools. The focus of the internship is to bring arts education back into classroom curriculum. Intern teachers will work side by side with experienced classroom teachers and ArtsBridge mentors to develop and implement highly effective arts integrated lessons.

Research Foundation of State Univ of New York \$22,000  
Our Town Rural Grant  
Clifford, Janine S School of Architecture  
A rural grant workshop to assist the Town of Wahiawa with repositioning its self due to the lose of agricultural activities and the increase in urbanization in the immediate adjacent areas.

#### National Science Foundation

National Science Foundation \$259,019  
University of Hawaii Oceanographic Instrumentation 2009  
Shor, Alexander N School of Ocean and Earth Science and Technology  
Acquire new shared-use scientific instrumentation to support research programs on R/V Kilo Moana.

## Gifts, Grants, and Contracts for August 2009

### Non-Research

#### National Science Foundation

National Science Foundation \$197,854

OEDG Track 1 Proposal: Laulima A 'Ike Pono - Community Collaborations in Geosciences and Place-based Education

Lemus, Judith D

Hawaii Institute of Marine Biology

Scientists and educators at the University of Hawaii Institute of Marine Biology, the Department of Oceanography, and Paepae o He'ela Fishpond propose to develop a community-based research and education partnership that seeks to integrate fundamental research on the biogeochemistry and ecology of Native Hawaiian Fishponds with community education and career training.

National Science Foundation \$2,847,171

Akamai Workforce Initiative

Hunter, Lisa

Institute for Astronomy

The Akamai Workforce Initiative will train and advance local students for science and technology careers, through a new electro-optics curriculum, internships, and professional development of faculty members and graduate students.

National Science Foundation \$142,124

REU Site: Astronomy in Hawaii

Coleman, Paul H

Institute for Astronomy

The REU Site program at the UH Institute for Astronomy provides astronomy research experiences to undergraduate students from across the United States during a 10 week summer program. Students will conduct an individual research project while being mentored by IFA faculty, observe on one of the telescopes at Mauna Kea, and present at a national conference.

National Science Foundation \$52,395

REU Site: Tropical Conservation

Ziegler-Chong, Sharon

Biology-UHH

National Science Foundation \$11,978

Doctoral Dissertation Research: Historical Ecology of Coral Reef Ecosystems in the Hawaiian Archipelago

Jiang, Hong

Department of Geography

Investigating historical ecology of coral reef ecosystems and socio-cultural covariants of ecosystem condition in the Hawaiian Archipelago.

National Science Foundation \$12,000

Doctoral Dissertation Research: The Remains of Agriculture: Rural Transformation in Hamakua District, Hawaii

Suryanata, Krisnawati

Department of Geography

This project will explore emerging power relations within everyday agrarian politics in Hamakua District, through a focus on the social and ideological role agriculture plays in the lives of contemporary rural residents. The relationship between class variables and local agency in the maintenance of productive landscapes will also be considered.

National Science Foundation \$296,270

2009 Oceanographic Instrumentation, R/V Kilo Moana Multibeam Sonar Upgrade

Shor, Alexander N

School of Ocean and Earth Science and Technology

Acquisition of upgrade to multi-beam sonar on R/V Kilo Moana.

## Gifts, Grants, and Contracts for August 2009

### Non-Research

#### National Science Foundation

National Science Foundation \$2,000,000

University of Hawaii Ship Operation 2005-2009

Taylor, Brian School of Ocean and Earth Science and Technology

Continuation of NSF-Funded Operations of R/V Kilo Moana.

National Science Foundation \$8,472

Doctoral Dissertation Research: Processing Implied Meaning Through Contrastive Prosody

Schafer, Amy J Department of Linguistics

Using psycholinguistic experiments, this dissertation research investigates how native English speakers understand implied meaning through non-word cues such as emphasis and sentence intonation (tune).

#### US Colleges and Universities

California San Francisco, University of \$129,017

Agreement between The Regents of the University of California and University of Hawaii

Niederhauser, Victoria School of Nursing and Dental Hygiene

The principal investigator for the subcontract will be the Curriculum and Clinical Coordinator for Hawaii-based students and will partner with UCSF to deliver a Neonatal Nurse Practitioner program to students living in California

Mississippi, University of \$4,000

Coastal Access Tools Web Site Model for the University of Hawaii Sea Grant College Program

Eversole, Dolan Sea Grant College Program

To adapt a model interactive coastal access web site in Hawaii

Utah State University \$47,420

Sustaining Molokai Native Hawaiian Family Farms

Teves, Glenn I Department of Tropical Plant and Soil Sciences

Work with mostly organic papaya farmers to develop rotational crops for their existing crop system. They will identify and grow new organic crops. A sweet potato grower will rotate their crop with other crops such as Chinese taro. This strategy will strengthen their economic base, prevent soil-borne diseases and improve soil.

Utah State University \$50,000

Diversifying Hawaii Aquaculture with Clam and Oyster Culture

Haws, Maria C. Pacific Aquaculture-UHH

Provide training workshops, field days, demonstrations, and extension services to farmers so they can learn cutting edge bivalve culture methods

Webster University - International Brecht Society \$5,000

13th Symposium of the International Brecht Society on "Brecht in/and Asia" at UH from May 19-23, 2010

Wessendorf, Markus W Department of Theatre and Dance

The 13th symposium of the International Brecht Society will be a 5-day conference of presentations by theatre scholars from East and West on two themes: Brecht's borrowings from and references to Asian culture (in his theatre theory, drama, poetry, etc), and the reception of his work in Asia (with regard to dramaturgies, performance styles, and political aesthetics).

**Subcount: 99**

**Subtotal: \$27,957,367**

## Gifts, Grants, and Contracts for August 2009

Count: 256

Total: \$65,004,895

## Funds Received from UH Foundation for 08/01/2009 - 08/31/2009

### Non-Research

#### Hawaii- Non-Profit Organizations

<p>University of Hawaii Foundation                      "Laila Art Fellows"                      Chan, Gaye M G                      College of Arts and Humanities                      Transfer funds to pay Laila Art Fellow their month stipend.</p>	<p>\$6,852</p>
<p>University of Hawaii Foundation                      "Post Doc Marine Debris"                      Crosby, Michael                      Chancellor, Leeward Community College                      Support a revolving 2 year post-doc position for the conduct of marine debris research, teaching and community outreach</p>	<p>\$193,000</p>
<p>University of Hawaii Foundation                      "HP Technology for Teaching Fund"                      Edwards, Harry Keith                      Chancellor, University of Hawaii at Hilo-UHH                      Provide salary support to student</p>	<p>\$825</p>
<p>University of Hawaii Foundation                      "The Primal Quest"                      Herman, Louis G                      Chancellor, University of Hawaii at West Oahu                      Salary of lecturer replacement for Louis Herman to continue work on his Primal Quest book, manuscript, and multimedia project. Money received from Doran Foundation.</p>	<p>\$5,000</p>
<p>University of Hawaii Foundation                      "Center for Japanese Studies Educational Activities"                      Huey, Robert N                      Center for Japanese Studies                      To fund salary overload to UH faculty and honorarium to invited guests participating in CJS sponsored educational</p>	<p>\$1,200</p>
<p>University of Hawaii Foundation                      "Moore Foundation Award: 2008-2012"                      " "                      Karl, David M.                      Department of Oceanography                      To support David Karl and his research in marine microbiology.</p>	<p>\$853,090</p>
<p>University of Hawaii Foundation                      "Lecturer Services"                      Liu, Clark C. K.                      Department of Civil and Environmental Engineering                      Funds will be used to support lecturers hired for the Department of Civil and Environmental Engineering.</p>	<p>\$6,000</p>
<p>University of Hawaii Foundation                      "International Language Study and Service Learning in Asia"                      Richards, Leon                      Chancellor, Kapiolani Community College                      Training program for CC students to develop foreign language skills.</p>	<p>\$116,220</p>

# Funds Received from UH Foundation for 08/01/2009 - 08/31/2009

## Research

### Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$2,592  
"Fairmont Orchid Reef Monitoring"

Adolf, Jason Natural Sciences-UHH

Monitor nutrient levels in anchialine ponds and adjacent coastal areas in order to better understand the impact of nutrients delivered by groundwater on the coastal ecosystem.

University of Hawaii Foundation \$2,875

"Ha Kam Wi Tawk Pidgin Yet?"

Higgins, Christina M Department of Second Language Studies

The project will analyze transcribed interview data and will result in educational materials for pre-service and in-service teacher training about language in Hawai'i.

University of Hawaii Foundation \$241,250

"Kamehameha School Research Fellow Program"

Soifer, Aviam William Richardson School of Law

Implement Kamehameha School Research Fellowship Program to advance knowledge, scholarship or learning in

**Count: 11**

**Total: \$1,428,904**



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

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DA-Dept of Agriculture	19	\$3,018,288	8.15%
DHHS-Dept of Health and Human Services	16	\$6,258,369	16.89%
DOC-Dept of Commerce	34	\$9,186,052	24.80%
DOD-Department of Defense	3	\$639,922	1.73%
DOE-Dept of Energy	2	\$260,919	0.70%
DOI-Dept of Interior	14	\$859,891	2.32%
ED-Dept of Education	1	\$86,408	0.23%
Foreign	2	\$186,508	0.50%
Hawaii- Business and Other	1	\$100,000	0.27%
Hawaii- Government Agencies	7	\$1,060,509	2.86%
Hawaii- Health Organizations	4	\$307,500	0.83%
Hawaii- Non-Profit Organizations	7	\$496,812	1.34%
Mainland- Business and Other	7	\$733,217	1.98%
Mainland- Health Organizations	2	\$97,810	0.26%
Mainland- Non-Profit Organizations	3	\$137,060	0.37%
National Aeronautics and Space Administration	8	\$626,412	1.69%
National Science Foundation	22	\$12,497,185	33.73%
US Colleges and Universities	5	\$494,666	1.34%
<b>Total:</b>	<b><u>157</u></b>	<b><u>\$37,047,528</u></b>	<b><u>100%</u></b>

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

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DA-Dept of Agriculture	1	\$1,528,630	5.47%
DHHS-Dept of Health and Human Services	9	\$3,331,111	11.91%
DOC-Dept of Commerce	4	\$250,330	0.90%
DOI-Dept of Interior	4	\$208,128	0.74%
ED-Dept of Education	19	\$11,368,899	40.67%
Federal Agencies	2	\$874,186	3.13%
Foreign	2	\$104,302	0.37%
Hawaii- Business and Other	3	\$142,256	0.51%
Hawaii- Dept of Education	1	\$117,254	0.42%
Hawaii- Government Agencies	20	\$1,951,134	6.98%
Hawaii- Health Organizations	1	\$34,162	0.12%
Hawaii- Non-Profit Organizations	14	\$1,849,167	6.61%
Mainland- Business and Other	1	\$102,088	0.37%
Mainland- Non-Profit Organizations	3	\$33,000	0.12%
National Science Foundation	10	\$5,827,283	20.84%
US Colleges and Universities	5	\$235,437	0.84%
<b>Total:</b>	<b><u>99</u></b>	<b><u>\$27,957,367</u></b>	<b><u>100%</u></b>

**Extramural Research Awards  
Year to Date: 07/01/09 - 08/31/09  
Distribution by Sponsors**

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DA-Dept of Agriculture	20	\$3,028,788	5.13%
DHHS-Dept of Health and Human Services	36	\$15,555,170	26.36%
DOC-Dept of Commerce	38	\$11,353,405	19.24%
DOD-Department of Defense	11	\$2,192,588	3.72%
DOE-Dept of Energy	2	\$260,919	0.44%
DOI-Dept of Interior	17	\$948,479	1.61%
ED-Dept of Education	1	\$86,408	0.15%
Federal Agencies		-\$164	0.00%
Foreign	2	\$186,508	0.32%
Hawaii- Business and Other	3	\$250,520	0.42%
Hawaii- Government Agencies	18	\$3,218,778	5.45%
Hawaii- Health Organizations	4	\$307,500	0.52%
Hawaii- Non-Profit Organizations	11	\$606,887	1.03%
Mainland- Business and Other	11	\$937,009	1.59%
Mainland- Health Organizations	2	\$97,810	0.17%
Mainland- Non-Profit Organizations	5	\$321,614	0.55%
National Aeronautics and Space Administration	27	\$2,220,154	3.76%
National Science Foundation	37	\$15,649,868	26.52%
US Colleges and Universities	15	\$1,786,923	3.03%
<b>Total:</b>	<b><u>260</u></b>	<b><u>\$59,009,164</u></b>	<b><u>100%</u></b>

Note: YTD amounts include adjustments.

**Extramural Non-Research Awards**  
**Year to Date: 07/01/09 - 08/31/09**  
**Distribution by Sponsors**

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DA-Dept of Agriculture	5	\$1,770,775	3.38%
DHHS-Dept of Health and Human Services	21	\$7,091,011	13.55%
DOC-Dept of Commerce	6	\$384,155	0.73%
DOD-Department of Defense	1	\$175,560	0.34%
DOI-Dept of Interior	5	\$259,079	0.50%
ED-Dept of Education	33	\$17,683,008	33.79%
Federal Agencies	5	\$5,884,606	11.24%
Foreign	4	\$211,678	0.40%
Hawaii- Business and Other	10	\$1,172,675	2.24%
Hawaii- Dept of Education	2	\$34,607	0.07%
Hawaii- Government Agencies	36	\$5,058,009	9.66%
Hawaii- Health Organizations	10	\$2,455,828	4.69%
Hawaii- Non-Profit Organizations	26	\$2,622,940	5.01%
Mainland- Business and Other	1	\$86,031	0.16%
Mainland- Non-Profit Organizations	4	\$47,948	0.09%
National Science Foundation	16	\$7,137,290	13.64%
US Colleges and Universities	6	\$261,437	0.50%
<b>Total:</b>	<b><u>191</u></b>	<b><u>\$52,336,637</u></b>	<b><u>100%</u></b>

Note: YTD amounts include adjustments.