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

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

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

Lignocellulosic Biomass Conversion into Ethanol through Syngas Fermentation with Simultaneous Recovery of Acetic Acid using Mesoporous Silica Nanoparticle

Khanal, Samir K

Department of Molecular Biosciences and Bioengineering

The project aims at converting syngas obtained from gasification of banana grass 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

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

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

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

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.
Gifts, Grants, and Contracts for August 2009

Research

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.
Gifts, Grants, and Contracts for August 2009

Research

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 & Prvtn (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).
Gifts, Grants, and Contracts for August 2009

Research

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Natl Inst of Health (NIH) $101,677
Cancer Research Center of Hawaii
Carbone, Michele Cancer Research Center
Assess current informatics systems at CRCH and develop an implementation plan for adopting in the three caBIG software bundles.

Health & Human Svc, Dept - Natl Inst of Health (NIH) $265,895
Parallel MRI for High Field Neuroimaging
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
HIV and Global Drug Therapies: Peripheral Neuropathy Complications and Mechanisms
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
Impact of Marijuana Exposure on Brain Maturation
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
Testing Alternative Stage Models of Smoking Cessation: An Intervention Study
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
Cancer Research Center of Hawaii
Carbone, Michele Cancer Research Center
Assess current informatics systems at CRCH and develop an implementation plan for adopting in the three caBIG software bundles.

Health & Human Svc, Dept - Natl Inst of Health (NIH) $141,399
PTSD Resarch Yr 4, FY 2010
Frueh, Christopher B. Social Sciences-UHH - Division Office
Gifts, Grants, and Contracts for August 2009

Research

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept/NIH - Natl Cancer Institute $100,000
Hawaii Minority-Based CCOP
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
The Colon Cancer Family Registry: Hawaii
Le Marchand, Loic Cancer Research Center

To maintain and expand the Hawaii Colorectal Cancer Family Registry for the next four years.

Health & Human Svc, Dept/NIH - Natl Ctrl for Rsch Resources $2,906,952
Research Outcomes Accelerating Discoveries for Medical Applications and Practice
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 Ctrl on Minority Hlth & Hlth Disprty $403,027
Partnerships for Cardiometabolic Disparities in Native and Pacific Peoples
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
Novel Engineering of a P. falciparum Merozoite Surface Protein 1 Malaria Vaccine
Hui, George S N Dept of Trop Med, Medical Microbiology and Pharmacology

To develop a blood stage vaccine against human malaria.

Health & Human Svc, Dept/NIH - Natl Inst of Diabetes,Digestive,Kidney Dis $372,000
Mechanism of Selenoprotein Synthesis
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
Mentoring/Carrer Development in PTSD Services Research (ARRA)
Frueh, Christopher B. Social Sciences-UHH - Division Office

Administrative supplement to support and accelerate the tempo of current study aims of the parent grant
Gifts, Grants, and Contracts for August 2009

Research

DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)  $218,887
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
NOAA PMEL PICO R&D
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
Profiling CTD Float Array Implementation and Ocean Climate Research
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
Determining the Biodiversity of Coral Reef Ecosystems Using Time-Series Acoustic Data
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
HURL Annual Funding
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
Detection and Control of Salmonella in Ahi and Pacific White Shrimp
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
Pacific RISA Integrated Climate Program Support
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.
## Gifts, Grants, and Contracts for August 2009

### Research

**DOC-Dept of Commerce**

<table>
<thead>
<tr>
<th>Grant Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Commerce, Dept - Natl Oceanic &amp; Atmospheric Adm (NOAA)</strong></td>
<td><strong>$250,400</strong></td>
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<tr>
<td>WHOTS-6 Cruise Plan: WHOI Hawaii Ocean Timeseries Station, Sixth Setting</td>
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<tr>
<td>Schroeder, Thomas A</td>
<td>Joint Institute for Marine and Atmospheric Research</td>
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<tr>
<td>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.</td>
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<tr>
<td><strong>Commerce, Dept - Natl Oceanic &amp; Atmospheric Adm (NOAA)</strong></td>
<td><strong>$141,900</strong></td>
</tr>
<tr>
<td>Joint Institute for Marine and Atmospheric Research (JIMAR) - Task I</td>
<td></td>
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<tr>
<td>Schroeder, Thomas A</td>
<td>Joint Institute for Marine and Atmospheric Research</td>
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<tr>
<td>To support administration and visiting scientist program activities.</td>
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<tr>
<td><strong>Commerce, Dept - Natl Oceanic &amp; Atmospheric Adm (NOAA)</strong></td>
<td><strong>$1,742,160</strong></td>
</tr>
<tr>
<td>Joint Institute for Marine and Atmospheric Research (JIMAR)</td>
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<tr>
<td>Schroeder, Thomas A</td>
<td>Joint Institute for Marine and Atmospheric Research</td>
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<tr>
<td>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.</td>
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<tr>
<td><strong>Commerce, Dept - Natl Oceanic &amp; Atmospheric Adm (NOAA)</strong></td>
<td><strong>$2,043,000</strong></td>
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<tr>
<td>Joint Institute for Marine and Atmospheric Research (JIMAR)</td>
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<tr>
<td>To use regional and global models to assess the remote versus local control of intraseasonal variability in the Intra-Americas Sea (IAS) region.</td>
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<tr>
<td><strong>Commerce, Dept - Natl Oceanic &amp; Atmospheric Adm (NOAA)</strong></td>
<td><strong>$41,207</strong></td>
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<tr>
<td>Fisheries Oceanography: Protected Species Research Program</td>
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<tr>
<td>Schroeder, Thomas A</td>
<td>Joint Institute for Marine and Atmospheric Research</td>
</tr>
<tr>
<td>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 &amp; marking, specimen collection, interventions to improve survival, mortality mitigation, data processing.</td>
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<tr>
<td><strong>Commerce, Dept - Natl Oceanic &amp; Atmospheric Adm (NOAA)</strong></td>
<td><strong>$375,000</strong></td>
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<tr>
<td>Fisheries Oceanography: Protected Species Research Program</td>
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<tr>
<td>Giambelluca, Thomas W</td>
<td>Department of Geography</td>
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<tr>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>
Gifts, Grants, and Contracts for August 2009

Research

DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) $212,809
  Pacific ENSO Application Center (PEAC)
  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
  NEPA Initiative
  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
  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
  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
  Marine Resource Dynamics Assessment Program (MARDAP): Sociocultural Profile of Pacific Islands Fishing Ports
  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. To 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
  Fisheries Oceanography: Marine Turtle Research Program
  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
  Marine Resource Dynamics Assessment Program (MARDAP): Research Support
  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
  Reducing Shark Bycatch with Electropositive Metals
  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.
Gifts, Grants, and Contracts for August 2009

Research

DOC-Dept of Commerce

Commerce, Dept/NOAA - Natl Marine Fisheries Svc $139,000

Marine Resource Dynamics Assessment Program (MARDAP): Research Support - Fisheries Data Monitoring
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

Climate Change and Ecosystem Variability in the North Pacific Ocean and the Dynamics of Marine Resource Populations
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

Western Pacific Fishery Information Network Project
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

Pacific Islands Observer Program Initiative
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

Marine Resource Dynamics Assessment Program (MARDAP): Research Support - Scientific Information Services (SIS)
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

Applications of Satellite Ocean Remote Sensing to Living Marine Resources (Ocean Remote Sensing)
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

International Fisheries: Marine Turtle Conservation and Management Initiative
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.
**Gifts, Grants, and Contracts for August 2009**

**Research**

**DOC-Dept of Commerce**

**Commerce, Dept/NOAA - Natl Marine Fisheries Svc**  
**Protected Resources Environmental Compliance Initiative (PRECI)**  
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.  
$537,213

**Meso-photic Reef Ecosystem of Hawaii's Au'au Channel**  
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.  
$64,946

**Cetacean Oceanography**  
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.  
$88,500

**Marine Resource Dynamics Assessment Program (MARDAP): Stock Assessment Research Program**  
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.  
$151,061

**Fisheries Oceanography: Methods Aimed to Reduce Sea Turtle-Longline Interactions: Tests of Modified Baits and Fishing Gear**  
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.  
$125,000

**Pacific Islands Monitoring and Sampling Program**  
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.  
$193,250

**DOD-Department of Defense**

**Defense, Dept - Army**  
**Pacific Rim Environmental Degradation of Materials Research Program**  
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.  
$65,621
Gifts, Grants, and Contracts for August 2009

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

Five Year Review of the Status of the Genus Achatinella
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

Conservation Biology of Federally Endangered Hawaiian Tree Snails: Captive Propagation Laboratory
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 bee carried out.

Interior, Dept - U.S. Fish & Wildlife Service

Project Support for Invasive Species Committees
Duffy, David C
Department of Botany
conduct early detection research and strategies for high risk invasive species.

Interior, Dept - U.S. Geological Survey

UHH Developing Strategies:Managing Mouflon
Ziegler-Chong, Sharon
Pacific Aquaculture-UHH

Interior, Dept - U.S. Geological Survey

Palila Restoration Research 2009
Ziegler-Chong, Sharon
Pacific Aquaculture-UHH
Continue to analyze data, write reports, and monitor the palila population

Interior, Dept - U.S. Geological Survey

Hawaiian Forest Bird Research: Publishing Bird Trends
Ziegler-Chong, Sharon
Pacific Aquaculture-UHH
Complete data analysis and production of reports on the status and distribution of Hawn forest birds, including population estimates, distribution maps, and trends analysis

Interior, Dept - U.S. Geological Survey

Koa Ohia Community Ecology: Food Webs
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
Conservation Genetics: Molecular Tools
Ziegler-Chong, Sharon Pacific Aquaculture-UHH

Interior, Dept - U.S. Geological Survey
Development of Biological Data Resource
Ziegler-Chong, Sharon Pacific Aquaculture-UHH

Interior, Dept - U.S. Geological Survey
PBIN: PIERC Data Management & Invasive Species
Ziegler-Chong, Sharon Pacific Aquaculture-UHH
Pacific Island Ecosystems Research Center (PIERC) data initiatives

Interior, Dept - U.S. Geological Survey
Numerical Simulation of the Effects of Borehole Flow on Measured Vertical Salinity Profiles from Deep Monitor Wells, Pearl Harbor Aquifer, Oahu, Hawaii
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.

Interior, Dept - U.S. Geological Survey
UHH Controlling Invasive Ants
Ziegler-Chong, Sharon Pacific Aquaculture-UHH

ED-Dept of Education

Education, Dept - FED
Distance Education Clearing House for the Indonesian Language
Kozok, Ulrich Department of Indo-Pacific Languages and Literatures
Developing teaching modules for distance education in intermediate Indonesian.

Foreign

Institute of Geological and Nuclear Sciences (NZ)
Geological Hazards and Society
Houghton, Bruce F. Department of Geology and Geophysics
Studies of natural hazards in New Zealand and Hawaii, using physical and social science approaches.
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
Population Distribution and Trends in the Hawaiian Hoary Bat
Ziegler-Chong, Sharon Pacific Aquaculture-UHH

Transportation, Dept - HI
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
The Implementation and Evaluation of a Comprehensive Provider Toolkit to Assess and Manage Childhood Obesity
Okhiro, 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.

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Queen's Medical Center
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
  Discovery of Bioactive Compounds for Smoking Cessation
  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
  Maui Invasive Species Committee Coqui Frog Project: FY 09
  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
  East Maui Watershed Protection: Ha`iku Uka and Pu`u Pahu
  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
  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 Native Hawaiian Law.

YWCA of Oahu  $20,300
  YWCA of Oahu and Child & Family Service Collaborative Project
  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

Acoustic Monitoring for the Presence of Beluga Whales in Cook Inlet, Alaska
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.
Path Dependence Degradation Analysis of Li-Ion Battery for PHEV Applications
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
caBIG¿, Enterprise Phase
Wilkins, Lynne R
Cancer Research Center
The applicant will participate in projects of the Vocabulary and Common Data Elements Workspace of NCI's caBIG¿ 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
Chemical Markers of Heterocyclic Aromatic Amines for Human Biomonitoring
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
GASPS: Gas in Protoplanetary Systems
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
The Great Observatories Origins Deep Survey: Imaging with Herschel
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
SEARCH VN 001 - Open-label, randomized, pilot study of the efficacy and hepatic safety of a raltegravir-based and efavirenz-based regimens...
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 TiO2
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

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

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

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

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

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

Integrating MESSENGER Data to Investigate the Origin of Mercury's Intercrater 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

Nature of Oxygen Isotopic Exchange in Refactory 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

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

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

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

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

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

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

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, Tracy 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

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 $346,167

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 $356,191

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 $295,414

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 $199,892

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 $200,663

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 $287,437

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.

National Science Foundation $150,251
## Gifts, Grants, and Contracts for August 2009

### Research

**National Science Foundation**

<table>
<thead>
<tr>
<th>Project Title</th>
<th>PI/Institution</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>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</td>
<td>Lin, Haosheng (Institute for Astronomy)</td>
<td>$1,583,885</td>
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<tr>
<td>Ecological Factors and Drug Use of Native Hawaiian Youth</td>
<td>Helm, Susana (Department of Psychiatry)</td>
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<td>Pezzuto, John (College of Pharmacy-UHH)</td>
<td>$387,263</td>
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<td>GripTester Viewing and Analysis Software (GripVAL)</td>
<td>Archilla, Adrian R (Department of Civil and Environmental Engineering)</td>
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### US Colleges and Universities

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</table>

Subcount: 157 Subtotal: $37,047,528
Gifts, Grants, and Contracts for August 2009

Non-Research

DA-Dept of Agriculture

Agriculture, Dept - FED

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 & Prvtn (CDC)

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)

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)

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 Dsblty

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

Nutritional & Behavioral Cancer Prevention in a Multiethic 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

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
GRS Supplement to Transcriptional and Physiological Analysis of Cardiac HIF-1 $435,220
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
HIV DNA in CNS Compartments in Relation to HIV-Associated Neurocognitive Disorders $41,176
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
Phase 2, Double-Blind, Placebo-Controlled Trial of Bupropion for Methamphetamine Dependence $703,931
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
Construction and Installation of a Monk Seal Rehabilitation Unit at the Waikiki Aquarium $31,822
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)
County of Hawaii Coastal Land Use Extension Project $111,885
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
Development of Online Training in Fisheries and Aquaculture (OTFAP) for Hawaii and the Pacific Basin $97,458
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
Puu Honua: Ensuring a Safe Place for Hono (Sea turtles) in Waikiki $9,165
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

*Website Development for the Hawaii-Pacific Islands CESU*

Duffy, David C Department of Botany

Develop website for the Hawaii Pacific Islands Cooperative Ecosystem Studies Unit.

Interior, Dept - U.S. Fish & Wildlife Service

*Volcano Rare Plant Facility - Clemontias*

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

*UH HIP Association with PIPES*

Ziegler-Chong, Sharon Pacific Aquaculture-UHH

Interior, Dept - U.S. Fish & Wildlife Service

*Project Support for Coordinating Group on Alien Pest Species (CGAPS) Agency Coordination and Outreach Efforts*

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

*The University of Hawaii at Manoa Children's Center Child Care Access Means Parents in School (UHMCC-CCAMPIS)*

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

*University of Hawaii at Manoa GEAR UP Program*

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

*University of Hawaii McNair Student Achievement Program*

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

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

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

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

Waianae Program for Afterschool Literacy Support (W-PALS)
Fukuda, Kay L

Department of Curriculum Studies

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

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

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

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

UHM GEAR UP Waipahu

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

ciber 2006-10: Enhancing U.S. Service Competitiveness in the Asia Pacific Region

Daniel, Shirley June

Shidler College of Business

Enhancing U.S. Service Undustry Competitiveness in the Asia Pacific Region.

Education, Dept - FED

Native Hawaiian Student Center - Renovation

Makuakane-Lundin, Gail M

Vice Chancellor for Student Affairs-UHH

Renovation of existing facilities for a Native Hawaiian Student Center

Education, Dept - FED

State of Hawaii GEAR UP 84.334S

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

Strengthening Rehabilitation Counselor Ed. in a Global Networked Environment

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

Upward Bound Program, Yr 1

Woods, Leonard

Vice Chancellor for Student Affairs-UHH

Education, Dept - FED

Improve Success of Pacific Islander

Hong, Luoluo

Vice Chancellor for Student Affairs-UHH
Gifts, Grants, and Contracts for August 2009

Non-Research

ED-Dept of Education

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

Education, Dept - FED
Center for Pacific Islander Education/Retention
Hong, Luoluo Vice Chancellor for Student Affairs-UHH

Federal Agencies

Labor, Dept - Employment & Training Admin-FED
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
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
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
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
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 ongoing professional development in education.
Gifts, Grants, and Contracts for August 2009

Non-Research

Hawaii- Business and Other

Kamehameha Schools
Keaukaha Community Resource Center
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
Ocean Engineering Internship
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
Provision of Professional Development
Ebersole, Michele Social Sciences-UHH - Division Office
Professional development opportunities for State Department of Education teachers

Hawaii- Government Agencies

City & County of Honolulu
Elderly Affairs Division Legal Services Program
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
Elderly Affairs Division Caregiver Support Program
Pietsch, James H William Richardson School of Law
Provide legal services to family caregivers and their care recipients.

County of Maui
Starting a Business in Maui County
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
HBRL - Digital Library Project
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

Hawaii Business Research Library
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
Hawaii Mental Health Transformation State Incentive Grant
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

Student Internships
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

Patient Education Materials, Part 2
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

HIV Prevention Evaluation Services
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

Child Residency Training ASO Log No. 02-002
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

Child Residency Training ASO Log No. 02-002
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

EMS Stipend Program
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
   Tobacco Sales Enforcement for Synar Amendment
   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
   UH CES Food Stamp Nutrition Education Program
   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
   Patient Education Materials, Part 1
   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
   Development of a Grad Program
   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
   Memorandum of Agreement between Dept. of Human Services & University of Hawaii, Maui Community College, to provide oral health services at MOHC.
   Johnson, Nancy K Chancellor, 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
   Indigent Legal Assistance Fund (ILAF) Legal Services for the Elderly
   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
   PCSU firefighting Support in Conservation Research Areas
   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
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
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
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)
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
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
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
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
Support for the Maui County Invasive Species Committee Project: Miconia Containment

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
Moore Foundation Award: 2008-2012

Karl, David M.
Department of Oceanography
To support David Karl and his research in marine microbiology.

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

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.

University of Hawaii Foundation
HP Technology for Teaching Fund

Edwards, Harry Keith
Chancellor, University of Hawaii at Hilo-UHH
Provide salary support to student

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 activities.

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.

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.
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'e'la 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
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
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
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
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 will UCSF to deliver a Neonatal Nurse Practitioner program to students living in California

Mississippi, University of
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
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
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
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**

<table>
<thead>
<tr>
<th>Organization</th>
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</tr>
<tr>
<td>Richards, Leon</td>
<td>Chancellor, Kapiolani Community College</td>
</tr>
<tr>
<td>Training program for CC students to develop foreign language skills.</td>
<td></td>
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Funds Received from UH Foundation for 08/01/2009 - 08/31/2009

Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation
"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
"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
"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

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

**Total:**                                        | **157**       | **$37,047,528** | **100%** |
## Extramural Non-Research Awards
### for the Month of August 2009
#### Distribution by Sponsors

<table>
<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
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<tbody>
<tr>
<td>DA-Dept of Agriculture</td>
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<tr>
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<td>DOC-Dept of Commerce</td>
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<td>6.98%</td>
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<tr>
<td>Mainland- Business and Other</td>
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<td>National Science Foundation</td>
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<td>$5,827,283</td>
<td>20.84%</td>
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<tr>
<td>US Colleges and Universities</td>
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<td>$235,437</td>
<td>0.84%</td>
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**Total:** 99  $27,957,367  100%
Extramural Research Awards
Year to Date: 07/01/09 - 08/31/09
Distribution by Sponsors

<table>
<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
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<td>DA-Dept of Agriculture</td>
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<td>$3,028,788</td>
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<td>DOC-Dept of Commerce</td>
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<td>3.03%</td>
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<tr>
<td><strong>Total:</strong></td>
<td><strong>260</strong></td>
<td><strong>$59,009,164</strong></td>
<td><strong>100%</strong></td>
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Note: YTD amounts include adjustments.
## Extramural Non-Research Awards

**Year to Date: 07/01/09 - 08/31/09**

**Distribution by Sponsors**

<table>
<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
</tr>
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<td>6</td>
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<td>0.50%</td>
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</tbody>
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**Total:** 191  $52,336,637  100%

Note: YTD amounts include adjustments.