

## Gifts, Grants, and Contracts for September 2011

The following gifts, grants and contracts received by all campuses during the period September 1, 2011 through September 30, 2011 total \$126,741,433. The unofficial FY 2012 year-to-date total is: \$203,224,836.

### Research

#### DA-Dept of Agriculture

Agriculture, Dept - Agricultural Research Svc-FED	\$21,272
<u>Environmental Effects of Tephritid Fruit Fly Control and Management</u>	
Grace, Jack Kenneth JR	College of Tropical Agriculture and Human Resources
The approach to this project is to address the development and evaluation of currently acceptable or novel non-toxic fruit fly control strategies such as classical biological controls, post-harvest treatments, and microbial control agents.	
Agriculture, Dept - Agricultural Research Svc-FED	\$129,423
<u>Improving Virus Resistance, Horticulture, and Shipping of Hawaiian Papaya</u>	
Grace, Jack Kenneth JR	Department of Plant and Environmental Protection Sciences
To characterize transgenic line 63-1 for its potential as papaya ringspot virus resistant breeding stock and to characterize hybrids from transgenic SunUp and a nontransgenic Sunrise selection with excellent appearance and shipping quality.	
Agriculture, Dept - Agricultural Research Svc-FED	\$89,816
<u>Environmental Effects of Tephritid Fruit Fly Control and Management</u>	
Grace, Jack Kenneth JR	College of Tropical Agriculture and Human Resources
The approach to this project is to address the development and evaluation of currently acceptable or novel non-toxic fruit fly control strategies such as classical biological controls, post-harvest treatments, and microbial control agents.	
Agriculture, Dept - Agricultural Research Svc-FED	\$65,228
<u>Management and Control of Banana Bunchy Top Virus (BBTV) Through Resistant Cultivars</u>	
Grace, Jack Kenneth JR	College of Tropical Agriculture and Human Resources
The overall objective of this cooperative research project is to minimize the impact of banana bunchy top virus.	
Agriculture, Dept - Agricultural Research Svc-FED	\$177,275
<u>Control of Minor Crop Pests and Diseases</u>	
Grace, Jack Kenneth JR	College of Tropical Agriculture and Human Resources
The approach to this project is to address the development of economical and environmentally friendly pest and disease management strategies for Hawaii's economically important and potentially important crops.	
Agriculture, Dept - Agricultural Research Svc-FED	\$5,642
<u>Acquisition of Goods and Services</u>	
Nagata, Russell T	College of Tropical Agriculture and Human Resources
Plot allocation fees and water usage at Waiakea, Volcano, Mealani, Lalamilo, and Kona experiment stations.	
Agriculture, Dept - FED	\$27,972
<u>Developing Pest Ant Management Systems in Hawaii Nurseries</u>	
Duffy, David C	Department of Botany
Develop pest management tools for Wasmannia auropunctata (Little Fire Ant) and other ant species in collaboration with commercial nurseries.	
Agriculture, Dept - FED	\$33,001
<u>Development of Virus Resistant Plants</u>	
Shintaku, Michael H	College of Agriculture, Forestry-UHH

## Gifts, Grants, and Contracts for September 2011

### Research

#### DA-Dept of Agriculture

Agriculture, Dept - FED \$140,000

Support for Agricultural Research of Mutual Interest, FY 2012

Straney, Donald O

Chancellor, University of Hawaii at Hilo-UHH

Support for student assistants to participate in agricultural research activities

Agriculture, Dept - FED \$39,397

Survey for Erwinia Chrysanthemi and Other Bacterial Pathogens on Vegetatively Propagated Ornamental Crops

Alvarez, Anne M

Department of Plant and Environmental Protection Sciences

Surveys will be conducted in nurseries throughout the island of Oahu to reveal the prevalence of pathogenic bacteria in nursery planting stocks. Samples will be taken starting September 2011 and continue through June 2012. Reports will be provided as required.

Agriculture, Dept - FED \$227,800

Adding Value and Controlling Pests and Diseases of Papaya

Grace, Jack Kenneth JR

College of Tropical Agriculture and Human Resources

Develop and evaluate non-toxic, preferably biological-based, environmentally suitable technologies and processes for pest and disease control on papaya.

Agriculture, Dept - FED \$174,987

Adding Value and Controlling Pests and Diseases of Papaya

Grace, Jack Kenneth JR

College of Tropical Agriculture and Human Resources

Develop and evaluate non-toxic, preferably biological-based, environmentally suitable technologies and processes for pest and disease control on papaya.

Agriculture, Dept - FED \$100,176

UHM-Collaborative Effort for Evaluating Regionally Based Feedstock and Co-Products for Aquaculture and Livestock

Grace, Jack Kenneth JR

College of Tropical Agriculture and Human Resources

The main objective of this agreement is to evaluate the usefulness of regionally grown feedstock for aquaculture and livestock.

Agriculture, Dept - FED \$49,519

Research on Transgenic Papaya to be Exported to Japan and Characterization and Preservation of Hawaiian Taro Cultivars

Steiner, William

College of Agriculture, Forestry-UHH

Assess the impact labelling and marketing strategies deployed by HPIA (Hawaii Papaya Industry Assn) on the commercialization of the transgenic papaya in Japan and further characterize the native Hawaiian taro cultivars using molecular markers, and to develop genetic maps of 6 Hawaiian taro varieties and 2 ex-Hawaii strains.

Agriculture, Dept - Forest Service-FED \$100,569

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.

## Gifts, Grants, and Contracts for September 2011

### Research

#### DA-Dept of Agriculture

Agriculture, Dept - Forest Service-FED \$125,000

Climate Change Impacts on Hawaiian Biodiversity and Fresh Water Resources: Building Capacity for Research, Education, and Community-based Mitigation

Bruland, Gregory Lee Department of Natural Resources and Environmental Management

The goal of this research is to understand how climate change, invasive species, and the interaction of the two stressors will impact the hydrological and ecological functions of Pacific Island streams and watersheds. Results will be shared via an integrated education and community-based outreach program.

Agriculture, Dept - Forest Service-FED \$8,000

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

Friday, James B Department of Natural Resources and Environmental Management

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

Agriculture, Dept - Forest Service-FED \$70,000

Assessing the Effects of Fragmentation, Invasives Species and Climate Change on Forest Fragments

Litton, Creighton Department of Natural Resources and Environmental Management

The proposed research aims to understand how fragmentation, climate change and other threats including invasive species (rats) modify forest structure, especially the formation and distribution of forest gaps, as well as productivity and carbon cycling.

Agriculture, Dept - Forest Service-FED \$7,729

Young-Growth Koa Wood Quality Assessment and Demonstration

Friday, James B Department of Natural Resources and Environmental Management

Our project objectives are to assess koa wood quality in young, second-growth trees and demonstrate the wood properties to woodworkers. Our goal is to be able to give landowners and woodworkers the knowledge and information they need

Agriculture, Dept - Forest Service-FED \$25,000

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 - Natl Institute of Food and Agriculture \$4,945,272

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

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

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

Agriculture, Dept - Natl Institute of Food and Agriculture \$80,958

An Integrated Disease Management Program for Banana Industries in the Pacific Islands

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

Develop an integrated disease management program for the banana industry in the Pacific Islands specifically targeting on Banana Bunchy Top Virus and plant-parasitic nematodes.

## Gifts, Grants, and Contracts for September 2011

### Research

#### DA-Dept of Agriculture

Agriculture, Dept - Natl Institute of Food and Agriculture \$18,731  
An Integrated Disease Management Program for Banana Industries in the Pacific Islands  
Wang, Koon-Hui Department of Plant and Environmental Protection Sciences  
Develop an integrated disease management program for the banana industry in the Pacific Islands specifically targeting on Banana Bunchy Top Virus and plant-parasitic nematodes.

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

Health & Human Svc, Dept - Natl Inst of Health (NIH) \$226,375  
Analysis of the Hif1alpha-mediated Regulation of Telomerase and Telomeres in Stem Cells  
Allsopp, Richard Dept Anatomy, Biochemistry, Physiology and Reproductive Biol  
This study intends to rigorously assess, using appropriate animal models, the potential of a newly discovered candidate regulator of telomerase levels in stem cells as a therapeutic target to treat diseases associated with telomerase defects.

Health & Human Svc, Dept - Natl Inst of Health (NIH) \$720,185  
Cancer Research Center of Hawaii  
Carbone, Michele UH Cancer Center  
Assess current informatics systems at CRCH and develop an implementation plan for adopting in the three caBIG software bundles.

Health & Human Svc, Dept - Natl Inst of Health (NIH) \$99,735  
Cancer Research Center of Hawaii  
Carbone, Michele UH Cancer Center  
Assess current informatics systems at CRCH and develop an implementation plan for adopting in the three caBIG software bundles.

Health & Human Svc, Dept/ACF - Adm for Native Amer \$306,754  
Ka Olelo OIwi: Hawaiian Oral Language Development Project  
Housman, April Ka Haka'Ula O Ke'Elilikani-UHH  
Develop the oral language abilities of Hawaiian Language Immersion Program (HLIP) grades K-6 students at 15 schools on 5 islands.

Health & Human Svc, Dept/NIH - Natl Cancer Institute \$542,939  
Hawaii Minority-Based Community Clinical Oncology Program  
Berenberg, Jeffrey UH Cancer Center  
This award will provide funding to allow minority and underserved populations in Hawaii receive state-of-the-art cancer treatment and to participate in cancer prevention and control studies

Health & Human Svc, Dept/NIH - Natl Cancer Institute \$344,827  
Obesogenic Environment: Impact on Breast, Colorectal, and Prostate Cancer Risk  
Cheng, Iona UH Cancer Center  
We will obtain information on the neighborhoods of ~82,000 African Americans and Latinos using geographic information systems technology. We will investigate whether neighborhood characteristics related to obesity influence on breast, colorectal, and prostate cancer risk.

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### Research

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

Health & Human Svc, Dept/NIH - Natl Cancer Institute <u>Patterns of Care/Quality Care Diagnosis Year 2010</u> Goodman, Marc T UH Cancer Center Evaluate treatment patterns specifically for breast, colorectal, and non-small cell lung cancer.	\$29,034
Health & Human Svc, Dept/NIH - Natl Inst of Genl Med Sci <u>RSK2 Regulates Integrin-Mediated Adhesion and Migration</u> Ramos, Joe William UH Cancer Center This work is focused on understanding how cell migration and cancer metastasis are controlled by the protein RSK2.	\$282,150
Health & Human Svc, Dept/NIH - Natl Inst of Neurologcl Disordr & Stroke <u>Imaging Studies in Neurotoxicity and Neurodevelopment</u> Chang, Linda Department of Medicine To establish the infrastructure for a strong neuroscience research environment at JABSOM. The proposed projects will evaluate changes in higher cortical function and neurochemistry in individuals infected with HIV and in relation to substance-dependence, determine the physiological bases of these brain changes, and evaluate possible neurochemical changes.	\$1,663,826
Health & Human Svc, Dept/NIH - Natl Inst on Aging <u>Hawaii Family Study of Cognition (HFSC)</u> Onoye, Jane Department of Psychiatry The Hawaii Family Study of Cognition (HFSC) will recruit previous participants and referred offspring of families of families from the original study who have indicated they are interested in a follow-up study of re-testing.	\$15,000

#### DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) <u>Development of Validation Protocols for Vegetation Index Time Series from VIIRS</u> Miura, Tomoaki Department of Natural Resources and Environmental Management This project is aimed at developing protocols for validating satellite-measured vegetation greenness and at evaluating the algorithm used to generate this greenness measure	\$61,923
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) <u>Enhancement of Data and Research Activities for Climate Studies at the International Pacific Research Center</u> Hamilton, Kevin P Joint Institute for Marine and Atmospheric Research The project enhances the activities at the Asia-Pacific Data Research Center (APDRC) within the International Pacific Research Center (IPRC) at the University of Hawaii. Activities include web-based access to a broad range of ocean, atmosphere, and sea flux ad products for climate studies.	\$250,000
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) <u>Protected Resources Environmental Compliance Initiative (PRECI)</u> Schroeder, Thomas A Joint Institute for Marine and Atmospheric Research To establish & Maintain enhanced management based on scientific research for protected resources. Research conducted will be used to assist resource managers in decision making & directing further investigation in habitat & protected species, enhance interagency cooperation, conduct research, outreach & education.	\$297,168

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## Research

### DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$266,709
<u>Mechanisms of Atmospheric Mercury in Transport and Transformation in the Remote Pacific Marine Free Troposphere Measured in Hawaii</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
A data set will be assembled that will include the atmospheric measurements currently being conducted at Mauna Loa Observatory and the mercury measurements.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$148,500
<u>Sea Turtle Bycatch and Mitigation: Research and Development</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To develop strategies to reduce sea turtle bycatch and improve target selectivity of coastal gillnet fisheries, poundnets and longline fisheries. To also understand their post-release behaviors and migrations.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$250,000
<u>ADMB Open Source Project</u>	
Sibert, John R	Joint Institute for Marine and Atmospheric Research
To continue in developing protocols for maintaining a source code repository and producing binary distributions, and for testing and distributing the AD Model Building (ADMB) software across multiple platforms, operating systems and compilers for fishery and natural science modeling use.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$227,228
<u>Profiling CTD Float Array Implementation and Ocean Climate Research</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
1) To support the profiling CTD floats through testing, development, 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)	\$1,771,000
<u>The University of Hawaii Sea Level Center</u>	
Merrifield, Mark A	Joint Institute for Marine and Atmospheric Research
The University of Hawaii Sea Level Center (UHSLC) collects, processes, analyzes, and distributes tide gauge data from around the world in support of climate and oceanographic research.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$200,000
<u>Human Dimensions of Fishing and Marine Ecosystems in the Western Pacific</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To collect and analyze sociocultural information relevant to fisheries management priorities and plans in the Western Pacific region.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$115,790
<u>Pacific Islands Region Outreach and Education Program</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To plan, develop, and implement outreach and education programs in partnership with the Joint Institute for Marine & Atmospheric Research and the NOAA Fisheries Service Pacific Islands Region.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$200,000
<u>Joint Institute for Marine and Atmospheric Research</u>	
Merrifield, Mark A	Joint Institute for Marine and Atmospheric Research
Research institute created through a Memorandum of Understanding between the National Oceanic and Atmospheric Administration (NOAA) and UH, to develop a center of excellence in research in oceanographic and	

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## Research

### DOC-Dept of Commerce

atmospheric sciences. Research will be conducted at various locations. therefore, specific indirect cost rates, locations, certifications and attachments are not addressed here but will be addressed at the time each proposal is

Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$455,000
<u>Marine Resource Dynamics Assessment Program (MARDAP): Stock Assessment Research Program</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To assess (1) the status of billfish, tuna, sharks, opah, bottomfish, coral reef fish and lobster stocks in the Western and Central Pacific Ocean, (2) impacts of fishing on these stocks.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$3,500,000
<u>Sustaining Healthy Coastal Ecosystems (JIMAR Coastal Research Program)</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
This project will support multi-disciplinary efforts to assess, monitor, map, restore, and protect coral reef ecosystems of the U.S.-affiliated Pacific Islands.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$217,323
<u>Pelagic Fisheries Research Program</u>	
Weng, Kevin	Joint Institute for Marine and Atmospheric Research
These funds will cover various topics of continuing project research focusing on Pacific pelagic species.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$440,700
<u>Fisheries Oceanography: Protected Species Research Program</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To conduct research on Pacific Islands area protected species populations, their ecology, and relationships to environmental and oceanographic parameters.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$102,000
<u>Main Hawaiian Islands Deep 7 Bottomfish Fast Track Project</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To assist the HI Department of Land and Natural Resources, Division of Aquatic Resources in collecting and processing Deep 7 bottomfish data obtained from commercial fishermen.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$129,163
<u>Ocean Remote Sensing</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To achieve and promote the integration of available satellite remote sensing oceanographic datasets for all users.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$137,870
<u>Marine Resource Dynamics and Assessment Program (MARDAP) - Economics of Fisheries Initiative</u>	
Schroeder, Thomas A	Joint Institute for Marine and Atmospheric Research
To support or create economic data collection and assessment programs for commercial and recreational fishes in Hawaii, Am Samoa, and CNMI. To prepare publications for the Catch Share Workshop.	

# Gifts, Grants, and Contracts for September 2011

## Research

### DOC-Dept of Commerce

Commerce, Dept/NOAA - Natl Marine Fisheries Svc \$360,000

Western Pacific Fishery Information Network Project (WPacFIN)

Schroeder, Thomas A

Joint Institute for Marine and Atmospheric Research

Provide technical and operational support to participating fisheries agencies in Am Samoa, HI, Guam, and CNMI. Supply fisheries data and information to JIMAR, UH, NMFS, and the Western Pacific Fisheries Management Council

Commerce, Dept/NOAA - Natl Weather Service \$165,329

National Weather Service Pacific Region Fellowship Program (Supplement)

Schroeder, Thomas A

Joint Institute for Marine and Atmospheric Research

Funds will be used to support students and infrastructure within the department of Meteorology, Oceanography (marine applications) and Geology & Geophysics (hydrology).

### DOD-Department of Defense

Defense, Dept - Air Force \$205,000

Operations and Management of the Maui Supercomputing Center

Lassner, David K

Information Technology Services

Cost reimbursement award term contract for research, development, operations and management of the Maui Supercomputing Center.

Defense, Dept - Air Force \$100,000

Operations and Management of the Maui High Performance Computing Center

Lassner, David K

Information Technology Services

Cost reimbursement award term contract for research development, operations and management of the Maui High Performance Computing Center.

Defense, Dept - Air Force \$3,861,653

Operations and Management of the Maui High Performance Computing Center

Lassner, David K

Information Technology Services

Cost reimbursement award term contract for research development, operations and management of the Maui High Performance Computing Center.

Defense, Dept - Air Force \$500,000

Correlation of Field and Laboratory Studies on the Corrosion of Various Alloys in a Multitude of Hawaii Micro-Climates

Hihara, Lloyd H

Department of Mechanical Engineering

Conduct research in performance of metal alloys and corrosion sensors in various microclimates in Hawaii.

Defense, Dept - Air Force Space & Missile Syst Ctr \$4,500,000

LEONIDAS: Low-Earth Orbit Nanosat-Integrated Defense Autonomous Systems

Flynn, Luke Paul

Hawaii Institute of Geophysics and Planetology

The LEONIDAS project will design, build, test, launch, and operate small spacecraft in low-Earth orbit.



# Gifts, Grants, and Contracts for September 2011

## Research

### DOD-Department of Defense

Defense, Dept - Army	\$94,714
<u>Native Habitat and Wildlife Protection at Pacific Missile Range Facility, Kauai</u>	
Duffy, David C	Department of Botany
Provide technical assistance to the Navy for native habitat protection at the Pacific Missile Range Facility on Kauai.	
Defense, Dept - Army	\$58,785
<u>Rare Plant Propagation and Database Management</u>	
Kaneshiro, Kenneth Y	Pacific Biosciences Research Center
Provide personnel, management, transportation, etc. to propagate rare native Hawaiian Plants and provide database management services to the Army DPW Natural Resources Program on the Island of Oahu.	
Defense, Dept - Army	\$11,834
<u>Rare Plant Propagation and Database Management</u>	
Kaneshiro, Kenneth Y	Pacific Biosciences Research Center
Provide personnel, management, transportation, etc. to propagate rare native Hawaiian Plants and provide database management services to the Army DPW Natural Resources Program on the Island of Oahu.	
Defense, Dept - Army	\$164,000
<u>Investigation of Historical Rainfall Trends and Possible Future Changes in the Frequency of Extreme High and Low Rainfall in Hawai'i</u>	
Giambelluca, Thomas W	Department of Geography
In the proposed study, we will investigate how rainfall in Hawai'i has changed in the past century and how it is likely to change during the current century as global warming affects the regional climate.	
Defense, Dept - Army	\$5,992,500
<u>Evaluation of Groundwater Hydrology within the Humu'ula Saddle Region of the Island of Hawaii on Army Garrison Hawaii Pohakuloa Training Area</u>	
Thomas, Donald M	Hawaii Institute of Geophysics and Planetology
Assess and evaluate groundwater resources and condition within the Humu'ula Saddle at the Pohakuloa Training Area	
Defense, Dept - Dep Under Secy of Defense	\$1,090,000
<u>Managing Partner of Pacific Disaster Center</u>	
Gaines, James R	Vice President for Research
This Cooperative Agreement provides for the transfer of Federal funds for the evolvement of the Pacific Disaster Center into a public-private partnership benefiting from shared responsibilities and assistance from the Department of Defense and the Managing Partner (recipient) with its internal management, administration, and development of concepts as proposed by the Recipient on August 17, 2009 in response to Funding Announcement HQ0034-09-RFCA-3001 and accepted by the Government.	
Defense, Dept - Dep Under Secy of Defense	\$2,668
<u>Managing Partner of Pacific Disaster Center</u>	
Gaines, James R	Vice President for Research
This Cooperative Agreement provides for the transfer of Federal funds for the evolvement of the Pacific Disaster Center into a public-private partnership benefiting from shared responsibilities and assistance from the Department of Defense and the Managing Partner (recipient) with its internal management, administration, and development of concepts as proposed by the Recipient on August 17, 2009 in response to Funding Announcement HQ0034-09-RFCA-3001 and accepted by the Government.	

# Gifts, Grants, and Contracts for September 2011

## Research

### DOD-Department of Defense

Defense, Dept - Dep Under Secy of Defense \$319,839

Managing Partner of Pacific Disaster Center

Gaines, James R Vice President for Research

This Cooperative Agreement provides for the transfer of Federal funds for the evolvement of the Pacific Disaster Center into a public-private partnership benefiting from shared responsibilities and assistance from the Department of Defense and the Managing Partner (recipient) with its internal management, administration, and development of concepts as proposed by the Recipient on August 17, 2009 in response to Funding Announcement HQ0034-09-RFCA-3001 and accepted by the Government.

Defense, Dept - Naval Postgraduate School \$188,000

Retrodirective Antenna Arrays for Secure Data Transmission in Covert Terrestrial and Nanosatellite Sensor Networks

Shiroma, Wayne Akira Department of Electrical Engineering

Design and fabrication of tunable antennas and devices for sensing applications.

### DOE-Dept of Energy

Energy, Dept - FED \$436,408

The Effect of Airborne Contaminants on Fuel Cell Performance and Durability

St-Pierre, Jean Hawaii Natural Energy Institute

The objective of the proposed work is to characterize, analyze, and understand the effects of airborne contaminants which have the potential to reduce the performance of durability of proton exchange membrane (PEM) fuel cells.

Energy, Dept - FED \$76,847

Collaborative Project: Ocean-Atmosphere Interaction From Meso- to Planetary-Scale: Mechanisms, Parameterization, and Variability

Schneider, Niklas Department of Oceanography

Investigate the dynamics of mid-latitude frontal scale air-sea interaction and the impact on climate.

### DOI-Dept of Interior

Interior, Dept - National Park Service \$41,077

Monitor and Protect Newly Discovered Hawksbill Turtle Nesting Beaches

Duffy, David C Department of Botany

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

Interior, Dept - National Park Service \$55,000

Fire Restoration Ecology Study in Lowland Grasslands

Daehler, Curtis C Department of Botany

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

Interior, Dept - National Park Service \$134,813

Vegetation Inventory and Monitoring Support

Hart, Patrick Natural Sciences-UHH

Support for UH Hilo to build their vegetation ecology program by assisting the NPS with the vegetation mapping inventory and the initial implementation of vegetation protocols.

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## Research

### DOI-Dept of Interior

Interior, Dept - National Park Service	\$23,145
<u>Documentation for the National Historic Landmark Nomination and Cultural Landscape Report, Kalaupapa National Historic Park</u>	
Chapman, William R	Department of American Studies
Update of the 1976 "Kalaupapa Leprosy Settlement" National Historic Landmark Nomination and preparation of Cultural Landscape Report for the Kalaupapa and Kalawao Settlement. Students work to supplement or generate new information required to complete documentation, develop a format for recording and tracking information for contributing resources within the district, GPS recording and mapping of resources.	
Interior, Dept - National Park Service	\$72,634
<u>Landbird Monitoring Implementation</u>	
Hart, Patrick	Natural Sciences-UHH
Implement the protocol that describes procedures to be used to determine the status and trends of forest birds in selected habitats in Hawaii Volcanoes Natl Park (HAVO), Haleakala NP, and National Park of Am Samoa	
Interior, Dept - National Park Service	\$190,568
<u>Evaluate Eradication and Containment Strategies for Nonnative Plant Infestations</u>	
Duffy, David C	Department of Botany
Conduct removal experiments to eradicate localized weed infestations and contain moderate alien weed infestations in Hawaii Volcanoes National Park.	
Interior, Dept - U.S. Fish & Wildlife Service	\$979,820
<u>Plant Extinction Prevention Program</u>	
Morden, Clifford W	Department of Botany
Preserve samples of endangered native plant species while attempting to preserve wild specimens within their natural habitats.	
Interior, Dept - U.S. Fish & Wildlife Service	\$99,000
<u>Project Support for Maui and Molokai Invasive Species Committee</u>	
Duffy, David C	Department of Botany
Conduct early detection research and investigate strategies for high risk invasive species.	
Interior, Dept - U.S. Fish & Wildlife Service	\$50,000
<u>Project Support for Big Island Invasive Species Committee</u>	
Duffy, David C	Department of Botany
Conduct early detection research and investigate strategies for high risk invasive species.	
Interior, Dept - U.S. Fish & Wildlife Service	\$90,000
<u>Conservation Biology of Federally Endangered Hawaiian Tree Snails</u>	
Hadfield, Michael G	Pacific Biosciences Research Center
Continue conservation effort of endangered Hawaiian tree snails; support tree snail propagation laboratory; monitor residual populations on Oahu; survey new Oahu mountain areas lacking recent surveys; conduct surveys & status analyses of endemic species on Molokai, Maui, Lanai and Hawaii.	

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## Research

### DOI-Dept of Interior

Interior, Dept - U.S. Fish & Wildlife Service	\$85,740
<u>Synergistic Impact of Global Warming and Ocean Acidification on Coral Metabolism in Shallow and Deep Environments</u>	
Jokiel, Paul L	Hawaii Institute of Marine Biology
This project involves laboratory experiments to understand global climate change on reef corals with an emphasis on ocean acidification, warming, and irradiance through a series of experiments using both shallow and deep water corals.	
Interior, Dept - U.S. Geological Survey	\$612,491
<u>HCSU Unit Support &amp; General Activities 2009</u>	
Ziegler-Chong, Sharon	Pacific Aquaculture-UHH
Support research programs of the USGS BRD PIERC related to the ecological, environmental and sociocultural management of natural and cultural areas and other components of DOI agencies	
Interior, Dept - U.S. Geological Survey	\$10,558
<u>Developing accurate survey methods for estimating population sizes and trends of the critically endangered Nihoa Millerbird and Nihoa Finch</u>	
Ziegler-Chong, Sharon	Pacific Aquaculture-UHH
HCSU support staff to work on collaboration research with USGS PIERC focused on determining more accurate ways of measuring and monitoring population sizes and trends of Nihoa Finch and Millerbird	
Interior, Dept - U.S. Geological Survey	\$24,000
<u>Ecohydrological Field Research in Hawaii</u>	
Giambelluca, Thomas W	Department of Geography
We will maintain the HaleNet system on Maui, consisting of 9 active climate stations, two repeaters, and a base station. On Hawaii Island, we will operate two advanced flux towers measuring energy, water, and carbon exchanges over one native forest site and one strawberry guava-invaded site.	
Interior, Dept - U.S. Geological Survey	\$20,818
<u>Assessing the Quality of Koa Reforestations as Habitat for Hawaii's Forest Bird Community</u>	
Ziegler-Chong, Sharon	Pacific Aquaculture-UHH
Collaborative research with USGS PIERC focused on habitat assessment and utilization studies of koa reforestations by native and introduced birds	
Interior, Dept - U.S. Geological Survey	\$56,293
<u>Development of Biological Data Resource</u>	
Ziegler-Chong, Sharon	Pacific Aquaculture-UHH
HCSU support staff to work on collaborate research with USGS PIERC focused on working with National Park to develop an early detection system for invasive plants.	
Interior, Dept - U.S. Geological Survey	\$20,221
<u>Population Trends, Distribution, and Insect Prey Base of the Hawaiian Hoary Bat</u>	
Ziegler-Chong, Sharon	Pacific Aquaculture-UHH
Fully gather information needed for the re-evaluation of the conservation status of the Hawaiian hoary bat	

# Gifts, Grants, and Contracts for September 2011

## Research

### ED-Dept of Education

Education, Dept - FED \$498,763

Accessible Professional Development for Teaching Aquatic Science Inquiry

Duncan, Kanesa

Curriculum Research and Development Group

We propose to develop and evaluate a professional development (PD) series of modules and online learning community support that use instructional inquiry - learning about science by engaging in the practice of science. The PD will be developed around aquatic science content and tested throughout the state of Hawaii.

Education, Dept - FED \$199,997

Hitchcock: TeenACE for Science: Improving Outcomes Through Technology

Hitchcock, Caryl

Center on Disability Studies

TeenACE for Science is a development project that will examine strategies to improve writing in science through technology. Participants are young teens with disabilities or English Language Learners whose difficulty with reading and writing impacts their ability to learn.

Education, Dept - FED \$596,412

Project Ho`oku`i

Roberts, Kelly D

Center on Disability Studies

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

### Federal Agencies

Environmental Protection Agency \$17,000

EPA STAR Graduate Fellowship for Daniel Amato

Smith, Celia M

Department of Botany

The purpose of this study is to investigate the extent and impact of sewage pollution on Hawaii's coastal reefs. Using an interdisciplinary approach, the connection between terrestrial sewage injection, groundwater, and coral reef health will be examined.

Environmental Protection Agency \$7,540

EPA STAR Graduate Fellowship: Wendy Miles

Suryanata, Krisnawati

Department of Geography

The project examines the potential socio-economic impacts to local people of the CO2 commoditization in climate change negotiations. It is a multi-level (Local to international) case study of a REDD (Reduced Emissions from Deforestation and Forest Degradation) project in Indonesia.

Homeland Security, Dept - FED \$387,692

ARI-MA: Nuclear Materials Detection via Time-Encoded Differential Absorption and/or Differential Fluorescence

Madey, John M J

Department of Physics and Astronomy

Proposed research is to develop and demonstrate an improved method for detection of fissile materials using techniques adapted from Laser Radar Systems and High Energy Physics, shifted to gamma ray energies as required for detection of small, concealed quantities of Uranium and Plutonium.

Homeland Security, Dept - FED \$599,578

The National Center for Island, Maritime and Extreme Environment Security (CIMES)

Gaines, James R

Vice President for Research

The goal of this Center of Excellence is to develop leading-edge, multi-institutional, focused education and basic research program capable of delivering the scientific advances necessary to permit revolutionary improvements in

# Gifts, Grants, and Contracts for September 2011

## Research

### Federal Agencies

America's ability to protect its citizens, infrastructure, economy, and environment in the Maritime, Remote Island, and Extreme Environment domain.

Homeland Security, Dept - FED \$1,600,000

The National Center for Island, Maritime and Extreme Environment Security (CIMES)

Gaines, James R Vice President for Research

The goal of this Center of Excellence is to develop leading-edge, multi-institutional, focused education and basic research program capable of delivering the scientific advances necessary to permit revolutionary improvements in America's ability to protect its citizens, infrastructure, economy, and environment in the Maritime, Remote Island, and Extreme Environment domain.

Homeland Security, Dept - FED \$174,820

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

Vahsen, Sven E Department of Physics and Astronomy

Investigate a new approach to fast neutron detection that utilizes 2 new detector technologies: gas electron multipliers and silicon pixel electronics.

Homeland Security, Dept - FED \$154,579

Use of Laser Cooling to Extend the Peak Current and Duty Cycle of Microwave Thermionic Guns

Madey, John M J Department of Physics and Astronomy

The proposed research will explore the use of laser-induced cooling of the surface of the lanthanon hexaboride cathodes used in the accelerator system being used for the research funded.

### Hawaii- Business and Other

Research Corporation, University of Hawaii \$10,000

Developing a Standardized `Opihi Monitoring Protocol

Toonen, Robert J Hawaii Institute of Marine Biology

Support for the training, data collection, analysis and archiving of `opihi monitoring data through the PMNM partnership with local communities across the state.

### Hawaii- Government Agencies

Agriculture, Dept - HI \$228,800

Research and Management of the Varroa Mite and Other Bee Pests in Hawaii

Duffy, David C Department of Botany

Collaborate with HDOA, USDA and outside experts to develop a statewide strategic plan to deal with the varroa mite and other pests threats to Hawaii's honeybees.

County of Hawaii \$5,000

Coastal Wetland Soil Research

Mathews, Bruce W College of Agriculture, Forestry-UHH

To better develop a comprehensive understanding of soil biogeochemical processes controlling soil mineral solubility, water quality, and forage nutritive value in Hawaii's wetlands.

# Gifts, Grants, and Contracts for September 2011

## Research

### Hawaii- Government Agencies

County of Hawaii	\$2,070
<u>Beekeeping Practices Booklet</u>	
Tsutsumi, Lorna H	College of Agriculture, Forestry-UHH
Develop an updated educational booklet on beekeeping practices in Hawaii.	
Health, Dept - Alcohol & Drug Abuse Div-HI	\$142,000
<u>Tobacco Sales Enforcement to Synar Amendment</u>	
Steffen, Alana D	UH Cancer 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 in police operations, scheduling, and coordination of support activities. Inspection data will be collected and reported.	
Health, Dept - HI	\$322,295
<u>Concussion Management Protocol for Interscholastic Student/Athletes in Hawaii High Schools</u>	
Murata, Nathan M	Kinesiology and Leisure Science Department
This project will develop a standardized protocol using technology (concussion management software) to identify and diagnosis concussions and in assisting in determining an athlete's ability to return to play safely. This protocol would help reduce the inconsistencies in identifying and diagnosing concussions in athletes.	
Health, Dept - HI	\$1,070,449
<u>Hawaii Health Data Warehouse</u>	
Maddock, Jason E.	Department of Public Health Sciences and Epidemiology
This project gathers, analyzes, and reports on public health data in collaboration with the Hawaii Department of Health.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$60,000
<u>Hawaiian Ecosystems: Management and Education: Koolau Watershed</u>	
Duffy, David C	Department of Botany
Monitor game check stations and run transects in native forest areas to determine impacts of pigs and axis deer in the Koolau Watershed in Maui.	
Land & Natural Res, Dept - HI	\$96,570
<u>Invasive Plant ARRA Support</u>	
Duffy, David C	Department of Botany
Conduct surveys and control of invasive plants in Hawaii's state forest reserves on Kauai and Oahu.	
Transportation, Dept - HI	\$199,749
<u>Reducing Infrastructure Damage by Trees</u>	
Kaufman, Andrew J	Department of Tropical Plant and Soil Sciences
The goal of this project are to develop root zone strategies for the planting and maintenance of Hawaii's most popular street trees; and in developing better root zone strategies to assist in reducing infrastructure damage and maintenance.	

# Gifts, Grants, and Contracts for September 2011

## Research

### Hawaii- Non-Profit Organizations

Friends of Waikiki Aquarium	\$11,083
<u>Removal of Invasive Algae from Waikiki and Replanting Natives</u>	
Smith, Celia M	Department of Botany
Quarterly cleanups of three invasive alien algae will be run, removing biomass by hand and composting biomass with a new partner, the Honolulu Zoo. Replanting activities will test ideas for the scale and techniques necessary to restore the coastal reef flat to a more natural species assemblage.	
HCF-Koaniani Fund	\$25,787
<u>Hawaii Water Policy Study</u>	
Coffman, Makena	Department of Urban and Regional Planning
The project will conduct a background study on fresh water policy in Hawaii that will help inform the non-profit sector, philanthropic entities, and decision makers about current fresh water policy in Hawaii and opportunities to improve water supply.	
HCF-Leahi Fund	\$48,020
<u>New Drugs from the Sea: Screening Microbial Extracts from Hawaiian Water for Anti-Respiratory Viral Therapy</u>	
Lu, Yuanan	Department of Public Health Sciences and Epidemiology
To use established in vitro cell culture assays to test and screen different extracts from marine microorganisms isolated from Hawaiian waters for their potential therapeutic effect against human respiratory viruses including respiratory syncytial virus, parainfluenza virus, and influenza virus.	
Hawaii Community Foundation (HCF)	\$50,000
<u>The Role of CD43 in Macrophage-Mediated Atherosclerosis</u>	
Boisvert, William	Department of Medicine
This proposal will study the role of a cell surface molecule called CD43 in macrophage-mediated atherosclerosis. The major goal is to investigate how CD43 affects macrophage function and how these changes in macrophage function in turn affect the development of atherosclerosis.	
Hawaiian Silversword Foundation	\$55,850
<u>Conservation Work at Keauhou/Kilauea and North Kona</u>	
Morden, Clifford W	Department of Botany
Continue forest restoration research and management at Keauhou Ranch, Kilauea Forest, and north Kona on the island of Hawaii.	
Oceanic Institute - Ctr for Tropical & Subtrpcl Aquaculture (CTSA)	\$36,030
<u>Culturing Native Species of Macroalgae in Hawaii and the US Affiliated Pacific Islands</u>	
Haws, Maria C.	Pacific Aquaculture-UHH
Focus on developing culture methods for two species of native seaweeds, <i>Asparagopsis taxiformis</i> (limu koho) and <i>Codium edule</i> (limu wawae'iole)	
Oceanic Institute - Ctr for Tropical & Subtrpcl Aquaculture (CTSA)	\$38,553
<u>Assessing Hawaii's Aquaculture Farm and Industry Performance</u>	
Leung, Ping Sun	Department of Molecular Biosciences and Bioengineering
This proposed research will evaluate the economic performance of the aquaculture industry and its sub-sectors with respect to its profitability and efficiency/productivity using the census of Agriculture data for the years 1997, 2002 and 2007.	



## Gifts, Grants, and Contracts for September 2011

### Research

#### Hawaii- Non-Profit Organizations

Pacific Health Research & Education Institute	\$23,823
<u>Reducing Cost-Related Medication Nonadherence in Persons with Diabetes</u>	
Juarez, Deborah T	College of Pharmacy-UHH
Evaluate the impact of a web-based prescribing tool on medication adherence and cost	
Pacific Health Research & Education Institute	\$66,718
<u>Reducing Cost-related Medication Nonadherence in Person with Diabetes</u>	
Tseng, Chien-Wen	Department of Family Medicine and Community Health
Dr. Tseng will be responsible for the study design, IRB applications, overseeing the claims analyses to measure medication adherence and drug cost, designing the physician survey instrument, data analyses, publishing manuscripts, and disseminating study findings.	
Tri-Isle Resource Conservation & Dev Council	\$94,290
<u>Natural Resources Management in Kapunakea Preserve, West Maui</u>	
Morden, Clifford W	Department of Botany
Conduct research and monitoring of rare native plants and conduct management and control of invasive species in the Kapunakea Preserve in West Maui.	
University of Hawaii Foundation	\$45,300
<u>Philosophy for Children Research Associate</u>	
Jackson, Thomas E	Department of Philosophy
The Philosophy for Children Research Associate will gather data and conduct research on the effectiveness of a proposed "Philosopher in Residence" initiative at two public schools in Hawaii.	
World Turtle Trust	\$53,398
<u>Hawaii Island Hawksbill Turtle Recovery Project</u>	
Duffy, David C	Department of Botany
Manage and protect the endangered Hawksbill sea turtle by projecting and restoring its nesting habitat on the Big Island.	

#### Mainland- Business and Other

Gilead Sciences, Inc	\$4,912
<u>A Multi-center, Randomized, Double-Blind, Double-Dummy, Phase 3 Study of the Safety and Efficacy of Ritonavir-Boosted Elvitegravir (EVG/r) Versus Raltegravir</u>	
Shikuma, Cecilia M	Department of Medicine
To test experimental HIV drug therapy on human subjects.	
Jet Propulsion Lab	\$10,000
<u>Cassini Solstice Mission</u>	
Owen, Tobias	Institute for Astronomy
To study seasonal and other long-term temporal changes on Saturn and its moons, from northern winter solstice to northern summer solstice. The mission extension will allow for continued observations of Saturn's rings and the magnetic bubble around the planet known as the magnetosphere.	

## Gifts, Grants, and Contracts for September 2011

### Research

#### Mainland- Business and Other

Jet Propulsion Lab \$5,000

A Spitzer Proper Motion Survey of the Pleiades

Kraus, Adam L Institute for Astronomy

This program will use new observations with Spitzer Space Telescope, combined with existing data, to identify the lowest-mass members of the Pleiades cluster based on their proper motions.

Jet Propulsion Lab \$84,035

Cosmic Flows

Tully, R Brent Institute for Astronomy

Mid infrared images of galaxies are gathered from observations with Spitzer Space Telescope. Area photometry of the images results in measures of the luminosities of the galaxies. There is a correlation between galaxy luminosities and rate of rotation that can be used to measure galaxy distances.

National Geographic Television \$13,448

Assessing Deep-Sea Biodiversity and Community Structure

Drazen, Jeffrey C Department of Oceanography

Baited cameras will be deployed to the seafloor off the Island of Hawaii to film deep-sea animals

National Geographic Television \$334,989

Marine Investigation of Lo'ihi Seamount and Deep Sea Precious Corals

Wiltshire, John C Hawaii Undersea Research Laboratory

To conduct submersible research on Lo'ihi Seamount and precious coral resources off the Island of Hawai'i

National Renewable Energy Lab \$30,000

System Contaminant Testing and Analysis for Proton Exchange Membrane Fuel Cells

St-Pierre, Jean Hawaii Natural Energy Institute

Testing and analysis to examine system contaminants affecting catalyst kinetics and membrane/ionomer conductivity.

SWCA Environmental Consultants \$60,000

Survey and Eradication of High-Priority Species along State Roads

Duffy, David C Department of Botany

Perform survey of priority invasive and native plant species along Oahu roadways, report the data via GIS database, and conduct control of target invasive species.

#### Mainland- Health Organizations

Kaiser Foundation Research Institute \$118,346

Comparative Effectiveness of Diabetes Prevention Strategies in Women with GDM

Albright, Cheryl L. UH Cancer Center

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

## Gifts, Grants, and Contracts for September 2011

### Research

#### Mainland- Health Organizations

Klein Buendel, Inc. \$39,000

A Home Exercise Program for Women with Infants and Young Children

Albright, Cheryl L. UH Cancer Center

This Phase II project will develop and test an interactive web-enabled multimedia program, "Choose to Move", that will feature 10-minute videos demonstrating yoga, aerobics, and strengthening exercises for mothers of infants 8 weeks to 8 months of age.

Pediatric Dengue Vaccine Initiative \$32,166

Dengue ELISA-Based Assay

Wang, Wei-Kung Dept of Trop Med, Medical Microbiology and Pharmacology

With the availability of human monoclonal antibodies derived from subjects following dengue virus infection, it is possible to identify epitope(s) of neutralizing antibodies. An ELISA based assay thus developed for detecting protective neutralizing antibodies in polyclonal dengue antisera is critical for dengue vaccines and evaluation.

#### Mainland- Non-Profit Organizations

Consortium for Ocean Leadership \$11,999

Participation in IODP Cruise #330

Mahoney, John Department of Geology and Geophysics

Participation in IODP scientific expedition #330.

Hill (Joseph H) Memorial Foundation, Inc. \$1,100

Enhancing Protea Flowering in Hawaii

Criley, Richard A Department of Tropical Plant and Soil Sciences

In year 1, protea bushes are cut back to induce uniform shoot return. In year 2, 3-flush shoots are treated with cytokinin to induce flower initiation. Flowering should occur in late year 2 or early year 3.

Trivedi Foundation \$48,379

Mouse Immune Models for Treatment of Diabetic Ulcers

Csiszar, Katalin Department of Complementary and Alternative Medicine

Diabetic and non-diabetic MPZL3 mutant mice will be exposed to a brief biofield treatment and its effect on spontaneous and diabetic wound healing will be investigated.

University Corporation for Atmospheric Research \$35,484

Okeanos ROV Research Cruise

Bingham, Brian S Department of Mechanical Engineering

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

University Corporation for Atmospheric Research \$49,800

Okeanos ROV Research Cruise

Bingham, Brian S Department of Mechanical Engineering

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

## Gifts, Grants, and Contracts for September 2011

### Research

#### National Aeronautics and Space Administration

National Aeronautics & Space Administration \$45,000

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

O'gara, Daniel J Institute for Astronomy

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

National Aeronautics & Space Administration \$309,571

The NASA Infrared Telescope Facility: Mission Support and Solar System Observations

Tokunaga, Alan Institute for Astronomy

We propose to provide NASA with observations and research data aimed at providing support of spacecraft missions and basic research in support of the Planetary Astronomy program.

National Aeronautics & Space Administration \$13,000

Flame Design: A Novel Approach to Clean Efficient Diffusion Flames

Chao, Beei-Huan Department of Mechanical Engineering

Study the mechanisms that can be used to control diffusion flames such that the flames are strong and soot free. Applying these technologies, clean and efficient diffusion flames can be designed to reduce fuel consumption and pollutants generation in practical combustion devices.

National Aeronautics & Space Administration \$148,466

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 \$65,000

Regional Planetary Image Center

Hawke, Bernard Ray Hawaii Institute of Geophysics and Planetology

This is a proposal for the continued support of the Pacific Regional Planetary Image Facility at the University of Hawaii. Continued support is needed for the development and operation of the center

National Aeronautics & Space Administration \$113,000

Space Weathering in the Inner Solar System

Lucey, Paul Hawaii Institute of Geophysics and Planetology

The project will derive information about planets from data collected from spacecraft.

National Aeronautics & Space Administration \$75,000

Co-investigator Support for the LOLA Experiment

Lucey, Paul Hawaii Institute of Geophysics and Planetology

The investigators will use data from the Laser Orbiter Lunar Altimeter to conduct scientific studies regarding the Moon.

National Aeronautics & Space Administration \$41,000

Iron, Opaque, and Maturity Maps of Mercury's Surface from Multispectral Images

Riner, Miriam A Hawaii Institute of Geophysics and Planetology

We propose to apply a new spectral model to multispectral images of Mercury to constrain the surface composition and effects of exposure to the space environment (space weathering).

# Gifts, Grants, and Contracts for September 2011

## Research

### National Science Foundation

- National Science Foundation \$295,363  
Patterning of Cellular Differentiation by Lateral Inhibition in a Filamentous Cyanmbacterium  
Callahan, Sean M Department of Microbiology  
Characterize inhibitors of cellular differentiation involved in patterning of cellular differentiation.
- National Science Foundation \$216,102  
Observations of Near-Earth Asteroids  
Tholen, David J Institute for Astronomy  
We are proposing to further improve our astrometric accuracy by implementing the use of a new reference catalog, which corrects some of the problems with those encountered with the previous one used.
- National Science Foundation \$210,314  
Collaborative Research: The Role of Sponges in the Coastal Nitrogen Cycle  
Popp, Brian N Department of Geology and Geophysics  
We will attempt to quantify the role of sponge-hosted microbial nitrogen transformation in n mass balances for representative coral reef and adjacent coastal environments.
- National Science Foundation \$101,364  
Collaborative Research: Iron Regulation of the Food Quality of Phytoplankton in Acidified Eastern Boundary Upwelling Systems.  
Bidigare, Robert R Hawaii Institute of Marine Biology  
This will provide critical insights to the effects of extreme ocean acidification on the comparative food quality of the future phytoplankton communities in the Eastern boundary.
- National Science Foundation \$269,879  
Carbon Substitution and Sequestration (CarbSS)  
Antal, Michael J JR Hawaii Natural Energy Institute  
Four UH students (two per year) will receive training at UH and at the Norwegian University of Science and Technology in the use of equipment and instruments for the study of biocarbon production and utilization.
- National Science Foundation \$22,968  
EAGER Collaborative Research: Optimizing RNA Binding and Detection for Use in the Capillary Waveguide Biosensor ESP Module for Automated, In Situ Microbial Process Studies  
Kemp, Paul Department of Oceanography  
Optimize hybridization protocols to increase the dynamic range of the Capillary Waveguide Biosensor, a sensor platform for the MBARI Environmental Sample Processor. Work includes optimization of temperature and other hybridization conditions, and signal amplification through improved probe design.

# Gifts, Grants, and Contracts for September 2011

## Research

### National Science Foundation

National Science Foundation \$439,893

Collaborative Research: Downstream Impacts of the South Pacific Tropical Water

Qu, Tangdong Department of Oceanography

We proposed a study that focuses on the variability and downstream impacts of the South Pacific Tropical Water, using available observations and results from high-resolution GCMs.

National Science Foundation \$199,984

Optimal Geometric Control for the Contrast Imaging Problem in Nuclear Magnetic Resonance

Chyba, Monique Department of Mathematics

The primary objective of the proposed research is to apply techniques of geometric optimal control theory to the control of the spin dynamics by magnetic fields in Nuclear Magnetic Resonance.

National Science Foundation \$402,415

Collaborative Research: Controls on Hadal Megafaunal Community Structure: a Systematic Examination of Pressure, Food Supply, and Topography

Drazen, Jeffrey C Department of Oceanography

This proposal will study the animals living in the worlds deepest habitats, the trenches. We will describe the distributions and try to explain the patterns observed based on food supply, bathymetry and physiological adaptations to pressure.

National Science Foundation \$241,256

Collaborative Research: Application of Transcriptomics to Understanding Mechanisms of Stress Response and Toxin Production in Microbes in Marine Tropical Waters

Bienfang, Paul Kenneth Department of Oceanography

The proposed work will use the techniques of transcriptomics to help determine the ways in which environmental variables affect: (a) the production of ciguatoxin by dinoflagellates in the genus *Gambierdiscus*; and (b) the inactivation by sunlight of the pathogenic bacteria *Staphylococcus aureus* and the fecal indicator *Enterococcus*.

National Science Foundation \$4,000,000

Center for Microbial Oceanography: Research and Education (C-MORE)

Karl, David M. Department of Oceanography

Operations at the Center for Microbial Oceanography: Research and Education will be extended for an additional 5-year period (2011-2016). We will conduct research, create and disseminate knowledge, provide unique educational opportunities, conduct research and enhance the diversity of the scientific workforce.

National Science Foundation \$2,000

I/UCRC Center for Bioenergy Research and Development

Turn, Scott Q Hawaii Natural Energy Institute

UH will participate in the development of novel catalysts for producing liquid biofuels from synthesis gas. UH will characterize contaminants in the synthesis gas that affect catalysts and supply synthesis gas samples.

National Science Foundation \$160,086

Integrating Environmental Modulation, Osmosensitivity and Signaling in a Model Osmoreceptor.

Grau, E Gordon Hawaii Institute of Marine Biology

To elucidate the mechanisms that mediate osmoreception in the prolactin cell of the tilapia in fresh water and seawater environments.

## Gifts, Grants, and Contracts for September 2011

### Research

#### National Science Foundation

National Science Foundation \$15,111

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

Rubin, Kenneth H Department of Geology and Geophysics

Supplementary request to determine high resolution ages of a vary young submarine lava flow at axial volcano.

National Science Foundation \$77,877

Collaborative Research: US-URUGUAY-BRAZIL: IRES AMPLIFIED: Ampullariidae Model using Phylogeography. Laboratory Integration with Field Investigations into Ecology and Diversity

Hayes, Kenneth A Pacific Biosciences Research Center

This is a collaborative project to provide students in Hawaii with international research experiences with host scientists in Uruguay and Brazil. They will primarily use apple snail systems to develop independent projects with host scientists for 6 weeks each year.

National Science Foundation \$335,000

International Collaboration in Chemistry: Electrochemical Methods in High-Valent Palladium Chemistry

Vicic, David Department of Chemistry

To develop new electrochemical methods using the higher oxidation states of palladium.

#### US Colleges and Universities

Alaska, University of \$65,000

Operational Support of Infrasound Station I59US of the International Monitoring System (IMS)

Garces, Milton A Hawaii Institute of Geophysics and Planetology

Operate, maintain and upgrade/sustain the I59 infrasound site in Hawaii.

Alaska, University of \$154,993

Proposal for Post-Certification Activities at IMS Stations I39PW, Palau and I52GB, Diego Garcia (I39PW Palau)

Garces, Milton A Hawaii Institute of Geophysics and Planetology

Continued maintenance operation for Palau and Deigo Garcia.

Alaska, University of \$177,663

Proposal for Post-Certification Activities at IMS Stations I39PW, Palau and I52GB, Diego Garcia (I52GB, Diego Garcia)

Garces, Milton A Hawaii Institute of Geophysics and Planetology

Continued maintenance operation for Palau and Diego Garcia.

California Irvine, University of \$150,298

Characterization of Mutations in Unknown Genes Expressed in the Burkholderia pseudomallei Transítome

Hoang, Tung Thanhthanh Department of Microbiology

The goals are to identify and characterize the natural transformation system of B. pseudomallei and to develop novel molecular genetic tools for genome manipulation of B. mallei and B. pseudomallei.

## Gifts, Grants, and Contracts for September 2011

### Research

#### US Colleges and Universities

Drew, Charles R., University \$537,628

RCMI Translational Research Network (RTRN)

Yanagihara, Richard Department of Pediatrics

The goal of the RTRN is to establish an infrastructure to facilitate translational research in health disparities. Hawaii will be one of the performance sites coordinated by Drew University. Drew University will send a subcontracts to UH based on the attached sub-recipient commitment form attached.

Montclair State University \$66,030

Static and Shock Pressure Treatment of Synthetic Mars Basalts: Understanding the Evolution of Crustal Magnetic Anomalies

Hammer, Julia Eve Department of Geology and Geophysics

We will investigate the origin and subsequent modification of strongly magnetized Mars crust. Synthetic basalts will be subjected to increasing pressure treatments in order to evaluate the effects of static and dynamic pressure on rock magnetic properties.

Northeastern University \$56,775

Cannabinergic Ligands and Drugs

Tius, Marcus A Department of Chemistry

The research is a collaborative effort in which my group is responsible for the preparation of a series of small molecules to be evaluated for various pharmacological properties.

Pittsburgh, University of \$16,988

An Objective Measure of Physical Activity in the DPPOS: The Accelerometry Ancillary Study

Arakaki, Richard F Department of Medicine

Ancillary Study of the Diabetes Prevention Program Outcomes Study in which physical activity will be assessed using accelerometers. Study protocol includes initializing and downloading data from accelerometers which capture physical activity data worn by participants. Participants will be given small compensation.

Southern California, University of \$291,212

Center for Dark Energy Biosphere Investigations

Cowen, James P Department of Oceanography

To participate in C-DEBI project as co-PI and coordinator of instrumentation development. Participate in cruises to Juan de Fuca Ridge flanks and North Pond, Atlantic Ocean.

Southern California, University of \$49,999

Chemical Sensor Development for Microbially-relevant Scales of Concentration Gradients

Glazer, Brian Department of Oceanography

To identify and/or measure more than one chemical species in deep subsurface biosphere which may be relevant to co-evolution of the earth and life through geologic time scales.

Southern California, University of \$203,957

A Genome Wide Association Study of Prostate Cancer in African Americans

Le Marchand, Loic UH Cancer Center

To conduct a whole genome association study of prostate cancer in African Americans to identify susceptibility factors for this disease and replicate the findings in other ethnic groups in the Multiethnic Cohort Study.

**Subcount: 169**

**Subtotal: \$57,728,737**



## Gifts, Grants, and Contracts for September 2011

### Non-Research

#### DA-Dept of Agriculture

Agriculture, Dept - FED	\$38,000
<u>Sustain Hawaii Conservation Alliance</u>	
Kaneshiro, Kenneth Y	Pacific Biosciences Research Center
Sustain the Hawaii Conservation Alliance by organizing the Hawaii Conservation Conference; organizing workshops utilizing Hawaii's available research resources & publishing results; and developing efficient communication of relevant research findings to the manager's of Hawaii's natural resources.	
Agriculture, Dept - FED	\$337,841
<u>Outreach and Assistance in Tropical Pasture and Livestock Management of Pacific Islanders</u>	
Thorne, Mark S	Department of Human Nutrition, Food and Animal Sciences
This project will provide training to Native Hawaiian and Pacific Islander ranchers and natural resource professionals of Hawaii, Guam, Northern Marianas Islands, Palau, and Federated States of Micronesia in sustainable pasture and livestock management in tropical systems.	
Agriculture, Dept - FED	\$73,818
<u>University of Hawaii Extension IPM 2010</u>	
Hara, Arnold H	Department of Plant and Environmental Protection Sciences
the University of Hawaii Extension IPM Program encompasses education and training for extension personnel in specialized crops (floriculture, tropical fruit, macadamia nuts, vegetables) and animal agriculture and their stakeholders in Integrated Pest Management practices that reduce risk to humans and the environment.	
Agriculture, Dept - FED	\$44,782
<u>Biotechnology Outreach Program</u>	
Wieczorek, Anna M.	Department of Tropical Plant and Soil Sciences
Improved understanding of agricultural biotechnology issues by growers, marketers, legislators and consumers.	
Agriculture, Dept - FED	\$18,000
<u>Understanding Impacts of Climate Change on Native Hawaiian and Pacific Island Communities</u>	
Burkett, Maxine	Sea Grant College Program
the primary goal of this agreement is to establish a training symposium that will assist Native Hawaiian decision-makers and interested partners build their knowledge and understanding of climate change policy and programs and identify opportunities for enhancing adaptive capacity and cultivating important ancillary benefits such as economic development.	
Agriculture, Dept - Forest Service-FED	\$12,000
<u>Technical Assistance for Forestry, Agroforestry, and Native Plant Nurseries in the American-affiliated Pacific Islands</u>	
Friday, James B	College of Tropical Agriculture and Human Resources
I propose to work with the USDA Forest Service to develop activities, information, and materials (e.g. workshops, web pages, videos, fact sheets, propagation protocols, resource directories) with the objective of providing technical expertise and assistance to benefit forestry, agroforestry and native plant nurseries in the American-affiliated Pacific islands.	

# Gifts, Grants, and Contracts for September 2011

## Non-Research

### DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Ctrs for Disease Cntrl & Prvntn (CDC)	\$850,000
<u>Pacific Center of Excellence in the Elimination of Disparities</u>	
Palafox, Neal A	Department of Family Medicine and Community Health
Provide infrastructure and technical assistance to the Pacific populations to 1) implement the respective strategies within the comprehensive cancer plans as they relate to breast and cervical cancer 2) Work with the ISAPI population in Hawaii and 3) serve as a national resource center.	
Health & Human Svc, Dept - FED	\$261,000
<u>Ulua'i Laona - Helping Babies Hear</u>	
Johnson, Jean Lee	Center on Disability Studies
This project will improve, enhance, and expand the universal newborn hearing screening program to meet the 1-3-6 goals and reduce loss to follow-up at each of the stages. It will expand hearing screening to preschool populations and assist with the implementation of universal newborn metabolic screening.	
Health & Human Svc, Dept - Hlth Res & Svcs Adm (HRSA)	\$867,823
<u>Native Hawaiian Center of Excellence 93.157</u>	
Lee, Winona	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 - Sbstnc Abuse & Mntl Hlth Svcs Adm	\$479,209
<u>Hawai'i's Caring Communities Initiative</u>	
Goebert, Deborah A	Department of Psychiatry
Hawai'i is proposing to implement two strategic evidence-based youth suicide prevention and early intervention projects. These projects will focus on impacting at-risk communities, as well as the statewide crisis infrastructure in Hawai'i.	
Health & Human Svc, Dept - Sbstnc Abuse & Mntl Hlth Svcs Adm	\$479,209
<u>Hawai'i's Caring Communities Initiative</u>	
Goebert, Deborah A	Department of Psychiatry
Hawai'i is proposing to implement two strategic evidence-based youth suicide prevention and early intervention projects. These projects will focus on impacting at-risk communities, as well as the statewide crisis infrastructure in Hawai'i.	
Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$105,741
<u>R25T CURE Supplement</u>	
Maskarinec, Gertraud	UH Cancer Center
This minority supplement will support a postdoctoral fellow in Nutritional & Behavioral Cancer Prevention in a Multiethnic Population led by faculty at the Cancer Research Center of Hawaii and collaborators elsewhere at the University and health care organizations in Honolulu.	

### DOC-Dept of Commerce

Commerce, Dept - FED	\$300,000
<u>Building the Foundation for a Hawaii State Adaptation Plan</u>	
Burkett, Maxine	Sea Grant College Program
This series of symposia will bring together public officials, government agency staff, business leaders, researchers, and community members to build support for statewide, coordinated climate change preparedness and adaptation efforts.	

# Gifts, Grants, and Contracts for September 2011

## Non-Research

### DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$2,314,000

Developing the Pacific Islands Ocean Observing System (PacIOOS)

Taylor, Brian School of Ocean and Earth Science and Technology

Maintenance and continued development of the instrumentation, modeling, stakeholder engagement, and data management systems of the Pacific Islands Ocean Observing System (PacIOOS), a regional component of the national Integrated Ocean Observing System (IOOS).

Commerce, Dept/NOAA - National Ocean Service (NOS) \$100,000

Hawaii Coral Reef Initiative, Phase 3

Hamnett, Michael P Social Science Research Institute

Promote research finding from HCRI FY2010 projects, conduct outreach and education, update website, and implement the new K-2 marine science curriculum.

### DOD-Department of Defense

Defense, Dept - Navy \$42,783

Fiber Connectivity to VLBA on Mauna Kea

Lassner, David K Information Technology Services

Provide fiber connectivity to VLBA facility on Mauna Kea

Defense, Dept - Office of Naval Research \$507,000

Research Vessel Operations and At-Sea Technical Services, University of Hawaii 2009-2011

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

To provide ONR with ship time and technical support in 2009 on R/V Kilo Moana.

### DOE-Dept of Energy

Energy, Dept - FED \$299,693

Readiness and Planning for Plug-In Electric Vehicles and Charging Infrastructure

Sakamoto, Clyde M Chancellor, University of Hawaii Maui College

A planning and policy development grant which will prepare UH Maui College, Maui County, and, more broadly, the State of Hawaii for a proliferation of plug-in electric vehicles and the required infrastructure.

### DOI-Dept of Interior

Interior, Dept - Bureau of Land Management \$24,967

Improved Wildfire Prediction Using Remote Sensing Technology on Guinea Grasslands in Hawaii

Litton, Creighton Department of Natural Resources and Environmental Management

Proposed research will develop a simple method to quickly and accurately predict real-time fuel moisture from Terra-MODIS enhanced Vegetation Index data. Accurate fuel moisture prediction will greatly improve predictions of fire ignition and spread, allowing land managers to make informed decisions on live fire training.

## Gifts, Grants, and Contracts for September 2011

### Non-Research

#### DOI-Dept of Interior

Interior, Dept - National Park Service	\$5,400
<u>Support for a Coordinator for the Coordinating Group on Alien Pest Species</u>	
Duffy, David C	Department of Botany
Assist the Coordinating Group on Alien Species with collaborative projects to reduce invasive species in Hawaii	
Interior, Dept - National Park Service	\$38,000
<u>Prepare Archaeological Overview and Assessment for National Park of American Samoa</u>	
Bayman, James	Department of Anthropology
The research project is designed to assist the National Park Service with their management of archaeological resources in the National Park of American Samoa. The research is focused on developing an annotated bibliography of previous archeological studies in the park, and acquiring copies of selected documentation.	
Interior, Dept - National Park Service	\$7,500
<u>Support of the Hawaii-Pacific Islands Cooperative Ecosystem Studies Unit</u>	
Duffy, David C	Department of Botany
Support the coordination of the Hawaii-Pacific Islands Cooperative Ecosystem Studies Unit.	
Interior, Dept - National Park Service	\$51,000
<u>Public History and Records Management at Hawaii Volcanoes National Park</u>	
Inglis, Kerri	Social Sciences-UHH - Division Office
Establish paid internships for history students at the UHH to work with Park staff to learn principles and standards of records management that focus on archival duties, and to apply the knoweldge about this body of evidence to research in public history.	
Interior, Dept - U.S. Fish & Wildlife Service	\$39,925
<u>Invasive Ant Strike Team: Johnston Atoll National Wildlife Refuge</u>	
Duffy, David C	Department of Botany
Assist in the eradication of the invasive yellow crazy ant, which has infested approximately 11% of Johnston Atoll.	
Interior, Dept - U.S. Fish & Wildlife Service	\$64,455
<u>Volcano Rare Plant Facility - Clemontias</u>	
Kaneshiro, Kenneth Y	Pacific Biosciences Research Center
Provide services for the collection, propagation and reintroduction to prevent extinction of six endangered PEP species.	
Interior, Dept - U.S. Geological Survey	\$45,000
<u>Biodiversity Research Program</u>	
Sakamoto, Clyde M	Chancellor, University of Hawaii Maui College
This cooperative agreement will allow USGS to co-locate at Maui Community College and involve students, faculty and staff to participate in biodiversity research and fieldwork including the modeling of spatial data.	

# Gifts, Grants, and Contracts for September 2011

## Non-Research

### ED-Dept of Education

Education, Dept - FED \$400,965

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

Gomes, Lenore K Vice President for Student Affairs

Kahuewai 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 \$382,529

Student Support Services Program (UHM)

Yoshimoto, Melven M Special Student Services

Provide academic and other support services to eligible (based on income and 1st generation college student) students enrolled at UHM to increase their retention and graduation. Foster a positive campus climate supportive of these students.

Education, Dept - FED \$284,919

Upward Bound Math & Science, Yr 2

Woods, Leonard Vice Chancellor for Student Affairs-UHH

Education, Dept - FED \$1,994,332

Hale Kanilehua Living-Learning Center Renovation

Makuakane-Lundin, Gail M Vice Chancellor for Student Affairs-UHH

Renovation of an existing facility to create a living-learning center at UH Hilo to provide a safe and supportive living-learning environment for students by successfully transitioning them into the University through first-year experience seminars and other academic/social integration experiences

Education, Dept - FED \$593,464

Waianae Program for Afterschool Literacy Support (W-PALS)

Fukuda, Kay L Student Equity, Excellence, and Diversity

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

Education, Dept - FED \$769,402

Kulukuluua: 5-year Development Grant

Kealiikanakaoleohaililani, Kekuhi Chancellor, Hawaii Community College  
K K

The proposed project will (1) increase the course completion rates of Native Hawaiian students; (2) increase the number of Native Hawaiians re-enrolling and completing their degree in Hawaii Life Styles Academic Program, and (3) increase levels of student engagement for persistence and degree completion.

Education, Dept - FED \$1,255,656

Waihonua: 2 Year Renovation Grant

Kealiikanakaoleohaililani, Kekuhi Chancellor, Hawaii Community College  
K K

The I Ola Haloa Center for Hawaii Life Styles Program at Hawaii Community College will conduct two activities in striving to increase course completion rates: (1) Renovating Academic Community spaces, and (2) Developing iHa'akumalae for Learner Success.

# Gifts, Grants, and Contracts for September 2011

## Non-Research

### ED-Dept of Education

Education, Dept - FED	\$856,825
<u>Hui Manawa Kupono</u>	
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	\$281,200
<u>PILI Project: Pacific Island Learning Initiative in Deaf Education</u>	
Stodden, Robert A	Center on Disability Studies
PILI Project is a regional program designed to prepare teachers for Hawaii and 9 Pacific jurisdictions, to reduce the severe shortage of certified teachers of deaf and hard of hearing students in Hawaii and the Pacific.	
Education, Dept - FED	\$361,077
<u>New Beginnings for ELL: Innovation through Technology for English Literacy and Academic Success</u>	
Kim-Rupnow, Weol Soon	Center on Disability Studies
The purpose of this proposed 5-year project is to develop, provide, and evaluate high-quality professional development (PD) activities that will result in improved academic achievement with enhanced English skills and motivation of English Language Learner (ELL) students.	
Education, Dept - FED	\$834,105
<u>Kako'o Ikaika: Supporting Adolescent Hawaiian Students to Achieve High Standards</u>	
Lai, Morris K	Curriculum Research and Development Group
Kako'o Ikaika is a three-year project designed to help six secondary schools with large numbers of Native Hawaiian students to achieve high standards and graduation rates. The project will help build a school-wide model that provides a multi-tiered system for literacy and behavior supports.	
Education, Dept - FED	\$414,766
<u>Kulia I Ka Nu'u (Strive for the Summit: Culturally Responsive, Place-based Professional Development in Science for Native Hawaiian Students</u>	
Chinn, Pauline W	Department of Curriculum Studies
Professional development project will provide EDCS 433 and EDCS 450, (6 credits) curriculum courses for in-service K-12 science teachers. Courses will provide culturally relevant, place and standards-based content and pedagogy and culture-science immersions led by Native Hawaiian instructors.	
Education, Dept - FED	\$895,728
<u>Hulili-A Collaborative Grant Between UH-Manoa and Windward Community College to Improve the Transfer and Success Rates of Native Hawaiian Students</u>	
Eschenberg, Ardis R	Chancellor, Windward Community College
UH Manoa (UHM) and Windward Community College (WCC) will collaborate to increase the number of Native Hawaiian (NH) students at WCC who transfer to UHM; number of NH students who receive a Bachelor's degree at UHM; and professional development opportunities for transfer students and NH serving faculty and at	
Education, Dept - FED	\$2,000,000
<u>Hale Ao Renovation and Hawaiian Studies Curriculum Expansion</u>	
Moore, Peter	Chancellor, Windward Community College
Strengthening Student Engagement through increased facility space to house Hawaiian Studies courses and through the creation of an Associate of Arts degree in Hawaiian Studies and expanded curriculum. The initiatives are focused on increasing the success rates of WCC students.	

# Gifts, Grants, and Contracts for September 2011

## Non-Research

### ED-Dept of Education

Education, Dept - FED	\$800,000
<u>Kakoo Koolau - Strengthening Student and Institutional Engagement at Windward Community College</u>	
Eschenberg, Ardis R	Chancellor, Windward Community College
Strengthening institutional engagement through more relevant and accessible academic offerings; and strengthening student engagement through improved access, early intervention, and innovative student support services. Both activities focus on increasing student persistence, retention, and graduation or transfer.	
Education, Dept - FED	\$369,027
<u>Student Support Services Program</u>	
Inouye, Roy Owen	Chancellor, Windward Community College
Provide counseling, academic advising, tutoring, supplemental grant aid, study skills workshops, computer lab, cultural activities, and other services to disadvantaged college students (low-income, first generation, and/or disabled individuals as defined by U.S. Department of Education).	
Education, Dept - FED	\$242,250
<u>Windward Community College Upward Bound Program</u>	
Gillis-Davis, Lisa C	Chancellor, Windward Community College
Windward Upward Bound will provide opportunities for 50 low-income/first generation college potential public school students to receive academic support, career guidance, college planning, and summer residential college experience.	
Education, Dept - FED	\$426,991
<u>Maui County Educational Opportunity Center</u>	
Tagomori, Alvin R	Chancellor, University of Hawaii Maui College
Provide college access services-career exploration, college and financial aid information and application assistance to predominantly low-income, first generation Maui County residents.	
Education, Dept - FED	\$366,766
<u>Maui County Upward Bound Program</u>	
Tagomori, Alvin R	Chancellor, University of Hawaii Maui College
the Upward Bound Program affords Maui County secondary students who are economically disadvantaged and have a "high academic risk for failure" the opportunity to acquire the basic skills and information necessary for enrolling and succeeding in postsecondary educational programs.	
Education, Dept - FED	\$799,989
<u>Native Hawaiian Serving Institution: Increase Native Hawaiian Success at University of Hawai'i Maui College</u>	
McKee, John	Chancellor, University of Hawaii Maui College
Increase Native Hawaiian Success by increasing retention, persistence and graduation rates by providing peer tutoring and mentoring in a new Student Success Center, mandating a First and Second Year Experience for cohort participants and developing an Associate in Arts degree with an emphasis on Hawaiian Studies.	
Education, Dept - FED	\$287,825
<u>Leeward Community College - Upward Bound Math/Science; 2007-2012</u>	
Manaseri, Christopher B	Chancellor, Leeward Community College
Provide college preparatory services for high school youth. Program's purpose is to increase academic performance and college going rates in low income and first generation students.	

# Gifts, Grants, and Contracts for September 2011

## Non-Research

### ED-Dept of Education

Education, Dept - FED	\$322,351
<u>TRIO Student Support Services</u>	
Furuno, Nora M	Chancellor, Kapiolani Community College
Provide services to low income, first generation and/or students with disabilities to persist, remain in good academic standing, graduate and graduate and transfer to a four year educational institution.	
Education, Dept - FED	\$648,712
<u>Title III, Strengthening a New Ecology of Engaged Teaching and Learning for student Success</u>	
Richards, Leon	Chancellor, Kapiolani Community College
Comprehensive integration of research-based best practices in student support and high impact practices in student learning across the College's continuum of developmental education to degree-applicable course work, associate and baccalaureate degree completion.	
Education, Dept - FED	\$230,289
<u>Student Support Services (TRIO)</u>	
Matsui, Sandra Y	Chancellor, Honolulu Community College
Purpose: To increase the college persistence, graduation and transfer rate of low-income, first generation college students and students with disabilities. Services: direct student support, tutoring, counseling, instruction, grant aid.	
Education, Dept - FED	\$657,156
<u>Halaulani</u>	
Kealiikanakaoleohaililani, Kekuhi K K	Chancellor, Hawaii Community College
The grant will conduct three activities to improve Native Hawaiian transfer rates: (1) Strengthening Student Transfer Success at Hawaii Community College: (2) Bridging the Hawaii Community College and the University of	
Education, Dept - FED	\$500,000
<u>Creating a Mobile High-Touch, High-Tech Learning Environment: A Program to Promote Academic &amp; Psychosocial Engagement &amp; to Increase Participation STEM Disciplines</u>	
Ledward, Margaret W	Chancellor, University of Hawaii at West Oahu
This proposal addresses the activities that UHWO can implement to increase college success as measured by improving retention and graduate rates. It also aims to increase access to higher education by increasing opportunities for students to participate successfully in STEM classes and disciplines. UHWO will develop a high-touch mobile learning environment.	
Education, Dept - FED	\$291,974
<u>Student Support Services Program</u>	
Woods, Leonard	Vice Chancellor for Student Affairs-UHH
Provide assistance to students to ensure success in attaining degrees at insititutions of higher education	
Education, Dept - FED	\$788,250
<u>Hanakahi Student Success Programs</u>	
Makuakane-Lundin, Gail M	Vice Chancellor for Student Affairs-UHH
Increases in Native Hawaiian student success, retention and completion; increases in the level of engagement of students in their college educational experience; improvements among students in the attitudes, knowledge and skills associated with effective leadership; and improvements in Hawaiian language teaching and student learning.	



# Gifts, Grants, and Contracts for September 2011

## Non-Research

### ED-Dept of Education

Education, Dept - FED	\$177,029
<u>CIBER 2010-14: Promoting US Competitiveness through Enhanced Collaboration, Communication, and Trade in the Asia Pacific Region</u>	
Daniel, Shirley June	Shidler College of Business
Promoting US Competitiveness through Enhanced Collaboration, Communication, and Trade in the Asia Pacific region.	
Education, Dept - Ofc of Postsecondary Ed-FED	\$230,000
<u>Manoa Educational Talent Search (METS) Program</u>	
Goo, Maile S.	Student Equity, Excellence, and Diversity
METS will serve 600 students from Nanakuli Intermediate and High School and Waianae High School to increase their secondary school persistence, secondary school graduation, postsecondary education enrollment, and their postsecondary degree attainment.	
Education, Dept - Ofc of Postsecondary Ed-FED	\$89,363
<u>Improving Engagement and Retention Among Underprepared Students</u>	
Pecsok, Michael H	Chancellor, Leeward Community College
Supplemental budget request is to develop resources for use of technology and innovative practices in education.	
Education, Dept - Ofc of Postsecondary Ed-FED	\$303,606
<u>Kokua a Puni - Native Hawaiian Student Service Program</u>	
Benham, Maenette KP	Hawai'inuiakea School of Hawaiian Knowledge
Supplemental award for technology innovation activities related to three Kokua a Puni development grant activities	
Education, Dept - Student Support Svcs Prog-FED	\$246,485
<u>Maui Community College Student Support Services Program</u>	
Tagomori, Alvin R	Chancellor, University of Hawaii Maui College
The purpose of the Student Support Services Program will be to increase the college program retention, completion, graduation, and transfer rates in low-income, first generation, and disabled SSSP participants. The program will provide comprehensive support services for 160 students.	

### Federal Agencies

Environmental Protection Agency	\$17,000
<u>Ecoinformatics to Evaluate the environmental Health and Management of Coral Reef Ecosystems - Fellow E. Franklin</u>	
Jokiel, Paul L	Hawaii Institute of Marine Biology
This EPA STAR Fellowship supports any associated tuition, fees, supplies, travel, or miscellaneous expenses for Erik Franklin's doctoral research on coral reef ecoinformatics.	
Labor, Dept - Employment & Training Admin-FED	\$24,653,118
<u>C3T Hawaii: Addressing Workforce Needs Through Results-Driven Educational and Training Programs</u>	
Rota, Michael T	Chancellor, Honolulu Community College
The proposal address specific workforce needs by developing basic adult educational, remedial, developmental, and wrap-around service initiatives and creating and training programs tailored to employer needs and job demands. Online and student coaching components are included in a supplemental funding category.	

# Gifts, Grants, and Contracts for September 2011

## Non-Research

### Federal Agencies

Peace Corps \$17,065  
Peace Corps Campus Representative  
Pascua, Atina T Service Learning  
See attachment A for scope of work

### Hawaii- Business and Other

Hawaii Council for the Humanities \$5,000  
Preserving, Printing and Identifying Francis Haar Negatives Documenting Hawaii Dance and Theatre  
Solyom, Bronwen Library  
tom Haar, independent contractor, will produce 261 contact sheets from Francis Haar negatives documenting Hawaii dance and theatre, preserve the negatives in archival sleeves, and provide labeling information. UHM library staff will place the contact sheets in albums, prepare inventories of the contents and provide public access to them.

Kamehameha Schools \$31,491  
Ka Papa Lo'i O Punalu'u Stewardship Education Program  
Cashman, Edward Ka Papa Loio Kanewai Hawn Gard  
Indirect Cost Rate 10% of total budget. Kanewai staff will be instructing Kamehameha Schools Enrichment students at Ka Papa Lo'i O Punalu'u. Staff will be maintaining the area from the time period of June 1, 2011 to September 30, 2011.

Maui County Community Television, Inc \$28  
MCC-TV Educational Access Television  
Sakamoto, Clyde M Chancellor, University of Hawaii Maui College  
Manage, coordinate, and operate MCC-TV Educational Access Television. This channel is one of the designated providers of educational television programming in Maui County.

Maui County Community Television, Inc \$73,615  
MCC-TV Educational Access Television  
Sakamoto, Clyde M Chancellor, University of Hawaii Maui College  
Manage, coordinate, and operate MCC-TV Educational Access Television. This channel is one of the designated providers of educational television programming in Maui County.

### Hawaii- Dept of Education

Education, Dept - HI \$13,602  
Memorandum of Agreement between University of Hawaii Maui College and Department of Education State of Hawaii: BIO 390V, ENG 316 Classes  
Nakama, Debra Chancellor, University of Hawaii Maui College  
To provide upper division (300+ level) college courses to State of Hawaii Department of Education teachers at the University of Hawaii-Maui College.

# Gifts, Grants, and Contracts for September 2011

## Non-Research

### Hawaii- Dept of Education

Education, Dept - HI \$8,353

Memorandum of Agreement between University of Hawaii Maui College and  
Department of Education State of Hawaii: Special Topics Education 390C, D Summer Classes

Nakama, Debra

Chancellor, University of Hawaii Maui College

To provide upper division (300+ level) college courses to State of Hawaii Department of Education teachers at the University of Hawaii Maui College.

### Hawaii- Government Agencies

City & County of Honolulu \$11,176

University of Hawaii Elder Law Program - Caregivers Support

Pietsch, James H

William Richardson School of Law

Provide legal information services to family caregivers and their care receivers 60 years and older

City & County of Honolulu \$29,768

University of Hawaii Elder Law Program - Legal Services for Elders

Pietsch, James H

William Richardson School of Law

Provide legal services to economically and socially needy elders 60 years and older.

County of Hawaii \$4,750

The Use of Biopods in Composting Abattoir Waste

Duponte, Michael W

Department of Human Nutrition, Food and Animal Sciences

Testing of biopod system using abattoir waste under tropical conditions and an educational workshop on the value of grub composting of agricultural waste.

Health, Dept - Adult Mental Health-HI \$69,981

Hawaii Mental Health Transformation State Incentive Grant

Onken, Steven

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 - Child & Adolescent Mntl Hlth Div-HI \$368,405

Child Residency Training CAMHD Log No. 09-005

Guerrero, Anthony P

Department of Psychiatry

Provide training and administrative support services to psychiatric residents and fellows for the Department of Health, Child and Adolescent Mental Health Division, as outlined in the scope of the contract.

Health, Dept - HI \$2,500

School Based Influenza Vaccination Program Memorandum of Agreement

Qureshi, Kristine

School of Nursing and Dental Hygiene

School Based Influenza Vaccination Program.

Health, Dept - HI \$110,914

Research, Evaluation and Training Program

Mueller, Charles

Department of Psychology

Psychology Department and Department of Health Child and Adolescent Mental Health Division (DOH-CAMHD) collaborate to provide research and evaluation services for CAMHD and provide research and evaluation training for graduate psychology student.

# Gifts, Grants, and Contracts for September 2011

## Non-Research

### Hawaii- Government Agencies

Health, Dept - HI		\$125,774
<u>Research, Evaluation and Training Program</u>		
Mueller, Charles	Department of Psychology	
Psychology Department and Department of Health Child and Adolescent Mental Health Division (DOH-CAMHD) collaborate to provide research and evaluation services for CAMHD and provide research and evaluation training for graduate psychology student.		
Health, Dept - HI		\$20,000
<u>UH-SEED Project, "Filipino Immigrant Assessment Surveys and Focus Groups"</u>		
Agbayani, Amy	Student Equity, Excellence, and Diversity	
UH-SEED will conduct focused group meetings with adults in Filipino communities and key informant interviews of community leaders and health professionals. These efforts will aid in future strategies to promote health and address chronic disease among Filipinos.		
Human Services, Dept - HI		\$26,400
<u>Vocational Skills Instruction for First-to-Work Participants</u>		
Hoshiko, Carol A	Chancellor, Kapiolani Community College	
Provide continuing education instruction for eligible First-to-Work, Department of Human Services students in existing classes noted under previous agreement.		
Human Services, Dept - HI		\$5,296,102
<u>DHS Task Order #9: Hawaii Child Welfare Continuous Quality Improvement Project</u>		
Stein, Lee	Chancellor, University of Hawaii Maui College	
UH Maui College will assist the Department of Human Services with enhancing caseworker skills and with the implementation of a comprehensive quality assurance system for child welfare services. Services will be funded by federal reimbursements earned under Title IV-E of the Social Security Act.		
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI		\$20,462
<u>Kau Education and Outreach</u>		
Duffy, David C	Department of Botany	
Create an outreach and education program to assist in gaining community support for planned forest management		
Public Safety, Dept - HI		\$5,000
<u>PSD Menu</u>		
Watters, Corilee	Department of Human Nutrition, Food and Animal Sciences	
Review of PSD general population 5 week cycle standardized house menus for inmates, vegetarian, special and therapeutic diets, provide nutritional and cos-effective recommendations and modifications to the menus.		

# Gifts, Grants, and Contracts for September 2011

## Non-Research

### Hawaii- Health Organizations

Bay Clinic, Inc. \$40,000  
Rural East Hawaii Workforce Development Network  
Gomez, Lara College of Pharmacy-UHH  
Collaborate with network partners on the placement of students and faculty in the medical clinics of the Hilo Medical Center and Bay Clinic Family Health Centers

### Hawaii- Non-Profit Organizations

Oceanic Institute - Ctr for Tropical & Subtrpcl Aquaculture (CTSA) \$20,000  
Pacific Regional Aquaculture Information Service for Education (PRAISE) & Publications Year Ten  
Anderson, Kristen L Library  
Continue the PRAISE program to promote the transfer of information within the Pacific aquaculture community including: communication current aquaculture news and ongoing information services.

University of Hawaii Foundation \$5,000  
Kanemura Map Restoration Project  
Mochida, Paula T Library

University of Hawaii Foundation \$6,852  
Laila Art Fellows  
Chan, Gaye M G College of Arts and Humanities  
Transfer funds to pay Laila Art Fellow their month stipend.

University of Hawaii Foundation \$124,273  
Microbial Oceanography - Moore Foundation  
Karl, David M. Department of Oceanography  
To train the next generation of scientists in the discipline of microbial oceanography.

University of Hawaii Foundation \$16,000  
Le'a Publication Series  
Morelli, Paula T School of Social Work  
To hire editors for the Le'a Publication Series to oversee the publication of a book and journal series.

### Mainland- Business and Other

HDRre2M \$64,398  
Deployment of Four Ecological Acoustic Recorders (EARs) in the Marianas Island Range Complex to Monitor Marine Mammals  
Au, Whitlow W L Hawaii Institute of Marine Biology  
Deploy 2 EARs in waters of Guam, 1 in waters of Saipan and 1 in waters of Tinian.

# Gifts, Grants, and Contracts for September 2011

## Non-Research

### Mainland- Business and Other

Reata Pharmaceuticals, Inc. \$96,366

402-C-0903: Bardoxolone Methyl Evaluation in Patients with Chronic Kidney Disease and Type 2 Diabetes: The Occurrence of Renal Events (BEACON)

Arakaki, Richard F Department of Medicine

A phase 3 study to assess the efficacy of bardoxolone methyl relative to placebo in the treatment (delay of progression) of chronic kidney disease in patients with either Stage 3b Chronic Kidney Disease (CKD) or Stage 4 CKD and type 2 diabetes.

Space Telescope Science Institute \$100,426

Hubble Postdoctoral Fellowship - Adam L. Kraus - Star Formation and the Architecture of Outer Planetary Systems

Liu, Michael C Institute for Astronomy--Director

I will pursue two revolutionary new programs that address a proper motion survey of the internal kinematics of star-forming regions and an imaging survey that exploits new interferometric techniques.

WIYN Consortium, Inc \$8,468

WIYN/ODI Orthogonal Transfer CCD Controller

Onaka, Peter Institute for Astronomy

To fabricate the WIYN (Wisconsin, Indiana, Yale & NOAO)/ODI (One Degree Imager) Orthogonal Transfer Controller.

Western Interstate Commission for Higher Education \$50,000

Predictive Analytic Reporting (PAR) Framework

Okimoto, Hae K Information Technology Services

Collaboration in sharing practices and anonymised online student data in support of building a predictive analytic reporting framework for institutions involved in online education. IRB approval has been approved for this collaboration.

### Mainland- Health Organizations

Mayo Clinic Rochester \$54,500

NCCTG Junior-Faculty Academic Community Partnership Grant for Shane Morita, MD

Loui, William UH Cancer Center

This grant will provide protected participation time for Dr. Shane Morita for Year 1 (and Yrs 2 & #3 if satisfactory progress reports) to conduct community-based research on ethnic differences of melanoma at Queen's Medical Center under the mentorship of Mayo Clinic oncologist Svetomir Markovic, MD, PhD.

### Mainland- Non-Profit Organizations

Institute of International Education, Inc. \$839,992

University of Hawaii Korean Language Flagship Center - Domestic

Sohn, Ho-Min Department of East Asian Languages and Literatures

Continue the project with the third cohort of MA students, both self-funded and supported by the National Security Education Program fellowship.

# Gifts, Grants, and Contracts for September 2011

## Non-Research

### Mainland- Non-Profit Organizations

Institute of International Education, Inc.	\$248,728
<u>University of Hawaii Korean Language Flagship Center: Overseas at Korea University</u>	
Sohn, Ho-Min	Department of East Asian Languages and Literatures
Continue the project with the second cohort of MA students at Korea University in Seoul, Korea. Provide intensive training in advanced and specific-purpose Korean to students with professional internships and specialized field study.	
National Academies	\$2,000
<u>Ford Foundation Fellowship</u>	
Cooper, Patricia A	Graduate and Professional Education
Cost of education awards to support award recipients.	

### National Aeronautics and Space Administration

National Aeronautics & Space Administration	\$29,458
<u>Workshop on Origin of the First Solids in the Solar System</u>	
Krot, Alexander N	Hawaii Institute of Geophysics and Planetology
We propose to organize a 20day interdisciplinary (cosmochemistry - astronomy - astrophysics) workshop on Origin of the first solids (refractory inclusions, chondrules, and asteroids) in the solar system. The goals are to enhance our understanding of the astrophysical setting and formation conditions of these solids.	

### National Science Foundation

National Science Foundation	\$2,423,278
<u>IRNC: ProNet - TransLight / Pacific Wave</u>	
Lassner, David K	Information Technology Services
Serve as the lead institution for TransLight / Pacific Wave, which provides the major U.S. national capability to interconnect and exchange traffic with and among international research and education networks throughout the Pacific Rim.	
National Science Foundation	\$124,391
<u>Hawaiian Values Science and Technology, Phase II</u>	
Juvik, Sonia P	Social Sciences-UHH - Division Office
National Science Foundation	\$2,000,000
<u>Akeakamai I Ka La Hiki Ola: Scientific Exploration Beneath The Life-Bringing Sun (NSF ATST Mitigation Plan)</u>	
Sakamoto, Clyde M	Chancellor, University of Hawaii Maui College
In response to NFS's plan to erect the Advanced Technology Solar Telescope (ATST) upon the summit of Haleakalâ, UHMC and its partners and collaborators are committed to uncovering the paths to elevate Native Hawaiians to STEM careers and leadership roles especially through opportunities provided by the ATST.	
National Science Foundation	\$245,145
<u>COSEE Island Earth</u>	
Cooper, Patricia A	School of Ocean and Earth Science and Technology
Establish a Center for Ocean Science Education Excellence in Hawaii as part of a national network of centers, and expand it to the Western Pacific (American Samoa, Guam, Commonwealth of the Northern Mariana Islands).	

# Gifts, Grants, and Contracts for September 2011

## Non-Research

### National Science Foundation

National Science Foundation \$274,424

Collaborative Research, Full-Scale Development, Native Universe - Indigenous Voice in Science Museums

Kimura, Leslie

Chancellor, University of Hawaii at Hilo-UHH

Understand the different perspectives of environmental change and understand why individuals and societies interact with the environment in different ways.

National Science Foundation \$4,000,000

IMUA III: Pacific High Island Evolutionary Biogeography: Impacts of Invasive Species, Anthropogenic Activity and Climate Change on Hawaiian Focal Species

Gaines, James R

Vice President for Research

This capacity building proposal will enhance our science and technology capabilities for understanding and predicting how invasive species, anthropogenic activities and climate change impact the biodiversity, ecosystem function and current or potential human use of Hawaiian focal species and includes education, outreach and workforce components.

National Science Foundation \$83,040

Collaborative Research: Teaching Strategic, Operational and Defensive Cyber Security to the Next Generation: From Sea to Shining Sea

Crosby, Martha E

Department of Information and Computer Sciences

The University of Hawaii (UH) and the University of Washington propose to make available George Washington University's unique educational perspective - combining traditional CSIA education with the view from within the federal government - via its signature Seminar program to GW's partner institutions and establish a framework to make them broadly available to other Scholarship for Services (SFS) institutions and beyond.

### US Colleges and Universities

California Institute of Technology \$4,072

Witnessing Planet Formation in Circumstellar Transition Disks - Sagan Postdoctoral Fellowship - L. Cieza

Williams, Jonathan P.

Institute for Astronomy

We are now on the verge of being able to observe ongoing planet formation in primordial circumstellar disks. One of the main goals is to identify systems with strong evidence of ongoing planet formation in several nearby star-forming regions with Keck, the SMA, ALMA and Herschel.

Chattanooga State Community College \$74,300

Do the Math NGLC Grant

McKee, John

Chancellor, University of Hawaii Maui College

Participate in the Do the Math NGLC program by redesigning of developmental math, participating in program web meetings and conference calls, hosting a site visit, traveling to a national conference, and visiting Chattanooga

Kirkwood Community College \$50,300

CCI-Multi National Student Prog YR 4

Richards, Leon

Chancellor, Kapiolani Community College

Provide quality educational programs, professional development, employment skills and first-hand understanding of American Society to under-served, non-elite international students to enable them to contribute to their home nation's future economic and democratic development.





# Funds Received from UH Foundation for 09/01/2011 - 09/30/2011

## Non-Research

### Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$6,852  
"Laila Art Fellows"  
Chan, Gaye M G College of Arts and Humanities  
Transfer funds to pay Laila Art Fellow their month stipend.

University of Hawaii Foundation \$124,273  
"Microbial Oceanography - Moore Foundation"  
Karl, David M. Department of Oceanography  
To train the next generation of scientists in the discipline of microbial oceanography.

University of Hawaii Foundation \$5,000  
"Kanemura Map Restoration Project"  
Mochida, Paula T Library

University of Hawaii Foundation \$16,000  
"Le'a Publication Series"  
Morelli, Paula T School of Social Work  
To hire editors for the Le'a Publication Series to oversee the publication of a book and journal series.

## Research

### Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$45,300  
"Philosophy for Children Research Associate"  
Jackson, Thomas E Department of Philosophy  
The Philosophy for Children Research Associate will gather data and conduct research on the effectiveness of a proposed "Philosopher in Residence" initiative at two public schools in Hawaii.

**Count: 5 Total: \$197,425**

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

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DA-Dept of Agriculture	23	\$6,662,767	11.54%
DHHS-Dept of Health and Human Services	10	\$4,230,825	7.33%
DOC-Dept of Commerce	20	\$9,295,703	16.10%
DOD-Department of Defense	14	\$17,088,993	29.60%
DOE-Dept of Energy	2	\$513,255	0.89%
DOI-Dept of Interior	17	\$2,566,178	4.45%
ED-Dept of Education	3	\$1,295,172	2.24%
Federal Agencies	7	\$2,941,209	5.09%
Hawaii- Business and Other	1	\$10,000	0.02%
Hawaii- Government Agencies	9	\$2,126,933	3.68%
Hawaii- Non-Profit Organizations	12	\$548,852	0.95%
Mainland- Business and Other	8	\$542,384	0.94%
Mainland- Health Organizations	3	\$189,512	0.33%
Mainland- Non-Profit Organizations	5	\$146,762	0.25%
National Aeronautics and Space Administration	8	\$810,037	1.40%
National Science Foundation	16	\$6,989,612	12.11%
US Colleges and Universities	11	\$1,770,543	3.07%
<b>Total:</b>	<b><u>169</u></b>	<b><u>\$57,728,737</u></b>	<b><u>100%</u></b>

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

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DA-Dept of Agriculture	6	\$524,441	0.76%
DHHS-Dept of Health and Human Services	6	\$3,042,982	4.41%
DOC-Dept of Commerce	3	\$2,714,000	3.93%
DOD-Department of Defense	2	\$549,783	0.80%
DOE-Dept of Energy	1	\$299,693	0.43%
DOI-Dept of Interior	8	\$276,247	0.40%
ED-Dept of Education	33	\$19,103,031	27.68%
Federal Agencies	3	\$24,687,183	35.77%
Hawaii- Business and Other	4	\$110,134	0.16%
Hawaii- Dept of Education	2	\$21,955	0.03%
Hawaii- Government Agencies	13	\$6,091,232	8.83%
Hawaii- Health Organizations	1	\$40,000	0.06%
Hawaii- Non-Profit Organizations	5	\$172,125	0.25%
Mainland- Business and Other	5	\$319,658	0.46%
Mainland- Health Organizations	1	\$54,500	0.08%
Mainland- Non-Profit Organizations	3	\$1,090,720	1.58%
National Aeronautics and Space Administration	1	\$29,458	0.04%
National Science Foundation	7	\$9,150,278	13.26%
US Colleges and Universities	9	\$735,276	1.07%
<b>Total:</b>	<b><u>113</u></b>	<b><u>\$69,012,696</u></b>	<b><u>100%</u></b>

**Extramural Research Awards  
Year to Date: 07/01/11 - 09/30/11  
Distribution by Sponsors**

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DA-Dept of Agriculture	28	\$6,885,794	6.41%
DHHS-Dept of Health and Human Services	39	\$24,299,673	22.63%
DOC-Dept of Commerce	53	\$16,944,428	15.78%
DOD-Department of Defense	20	\$21,154,955	19.70%
DOE-Dept of Energy	2	\$513,255	0.48%
DOI-Dept of Interior	25	\$2,980,174	2.78%
ED-Dept of Education	5	\$2,054,754	1.91%
Federal Agencies	7	\$2,941,209	2.74%
Foreign	5	\$701,583	0.65%
Hawaii- Business and Other	6	\$393,267	0.37%
Hawaii- Government Agencies	28	\$3,527,003	3.28%
Hawaii- Health Organizations	1	\$40,156	0.04%
Hawaii- Non-Profit Organizations	30	\$1,792,460	1.67%
Mainland- Business and Other	26	\$1,463,600	1.36%
Mainland- Health Organizations	5	\$287,484	0.27%
Mainland- Non-Profit Organizations	10	\$616,636	0.57%
National Aeronautics and Space Administration	31	\$5,387,893	5.02%
National Science Foundation	46	\$13,094,588	12.19%
US Colleges and Universities	22	\$2,298,440	2.14%
<b>Total:</b>	<b><u>389</u></b>	<b><u>\$107,377,352</u></b>	<b><u>100%</u></b>

Note: YTD amounts include adjustments.

**Extramural Non-Research Awards  
Year to Date: 07/01/11 - 09/30/11  
Distribution by Sponsors**

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DA-Dept of Agriculture	9	\$765,611	0.80%
DHHS-Dept of Health and Human Services	22	\$7,562,970	7.89%
DOC-Dept of Commerce	6	\$2,866,521	2.99%
DOD-Department of Defense	4	\$1,157,412	1.21%
DOE-Dept of Energy	1	\$299,693	0.31%
DOI-Dept of Interior	9	\$334,694	0.35%
ED-Dept of Education	57	\$26,881,516	28.05%
Federal Agencies	4	\$24,703,637	25.77%
Foreign	8	\$2,182,762	2.28%
Hawaii- Business and Other	8	\$320,285	0.33%
Hawaii- Dept of Education	3	\$31,955	0.03%
Hawaii- Government Agencies	39	\$10,420,821	10.87%
Hawaii- Health Organizations	7	\$615,550	0.64%
Hawaii- Non-Profit Organizations	22	\$1,755,969	1.83%
Mainland- Business and Other	14	\$664,780	0.69%
Mainland- Health Organizations	3	\$56,810	0.06%
Mainland- Non-Profit Organizations	9	\$1,351,864	1.41%
National Aeronautics and Space Administration	3	\$634,458	0.66%
National Science Foundation	18	\$12,199,428	12.73%
US Colleges and Universities	17	\$1,040,748	1.09%
<b>Total:</b>	<b><u>263</u></b>	<b><u>\$95,847,484</u></b>	<b><u>100%</u></b>

Note: YTD amounts include adjustments.