

## Gifts, Grants, and Contracts for August 2010

The following gifts, grants and contracts received by all campuses during the period August 1, 2010 through August 31, 2010 total \$73,427,633. The unofficial year-to-date total is: \$123,955,921.

### Research

#### DA-Dept of Agriculture

Agriculture, Dept - Agricultural Research Svc-FED	\$94,867
<u>Management and Control of Banana Bunchy Top Virus (BBTV) Through Resistant Cultivars</u>	
Hu, Ching Yuan	College of Tropical Agriculture and Human Resources
The overall objective of this cooperative research project is to minimize the impact of banana bunchy top virus.	
Agriculture, Dept - Agricultural Research Svc-FED	\$179,744
<u>Environmental Effects of Tephritid Fruit Fly Control and Management</u>	
Hu, Ching Yuan	College of Tropical Agriculture and Human Resources
The approach to this project is to address the development and evaluation of currently acceptable or novel non-toxic fruit fly control strategies such as classical biological controls, post-harvest treatments, and microbial control agents.	
Agriculture, Dept - FED	\$320,024
<u>Varroa Mite Control in Hawaii</u>	
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 pest threats to Hawaii's honeybees.	
Agriculture, Dept - FED	\$281,527
<u>A Need for Honeybees: Safeguarding Colony Health Through Varroa Management</u>	
Wright, Mark Gerald	Department of Plant and Environmental Protection Sciences
Develop varroa mite management techniques for Hawaii honeybees.	
Agriculture, Dept - FED	\$31,265
<u>Survey of Phytophthora colocasiae, the Cause of Taro Leaf Blight, in Hawaii</u>	
Uchida, Janice Y	Department of Plant and Environmental Protection Sciences
Survey taro fields across the state. Collect samples of blighted leaves. Identify and confirm Phytophthora colocasiae as disease causing agent. Enter data into the National Agricultural Pest Information System.	
Agriculture, Dept - FED	\$96,117
<u>Genetic Modification of Anthurium to Increase Post-Harvest Life and Flower Yield</u>	
Christopher, David A	Department of Molecular Biosciences and Bioengineering
The project will genetically modify Anthurium to increase flower production and decrease the rate of aging of leaves and flowers before and after harvesting.	
Agriculture, Dept - Forest Service-FED	\$102,306
<u>Climate Change Impacts on Hawaiian Biodiversity and Fresh Water Resources: Building Capacity for Research, Education, and Community-based Mitigation</u>	
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	\$89,000
<u>Effects of Mean Annual Temperature on Carbon Storage and Fluxes in Native Forests of Hawaii</u>	
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 August 2010

## Research

### DA-Dept of Agriculture

Agriculture, Dept - Forest Service-FED \$46,000

The Potential for Restoration to Break the Grass/Fire Cycle in Dryland Ecosystems in Hawaii: Using Remotely Sensed Data to Guide and Understand Restoration of Dry Forest Ecosystem Process

Litton, Creighton Department of Natural Resources and Environmental Management

1) Define the current condition & historical changes to tropical dry forest ecosystems in Hawaii, 2) develop technology for regional restoration planning & ecosystem monitoring, 3) quantify restoration potential & develop restoration prescriptions for remnant Hawaiian dry forests & shrublands, & 4) develop effective fuel and fire risk reduction measures.

Agriculture, Dept - Forest Service-FED \$85,000

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

Litton, Creighton Department of Natural Resources and Environmental Management

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

Agriculture, Dept - Forest Service-FED \$20,000

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 \$73,000

Evaluating Non-GMO Resistance to Papaya Ringspot Virus

Manshardt, Richard M Department of Tropical Plant and Soil Sciences

A new non-GMO source of genetic resistance to papaya ringspot virus (PRSV), derived from a wild relative of papaya, will be evaluated for utility in protecting papaya plants in Hawaii against local strains of PRSV. The program will include breeding to move resistant genes from the unimproved source to Hawaii cultivars.

Agriculture, Dept - Natl Institute of Food and Agriculture \$160,902

Using Conservation Tillage and Cover Crop Mixtures to Enhance Natural Enemies of Nematode Pests

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

Using conservation tillage and cover crop mixtures to enhance natural enemies of nematode pests.

Agriculture, Dept - Natl Institute of Food and Agriculture \$122,351

Myostatin Inhibition and Improvement of Skeletal Muscle Growth of Broilers

Kim, Yong-Soo Department of Human Nutrition, Food and Animal Sciences

The project aims to produce recombinant proteins (prodomain, follistatin, and extracellular domain of ActRIIB) that inhibit the biological activity of chicken myostatin, a potent negative regulator of skeletal muscle growth, in order to examine the potentials of these molecules to improve skeletal muscle growth of broilers.

Agriculture, Dept - Natl Institute of Food and Agriculture \$279,200

Hawaii Floriculture Research Grant - 2010

Hu, Ching Yuan College of Tropical Agriculture and Human Resources

Develop and commercialize high yielding disease/insect resistant floral cultivars for Hawaii, address current technical constraints such as quarantine issues that limit the export of Hawaii flora and ornamental crops, develop in-field and post-harvest methodologies to eliminate invasive species.

## Gifts, Grants, and Contracts for August 2010

### Research

#### DA-Dept of Agriculture

Agriculture, Dept - Natl Institute of Food and Agriculture \$40,000

Management of the Emerging Tomato Yellow Leaf Curl and Potyviral Diseases of Tomato in Hawaii

Hu, John Department of Plant and Environmental Protection Sciences

This goal of this project is identify how widespread two viral diseases of tomato are in Hawaii, characterize these viruses, and initiate strategies for their management.

Agriculture, Dept - Natl Institute of Food and Agriculture \$165,970

Understanding Critical Factors Contributing to the Unpredictability of Field Response of Acacia koa to Pre-Transplant Colonization of its Roots by Arbuscular Mycorrhizal Fungi

Habte, Mitiku Department of Tropical Plant and Soil Sciences

Arbuscular mycorrhizal fungi play critical roles on the nutrition and health of Acacia koa. The proposed research seeks to understand the variables contributing to the unpredictability of the field response of the legume to nursery inoculation of its seedlings with the fungi.

Agriculture, Dept - Natl Institute of Food and Agriculture \$130,500

Improving MSL Removal of Bacterial Pathogens from Swine Wastewater

Yost, Russell S Department of Tropical Plant and Soil Sciences

Improvements in the MSL system will be explored using laboratory procedures to increase pathogenic bacteria retention and protistan bacterivory.

Agriculture, Dept - Natl Institute of Food and Agriculture \$131,636

Assessment, Chemistry, and Remediation of Arsenic in Hawaii Soils

Hue, Nguyen V Department of Tropical Plant and Soil Sciences

Conduct a survey of arsenic levels in soils of Hawaii; study mechanisms of arsenic retention or release from soils and sediments; reduce soil arsenic levels using plants; inform the public of arsenic risk, mitigation and remediation alternatives.

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

Health & Human Svc, Dept - Natl Inst of Health (NIH) \$144,021

PTSD Research Yr 5, 2011

Frueh, Christopher B. Social Sciences-UHH - Division Office

Health & Human Svc, Dept - Natl Inst of Health (NIH) \$227,948

Exploratory Studies on the Anti-Breast Cancer Function of Bamboo Extract

Panee, Jun Department of Cell and Molecular Biology

This project aims to investigate the cellular and molecular pathways through which bamboo extract inhibits the initiation and/or promotion of chemically induced breast cancer.

Health & Human Svc, Dept - Natl Inst of Health (NIH) \$259,409

Gene Regulatory Network Evolution and the Origin of Biological Novelities

Martindale, Mark Q. Pacific Biosciences Research Center

The project will unravel the gene regulating network that gave rise to mesodermal tissues in animal evolution.

## Gifts, Grants, and Contracts for August 2010

### Research

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

Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$247,500
<u>The Sphingolipid Pathway in Colon Cancer Chemoprevention</u>	
Kawamori, Toshihiko	Cancer Research Center
In this project, we examine whether the sphingolipid pathway mediates develop of colon cancer and we attempt to translate the bench results to be-side clinical chemopreventive measures.	
Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$1,334,059
<u>Surveillance, Epidemiology and End Results (SEER) Program</u>	
Goodman, Marc T	Cancer Research Center
The Hawaii Tumor Registry will maintain a cancer registration system for identification and follow up of all cancers diagnosed in Hawaii as part of the SEER Program.	
Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$100,000
<u>Hawaii Minority-Based Community Clinical Oncology Program</u>	
Cho, Jonathan	Cancer Research Center
This award will provide funding to allow minority and underserved populations in Hawaii receive state-of-the-art cancer treatment and to participate in cancer prevention and control studies	
Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$846,303
<u>University of Guam/Cancer Research Center of Hawaii Partnership</u>	
Vogel, Carl-Wilhelm	Cancer Research Center
Cancer research, training, education and outreach in partnership with the University of Guam.	
Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$2,174,502
<u>Molecular Epidemiology of Nutrition and Cancer in the Multiethnic Cohort Study</u>	
Kolonel, Laurence N	Cancer Research Center
To take advantage of the newly established Multiethnic Cohort Study biorepository to conduct biomarker studies of cancer etiology and survival (using blood, DNA, and urine samples) in the Multiethnic Cohort Study.	
Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$448,125
<u>Physical Activity in Women with Infants</u>	
Albright, Cheryl L.	Cancer Research Center
Recruit mothers with an infant 2-12 months old from Kaiser HMO and the commuinity via mass media. Deliver tailored physical activity (PA) intervention to half subjects and standard care for PA to rest. Assess minutes of moderate/vigorous PA per week via accelerometers and written surveys. Follow women for 18 months, survey 5 times.	
Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$438,845
<u>The Colon Cancer Family Registry: Hawaii</u>	
Le Marchand, Loic	Cancer Research Center
To maintain and expand the Hawaii Colorectal Cancer Family Registry for the next four years.	
Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$1,467,394
<u>Pathogenesis of Mesothelioma (Parent Award, PO1 CA114047) Supplement title: Combinational Immunotherapy for Malignant Mesothelioma</u>	
Carbone, Michele	Cancer Research Center
Use mechanistic information developed during the studies supported by the PO1: Pathogenesis of Malignant Mesothelioma (MM) to develop novel immunotherapeutic approaches and to test whether immunotherapy can	

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### Research

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

synergize with pharmacological chemotherapy to cure/improve survival of mice injected with MM cells.

Health & Human Svc, Dept/NIH - Natl Cancer Institute \$47,536

The Cancer Genome Atlas (TCGA)

Goodman, Marc T Cancer Research Center

This project aims to explore the entire spectrum of genomic changes involved in human cancer by comprehensively analyzing DNA copy number changes, transcription profiles, epigenetic modifications, sequence variation, and sequence in both tumor tissue and case-matched germline DNA.

Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources \$2,237,077

COBRE: Center for Cardiovascular Research

Shohet, Ralph Victor Department of Medicine

This supplement is to expand the educational initiatives of the parent grant through the development of online training modules.

Health & Human Svc, Dept/NIH - Natl Ctr on Minority Hlth & Hlth Disprty \$1,400,000

Partnerships for Cardiometabolic Disparities in Native and Pacific Peoples

Mau, Marjorie K H Department of Native Hawaiian Health

This new revision application includes four Comparative Effectiveness Research (CER) approaches that will enable the Center for Native and Pacific Health Disparities Research to integrate comparative effectiveness research methods with existing health disparities in Native and Pacific peoples.

Health & Human Svc, Dept/NIH - Natl Heart, Lung, & Blood Inst \$163,039

Rho Kinase in Immune-Mediated Atherosclerosis

Boisvert, William Department of Medicine

The studies in this project are focused on the role of Rho kinase in the immune system and inflammation as well as immune-related vascular function. The major goals of the study are to study the involvement of Rho-kinase in various macrophage function and to examine how this affects immune-mediated atherogenesis.

Health & Human Svc, Dept/NIH - Natl Heart, Lung, & Blood Inst \$890,587

Role of Oxidative Stress and Inflammation in HIV Cardiovascular Risk

Shikuma, Cecilia M Department of Medicine

This project will study the increased CV risk in the HIV population on HAART and statins which may have efficacy in reducing inflammation.

Health & Human Svc, Dept/NIH - Natl Heart, Lung, & Blood Inst \$141,150

Anti-inflammatory Cytokines in Atherosclerosis

Boisvert, William John A. Burns School of Medicine

The aims of this grant are to understand how anti-inflammatory cytokines such as IL4 and IL10 affect the atherogenic process. Both systemic as well as local effects of the cytokines will be assessed using in vitro and in vivo animal models.

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### Research

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

Health & Human Svc, Dept/NIH - Natl Inst of Allergy & Infectious Dis \$352,886

Intraspecies Transmission and Infectivity of Insectivore-Borne Hantaviruses

Yanagihara, Richard Department of Pediatrics

The primary objective of the proposed research is to determine the transmission of a new hantavirus in shrews and the infectivity of this virus to humans.

Health & Human Svc, Dept/NIH - Natl Inst on Drug Abuse \$665,626

The Project Success Model: Evaluation of A Tiered Intervention

Wills, Thomas Cancer Research Center

The study is a two-level intervention, with one level (universal program) aimed at deterring initiation while second level (indicated program) is aimed at preventing escalation of use. This approach has the goal of reducing adolescent substance use problems.

#### DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$66,827

Support for UH Hilo to Carry out Monk Seal and Cetacean Stranding Response Program Needs

Turner, Jason Natural Sciences-UHH

Build the necessary capacity for monk seal response and cetacean stranding response and to assist organizations

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$141,111

Sea Grant College Program Institutional Program

Grau, E Gordon Sea Grant College Program

To promote an innovative and effectively managed program of research, education, and outreach directed to the improved understanding, management, and wise use of marine resources of the state, region, and nation.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$273,001

Sea Grant College Program Institutional Program

Grau, E Gordon Sea Grant College Program

To promote an innovative and effectively managed program of research, education, and outreach directed to the improved understanding, management, and wise use of marine resources of the state, region, and nation.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$30,000

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 Hawaii Ocean Observing System (HiOOS), a regional component of the national Integrated Ocean Observing System (IOSS).

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$75,349

HURL Annual Funding (FY 2010)

Wiltshire, John C Hawaii Undersea Research Laboratory

This proposal requests FY2010 funding for base operations of the Hawaii Undersea Research Laboratory.

## Gifts, Grants, and Contracts for August 2010

### Research

#### DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$1,250,000

Exploring Our Fluid Earth: NOAA Ocean Science Curriculum, Teacher Professional Development and Public Outreach

Duncan, Kanesa Sea Grant College Program

We propose to develop, evaluate, and distribute an online curriculum consisting of six coastal and ocean science curriculum modules and student materials for middle and high school level. Our project will also include an extended television series highlighting scientist case studies in an original statewide television series.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$278,487

Sea Grant College Program Institutional Program

Grau, E Gordon Sea Grant College Program

To promote an innovative and effectively managed program of research, education, and outreach directed to the improved understanding, management, and wise use of marine resources of the state, region, and nation.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$100,002

Sea Grant College Program Institutional Program

Grau, E Gordon Sea Grant College Program

To promote an innovative and effectively managed program of research, education, and outreach directed to the improved understanding, management, and wise use of marine resources of the state, region, and nation.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc \$82,230

Review and Possible Refinement of the EFH and HAPC Designations all Federal Management Unit Species in the Western Pacific Region, Excluding Hawaiian Bottomfish Management Unit Species

Schroeder, Thomas A Joint Institute for Marine and Atmospheric Research

To research new data available for the Pacific Islands managed fisheries & where appropriate, develop recommendations for refining the Essential Fish Habitat (EFH) & Habitat Areas of Particular Concern (HAPC) components for all federally managed species in the Western Pacific Region (WPR)

Commerce, Dept/NOAA - Natl Marine Fisheries Svc \$3,485,880

Sustaining Healthy Coastal Ecosystems (JIMAR Coastal Research Program)

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 \$427,624

Pacific Islands Observer Program Initiative

Schroeder, Thomas A Joint Institute for Marine and Atmospheric Research

To analyze data collected by observers aboard commercial longline fishing vessels. The data collected includes basic biological information from target & non-target species; catch & discard rates; fishing gear descriptions; catch & interactions rates of sea turtles; seabirds and marine mammals.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc \$322,979

Pelagic Fisheries Research Program

Weng, Kevin Joint Institute for Marine and Atmospheric Research

These funds will cover various topics of project research focusing on Pacific pelagic fish species to be conducted at various locations. Therefore, specific indirect cost rates, locations, certifications and attachments are not addressed here but will be addressed at the time each proposal is submitted.

## Gifts, Grants, and Contracts for August 2010

### Research

#### DOC-Dept of Commerce

- Commerce, Dept/NOAA - Natl Marine Fisheries Svc \$1,283,600  
FISHERIES OCEANOGRAPHY: Protected Species Research Program  
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 \$86,600  
Understanding Key Habitats of Commercial Demersal Fishes-The Deep Seven Bottomfish Complex in Hawaii  
Weng, Kevin Joint Institute for Marine and Atmospheric Research  
We propose to study the fine-scale habitat use of bottomfish in two of the most heavily exploited regions of Hawaii- Penguin Banks and Makapu'u - and determine if the fishery closed area established in this area is functioning to protect key habitats at a scale appropriate to enhance spawning stock.
- Commerce, Dept/NOAA - Natl Marine Fisheries Svc \$343,000  
Marine Resource Dynamics Assessment Program (MARDAP): Stock Assessment Research Program  
Schroeder, Thomas A Joint Institute for Marine and Atmospheric Research  
To assess (1) the status of billfish, tuna, coastal pelagic species, bottomfish, coral reef fish and lobster stocks in the Western & Central Pacific Ocean, (2) impacts of fishing on these stocks.
- Commerce, Dept/NOAA - Natl Marine Fisheries Svc \$240,000  
FISHERIES OCEANOGRAPHY: Methods Aimed to Reduce Sea Turtle-Longline Interactions: Tests of Modified Baits and Fishing Gear  
Schroeder, Thomas A Joint Institute for Marine and Atmospheric Research  
To identify a method to reduce or eliminate interactions between long-line fishing gear and turtles, and to conduct bycatch mitigation research with sharks.
- Commerce, Dept/NOAA - Natl Marine Fisheries Svc \$96,064  
Pelagic Fisheries Research Program  
Weng, Kevin Joint Institute for Marine and Atmospheric Research  
These funds will cover various topics of project research focusing on Pacific pelagic fish species to be conducted at various locations. Therefore, specific indirect cost rates, locations, certifications and attachments are not addressed here but will be addressed at the time each proposal is submitted.
- Commerce, Dept/NOAA - Natl Marine Fisheries Svc \$1,586,946  
Pelagic Fisheries Research Program  
Weng, Kevin Joint Institute for Marine and Atmospheric Research  
These funds will cover various topics of project research focusing on Pacific pelagic fish species to be conducted at various locations. Therefore, specific indirect cost rates, locations, certifications and attachments are not addressed here but will be addressed at the time each proposal is submitted.
- Commerce, Dept/NOAA - Natl Marine Fisheries Svc \$103,330  
Protected Resources Environmental Compliance Initiative (PRECI)  
Schroeder, Thomas A Joint Institute for Marine and Atmospheric Research  
To establish & Maintain enhanced management based on scientific research for protected resources. Research conducted will be used to assist resource managers in decision making & directing further investigation in habitat & protected species, enhance interagency cooperation, conduct research, outreach & education.



## Gifts, Grants, and Contracts for August 2010

### Research

#### DOD-Department of Defense

Defense, Dept - Air Force Space & Missile Syst Ctr \$1,600,000

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.

Defense, Dept - U.S. Army Med Rsch Acqstn Actvty (USAMRAA) \$799,887

Simulation Learning PC Screen-Based vs. High Fidelity

Qureshi, Kristine

School of Nursing and Dental Hygiene

A comparison of simulation teaching methods for military and civilian nursing: a pilot & feasibility study.

#### DOE-Dept of Energy

Energy, Dept - FED \$137,000

RECOVERY ACT -- Updating and Improving HEP Infrastructure at the University of Hawaii

Browder, Thomas E

Department of Physics and Astronomy

A one-time Federal Stimulus Fund disbursement to restore and improve infrastructure of the Department of Energy High Energy Physics University Groups. Receipt of requested equipment will foster improvements in the quality of our current and future research program.

Energy, Dept - FED \$144,000

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

Browder, Thomas E

Department of Physics and Astronomy

Primary purpose of this research is the understanding of the properties of the elementary constituents of matter and the nature of the fundamental forces between them.

Energy, Dept - FED \$1,444,000

Research in High Energy Physics: Technical Progress Report and FY2010-2012 Budget Request

Browder, Thomas E

Department of Physics and Astronomy

Primary purpose of this research is the understanding of the properties of the elementary constituents of matter and the nature of the fundamental forces between them.

#### DOI-Dept of Interior

Interior, Dept - National Park Service \$15,000

Research and Education Strategies to Revegetate Disturbed Areas

Duffy, David C

Department of Botany

Support efforts at Hawaii Volcanoes NP to research native plant propagation and revegetation techniques and develop education program to make available successful techniques.

Interior, Dept - U.S. Fish & Wildlife Service \$88,681

Evaluation of Population Status Surveys for the Endangered Mariana Islands Butterflies *Hypolimnas octocula mariannensis* and *Vagrans egistina*

Rubinoff, Daniel Z

Department of Plant and Environmental Protection Sciences

We will be assessing the conservation status of two endangered butterflies in the Mariana Islands.

## Gifts, Grants, and Contracts for August 2010

### Research

#### DOI-Dept of Interior

Interior, Dept - U.S. Fish & Wildlife Service \$587,750  
Plant Extinction Prevention Program

Duffy, David C Department of Botany  
Prevent the extinction of 54 plant species on Kauai at high risk for imminent extinction through propagule collection, tissue culture and propagation.

Interior, Dept - U.S. Fish & Wildlife Service \$400,000  
Project Support for Maui Invasive Species Committee

Duffy, David C Department of Botany  
Test the efficacy of citric acid dispersal methods for eradicating coqui frog populations in Maliko Gulch on Maui.

Interior, Dept - U.S. Geological Survey \$10,000  
Wildlife Health in the Pacific

Ziegler-Chong, Sharon Pacific Aquaculture-UHH  
Continue studies of the impacts and ecology of avian pox, malaria, and mosquito vectors on the avifauna of the Hawaiian Islands

Interior, Dept - U.S. Geological Survey \$250,000  
Cooperative Research Between University of Hawaii at Manoa and Hawaii Volcano Observatory: Real Time Understanding of Eruption Dynamics and Mechanisms

Houghton, Bruce F. Department of Geology and Geophysics  
The Principal tasks to be undertaken will be research focused on geological, geophysical, and geochemical analysis and interpretation of data on Kilauea, Mauna Loa, and other Hawaiian volcanoes as well as studies in the field of volcano hazards, monitoring, and eruption impacts in Hawaii.

Interior, Dept - U.S. Geological Survey \$80,000  
Hydraulic Properties of the Northern Guam Lens Aquifer System, Territory of Guam, USA

El-Kadi, Aly I Water Resources Research Center  
This study will estimate aquifer properties of the northern Guam aquifer. Data from constant-rate aquifer tests and stepdrawdown tests area available to estimate aquifer properties. Tidally-influenced water levels and salinity time-series at discrete depths also are available to estimate aquifer properties.

Interior, Dept - U.S. Geological Survey \$13,284  
Population Trends, Distribution, and Insect Prey Base of the Hawaiian Hoary Bat

Ziegler-Chong, Sharon Pacific Aquaculture-UHH  
Fully gather information needed for the re-evaluation of the conservation status of the Hawaiian hoary bat

Interior, Dept - U.S. Geological Survey \$46,573  
Population Dynamic and Pollination Ecology of the Threatened Haleakala Silversword

Krushelnicky, Paul D Department of Plant and Environmental Protection Sciences  
The project will produce an accurate baseline map and census of silversword populations in Haleakala National park, develop a monitoring protocol to track population trends, and investigate the effects of isolation and invasive ants on the pollination ecology of the silversword.

# Gifts, Grants, and Contracts for August 2010

## Research

### DOI-Dept of Interior

Interior, Dept - U.S. Geological Survey \$50,000

Precipitation Climatology Projections for Mid and Late 21st Centuries for the Main Hawaiian Islands

Hamilton, Kevin P Department of Meteorology

This proposal is for a simple assessment and downscaling of the IPCC global model results on precipitation for the main Hawaiian Islands. The goal is to produce maps showing the range of likely precipitation climatology changes over in Hawaii at Mid-century and end of 21st century.

Interior, Dept - U.S. Geological Survey \$55,584

Hawaiian Forest Bird Research: Publishing Bird Trends

Ziegler-Chong, Sharon Pacific Aquaculture-UHH

Complete data analysis and production of reports on the status and distribution of Hawn forest birds, including population estimates, distribution maps, and trends analysis

Interior, Dept - U.S. Geological Survey \$40,000

PBIN: PIERC Data Management & Invasive Species

Ziegler-Chong, Sharon Pacific Aquaculture-UHH

Pacific Island Ecosystems Research Center (PIERC) data initiatives

Interior, Dept - U.S. Geological Survey \$114,000

Northwestern Hawaiian Islands Climate Change: Predicting Risks of Island Extinctions Due to Sea Level Rise

Ziegler-Chong, Sharon Pacific Aquaculture-UHH

Use sea level rise models for the Northwestern Hawaiian Islands to evaluate the impacts to US Pacific Island wildlife and develop multidimensional decision tools

### Federal Agencies

Homeland Security, Dept - FED \$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.

### Foreign

Consulate General of Mexico (San Francisco) \$14,915

Mexicans in Hawaii: Recent Flows and the Community's Problems and Prospects

Das Gupta, Monisha Ethnic Studies Department

This pilot project initiates a study of Mexican residents on the islands of Oahu, Maui and Hawaii (Big Island) in order to generate a qualitative report that presents a preliminary profile of the community, and its current challenges and prospects in the state of Hawaii.

## Gifts, Grants, and Contracts for August 2010

### Research

#### Foreign

Hellenic Society for the Study & Protection of the Monk Seal \$23,468

Genetic Status of the Critically Endangered Mediterranean Monk Seal

Schultz, Jennifer K

Hawaii Institute of Marine Biology

Assess the genetic diversity and population structure of the Mediterranean monk seal.

Korean Institute of Geoscience and Mineral Resources (KIGAM) \$86,960

Validation of Water Budget Analyses and Modeling for the Sustainable Groundwater Availability in Jeju Island

El-Kadi, Aly I

Water Resources Research Center

Using data supplied by KIGAM, the project will (a) validate the water budget analyses, and (b) construct hydrological models of groundwater flow and groundwater availability on Jeju Island, Korea.

#### Hawaii- Business and Other

Axis Engineering Technologies Inc \$266,809

Autonomous Gateway Wave Gilder Supporting Acoustic Tracking and Communication for a Portable Underwater Tracking Range

Bingham, Brian S

Department of Mechanical Engineering

The goal of the proposed research is to adapt a new class of energy harvesting autonomous vehicle, the Wave Glider, to support the portable underwater tracking range concept

#### Hawaii- Government Agencies

Defense, Dept - Civil Defense-HI \$181,000

Tsunami Inundation Maps for Hawaii

Cheung, Kwok Fai

Department of Ocean and Resources Engineering

Develop tsunami inundation maps for Hawaii.

Health, Dept - HI \$232,498

National Coastal Condition Assessment Program: Continuing Assessment of Coastal Waters of Hawaii 2010

Dollar, Steven J

School of Ocean and Earth Science and Technology

Conduct surveys of 55 randomly selected coastal and estuarine marine habitats throughout the main Hawaiian Islands to continue to add to the standardized database that is being assembled by the USEPA for all coastal states of the US.

Health, Dept - HI \$54,793

Evaluation of Hawaii Gatekeeper Training Initiative

Inazu, Judith K

Social Science Research Institute

Develop and implement the evaluation for the Hawaii Gatekeeper Training Initiative, a Statewide suicide prevention initiative and each funded prevention project, under the direction of the Hawaii State Department of Health.

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI \$184,000

Prevention, Detection Management of Invasive Forest Ants in the Pacific Region

Duffy, David C

Department of Botany

Implement a regional ant prevention plan for Hawaii and selected U.S. affiliated Pacific Islands.

## Gifts, Grants, and Contracts for August 2010

### Research

#### Hawaii- Government Agencies

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI \$14,000  
Detection and Control of Coqui Frogs on O'ahu  
Duffy, David C Department of Botany  
Conduct research and control of coqui frogs on Oahu.

#### Hawaii- Health Organizations

Kuakini Medical Center \$86,738  
Epidemiology of Aging and Dementia Autopsy Research (ARRA - Competitive Revision)  
Uyehara-Lock, Jane H Department of Pathology  
To provide pathology services and analysis of autopsy results as part of the on-going Honolulu Asia Aging Study.  
This award is a subcontract from Kuakini Medical Center to the University of Hawaii.

#### Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$743  
A Textbook for Teaching Sanskrit  
Sharma, Rama N Department of Indo-Pacific Languages and Literatures  
I propose to complete the writing, and editing of my book, A Textbook for Teaching the Sanskrit Language, in consultation with traditional Sanskrit scholars, at Varanasi, India.

University of Hawaii Foundation \$20,000  
High Density Recording Research  
Kavcic, Aleksandar Department of Electrical Engineering  
Development of meta signal dependent detectors for data storage.

University of Hawaii Foundation \$6,438  
W.M. Keck Research Center in Astrochemistry at UHM  
Kaiser, Ralf Ingo Department of Chemistry  
To set up a laboratory in astrochemistry.

University of Hawaii Foundation \$1,267  
Magnetic Levitation System Development  
Berkelman, Peter John Department of Mechanical Engineering  
To continue support for research related to Magnetic Levitation.

University of Hawaii Foundation \$20,500  
Measure Up Castle  
Slovin, Hannah Curriculum Research and Development Group  
Measure Up Castle

## Gifts, Grants, and Contracts for August 2010

### Research

#### Mainland- Business and Other

Adama Materials, Inc.	\$165,811
<u>Nanotechnology Initiatives in Composites and Energy (NICE) - Phase I</u>	
Ghasemi Nejhad, Mehrdad N	Department of Mechanical Engineering
We will development high-performance nanomaterials, nanostructures, nanoresins, nanoforests, and nanocomposites for structural composites and renewable energy applications.	
EA Engineering, Science, and Technology, Inc.	\$160,000
<u>Agreement by UH Coastal Geology Group to Participate in the Study of Regional Sediment Management by U.S. Army Corps Eng.</u>	
Fletcher, Charles H III	Department of Geology and Geophysics
To assess shoreline processes in the Hawaiian Islands.	
Health Research, Inc	\$86,000
<u>Chemical Markers of Heterocyclic Aromatic Amines for Human Biomonitoring</u>	
Le Marchand, Loic	Cancer Research Center
Establish noninvasive chemical markers of heterocyclic aromatic amines (HAAs) to allow for an assessment of long-term HAA exposure through the diet to determine cancer risk.	

#### Mainland- Health Organizations

National League for Nursing	\$14,910
<u>Avatar/Patient Program for Enhanced Learning (APPLE)</u>	
Codier, Estelle E	Department of Nursing
The purpose of this study is to expand on a pilot study that explored the use of computer based avatar/patient simulations in nursing learning activities. The proposed research will evaluate the impact of these technologies on student outcomes and faculty resources.	

#### Mainland- Non-Profit Organizations

Hill (Joseph H) Memorial Foundation, Inc.	\$920
<u>Enhancing Protea Flowering in Hawaii</u>	
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.	
National Childhood Cancer Foundation	\$20,000
<u>Master Subcontract Agreement - Children's Oncology Group and the University of Hawaii National Childhood Foundation</u>	
Wilkinson, Robert W	Cancer Research Center
Sponsor pays set dollar amount per patient for patients enrolled on Children Oncology Group clinical trials as follows: enrollment on ancillary studies, specimens submitted for tissue banking, and patient followup data submitted.	
UNAVCO	\$13,076
<u>Data Communications Support for GPS Observations of Crustal Deformation Associated with the 2010 Chile Earthquake</u>	
Brooks, Benjamin A	Hawaii Institute of Geophysics and Planetology
Installing satellite/cellular communications for new GPS stations.	

## Gifts, Grants, and Contracts for August 2010

### Research

#### National Aeronautics and Space Administration

- National Aeronautics & Space Administration \$43,831  
Formation, Evolution, and Detection of Ocean-Bearing Planets Close to Cool Stars  
Gaidos, Eric J. Department of Geology and Geophysics  
To investigate how rocky planets with the mass of earth or larger may occur close to late-type stars, whether they will have substantial fluid envelopes of water and other volatiles, how those envelopes may effect the interior evolution.
- National Aeronautics & Space Administration \$51,875  
From Planetesimals to Terrestrial Planets: A Study of the Formation of Habitable Planets in Binary Star Systems  
Haghighipour, Nader Institute for Astronomy  
To study the formation of habitable planets in binary and multiple star systems, and the mechanism of the delivery of water to such planets.
- National Aeronautics & Space Administration \$154,060  
Improved Detection and Monitoring of Volcanic Activity Using MODIS  
Wright, Robert Hawaii Institute of Geophysics and Planetology  
Developing a new method for detecting volcanic activity using satellite data by using NASA's MODIS sensor.
- National Aeronautics & Space Administration \$47,608  
Dynamics of Anisotropic Mean and Time-varying Structures of Ocean Circulation  
Maximenko, Nikolai A Department of Oceanography  
Satellite data, in situ observations, and outputs of advanced numerical models will be used jointly to study the dynamics of anisotropic mesoscale stationary and propagating jet-like structures recently discovered in the upper ocean.
- National Aeronautics & Space Administration \$18,060  
Water and Habitable Worlds  
Meech, Karen J Institute for Astronomy  
This project will trace the history of water from its formation in the interstellar medium to incorporation in the solar system, how it reaches the terrestrial planets, and its role in life.
- National Aeronautics & Space Administration \$92,050  
Remote Sensing and Geologic Studies of Planetary Crusts  
Hawke, Bernard Ray Hawaii Institute of Geophysics and Planetology  
This is a proposal to conduct remote sensing and geologic studies of the Moon and Mercury in order to better understand their composition and evolution.
- National Aeronautics & Space Administration \$59,095  
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 operations of the center.
- National Aeronautics & Space Administration \$26,920  
Support Services, Maintenance and Calibration of the TLRs-4 System  
Kuhn, Jeffrey R. 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.

## Gifts, Grants, and Contracts for August 2010

### Research

#### National Aeronautics and Space Administration

National Aeronautics & Space Administration \$150,889  
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 Science Foundation

National Science Foundation \$963,111  
NEESR-CR: Impact Forces from Tsunami-Driven Debris  
Riggs, H Ronald Department of Civil and Environmental Engineering  
Carry out experiments and develop simulation models for tsunami-driven impact forces on structures.

National Science Foundation \$426,800  
Collaborative Research: CAMEO 2009 - A Novel Tool for Validating Trophic Position Estimates in Ecosystem-Based Fisheries Models  
Popp, Brian N Department of Geology and Geophysics  
Collect ecological and geochemical results on marine organisms that are used to test the output of fisheries models.

National Science Foundation \$253,115  
Support for the Generic Mapping Tools  
Wessel, Paul Department of Geology and Geophysics  
This proposal seeks fund to maintain and further develop the Generic Mapping Tools (GMT), an Open Source scientific data analysis and visualization package used by ten thousands of scientists worldwide.

National Science Foundation \$997,185  
Collaborative Research: Mixing in the Equatorial Thermocline (MIXET)  
Richards, Kelvin Department of Oceanography  
Observations and modeling of finescale structure in the western equatorial Pacific.

National Science Foundation \$561,994  
Does Habitat Specialization Drive Population Genetic Structure of Oceanic Zooplankton?  
Goetze, Erica Department of Oceanography  
Global comparative study of the population genetic structure of oceanic zooplankton. Goal: Test the concept that depth habitat is the dominant factor driving patterns of dispersal and gene flow in open ocean species.

National Science Foundation \$12,000  
Doctoral Dissertation Research: Chinese Sentence Processing by First and Second Language Speakers  
Schwartz, Bonnie D Department of Second Language Studies  
This dissertation research examines whether learners of Chinese as a second language are able to make use of different sources of information in real-time processing of sentences in Chinese and what underlying mechanisms cause their processing difficulties.



## Gifts, Grants, and Contracts for August 2010

### Research

#### National Science Foundation

National Science Foundation \$2,529,063

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

Hall, Donald N Institute for Astronomy

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

National Science Foundation \$4,000,000

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

Karl, David M. Department of Oceanography

To establish a Center for Microbial Oceanography Research & Education (C-MORE) as a vehicle for rapid progress in the fields of microbial ecology and genomics, including research and education.

National Science Foundation \$15,393

Aqueous-Alkaline/Carbonate Biocarbon Fuel Cell Development

Antal, Michael J JR Hawaii Natural Energy Institute

Large quantities of lignocellulosic residues accompany the production of bioethanol and biodiesel fuels. These residues can be efficiently and quickly converted into biocarbons. Carbon fuel cells can generate electricity from biocarbons with a theoretical thermodynamic efficiency of 100%. The proposal goal is the development of a moderate-temperature carbon fuel cell.

National Science Foundation \$112,581

Collaborative Research: Crustal Accretion and Mantle Processes Along the Subduction-Influenced Eastern Lau Spreading Center

Dunn, Robert A. Department of Geology and Geophysics

Active and passive source seismic experiment along the Eastern Lau Spreading Center to image crustal and mantle structure.

National Science Foundation \$86,376

Airborne Measurements of the Physio-Chemistry and Evolution of Aerosols in the Tropics during the Pacific Atmospheric Sulfur Experiment (PASE)

Clarke, Antony D Department of Oceanography

Employ a variety of airborne instruments to study changes in the aerosol size which is needed to understand the marine sulfur cycle and how it relates to the marine aerosol on cloud properties.

National Science Foundation \$108,495

Collaborative Research: Volcanic Eruptions on the Galapagos Spreading Center: Effect of Variable Magma Supply on Eruption and Magma Chamber Processes on Mid-Ocean Ridges

Sinton, John M Department of Geology and Geophysics

Geological study of volcanic eruptions along the Galapagos Spreading Center, using submersible, surveying and geochemical analyses of rocks.

National Science Foundation \$103,035

Collaborative Research: The Southeast Mariana Forearc Rifts and the Southernmost Mariana Trough Spreading Center: New Insights into the Tectonics and Magmatism of Intraoceanic Arcs

Martinez, Fernando Hawaii Institute of Geophysics and Planetology

This is a collaborative research proposal to carry out a marine geophysical and rock sampling cruise in the western Pacific Ocean and to analyze the data acquired.

## Gifts, Grants, and Contracts for August 2010

### Research

#### National Science Foundation

National Science Foundation	\$597,427
<u>Dynamics of the Boreal Summer Intraseasonal Oscillation: Multi-Scale Interactions</u>	
Wang, Bin	Department of Meteorology
Diagnostic and modeling studies of multi-scale interactions essential to boreal summer intraseasonal oscillation.	
National Science Foundation	\$384,113
<u>Dissecting Galaxies with Bright Stars and HII Regions</u>	
Kudritzki, Rolf-Peter	Institute for Astronomy
First, the need for a distance measuring tool that is insensitive to both the patchy extinction in star-forming, gas-rich galaxies and to variations of metallicity. Second, the surprisingly high uncertain abundance scale used to infer the chemical composition of star-forming galaxies.	
National Science Foundation	\$148,282
<u>Water in the Asteroid Belt: Main Belt Comet Discovery, Characterization, and Modeling</u>	
Meech, Karen J	Institute for Astronomy
We will analyze data about main belt comets, their characteristics and orbits.	
National Science Foundation	\$427,199
<u>Southern Hemispheric Climate and Carbon Cycle Reponse to Orbital Forcing During the Last ~400,000 Years</u>	
Timmermann, Axel	Department of Oceanography
Conduct a series of transient climate model simulations with an earth system model of intermediate complexity and to analyze to elucidate the underlying mechanisms of orbitally-paced Pleistocene climate change in the Southern Hemisphere.	
National Science Foundation	\$397,054
<u>CIF: Small: Signal Processing Methods for Passive Acoustic Monitoring of Marine Mammals</u>	
Nosal, Eva-Marie	Department of Ocean and Resources Engineering
The proposed work will apply modern signal processing methods to underwater acoustics.	
National Science Foundation	\$122,948
<u>HCC:Small:Human Centered Information Integration for the Smart Grid</u>	
Johnson, Philip M	Department of Information and Computer Sciences
Development of technologies and experiments to determine how to achieve positive, sustained behavioral change from consumers with respect to their energy usage.	
National Science Foundation	\$223,789
<u>CIF: Small: Collaborative Research: Minimum Energy Communications in Wireless Networks</u>	
Host-Madsen, Anders	Department of Electrical Engineering
The goal of the project is to find the minimum energy it requires to transmit one bit of information over a wireless network.	
National Science Foundation	\$44,340
<u>Collaborative Research: Large-Scale, Long-Term, Multi-Directional, Cross-Hole Experiments in the Upper Oceanic Crust Using a Borehole Observatory Network</u>	
Cowen, James P	Department of Oceanography
To participate in tracer transport project-injection of tracers into ocean basaltic crust via seafloor observatories. Proper deploy & recover instrumented sled to seafloor observatories.	

# Gifts, Grants, and Contracts for August 2010

## Research

### National Science Foundation

National Science Foundation \$114,280

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

Boric-Lubecke, Olga Department of Electrical Engineering

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

National Science Foundation \$44,348

Collaborative Research: Modeling and Synthesis Study of a Natural Iron Fertilization Site in the Southern Drake Passage

Measures, Christopher Department of Oceanography

This proposal is about a model and synthesis study of coupled physical and biogeochemical transport processes, coupled Fe recycling, evolution of a plankton community and export flux, and potential changes in these fundamental physical, biogeochemical and ecosystem processes under climate changes scenarios in the Southern Ocean.

National Science Foundation \$107,452

A Newly Discovered Hawaiian Volcano on Kaena Ridge

Sinton, John M Department of Geology and Geophysics

New sample collections using ROV Jason and follow-on geochemical and isotopic analyses of the samples to investigate a newly discovered Hawaiian volcano on the Kaena Ridge.

National Science Foundation \$273,945

Symmetric Stability and Instability of Ocean Currents

Kloosterziel, Rudolf C Department of Oceanography

This work is aimed at discovering the proper stability conditions for realistic Ocean currents and vortices with respect to symmetric perturbations. It uses new theories I discovered recently which have never been used before and will help establish under which circumstances oceanic flows are stable and when not.

### US Colleges and Universities

California Merced, University of \$55,645

Collaborative Research: The Role of Marine Crenarchaeota in Nitrification and Links Among Biogeochemical Processes in the Eastern Tropical North Pacific and Gulf of California

Popp, Brian N Department of Geology and Geophysics

Study the microbial ecology and nitrogen chemistry in the waters of the eastern North Pacific Ocean and in the Gulf of California.

California Merced, University of \$33,902

Collaborative Research: The Role of Marine Crenarchaeota in Nitrification and Links Among Biogeochemical Processes in the Eastern Tropical North Pacific and Gulf of California

Popp, Brian N Department of Geology and Geophysics

Study the microbial ecology and nitrogen chemistry in the waters of the eastern North Pacific Ocean and in the Gulf of California.

Cornell University \$78,663

Stardust-NExT Project

Meech, Karen J Institute for Astronomy

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

## Gifts, Grants, and Contracts for August 2010

### Research

#### US Colleges and Universities

Drew, Charles R., University	\$245,926
<u>Drew RCMI Translational Research Network (RTRN)</u>	
Yanagihara, Richard	Department of Pediatrics
Funding of small grants program. Funding for a Small Grants Facilitator to assist with the Small Grants Program.	
Georgia, University of	\$256,877
<u>Functional Genomics of Maize Centromeres</u>	
Presting, Gernot G E	Department of Molecular Biosciences and Bioengineering
Three additional corn centromeres will be studied in the proposed work. Complete physical maps and sequence will be generated as permitted by current technology.	
Hawaii Pacific University	\$2,000
<u>Ecological Factors and Drug Use of Native Hawaiian Youth</u>	
Helm, Susana	Department of Psychiatry
Examine the ecological risk and protective factors relevant to youth of Hawaiian ancestry in Hawaii.	
Miami, University of	\$70,088
<u>Genetic Mechanisms of Anthracycline Cardiotoxicity in Pediatric Cancer Survivors</u>	
Gerschenson, Mariana	John A. Burns School of Medicine
Functional analysis of mitochondrial DNA copies/cell and oxidative phosphorylation protein and enzyme activity will be measured in non-identifiable lymphocytes and buccal cells.	
South Dakota State University	\$25,000
<u>Regional Biomass Feedstock Partnership - Herbaceous Bioenergy Crop Field Trials</u>	
Uehara, Goro	Department of Tropical Plant and Soil Sciences
Five varieties of energycane will be studied to assess their growth and development for possible use as bioenergy feedstock crop under a Sun Grant program involving 7 states. Mississippi State University serves as the lead institution for the Department of Energy.	
Southern California, University of	\$124,882
<u>A Genome Wide Association Study of Prostate Cancer in African Americans</u>	
Le Marchand, Loic	Cancer Research 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.	
Southern California, University of	\$42,000
<u>Expert Judgment Elicitation Methods</u>	
Im, Eric	College of Business and Econ-UHH
Vermont, University of	\$243,160
<u>Sex Chromosomes in Fetal Programming of Susceptibility to EAE</u>	
Ward, Monika Anna	Dept Anatomy, Biochemistry, Physiology and Reproductive Biol
The objective of this collaborative project is to define how the organizational masculinization of experimental allergic encephalomyelitis (EAE) in female mice by action of the Y chromosome-encoded susceptibility locus (Yeae) is achieved during gestation, and to identify the mechanism of action of Yeae that is mechanistically most relevant to multiple sclerosis (MS).	

### Research

**Subcount:** 143

**Subtotal:** \$49,315,907

## Gifts, Grants, and Contracts for August 2010

### Non-Research

#### DA-Dept of Agriculture

Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED \$140,000

Sustainable Communities Project Through Successful Community Partnerships

Ikeda, Carol S Department of Family and Consumer Sciences

SCP Through SCP is Hawaii's children, youth, and families "at risk" community based project to strengthen the capacity of children, youth, and families to participate in a culturally diverse, economically challenged and technological advanced society.

Agriculture, Dept - FED \$73,818

University of Hawaii Extension IPM 2010

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 \$56,012

Biotechnology Outreach Program

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

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

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

Health & Human Svc, Dept - Natl Inst of Health (NIH) \$158,687

Parallel MRI for Substance Abuse Research

Stenger, Victor Andrew Department of Medicine

Career development award - to continue as an independent investigator on won NIH projects as well as mentor junior investigators and participate in other clinical research projects.

Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources \$257,102

Pacific Education and Research for Leadership in Science (PEARLS)

Withy, Kelley Marie Department of Complementary and Alternative Medicine

To increase science knowledge and interest in science careers through an inquiry based science curriculum for 7th and 8th grade students in the Pacific region. Additional funding is requested for travel, curricular supplies and staff time to provide teacher training in the rural and isolated areas of the Pacific. The planned activities include expanded foundational science teacher education and train-the-trainer seminars.

Health & Human Svc, Dept/NIH - Natl Inst of Diabetes, Digestive, Kidney Dis \$194,428

Multimedia Intervention to Motivate Ethnic Teens to be Designated Organ Donors

Albright, Cheryl L. Cancer Research Center

Recruit teen groups from church and high school clubs, n = 38 groups; 500 teens, Deliver Interactive Multimedia Intervention to clubs in this condition and deliver comparison intervention - on prevention of Underage Drinking of Alcohol - for this condition. Assess designated organ donor status on driver's license/ID and family discussions.

## Gifts, Grants, and Contracts for August 2010

### Non-Research

#### DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$16,430
<u>ASG CRAG - WESTPAC - UHH Marine Science Undergraduate Fellowship Program</u>	
Crosby, Michael P	Chancellor, University of Hawaii at Hilo-UHH
Provide support for the continuation of CRAG-WESTPAC-UHH Marine Science Undergraduate Fellowship Program for the full term of successful attainment of a BS/BA in Marine Science by a student from American Samoa	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$99,992
<u>UHH: Support and Enhancement of the Hawaii Cetacean Rehabilitation Facility</u>	
Turner, Jason	Natural Sciences-UHH
Support and enhance operation of the newly developed Hawaii Cetacean Rehabilitation Facility at UHH; support high caliber of rehabilitative care; evaluate, assess, and modify existing rehabilitation protocols to strengthen ability to care for stranded marine mammals.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$59,352
<u>Supporting Pacific Islander Capacity Building Through Sea Grant Extension Activities</u>	
Okimoto, Darren K	Sea Grant College Program
To build capacity of Pacific Islanders in fisheries science, marine biology and other related careers through participation in two University of Hawaii Sea Grant College program extension projects.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$233,313
<u>Healthy Seafood Hawaii</u>	
Takahashi, Ronald K	Chancellor, Kapiolani Community College
Curriculum development, publication of healthy Hawaii seafood cookbook with health information, training workshops and public health education classes for health care professionals, dieticians, and the general public with cooking demonstrations and hands-on cooking classes, disseminate information thru web sites.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$207,311
<u>Addressing Bottlenecks to the Development of Hawaii's Bivalve Industry</u>	
Howerton, Robert D	Sea Grant College Program
Hawaii is a natural locale for a vigorous bivalve culture industry, but the grow-out of edible bivalves is absent from the aquaculture landscape. The overall goal of this project is to address numerous constraints to the development of a commercial bivalve industry for the State of Hawaii.	
Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA)	\$100,000
<u>Aquaculture Extension Services for New Farmers on the Big Island and Maui</u>	
Hopkins, Kevin D	Pacific Aquaculture-UHH
The goal of the project is to provide technical assistance to fish farmers on the Big Island and Maui with emphasis on new farmers. Further, when commercial suppliers cannot meet the demand for seed stock, the project will provide seed of tilapia, mullet and freshwater prawns at market prices.	
Commerce, Dept/NOAA - Natl Marine Fisheries Svc	\$11,257
<u>Pu'uhoonua: Ensuring a Safe Place for Honu (Sea Turtles) in Hawaii Through Visitor Industry Outreach &amp; Education</u>	
Barrett, Jennifer	Sea Grant College Program
Pu'uhoonua will increase sea turtle awareness and encourage proper public viewing by the public through outreach to the visitor industry, including distribution of printed materials, a sea turtle awareness training program for key visitor industry staff, and seasonal educational outreach presentations in Waikiki.	

# Gifts, Grants, and Contracts for August 2010

## Non-Research

### DOC-Dept of Commerce

Commerce, Dept/NOAA - Natl Marine Fisheries Svc \$19,963

Aquaponics Workshop 2010

Ron, Tetsuzan Benny

Water Resources Research Center

Support for travel expenses for three (3) visiting distinguished researchers/speakers in aquaponics for the State of Hawaii during August 2010. The guest speakers will provide hands-on lectures and demonstrations that will assist aquaponics farmers in Hawaii and the Pacific basin improve their knowledge and skills.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc \$150,000

Development of Online Training in Fisheries and Aquaculture Program for Hawaii and the Pacific Basin, Phase 2

Ron, Tetsuzan Benny

Water Resources Research Center

The goal is to establish Online Training in Fisheries and Aquaculture Program (OTFAP) at the University of Hawaii that will give service in education and training to all the Pacific Islanders. This educational program is aimed to promote practical employment in the practice of fisheries and aquaculture.

### DOE-Dept of Energy

Energy, Dept - FED \$750,000

Smart Grid Curriculum Development Project

Quigley, Peter S

Vice President for Community Colleges

Develop curriculum for training technicians in the design, deployment and maintenance of Smart Grid electric power transmission and distribution.

### DOI-Dept of Interior

Interior, Dept - U.S. Fish & Wildlife Service \$120,000

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

Duffy, David C

Department of Botany

Promote inter-agency coordination and promote public awareness on invasive species issues.

Interior, Dept - U.S. Fish & Wildlife Service \$64,455

Volcano Rare Plant Facility - Clemtontias

Kaneshiro, Kenneth Y

Pacific Biosciences Research Center

Provide services for the collection, propagation and reintroduction to prevent extinction of six endangered PEP species.

### ED-Dept of Education

Education, Dept - FED \$378,499

Maui County Upward Bound Program

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.

## Gifts, Grants, and Contracts for August 2010

### Non-Research

#### ED-Dept of Education

Education, Dept - FED	\$251,243
<u>National Resource Center for East Asian Studies at the University of Hawaii</u>	
Huey, Robert N	Center for Japanese Studies
The grant will support curriculum development (language and non-language), outreach activities such as workshops/conferences and library development in East Asian Studies at the University of Hawaii	
Education, Dept - FED	\$328,500
<u>Foreign Language and Area Studies Fellowship in East Asian Studies</u>	
Huey, Robert N	Center for Japanese Studies
The grant will support student scholarships in East Asian Studies at the University of Hawaii.	
Education, Dept - FED	\$500,000
<u>UHM GEAR UP Waipahu</u>	
Agbayani, Amy	Vice Chancellor for Student Affairs
GEAR UP Waipahu provides 675 low-income middle school students access to rigorous academic preparation and financial information to enter and succeed in postsecondary education. The program features an innovative language and culture education program, an online learning initiative, a strong parent involvement component, tutoring, mentoring, and professional development.	
Education, Dept - FED	\$135,000
<u>National Resource Center and Foreign Language and Area Studies Fellowships - FLAS</u>	
Hereniko, Vilsoni	Center for Pacific Islands Studies
The work to be funded includes instruction, conferences, and a community outreach program, all designed to promote knowledge of the Pacific Islands. The development of language materials and the enhancement of library resources comprise two other key areas of the project.	
Education, Dept - FED	\$372,805
<u>Educational Talent Search</u>	
Sanders, Beth H	Chancellor, Hawaii Community College
Provide services addressing academic preparedness/personal development to 900 low-income, first generation secondary school students and high school/college dropouts at 10 West Hawaii schools. Increase postsecondary enrollment by impacting completion rates, percentage of students completing admissions/financial aid applications, and individuals re-entering postsecondary options.	
Education, Dept - FED	\$9,133
<u>Fulbright-Hays Doctoral Dissertation Award</u>	
Tokuno, Kenneth A	Graduate and Professional Education
Conduct research outside the United States in the fields of Anthropology, English, Geography, History, Sociology and Theatre as part of doctoral dissertation work.	
Education, Dept - FED	\$394,000
<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.	



## Gifts, Grants, and Contracts for August 2010

### Non-Research

#### ED-Dept of Education

Education, Dept - FED	\$394,767
<u>Student Support Services Program (UHM)</u>	
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	\$237,656
<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	\$226,938
<u>National Resource Center for Pacific Islands Studies at the University of Hawaii</u>	
Hereniko, Vilsoni	Center for Pacific Islands Studies
The grant will support student scholarships in Pacific Islands Studies at the University of Hawaii	
Education, Dept - FED	\$400,000
<u>Health Policy Center</u>	
Soifer, Aviam	William Richardson School of Law
Continue efforts to establish a permanent Health Law Policy Center at the University of Hawaii and focus on 3 main goals: improving health care access in Hawaii; serve as a forum for research, training and discourse on health law policy in the context of Hawaii; and promote and improve health care access in Hawaii.	
Education, Dept - FED	\$380,833
<u>Student Support Services</u>	
Inouye, Roy Owen	Chancellor, Windward Community College
Support services for low income, first generation and disabled students.	
Education, Dept - FED	\$500,000
<u>Halauloa II</u>	
Yamane, Noreen R	Chancellor, Hawaii Community College
The proposed project will (1) increase preparation, engagement, retention, and persistence of 45 unprepared student ts in Huluena and/or HLS; (2) increase effectiveness of HLS classes to prepare students; and (3) increase student success through expansion of campus-community engagements.	
Education, Dept - FED	\$400,000
<u>Sulong-Aral: A Program to Provide College Preparatory Education for Filipino Students</u>	
Pecsok, Michael H	Chancellor, Leeward Community College
To help students of Filipino ancestry pursue and complete higher education.	

## Gifts, Grants, and Contracts for August 2010

### Non-Research

#### Federal Agencies

Environmental Protection Agency \$100,000

Clean Bees and Fruitful Farms: How Pesticide Reduction Can Help Hawaii's Growers and the Environment

Villalobos, Ethel

Department of Plant and Environmental Protection Sciences

The goals of this project are the selective replacement/reduction of high risk insecticides used for cucurbit production and the elimination of synthetic chemicals used for the control of Varroa mite infestations in honeybee colonies. The proposed program promotes healthy farm environments where pollinators can thrive.

Environmental Protection Agency \$17,000

Ecological Impacts of Open-Ocean Aquaculture: Evaluating Bottom-up Disturbances on Food Webs Using Stable Isotope Analyses-Fellow D. Lin

Bailey-Brock, Julie H

Department of Zoology

The purpose of this study is to examine the specific ecological impacts of open-ocean fish farming aquaculture on marine food webs. We intend to use stable isotope analysis and manipulative field experiments to determine how food web structure and dynamics are affected by changes in nutrient/re

#### Foreign

American Samoa, Govt of \$16,430

ASG CRAG - WESTPAC - UHH Marine Science Undergraduate Fellowship Program

Crosby, Michael P

Chancellor, University of Hawaii at Hilo-UHH

Provide support for the continuation of CRAG-WESTPAC-UHH Marine Science Undergraduate Fellowship Program for the full term of successful attainment of a BS/BA in Marine Science by a student from American Samoa

American Samoa, Govt of \$56,000

Head Start Quality Improvement Funds for Professional Development Project

Johnson, Richard T

Institute for Teacher Education

Provide professional development course work in dual language learning, literacy, integrated cultural studies and video production, and cultural variation.

Commonwealth of Northern Mariana Islands \$108,072

Project BRABU Evaluation and Data Management

Roberts, Kelly D

Center on Disability Studies

The evaluation team will develop and implement data collection, management, analysis, interpretation and reporting plans, and lead on this objective and ensure stakeholder input is fully integrated.

High Energy Accelerator Research Orgn (KEK) \$23,248

JFY2010 US/Japan Program for Cooperation in High Energy Physics for the PID Detector

Browder, Thomas E

Department of Physics and Astronomy

Design, fabrication and evaluation of electro-mechanical structures for assessing the performance of the imaging Time of Propagation (iTOP) prototype for upgrade of the Belle II barrel particle identification detector.

Japan Foundation \$76,809

Okinawan Studies in the United States

Huey, Robert N

Center for Japanese Studies

These projects include symposium, publications, curriculum development, faculty research, and library development.

## Gifts, Grants, and Contracts for August 2010

### Non-Research

#### Foreign

SBI ALA promo Co., Ltd \$71,746

Use of the Dietary Supplement 5-ALA and its Relationship with Signs and Symptoms of Type II Diabetes

Rodriguez, Beatriz L

Department of Complementary and Alternative Medicine

Double blinded randomized parallel-group comparison study to investigate if a relationship exists between the administration of dietary supplements containing 5-ALA and SFC and the signs and symptoms of Type II diabetes.

#### Hawaii- Business and Other

Navatek, Ltd \$28,489

Ocean Engineering Internship

Cheung, Kwok Fai

Department of Ocean and Resources Engineering

To continue the Ocean Engineering internship program with Navatek Ltd.

Research Corporation, University of Hawaii \$249,997

REAL: Hawaii Youth Movement Against the Tobacco Industry

Steffen, Alana D

Cancer Research Center

To raise awareness and educate Hawaii's youth about the manipulative targeting strategies used by the tobacco industry and to offer opportunities to take action.

Sea Engineering, Inc \$28,489

Ocean Engineering Internship

Cheung, Kwok Fai

Department of Ocean and Resources Engineering

Establish an Ocean Engineering Internship with Sea Engineering Inc., Waimanalo, Hawaii

#### Hawaii- Dept of Education

Education, Dept - HI \$343,516

Proposal to Continue Funding of the UH National Foreign Language Resource Center (NFLRC), 2010-2014, under the Language Resource Centers Program

Schmidt, Richard W

Department of Second Language Studies

The National Foreign Language Resource Center will continue to serve as a resource to improve the nation's capacity to teach and learn foreign languages effectively through projects, publications, and professional development activities, with a focus on less commonly taught languages, particularly of Asia and the Pacific.

#### Hawaii- Government Agencies

Business, Econ Dev & Tourism, Dept (DBEDT) - HI \$33,750

Building Community Capacity Through Education & Outreach to Address Land-Based Pollution in Maunaloa Bay

Wanger, Jolie

School of Ocean and Earth Science and Technology

To utilize the Non-point source Education for Municipal Officials (NEMO) network's resources to implement workshops and other educational resources for a community program with malama Maunaloa.

## Gifts, Grants, and Contracts for August 2010

### Non-Research

#### Hawaii- Government Agencies

City & County of Honolulu	\$119,074
<u>Elderly Affairs Division Legal Services for Elders</u>	
Pietsch, James H	William Richardson School of Law
Provide legal services to economically and socially needy elders 60 years old and older.	
City & County of Honolulu	\$64,700
<u>Elderly Affairs Division Caregiver Support</u>	
Pietsch, James H	William Richardson School of Law
Provide legal services to family caregivers and their care recipients.	
City & County of Honolulu	\$455,712
<u>Hanauma Bay Education Program 2008-12</u>	
Okimoto, Darren K	Sea Grant College Program
To provide technical and professional services to develop and manage and educate and interpretative program for the Hanauma Bay Nature Preserve.	
County of Hawaii	\$120,000
<u>Hot Shower Treatment for Disinfesting Potted-Plants of Coqui Frogs and Other Invasive Pests</u>	
Hara, Arnold H	Department of Plant and Environmental Protection Sciences
Presently, there is only one commercial hot shower chamber available to 7 plant nurseries for treating 500 to 6000 plants per week prior to shipping inter-island and to California and Guam. This major bottleneck for exporting coqui-free plants from the Big Island will be alleviated with construction of a 2nd, improved chamber.	
Hawaiian Affairs, Office of-HI	\$50,000
<u>Native Hawaiian MSW Stipend Program</u>	
Matsuoka, Jon K	School of Social Work
Conduct an internship program and provide practicum stipends to Native Hawaiian MSW students.	
Health, Dept - Child & Adolescent Mntl Hlth Div-HI	\$123,884
<u>Subproject for Institution # 20100767</u>	
Nakamura, Brad J	Department of Psychology
Health, Dept - Child & Adolescent Mntl Hlth Div-HI	\$82,580
<u>Clinical Therapy &amp; Assessment, Department of Health</u>	
Nakamura, Brad J	Department of Psychology
To provide psychological treatment and assessment of children struggling with emotional and/or behavioral difficulties. This project trains graduate student clinicians and offers children and families needed psychological services.	
Health, Dept - HI	\$159,880
<u>EMS Planning and Development of Distant Learning on Maui, Kauai and Hawaii</u>	
Brumblay, Robert	Chancellor, Kapiolani Community College
Equipment, supplies and a trainer to support EMS education on Kauai, Maui and Hawaii	

## Gifts, Grants, and Contracts for August 2010

### Non-Research

#### Hawaii- Government Agencies

Health, Dept - HI	\$173,129
<u>Nutrition Education Curriculum Project - SNAP-ED</u>	
Serna, Alethea Kuulei	Institute for Teacher Education
Design and develop a K-8 standards-based classroom nutrition education integrated curriculum for economically disadvantaged populations. Design and develop nutrition education units and activities for after school programs that serve economically disadvantage populations. Provide training and evaluation plan.	
Health, Dept - HI	\$125,000
<u>Sexual Violence Prevention Project</u>	
Quemuel, Christine A	Vice Chancellor for Student Affairs
The UHM Women's Center will pilot the development of a model for permanent campuses infrastructure to address sexual violence prevention and victim services at Hawaii Community College and Honolulu Community College, followed by implementation at all other UH campuses in following years.	
Health, Dept - HI	\$196,500
<u>REACT: Enforcement of Underage Alcohol Sales</u>	
Albright, Cheryl L.	Cancer Research Center
Conduct and report results of statewide alcohol sales survey to determine the rate of alcohol sales to underage youth in retail stores and to support enforcement of liquor laws.	
Health, Dept - HI	\$228,637
<u>Tobacco Sales Enforcement for Synar Amendment</u>	
Steffen, Alana D	Cancer Research Center
Provide technical assistance to support county Police Departments in their operations to enforce HRS 709-908. This involves recruiting and training teams of adults and volunteer minors to participate in police operations, scheduling, and coordination of support activities. Inspection data will be collected and reported.	
Health, Dept - HI	\$81,000
<u>Education Research Services for the Implementation of the Synar Amendment</u>	
Steffen, Alana D	Cancer Research Center
A scientific sample of tobacco retail outlets will be visited by undercover minors and volunteer adults. The minors will attempt to purchase tobacco in each of the outlets. Sales statistics will be collected and reported.	
Health, Dept - HI	\$20,338
<u>Mental Health Proof of Concept</u>	
Morelli, Paula T	School of Social Work
Targeted organizational needs assessment, training, and technical assistance, cost effectiveness monitoring and sustainability planning for Child and Adolescent Mental Health division proof of concept.	
Health, Dept - HI	\$66,304
<u>Cooking Up A Rainbow (SNAP-Ed)</u>	
Takahashi, Ronald K	Chancellor, Kapiolani Community College
Train the trainers program, healthy cooking demonstration and hands-on experiential nutrition education activities for YMCA to conduct hands-on nutrition based culinary education programs and participants of Kalihi Palama Health Clinic nutrition education programs.	

## Gifts, Grants, and Contracts for August 2010

### Non-Research

#### Hawaii- Government Agencies

Human Services, Dept - HI \$773,449

DHS Task Order #9: Hawaii Child Welfare Continuous Quality Improvement Project

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.

Human Services, Dept - HI \$450,910

Learning to Grow 2010-2011

Fong, Grace

Department of Family and Consumer Sciences

Project will develop, disseminate, and evaluate educational outreach programs and resource materials for families receiving child care subsidies from the State, with the aim of improving the quality of care provided to children, ages birth to five.

Human Services, Dept - HI \$517,022

Memorandum of Agreement Relating to Quality Care for Home-Based and Center-Based Child Care Providers

Yuen, Sylvia H L

Center on the Family

Develop curriculum, training, assessment, and evaluation for increasing the quality of child care in all settings in the state. Develop a database to monitor activity and generate reports.

Human Services, Dept - HI \$26,400

Vocational Skills Instruction for First-to-Work Participants

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 \$903,530

Training Required to Implement Hawaii's Child Welfare Program Improvement Plan - Task Order #Law 3

Tochiki, Laurie Arial

William Richardson School of Law

Provide training for the department of Human Services, and for students in law, nursing, education and social work that addresses key program improvement strategies to the Child Welfare System.

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI \$102,500

Volcano Rare Plant Facility (10)

Kaneshiro, Kenneth Y

Department of Botany

Propagation and maintenance of endangered Hawaiian plant species at the Volcano Rare Plant Facility

#### Hawaii- Health Organizations

University Clinical, Ed & Research Assoc. (UCERA) \$200,000

Reimbursement Agreement Fiscal Year 2011 - Agreement No. SF11-UCERA-OD-ADMIN

Hedges, Jerris

John A. Burns School of Medicine

Administrative services in support of UCERA's provision of physician services & JABSOM's clinical education programs.

## Gifts, Grants, and Contracts for August 2010

### Non-Research

#### Hawaii- Health Organizations

Waianae Coast Comprehensive Health Ctr \$11,327  
Waianae Health Academy - Ola Loa Ka Na'auao Nurse Aide & Job Skills Development Program  
Umehira, Ronny T Chancellor, Leeward Community College  
Provide vocational career classes, student support services, tutoring, testing, academic counseling and other educational and academic services and activities to students through the Waianae Health Academy.

#### Hawaii- Non-Profit Organizations

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

Kokua Kalihi Valley \$28,400  
Medical Legal Partnership with Kokua Kalihi Valley - Health Law Partnership  
Shek, Dina M William Richardson School of Law  
Funding will be used to support the salary/fringe of a Jr. Specialist who will be working with Kokua Kalihi Valley as well as the Health Law Policy program. Goal is to work toward the creation of a new Health Law Policy Center at UH and assist to improve the health and well-being of children in Hawaii through the center.

Kokua Kalihi Valley \$6,000  
Medical Legal Partnership with Kokua Kalihi Valley (KKV) and HWLF  
Shek, Dina M William Richardson School of Law  
To support law student interns, consultants and office supplies for the partnership with KKV to provide law clinic services, community advocacy and related work to support the KKV advocacy project.

Maui Economic Opportunity, Inc \$22,200  
MEO Small Business and Residential PV Training Program II  
Sakamoto, Clyde M Chancellor, University of Hawaii Maui College  
SLIM shall deliver a SECOND small business and residential Photovoltaic Systems Certification training program to MEO, SLIM (with support from VITEC) will provide a training manual for the program, recruit instructors, and serve as the educational coordinator.

Oceanic Institute - Ctr for Tropical & Subtrpcl Aquaculture (CTSA) \$20,000  
Pacific Regional Aquaculture Information Service for Education (PRAISE) & Publications Year 9  
Anderson, Kristen L Library  
continue the PRAISE program to promote transfer of information within the Pacific aquaculture community including: communicating current aquaculture news and ongoing information services.

Olelo Community Television \$501,363  
University of Hawaii - Supplemental Projects 2010  
Okimoto, Hae K Information Technology Services  
Produce course and programs for public access channel, Oceanic 55.

## Gifts, Grants, and Contracts for August 2010

### Non-Research

#### Hawaii- Non-Profit Organizations

Olelo Community Television	\$20,000
<u>Hawaii Educational Networking Consortium (HENC)</u>	
Lassner, David K	Information Technology Services
To provide oversight of the two educational access cable television channels (channel 55 and 56) provided for accredited education of Oahu.	
Pacific Marine Life Foundation	\$10,000
<u>Malama Maunalua: Restoration Through Education and Outreach</u>	
Grau, E Gordon	Sea Grant College Program
To undertake and assist in a comprehensive restoration of Maunalua Bay and its adjacent watersheds. UH Sea Grant will utilize a public education program aimed at building awareness and stewardship among residents, the larger local community, key decision-makers, and visitors based on successful ReefTeach, ReefWatch, and ReefTalk activities and on our Hanauma Bay Education Program.	
Tri-Isle Resource Conservation & Dev Council	\$191,720
<u>Support for the Maui County Invasive Species Committee Project: FY 10</u>	
Duffy, David C	Department of Botany
Prevent, control and eradicate the most serious invasive species threats in the county of Maui, focusing heavily on Miconia calvescens.	
University of Hawaii Foundation	\$33,548
<u>2010 Pauley Course on Ocean Acidification</u>	
Atkinson, Marlin J	Hawaii Institute of Marine Biology
Teach a course on ocean acidification & publish a book on its effects on coral reefs. Money at UH Foundation. Contact Emeline Kawabata.	
University of Hawaii Foundation	\$17,100
<u>Japanese American Veterans Collection Archivist</u>	
Mochida, Paula T	Library
Please refer to job description attachment (per Wendy Wong).	
University of Hawaii Foundation	\$144,383
<u>Capturing the Momentum: P3 Initiative 2010</u>	
Housman, April	Ka Haka'Ula O Ke'Elitolani-UHH
University of Hawaii Foundation	\$110,000
<u>Microbial Oceanography - Moore Foundation</u>	
Karl, David M.	Department of Oceanography
To train the next generation of scientists in the discipline of microbial oceanography.	
University of Hawaii Foundation	\$200
<u>UH Hilo CAFNRM Post Doc Position</u>	
Steiner, William	College of Agriculture, Forestry-UHH



# Gifts, Grants, and Contracts for August 2010

## Non-Research

### Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$929,611  
Moore Foundation Award: 2008-2012

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

### Mainland- Business and Other

Eli Lilly & Company \$90,684

The Impact of LY2189265 vs. Insulin Glargine in Combination with Insulin Lispro for the Treatment to Target of Type 2 Diabetes Mellitus (AWARD-4)

Arakaki, Richard F Department of Medicine

The purpose of this study is to assess the benefits and risks of 2 doses of LY2189265 (0.75 mg/wk and 1.5 mg/wk) compared to daily basal insulin glargine in patients with type 2 diabetes who are treated in combination with

Smithsonian Astrophysical Observatory \$104,088

The Most Obscured Super-Massive Black Holes - Fellow E. Treister

Sanders, David Bruce Institute for Astronomy

Provide post-doctoral support for Dr. Treister.

### Mainland- Non-Profit Organizations

NSABP Foundation, Inc \$40,300

Addendum to TIND - 118, Industrial Master Purchased Services Agreement, Subpart B-42, National Surgical Adjuvant and Bowel Project (NSABP)

Sumida, Kenneth Cancer Research Center

Project staff performs all study-related requirements and all regulatory requirements for the project in Hawaii, which includes patient screening for study eligibility, patient enrollment, protocol education, and submission of required patient specimens/data to sponsor and regulatory documents as needed.

NSABP Foundation, Inc \$69,100

Amendment #4, TFED 40-118, Federal Purchased Services Agreement, Treatment Protocols National Surgical Adjuvant Breast and Bowel Project (NSABP)

Sumida, Kenneth Cancer Research Center

Project staff performs all study-related requirements and all regulatory requirements for the project in Hawaii, which includes patient screening for study eligibility, patient enrollment, protocol education, and submission of required patient specimens/data to sponsor and regulatory documents as needed.

### National Aeronautics and Space Administration

National Aeronautics & Space Administration \$30,000

Connecting and Constraining Data-Driven Solar Atmosphere Models Through Observations: Studying EUV Emission in Realistic Flare-CME Models

Roussev, Iliia I Institute for Astronomy

This project aims to include the important physics of Extreme Ultraviolet emission into a global 3D model of the solar atmosphere. This improved model will be used to best constrain observable properties of the corona as well as initiation mechanisms and subsequent evolution of solar flares and Coronal Mass Ejections.

## Gifts, Grants, and Contracts for August 2010

### Non-Research

#### National Science Foundation

National Science Foundation \$404,128

MRI: Acquisition of Instrumentation for Transmission Electron Microscopy at the University of Hawaii

Dunlap, Marilyn F Pacific Biosciences Research Center

The goal of this project is to acquire a new transmission electron microscope and ultramicrotome to support research and training in the biological and materials sciences at UHM.

National Science Foundation \$71,288

Eco-DAS: Ecological Dissertations in the Aquatic Sciences

Kemp, Paul Department of Oceanography

The Eco-DAS symposium series designed to facilitate workshops and conferences to encourage and foster interdisciplinary collaborations among early career scientists to benefit both science and researchers in Aquatic Sciences.

National Science Foundation \$381,524

Graduate Research Fellowship Program

Garrod, Peter V Graduate and Professional Education

To provide graduate students the opportunity to further their education by funding their research projects.

National Science Foundation \$88,995

STEP UP - Science Talent Expansion Program in Urban Polynesia

Pagotto, Louise Chancellor, Kapiolani Community College

The College's proposed project integrates research-based best practices derived from literature and site visit sources and specific successful campus innovations (civic engagement and e-portfolios) to provide a comprehensive team-based approach to students pursuing an A.S. degree in Life or Physical Science and/or successful STEM transfer to UHM or UHH.

National Science Foundation \$568,279

SUPER-M: School and University Partnership for Educational Renewal in Mathematics

Chyba, Monique Department of Mathematics

This request is for supplemental funding for an international component for John Marriott, a GK-12 fellow. The activities in this proposal will greatly advance John's Ph.D. research, provide education in the area of control theory, and further his understanding of K-12 issues by study of other educational systems.

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 \$250,001

Oceanographic Technical Services, 2009-2011, R/V Kilo Moana

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

Support for shipboard technical services on UH research vessels.

## Gifts, Grants, and Contracts for August 2010

### Non-Research

#### National Science Foundation

National Science Foundation	\$1,176,475
<u>Connecting the Islands: Cyber Connectivity for Science and Technology in Hawaii</u>	
Gaines, James R	Vice President for Research
This project will provide 10 Gbps (gigabits per second) connectivity for science & technology research and education among UH-Hilo, UH-Manoa, Kapiolani CC and the Maui High Performance Computing Center.	
National Science Foundation	\$27,068
<u>Oceanographic Technical Services, 2009-2011, R/V Kilo Moana</u>	
Shor, Alexander N	School of Ocean and Earth Science and Technology
Support for shipboard technical services on UH research vessels.	
National Science Foundation	\$686,151
<u>Enabling Hawaii to COMPETE: Seizing the Opportunity for Equitable Connectivity</u>	
Lassner, David K	Information Technology Services
This project will acquire and implement two 10Gbps circuits from Hawaii to the West Coast to improve connectivity to U.S. national research and education networks for all members of Hawaii's statewide research and education community and their national and international collaborators.	

#### US Colleges and Universities

Harvard University	\$45,575
<u>Institute for Astronomy Support For Christopher Beaumont</u>	
Williams, Jonathan P.	Institute for Astronomy
Christopher Beaumont will be working with Harvard Professor Alyssa Goodman at the Harvard Center for Astrophysics (CfA) on a collaborative project as part of this PhD thesis research. He will be analyzing data from mauna Kea telescopes and comparing with numerical simulations and other observational data.	
Kansas, University of	\$5,500
<u>Multimedia Online Module for Business Korean</u>	
Park, Mee Jeong	Department of East Asian Languages and Literatures
In order to enhance students' strategies on politeness appropriate in Korean culture, this project will collect video clips from authentic Korean TV programs containing real life situations where judgment based on politeness is required in the interaction.	
Kirkwood Community College	\$102,839
<u>CCI-Multi-National Student Program 2011</u>	
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 nations future economic and democratic development.	
Kirkwood Community College	\$8,569
<u>CCI-Egypt Student Program 2011</u>	
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.	

# Gifts, Grants, and Contracts for August 2010

## Non-Research

### US Colleges and Universities

Lorain County Community College \$17,686

National Center of Excellence in Welding Education and Training: Weld-Ed Educator Training Phase I

Silliman, Mark D Chancellor, Honolulu Community College

Provide training designed for welding Instructors that want to take a survey course on welding technologies. This training covers technologies in SMAW, OFC, GMAW, GTAW, CAC-A and PAC, where applicable in the welding and welding education industries with best practices, teaching methodology and welding demonstration.

Lorain County Community College \$43,952

National Center of Excellence in Welding Education and Training FY11

Silliman, Mark D Chancellor, Honolulu Community College

Provide advice to, and represent, the regional center at scheduled Weld-Ed meetings; conduct regional skill panel efforts for the college's service area; represent Weld-Ed in Hawaii; provide information on industry needs and student data in support of national surveys; and utilize Weld-Ed educational materials and marketing.

Michigan State University \$30,083

PILI Deaf Education Project

Pagotto, Louise Chancellor, Kapiolani Community College

Partner with Michigan State University (MSU) to establish pre-service program to prepare teachers of deaf and hard of hearing students for Hawaii and the Pacific, including local project coordination, recruitment, practicum supervision, liaison with MSU PILI Project Leadership Team.

<b>Subcount:</b>	<b>106</b>	<b>Subtotal:</b>	<b>\$24,111,726</b>
<b>Count:</b>	<b><u>249</u></b>	<b>Total:</b>	<b><u>\$73,427,633</u></b>

## Funds Received from UH Foundation for 08/01/2010 - 08/31/2010

### Non-Research

#### Hawaii- Non-Profit Organizations

University of Hawaii Foundation	\$33,548
"2010 Pauley Course on Ocean Acidification"	
Atkinson, Marlin J	Hawaii Institute of Marine Biology
Teach a course on ocean acidification & publish a book on its effects on coral reefs. Money at UH Foundation. Contact	
University of Hawaii Foundation	\$144,383
"Capturing the Momentum: P3 Initiative 2010"	
Housman, April	Ka Haka'Ula O Ke'Elilikani-UHH
University of Hawaii Foundation	\$110,000
"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	\$929,611
"Moore Foundation Award: 2008-2012"	
Karl, David M.	Department of Oceanography
To support David Karl and his research in marine microbiology.	
University of Hawaii Foundation	\$17,100
"Japanese American Veterans Collection Archivist"	
Mochida, Paula T	Library
Please refer to job description attachment (per Wendy Wong).	
University of Hawaii Foundation	\$200
"UH Hilo CAFNRM Post Doc Position"	
Steiner, William	College of Agriculture, Forestry-UHH

### Research

#### Hawaii- Non-Profit Organizations

University of Hawaii Foundation	\$1,267
"Magnetic Levitation System Development"	
Berkelman, Peter John	Department of Mechanical Engineering
To continue support for research related to Magnetic Levitation.	
University of Hawaii Foundation	\$6,438
"W.M. Keck Research Center in Astrochemistry at UHM"	
Kaiser, Ralf Ingo	Department of Chemistry
To set up a laboratory in astrochemistry.	

# Funds Received from UH Foundation for 08/01/2010 - 08/31/2010

## Research

### Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$20,000  
"High Density Recording Research"  
Kavcic, Aleksandar Department of Electrical Engineering  
Development of meta signal dependent detectors for data storage.

University of Hawaii Foundation \$743  
"A Textbook for Teaching Sanskrit"  
Sharma, Rama N Department of Indo-Pacific Languages and Literatures  
I propose to complete the writing, and editing of my book, A Textbook for Teaching the Sanskrit Language,  
in

University of Hawaii Foundation \$20,500  
"Measure Up Castle"  
Slovin, Hannah Curriculum Research and Development Group  
Measure Up Castle

**Count:** 11

**Total:** \$1,283,790

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

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DA-Dept of Agriculture	19	\$2,449,409	4.97%
DHHS-Dept of Health and Human Services	19	\$13,586,007	27.55%
DOC-Dept of Commerce	19	\$10,273,030	20.83%
DOD-Department of Defense	2	\$2,399,887	4.87%
DOE-Dept of Energy	3	\$1,725,000	3.50%
DOI-Dept of Interior	13	\$1,750,872	3.55%
Federal Agencies	1	\$600,000	1.22%
Foreign	3	\$125,343	0.25%
Hawaii- Business and Other	1	\$266,809	0.54%
Hawaii- Government Agencies	5	\$666,291	1.35%
Hawaii- Health Organizations	1	\$86,738	0.18%
Hawaii- Non-Profit Organizations	5	\$48,948	0.10%
Mainland- Business and Other	3	\$411,811	0.84%
Mainland- Health Organizations	1	\$14,910	0.03%
Mainland- Non-Profit Organizations	3	\$33,996	0.07%
National Aeronautics and Space Administration	9	\$644,388	1.31%
National Science Foundation	25	\$13,054,325	26.47%
US Colleges and Universities	11	\$1,178,143	2.39%
<b>Total:</b>	<b><u>143</u></b>	<b><u>\$49,315,907</u></b>	<b><u>100%</u></b>

**Extramural Non-Research Awards  
for the Month of  
August 2010  
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	3	\$269,830	1.12%
DHHS-Dept of Health and Human Services	3	\$610,217	2.53%
DOC-Dept of Commerce	9	\$897,618	3.72%
DOE-Dept of Energy	1	\$750,000	3.11%
DOI-Dept of Interior	2	\$184,455	0.77%
ED-Dept of Education	15	\$4,909,374	20.36%
Federal Agencies	2	\$117,000	0.49%
Foreign	6	\$352,305	1.46%
Hawaii- Business and Other	3	\$306,975	1.27%
Hawaii- Dept of Education	1	\$343,516	1.42%
Hawaii- Government Agencies	22	\$4,874,299	20.22%
Hawaii- Health Organizations	2	\$211,327	0.88%
Hawaii- Non-Profit Organizations	15	\$2,042,525	8.47%
Mainland- Business and Other	2	\$194,772	0.81%
Mainland- Non-Profit Organizations	2	\$109,400	0.45%
National Aeronautics and Space Administration	1	\$30,000	0.12%
National Science Foundation	10	\$7,653,909	31.74%
US Colleges and Universities	7	\$254,204	1.05%
<b>Total:</b>	<b><u>106</u></b>	<b><u>\$24,111,726</u></b>	<b><u>100%</u></b>



**Extramural Research Awards  
Year to Date: 07/01/10 - 08/31/10  
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	26	\$3,562,352	4.46%
DHHS-Dept of Health and Human Services	38	\$25,626,849	32.09%
DOC-Dept of Commerce	26	\$11,862,560	14.86%
DOD-Department of Defense	5	\$3,192,242	4.00%
DOE-Dept of Energy	6	\$3,196,724	4.00%
DOI-Dept of Interior	22	\$2,341,312	2.93%
Federal Agencies	5	\$2,730,921	3.42%
Foreign	8	\$2,487,247	3.11%
Hawaii- Business and Other	3	\$299,309	0.37%
Hawaii- Government Agencies	21	\$2,661,889	3.33%
Hawaii- Health Organizations	1	\$86,738	0.11%
Hawaii- Non-Profit Organizations	14	\$500,303	0.63%
Mainland- Business and Other	8	\$671,264	0.84%
Mainland- Health Organizations	3	\$170,577	0.21%
Mainland- Non-Profit Organizations	11	\$224,790	0.28%
National Aeronautics and Space Administration	12	\$770,818	0.97%
National Science Foundation	42	\$16,841,740	21.09%
US Colleges and Universities	25	\$2,623,742	3.29%
<b>Total:</b>	<b><u>276</u></b>	<b><u>\$79,851,377</u></b>	<b><u>100%</u></b>

Note: YTD amounts include adjustments.

**Extramural Non-Research Awards  
Year to Date: 07/01/10 - 08/31/10  
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	3	\$269,830	0.61%
DHHS-Dept of Health and Human Services	12	\$2,769,891	6.28%
DOC-Dept of Commerce	14	\$1,039,950	2.36%
DOD-Department of Defense	2	\$28,961	0.07%
DOE-Dept of Energy	1	\$750,000	1.70%
DOI-Dept of Interior	6	\$401,969	0.91%
ED-Dept of Education	32	\$11,994,741	27.20%
Federal Agencies	3	\$132,000	0.30%
Foreign	9	\$458,430	1.04%
Hawaii- Business and Other	19	\$2,154,327	4.88%
Hawaii- Dept of Education	2	\$389,150	0.88%
Hawaii- Government Agencies	36	\$6,989,075	15.85%
Hawaii- Health Organizations	4	\$1,041,766	2.36%
Hawaii- Non-Profit Organizations	26	\$2,452,648	5.56%
Mainland- Business and Other	3	\$201,879	0.46%
Mainland- Non-Profit Organizations	9	\$292,243	0.66%
National Aeronautics and Space Administration	1	\$30,000	0.07%
National Science Foundation	21	\$12,328,664	27.95%
US Colleges and Universities	11	\$379,020	0.86%
<b>Total:</b>	<b><u>214</u></b>	<b><u>\$44,104,544</u></b>	<b><u>100%</u></b>

Note: YTD amounts include adjustments.