

## **Gifts, Grants, and Contracts for November 2009**

The following gifts, grants and contracts received by all campuses during the period November 1, 2009 through November 30, 2009 total \$18,692,494. The unofficial year-to-date total is: \$244,947,723.

### **Research**

#### **DA-Dept of Agriculture**

Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED \$331,254  
Medication Safety Education for Elderly in Rural Areas: Seminars for Seniors, Caregivers, and Healthcare Providers to Reduce Adverse Drug E  
Pellegrin, Karen College of Pharmacy-UHH  
Develop, deliver, and evaluate the impact of medication safety education pertaining to the elderly.

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

Health & Human Svc, Dept/NIH - Natl Cancer Institute \$2,120,588  
Molecular Epidemiology of Nutrition and Cancer in the Multiethnic Cohort Study  
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 \$287,319  
Multiethnic Cohort Study of Diet and Cancer  
Kolonel, Laurence N Cancer Research Center  
Allow re-calibration of CRCH Food Frequency Questionnaires (FFQs) using more accurate 24-hour recall methodology; provide evaluation of the relative accuracy of original and revised FFQs; contribute to development of more accurate measures of long-term intakes that can be used to test cancer etiology hypotheses.

#### **DOC-Dept of Commerce**

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$31,307  
Genetic and Morphological Characterization of a Coral Species of Concern: Montipora dilatata in Kaneohe Bay, Hawaii  
Toonen, Robert J Hawaii Institute of Marine Biology  
Determine gene flow and morphological variation in one of the rarest know corals: Is Montipora dilatata genetically isolated?

Western Pacific Regional Fishery Mgmt Council \$86,796  
Ecological Impacts of Carijoa Riisei on Black Coral Habitat in the 'Au'au Channel  
Wiltshire, John C Hawaii Undersea Research Laboratory  
To provide submersible, ROV, and ship operations to research black coral (Carijoa riisei) habitat in the 'Au'au Channel.

Western Pacific Regional Fishery Mgmt Council \$29,063  
Ecological Impacts of Carijoa Riisei on Black Coral Habitat and Eradication Efforts in Waters off Kaua'i  
Wiltshire, John C Hawaii Undersea Research Laboratory  
To provide submersible, ROV, and ship operations to research black coral (Carijoa riisei) habitat in waters off Kaua'i.

## Gifts, Grants, and Contracts for November 2009

### DOD-Department of Defense

Defense, Dept - Office of Naval Research

Remote Monitoring of Dolphins and Whales in the High Naval Activity Areas in Hawaiian Waters

\$195,929

Au, Whitlow W L                      Hawaii Institute of Marine Biology

Use remote ecological acoustic recorders (EARs) to determine the presence of dolphins and whale in high naval activity area of the main Hawaiian Islands.

Defense, Dept - Office of Naval Research

\$50,000

Miniaturized Retrodirective Arrays for a Nanosatellite Platform

Shiroma, Wayne Akira                      Hawaii Space Flight Laboratory

Design and prototype of a miniaturized self-steering antenna array for reconnaissance, remote-sensing, and communications-on-the-move applications.

### DOE-Dept of Energy

Energy, Dept - FED

\$99,842

Improve the Representation of Convection-PBL Interactions in Two Global General Circulation Models (CAM & ECHAM)

Fu, Xiou Hua                                      Department of Meteorology

To provide improved regional dataset and reduce the systematic errors of CAM and ECHAM in simulating and predicting present-day weather and climate variability.

### DOI-Dept of Interior

Interior, Dept - National Park Service

\$191,800

Development of Efficient Vegetation Management Techniques within Kaloko-Honokohau National Historical Park for Cultural Resource Utilization

Leary, James                                      College of Tropical Agriculture and Human Resources

This 2 year project will develop refined techniques in exotic weed removal and restoration of native plant communities of cultural significance and utility within Kaloko-Honokohau National Historical Park. Research and demonstration experiments will become established within the archeological sites D13-10 (50-10-27-2165 size: 1 ha and 50-10-27-2218 size: 4 ha).

Interior, Dept - National Park Service

\$100,000

Develop Management Plan for Molokai North Shore Cliffs National Natural Landmark

Duffy, David C                                      Department of Botany

Assess coastal sites along Molokai's north shore cliffs for ecological management potential and develop a long-term conservation management plan.

Interior, Dept - National Park Service

\$74,025

Cooperative Development of the Fisheries Harvest Vital Sign Monitoring Protocol

Beets, James                                      Natural Sciences-UHH

Summarize a protocol that will be developed to monitor the amount of marine resources extracted annually from Pacific Island National Park waters

## Gifts, Grants, and Contracts for November 2009

### Research

#### DOI-Dept of Interior

Interior, Dept - U.S. Geological Survey \$20,000

Task Agreement Under Hawaii-Pacific Islands Cooperative Ecosystem Studies Unit Cooperative Agreement

Birkeland, Charles Department of Zoology

To develop a multi-year, collaborative relationship with the University of Hawaii to develop and implement a program of coral reef research and technical assistance for the national Park of American Samoa (NPSA), including coral reef ecosystem processes and key physical, chemical, and man-made factors.

#### Foreign

Northern Centre for Advanced Technology \$70,000

Lunar Analog Field Tests (NORCAT)

Schowengerdt, Franklin Natural Sciences-UHH

Provide logistic and support services related to Lunar analog test/demonstrations

#### Hawaii- Business and Other

H2 Technologies \$133,687

Acoustic Enhanced Electrolyzer

Allen, John S III Department of Mechanical Engineering

Investigation of use of acoustics for enhance hydrogen production in an electrolyzer and improved reliability in the electrolyzer components.

Malama Kahalawai Inc \$88,800

Rare Species Habitat Protection in the West Maui Mountains Lands of Kahoma Land LLC and Wailuku Water Co.

Morden, Clifford W Department of Botany

Conduct adaptive restoration of native forest areas on West Maui mountain lands.

#### Hawaii- Government Agencies

County of Hawaii - Civil Defense \$64,587

Enhanced Interactive Lava Flow Modeling Program

Thomas, Donald M Natural Sciences-UHH

Atlas of lava flow advance rates from historic lava flows on the Island of Hawaii

Health, Dept - HI \$190,890

Evaluation of the Healthy Hawaii Initiative Nutrition Education Network (FSNE 2)

Heinrich, Katie Office of Public Health Studies

Improve existing data resources and surveillance matrix, and identify, track and evaluate nutrition behaviors for Hawaii's food stamp eligible population. Provide outcome and process evaluation for FSNE programs, including quarterly progress evaluation reports, and provide technical assistance for evaluation.

Land & Natural Res, Dept - Div of Aquatic Resources-HI \$46,182

Southern Molokai Community-Based Coral Reef Restoration

Duffy, David C Department of Botany

Help restore Molokai's reefs and native Hawaiian fishponds through the removal of alien algae. Conduct surveys of algae regrowth and dispersal after removal.

# Gifts, Grants, and Contracts for November 2009

## Research

### Hawaii- Government Agencies

Land & Natural Res, Dept - HI	\$80,000
<u>Statewide Wildlife Conservation Program Coordination and Implementation</u>	
Duffy, David C	Department of Botany
Contribute research coordination and implementation for various projects within a statewide wildlife conservation program.	
Land & Natural Res, Dept - HI	\$170,000
<u>Support for the HISC Program</u>	
Duffy, David C	Department of Botany
Coordinate invasive species management, assess new invasive species risks, ensure good science is applied to management plans, and implement a public outreach programs.	
Land & Natural Res, Dept - HI	\$100,000
<u>The Development of a Biocontrol Option for Alien Algae Control</u>	
Duffy, David C	Department of Botany
Research sea urchins as a biocontrol option against invasive alien algae.	
Land & Natural Res, Dept - HI	\$65,288
<u>Detection and Control of Invasive Species on the Island of Hawaii</u>	
Duffy, David C	Department of Botany
Detect new potentially invasive plants and plant populations, continue on-going efforts to contain known invasive plant species, and expand early detection surveys on the Big Island.	
Transportation, Dept - HI	\$505,000
<u>Coastal Bridge and Port Vulnerability to Tsunami and Storm Surge</u>	
Ertekin, R Cengiz C	Department of Ocean and Resources Engineering
Coastal Bridge and Port Vulnerability to Tsunami and Storm Surge will be investigated by surveys and by numerical modeling.	

### Hawaii- Non-Profit Organizations

HCF-Ingeborg V.F. McKee Fund	\$50,000
<u>Role of Caveolin-1 in Cardiac Remodeling</u>	
Le Saux, Claude	Department of Cell and Molecular Biology
The aim of this proposal is to understand the role of caveolae, omega-shaped structure at the surface of the cells, in cardiac remodeling. We hypothesize that the loss of this structure induced by pro-inflammatory cytokines will lead to an enhanced response to pro-scarring factors released during myocardial injury.	
Hawaii Community Foundation (HCF)	\$49,960
<u>The Role of Antibody in the Pathogenesis of Acute Rheumatic Fever</u>	
Kurahara, David Kiyoto	Department of Pediatrics
This study proposes to characterize the serum antibody response that occurs in individuals afflicted with acute rheumatic fever with the long-term goal of determining tissue-specific proteins that are involved in the pathogenesis leading to rheumatic heart disease.	

## Gifts, Grants, and Contracts for November 2009

### Research

#### Hawaii- Non-Profit Organizations

Hawaii Community Foundation (HCF)	\$50,000
<u>Mechanistic and Structural Studies of the Fungal Derivative Terpestacin as an Anti-Angiogenic Agent</u>	
Lorenzo, Patricia S.	Cancer Research Center
The goal of the proposal is to advance our understanding of the mechanism of action of terpestacin on endothelial cell biology that can provide clues as to its anti-angiogenic activity.	
Hawaii Community Foundation (HCF)	\$100,000
<u>Regulation of the Presynaptic Terminal by Chronic Beta Amyloid</u>	
Nichols, Robert	Department of Cell and Molecular Biology
This research study will characterize targets at synapses in the brains of Alzheimer's disease for the pathological molecular amyloid. The primary focus will be on nicotine receptors, which have been found to be activated by beta amyloid, in a model nerve cell culture system.	
Hawaii Community Foundation (HCF)	\$50,000
<u>In Vivo Efficacy of Novel Proteasome Inhibitors in Neuroblastoma</u>	
Bachmann, Andre S.	Cancer Research Center
Proteasome inhibitors are promising new anti-cancer drugs. Evaluate the effect of a new proteasome inhibitor drug class called sybactins in neuroblastoma cancer cell cultures and animal models that develop tumors.	
Hawaiian Silversword Foundation	\$320,250
<u>Conservation Work at Keauhou/Kilauea and North Kona</u>	
Morden, Clifford W	Department of Botany
Continue forest restoration research and management at Keauhou Ranch, Kilauea Forest, and north Kona on the island of Hawaii.	
Tri-Isle Resource Conservation & Dev Council	\$87,868
<u>Natural Resources Management in Kapunakea Preserve, West Maui</u>	
Morden, Clifford W	Department of Botany
Conduct research and monitoring of rare native plants and conduct management and control of invasive species in the Kapunakea Preserve in West Maui.	
University of Hawaii Foundation	\$20,459
<u>Establishment of Biomarkers for Radiation Damage After Computer Tomography in Children</u>	
Franke, Adrian A H	Cancer Research Center
To find biomarkers reflecting extent of radiation in children receiving computed tomograms.	
University of Hawaii Foundation	\$10,000
<u>Pineapple Research</u>	
Paull, Robert E	Department of Tropical Plant and Soil Sciences
To carry out applied research to address Hawaii's Pineapple Industry needs.	

## Gifts, Grants, and Contracts for November 2009

### Research

#### Mainland- Business and Other

Argonne National Laboratory	\$180,000
<u>Development of Application Specific Integrated Circuits for the Large Area Photodetector Development Project</u>	
Varner, Gary S	Department of Physics and Astronomy
Development of waveform sampling readout electronics (ASICS) to be used in low-cost large-area detectors under development at Argonne National Laboratories.	
EA Engineering, Science, and Technology, Inc.	\$70,350
<u>Agreement by UH Coastal Geology Group to Participate in the Study of Regional Sediment Management by USACE</u>	
Fletcher, Charles H III	Department of Geology and Geophysics
Map stream mouths on Oahu and develop plans for effective management of stream mouth clearings. Also conduct an ocean shallow sand source inventory within the Pacific waters D2P region.	
Jet Propulsion Lab	\$115,761
<u>Orographically Induced Ocean-Atmosphere Interaction: Satellite Observations and Numerical Modeling</u>	
Xie, Shang-Ping	Department of Meteorology
Conduct analysis of observations by the QuikSCAT and other NASA satellite observations for a better description and understanding of ocean-atmosphere interaction and climate.	
Jet Propulsion Lab	\$42,000
<u>New JPL 1279251 - Cassini IDS Orbital Phase</u>	
Owen, Tobias	Institute for Astronomy
To work with results from the orbiter and the probe regarding the origin of Saturn and the origin and early evolution of the atmosphere of Titan.	
Phenomix Corporation	\$4,640
<u>A Phase 3, Randomized, Double-Blind, Placebo-Controlled, Multi-Center Study to Evaluate Safety and Efficacy of PHX1149T</u>	
Arakaki, Richard F	Department of Medicine
This randomized, double-blind, placebo-controlled study is intended to evaluate safety and efficacy of the drug PHX1149T as a monotherapy in subjects with Type 2 diabetes.	
Smithsonian Astrophysical Observatory	\$15,000
<u>Local versus Large Scale: The Active Galaxy Population in High-Redshift Clusters</u>	
Gal, Roy	Institute for Astronomy
Reduction and data analysis of Chandra Telescope observations of galaxies in high-redshift clusters.	
Space Telescope Science Institute	\$11,395
<u>Cycle 17 Chilly Pairs: A Search for the Latest-type Brown Dwarf Binaries and the Prototype Y Dwarf</u>	
Liu, Michael C	Institute for Astronomy
Interpret and identify new candidate binary brown dwarf stars.	

## **Gifts, Grants, and Contracts for November 2009**

### **Research**

#### **Mainland- Business and Other**

Space Telescope Science Institute \$25,000

Chilly Pairs: A Search for the Latest-type Brown Dwarf Binaries and the Prototype Y Dwarf

Rayner, John T Institute for Astronomy

Analyze data from observations made from the Hubble Space Telescope to identify and study brown dwarf multiples as tests of formation, evolution and atmosphere models; identify and study colder brown dwarfs whose atmospheres may be laboratories for water cloud formation and other processes.

Technical Research Associates, Inc \$15,000

Spectral Vehicle Tracking

Horton, Keith A Hawaii Institute of Geophysics and Planetology

The University of Hawaii will acquire data on vehicles with reflection band and thermal band point spectrometers. We will support the planning of future measurements with point and imaging spectrometers.

#### **Mainland- Health Organizations**

American Institute for Cancer Research \$165,000

Dietary Intake of Choline and Betaine, Related Genetic Polymorphisms, and the Risk of Colorectal Cancer

Lim, Unhee Cancer Research Center

This study will examine the relationship between choline and betaine nutrient intake of 3,674 cancer cases and corresponding controls in the Multiethnic Cohort Study and the reduced risk of developing colorectal cancer.

Mayo Clinic Foundation \$6,836

The Familial Colorectal Neoplasia Collaborative Group

Le Marchand, Loic Cancer Research Center

This project will assist in the development of a Colorectal Cancer Family Registry virtual biorepository by retrieving pathology tumor slides and scanning images into an electronic image.

#### **Mainland- Non-Profit Organizations**

American Society of Pharmacognosy, The \$2,500

2009 ASP Undergraduate Research Grant

Chang, Leng Chee College of Pharmacy-UHH

Research grant to an undergraduate to defray the cost of their research

Consortium for Ocean Leadership \$61,646

Participation in IODP Cruise #324

Mahoney, John Department of Geology and Geophysics

Participation in IODP scientific expedition #324.

National Childhood Cancer Foundation \$10,600

Master Subcontract Agreement - Children's Oncology Group and the University of Hawaii National Childhood Foundation

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.

# Gifts, Grants, and Contracts for November 2009

## Research

### Mainland- Non-Profit Organizations

U.S. Civilian Research & Development Fdn \$16,000

Basin-scale Circulation and Mesoscale Dynamics of the Black Sea: Implications for Climate

Maximenko, Nikolai A Department of Oceanography

Satellite and in situ data will be jointly used to derive the first mean dynamic topography of the Black Sea and to describe its dynamics and variability through data analyses, theoretical study and laboratory experiments.

### National Aeronautics and Space Administration

National Aeronautics & Space Administration \$136,000

Support Services, Maintenance and Calibration of the TIRS-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.

### National Science Foundation

National Science Foundation \$24,860

Collaborative Research: Global Ocean Survey of Dissolved Iron and Aluminum and Aerosol Iron and Aluminum Solubility Supporting the CLIVAR Repeat Hydrography Project (2007-2009)

Measures, Christopher Department of Oceanography

To continue the research from previous awarded proposals funded by NSF to study the distributions of dissolved Aluminum and Iron in the Southern Pacific Ocean.

National Science Foundation \$236,705

CAREER: Bridging Modern Computational Capabilities and Observations of Solar Magnetic Fields with Expanding Solar Physics Education at the University of Hawaii

Roussev, Ilia I Institute for Astronomy

Supplemental funding request is to support graduate assistant travel to attend the 2009 SHINE conference in Nova Scotia, Canada.

National Science Foundation \$1,945,030

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 \$240,963

Collaborative Research: US GEOTRACES North Atlantic Section - Nd Isotope Distribution: Sources, Sinks and Internal Cycling

Pahnke, Katharina Department of Geology and Geophysics

The goal of this study is to improve our understanding of the sources, sinks and internal cycling of Nd isotopes in the North Atlantic. To address this, we plan to analyze Nd isotopes in seawater, suspended particles and aerosols along the US GEOTRACES North Atlantic zonal section.



## **Gifts, Grants, and Contracts for November 2009**

### **Research**

#### **National Science Foundation**

CAREER: Bridging Modern Computational Capabilities and Observations of Solar Magnetic Fields with Expanding Solar Physics Education at the University of Hawaii

Roussev, Ilia I Institute for Astronomy \$2,824

We propose to combine recent theories and modern computational capabilities with advanced magnetic observations at the Sun's visible surface to improve present knowledge of coronal magnetic fields in coordination with existing observational solar research.

National Science Foundation \$72,980

EAGER: Understand the Concentration Dynamics of Fecal-Specific Chemical and Bacterial Markers in a Tropical Residential Sewershed

Yan, Tao Department of Civil and Environmental Engineering

Monitor the concentration dynamics of chemical and bacterial markers in the Manoa sewershed.

National Science Foundation \$104,612

Cone-forming Explosive Eruptions of Basalt Magma: Etna, Kilauea, Stromboli

Houghton, Bruce F. Department of Geology and Geophysics

This proposal examines the complex range of volcanic explosions recorded at the classical basaltic volcanoes of Etna, Kilauea and Stromboli. It looks to tie observations of recent eruptions to the properties of the deposits and models for the processes of eruption.

National Science Foundation \$136,168

NSWP: Tomographic Reconstruction of the 3-D Coronal Magnetic Field from Space- and Ground-Based Intensity and Polarimetry Data

Lin, Haosheng Institute for Astronomy

A direct observational study of the 3-D magnetic field structure of the solar corona with the development of scalar and vector tomography tools for the reconstruction of the 3-D coronal magnetic field structure.

#### **US Colleges and Universities**

Alaska, University of \$39,999

Testing and Evaluation of Kona Infrasound Noise Generator (KING)

Garces, Milton A Hawaii Institute of Geophysics and Planetology

Testing and evaluating a new infrasound speaker prototype.

California Davis, University of \$63,076

Western Regional Center in the National Plant Diagnostic Network

Alvarez, Anne M Department of Plant and Environmental Protection Sciences

We will support plant diagnostics in Hawaii and the Pacific Region by performing standard and distance diagnostic procedures on plant and insect samples and participating in detector training activities.

California Davis, University of \$20,000

2009 IR4 Western Region Food Use Field Trial Analytical Program

Li, Qingxiao Department of Molecular Biosciences and Bioengineering

Determine residual levels of fluazifop-p-butyl and spinosad on coffee to support their registration for use on coffee.

## Gifts, Grants, and Contracts for November 2009

### Research

#### US Colleges and Universities

Columbia University	\$73,858
<u>Collaborative Research: Global Ocean Repeat Hydrography, Carbon, and Tracer Measurements, 2009-2014</u>	
Ho, David	Department of Oceanography
PI will provide measurements of CFCs and SF6 as well as data reduction and quality check during the CLIVAR/CO2 Repeat Hydrography program.	
Georgia, University of	\$92,684
<u>Functional Genomics of Maize Centromeres</u>	
Presting, Gernot G E	Department of Molecular Biosciences and Bioengineering
Chromosome movement during cell division is controlled by the centromere. The proper segregation of chromosomes into the two daughter cells during cell division is required for survival, making the centromere an extremely important chromosomal region. The DNA and protein components of corn centromeres will be studied with the intent of identifying the critical components for making an artificial chromosome.	
Massachusetts Inst of Technology	\$11,879
<u>Characterizing Young and Low-Mass Brown Dwarfs in the Solar Neighborhood</u>	
Rayner, John T	Institute for Astronomy
Research Assistant Dagny Looper will be responsible for the analysis of high-resolution imaging of brown dwarfs to measure their sensitivity curves for potential companions.	
Massachusetts Inst of Technology	\$6,289
<u>Baffle Retrofit for POETS</u>	
Bus, Schelte J II	Institute for Astronomy
To retrofit the existing POETS optical interface box with a set of baffle plates that are matched to the original optical design.	
Pittsburgh, University of	\$15,000
<u>Emerging Learning and Integrated Technologies Education (ELITE) Faculty Development Program</u>	
Berg, Benjamin W	John A. Burns School of Medicine
Support curriculum development and delivery; develop onsite and online distance learning presentations as ELITE workshop instructional partner; coordinate activities with learning partners.	
Washington, University of	\$31,500
<u>Coastal Margin Observation and Prediction: Supporting Activities at the University of Hawaii</u>	
Howe, Bruce M	Department of Ocean and Resources Engineering
For the NSF-funded Science and Technology Center (STC) Coastal Margin Observation and Prediction project, Bruce Howe will assist APL-UW in the design of acoustic bottom and gateway nodes for use in the Columbia River estuary and plume, as well as data analysis, interpretation and publication.	
Wisconsin Madison, University of	\$292,426
<u>Next Generation Aerosol-Cloud Microphysics for Advanced High-Resolution Climate Predictions</u>	
Hamilton, Kevin P	Department of Meteorology
Conduct and analyze computer simulations of the atmospheric circulation.	

**Subcount:** 67

**Subtotal:** \$10,159,475

# Gifts, Grants, and Contracts for November 2009

## Non-Research

### DA-Dept of Agriculture

Agriculture, Dept - FED \$100,000

Increasing Market Potential by Reducing On-Farm Food Safety Risk for Socially Disadvantaged Produce Growers in Hawaii

Hollyer, James R

Department of Plant and Environmental Protection Sciences

Food-borne illness outbreaks, deaths, and lawsuits continue to rise in the US with significant economic impacts. Many outbreaks are preventable with proper education of food growers. We propose to continue on-farm food safety coaching with Socially Disadvantaged Farmers in Hawaii, a population which grows a great deal of our fresh produce.

### DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$10,000

Engaging Marine Education and Training Organizations in the Western and Northern Pacific Islands

Okimoto, Darren K

Sea Grant College Program

To conduct outreach that targets marine education and training organizations in the Western and Northern Pacific regions and gather information on their activities in a report to the National Marine Fisheries Service Pacific Islands Regional Office.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$10,000

CESU Planning Support

Duffy, David C

Department of Botany

Provide planning and support for the Hawaii-Pacific Islands Cooperative Ecosystems Studies Unit.

### ED-Dept of Education

Education, Dept - FED \$565,847

Renovations for Student Success in Developmental, Digital Media/STEM, and Business Education

Richards, Leon

Chancellor, Kapiolani Community College

Renovation of the Kahikoluamea Center (Iliahi, Manele), Business Learning Center, and Digital Media/STEM Center (Kopiko) will create learning settings for improved student support services, increased student effort in active, collaborative, and technology-integrated learning of Developmental, Digital Media/STEM, and Business Education curricula.

### Federal Agencies

Housing & Urban Development, Dept - FED \$716,488

Hale Makana O Nanakuli Resource Center

Mielke, Ryan M

Chancellor, University of Hawaii at West Oahu

Construct a community resource center. Develop and provide workshops and educational programs in the Waianae community to improve the residents' quality of life.

### Foreign

German Aerospace Center (DLR) \$10,000

Lunar Analog Field Tests (DLR)

Schowengerdt, Franklin

Natural Sciences-UHH

Provide support services to DLR for field test/demonstrations in early 2010

## Gifts, Grants, and Contracts for November 2009

### Non-Research

#### Foreign

Republic of Marshall Islands \$25,000

Pacific Regional Comprehensive Cancer Control Implementation Program (Subcontract From RMI MOH)

Palafox, Neal A

Department of Family Medicine and Community Health

Implement the Pacific Regional Comprehensive Cancer Control Program in conjunction with the USAPI jurisdictions; develop a shared cancer resource for use by the jurisdictions; conduct relevant training for health providers; build capacity and policies relevant to cancer control.

#### Hawaii- Business and Other

Alu Like, Inc \$306,561

Po'ina Nalu: Native Hawaiian Career and Technical Education Program

Matsui, Sandra Y

Chancellor, Honolulu Community College

Native Hawaiian Career and Technical Education Program will work to improve Native Hawaiian student's success rate in Career and Technical Education Program assisting them in transitioning into the workforce or onto a 4 year university or college.

Alu Like, Inc \$297,637

Ho'oulu Project

Goodman, James

Chancellor, Leeward Community College

To improve career and technical education services for Hawaiian natives.

Alu Like, Inc \$5,479

Ke Alahula Fall 2009

Nartatez, Susan D.

Hawaii Institute of Marine Biology

The Ke Alahula program has agreed to pay for Fall 2009 lecturer's cost for ENG 19 (3 credits) and IS 105B (1 credit), where their project's students are enrolled. ENG 19 and IS 105B are open sections and not exclusive to students of the Ke Alahula program. Payments are for two instructors at Maui Community college - Molokai.

Hawaii Council for the Humanities \$7,500

Memorandum of Agreement Between the Hawaii Council for the Humanities and the University of Hawaii

Yoshihara, Lisa

Department of Art and Art History

1 exhibition, 1 catalogue, educational website, and 1 workshop for teachers.

Maui County Community Television, Inc \$69,555

MCC-TV Educational Access Television

Sakamoto, Clyde M

Chancellor, Maui Community College

Manage, coordinate, and operate MCC-TV Educational Access Television. This channel is one of the designated providers of educational television programming in Maui County.

# Gifts, Grants, and Contracts for November 2009

## Non-Research

### Hawaii- Dept of Education

Education, Dept - HI

An Evaluation of the Kekaulike 21st Century community Learning Centers in 2007-08

\$7,500

Higa, Terry Ann Curriculum Research and Development Group

The evaluators will collect, summarize and report data to address the requirements of the 21st Century program, including academic achievement, implementation of activities, demographic data, project partnerships, academic behavior, community partners, services to parents and other adults, operating data (hours and staffing), and NCLB status.

Education, Dept - HI

\$150,000

Designing Algebra Resources for Teachers

Gilbert, Michael J. Curriculum Research and Development Group

The project will create a partnership between HIDEO, UH COE, UH Department of Arts and Sciences, Hawaii Community Colleges. The project activities will be to create and disseminate replacement algebra units and companion teacher educative materials.

### Hawaii- Government Agencies

County of Maui

\$50,000

Maui County Aquaculture Extension Program

Howerton, Robert D Sea Grant College Program

The major role of the Maui County Aquaculture Extension Program is to serve as a conduit between researchers involved in developing technologies to improve production capabilities, hatchery operations, husbandry practices, identification of new species and transferring the developed technologies to maui County's aquaculture producers.

Hawaiian Affairs, Office of-HI

\$4,202

Running Start for Hamakua Youth at NHERC

Komenaka-Scazzola, April College of Cont Ed and Comm Serv-UHH

Tuition support for Hawaiian/Part-Hawaiian youths under the State's Running Start program

Hawaiian Affairs, Office of-HI

\$25,000

Hookulaiwi Niihau Teacher Education Initiative

Shultz, Pohai Kukea Department of Curriculum Studies

The mission of this Hookulaiwi initiative is to provide a preservice teacher education program to five Niihau educators. This is a supplemental budget request.

Health, Dept - HI

\$3,000

HTH-560-CW-002, Title X Family Planning Services University of Hawaii-Kauai Community College Campus Wellness Center

Ono, Charlene Chancellor, Kauai Community College

Expand family planning services to high-risk populations and community education through outreach.

Health, Dept - HI

\$1,190,561

Project Ho'omohala - Transition to Adulthood

Leake, David W Center on Disability Studies

The goal of this project is to implement and evaluate a system of a care encompassing the Transition to Independence Process for youth with emotional and behavioral challenges between the ages of 15-21, who live in the Kalihi-Palama area.

## Gifts, Grants, and Contracts for November 2009

### Non-Research

#### Hawaii- Government Agencies

Land & Natural Res, Dept - Div of Aquatic Resources-HI	\$78,616
<u>Proposal for Funding Coordination and Implementation of Hawaii's Local Action Strategy to Address Land-based Pollution Threats to Coral Reefs</u>	
Evensen, Carl I	Department of Natural Resources and Environmental Management
The UH NREM shall assist the Coral Reef Land-Based Pollution Steering Committee to coordinate the implementation of Hawaii's Local Action Strategy to Address Land-Based Pollution Threats to Coral Reef and provide technical assistance to stakeholders on coral reef protection issues.	
Land & Natural Res, Dept - HI	\$20,000
<u>Maintenance of Research and Services by the Hawaii Cooperative Fishery Research Unit</u>	
Birkeland, Charles	Department of Zoology
Hawaii Cooperative Fishery Research Unit will administer and advise graduate student research, teach graduate courses, and do research on topics of importance to the State of Hawaii.	
Land & Natural Res, Dept - HI	\$4,999
<u>PCSU Firefighting Support in Conservation Research Areas II</u>	
Duffy, David C	Department of Botany
PCSU conservation workers will provide firefighting support to the State during wildfires on sites conducting conservation research, PCSU workers will be limited to logistical support and firefighting "mop up"	

#### Hawaii- Health Organizations

University Clinical, Ed & Research Assoc. (UCERA)	\$2,205,721
<u>Reimbursement Agreement - FY2010 Agreement No. SF10-UCERA-Psych</u>	
Fukuda, Michael	Department of Psychiatry
Agreement to provide physician and physician related services for FY2010.	
Wahiawa General Hospital	\$8,436
<u>Reimbursement Agreement - FY2009, Agreement No. SF09-WHG-FPCH</u>	
Palafox, Neal A	Department of Family Medicine and Community Health
Salary, Fringe Benefit & Malpractice reimbursement agreement to provide physician and physician related services for FY 2009.	

#### Hawaii- Non-Profit Organizations

Olelo Community Television	\$8,664
<u>University of Hawaii - Supplemental Projects 2007</u>	
Okimoto, Hae K	Information Technology Services
Produce courses and programs for the public access channel, Oceanic 55.	
University of Hawaii Foundation	\$9,300
<u>East Asian Buddhism Professorship</u>	
Kipnis, Kenneth	Department of Philosophy
To pay for salary and fringe benefits to hire the East Asian Buddhist Professor as a lecturer in the Philosophy Dept./College of Arts & Humanities.	

## Gifts, Grants, and Contracts for November 2009

### Non-Research

#### Hawaii- Non-Profit Organizations

University of Hawaii Foundation	\$2,410
<u>Intersections Visiting Artist</u>	
Hamilton, Jaimey E	Department of Art and Art History
Funds to pay Intersections visiting artist.	
University of Hawaii Foundation	\$15,132
<u>Twenty Five Years of Edwin W. Pauley Summer Programs in Marine Biology: A Synthesis of Scientific Contributions and Human Resource Development</u>	
Gates, Ruth D	Hawaii Institute of Marine Biology
We propose to retrospectively identify the scientific contributions of the Pauley Summer Program. The methods of dissemination for this information will be the creation of two web-based resources, an enhanced Edwin W. Pauley Summer Program website and the novel Kane'ohe Bay Information System website.	
University of Hawaii Foundation	\$7,500
<u>Manoa Journal</u>	
Stewart, R F	Department of English
Funds will be used for personnel wages and fringe benefits.	

#### Mainland- Non-Profit Organizations

Chinese Language Teachers Association	\$25,000
<u>Chinese Language Teachers Association (CLTA)</u>	
Ning, Cynthia Y	Center for Chinese Studies
Handles accounts, records and general communication (national and international) of the Chinese Language Teachers Association.	
Institute of International Education, Inc.	\$970,503
<u>University of Hawaii Korean Language Flagship Center - Domestic</u>	
Sohn, Ho-Min	Department of East Asian Languages and Literatures
Continue the project with the third cohort of MA students, both self-funded and supported by the National Security Education Program fellowship.	
Institute of International Education, Inc.	\$249,248
<u>University of Hawaii Korean Language Flagship Center: Overseas at Korea University</u>	
Sohn, Ho-Min	Department of East Asian Languages and Literatures
Continue the project with the second cohort of MA students at Korea University in Seoul, Korea. Provide intensive training in advanced and specific-purpose Korean to students with professional internships and specialized field study.	
Monterey Bay Aquarium Foundation	\$10,000
<u>University of Hawaii/HIMB Community Education Program - Monterey Bay Aquarium Collaboration</u>	
Heckman, Mark B	Hawaii Institute of Marine Biology
Support from Monterey Bay Aquarium for the development of the HIMB Community Education Program, to include funds for part time support staff for program development, staff/volunteer professional training in interpretation, and materials and supplies for program interpretation needs.	

## Gifts, Grants, and Contracts for November 2009

### Non-Research

#### National Aeronautics and Space Administration

National Aeronautics & Space Administration \$30,000

Search for Ultra High Energy Astrophysical Neutrinos with the ANITA Experiment - NESSF-A. Romero-Wolf

Gorham, Peter W

Department of Physics and Astronomy

Participation as principal graduate student from UH in balloon-borne Antarctic Impulsive Transient Antenna (ANITA) investigation, which seeks to observe astrophysical neutrinos with energies above  $10^{18}$ eV.

National Aeronautics & Space Administration \$728,975

Development of a Low Mass, Power Efficient, Low Cost Sensor Package for Hyperspectral Imaging of Earth's Surface, Oceans, and Atmosphere.

Flynn, Luke Paul

Hawaii Institute of Geophysics and Planetology

Designing, fabricating, and testing a hyperspectral imaging sensor/pressure vessel package, optimized for Earth remote sensing using small satellite platforms.

#### National Science Foundation

National Science Foundation \$275,286

Physical Oceanography Dissertation Symposium VI and VII

Yamashita, Yvonne Y

Outreach College

This proposal seeks funds to organize and hold two meetings for recent physical oceanography PhD graduates.

#### US Colleges and Universities

California Los Angeles, University of \$44,000

Pacific Public Health Training Center

Yontz, Valerie

Office of Public Health Studies

The grant's goal is to develop and support public health training opportunities that are consistent with the public health workforce development objectives in Healthy People 2010.

Kansas State University \$100,000

Operation Military Kids

Nakatsuka, Claire M

College of Tropical Agriculture and Human Resources

Supplemental funds specifically for camp activities for military families affected by deployment.

Massachusetts, University of \$100,000

Consortium on Postsecondary Education for Students with Intellectual/Development Disabilities

Stodden, Robert A

Center on Disability Studies

Research and planning activities for the postsecondary education for students with intellectual/developmental disabilities program.

Michigan State University \$29,208

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.



## Gifts, Grants, and Contracts for November 2009

### Non-Research

#### US Colleges and Universities

Mississippi, University of \$5,000  
White Paper on Current State of Law on Regulation of Coastal Development and Managed Retreat  
Burkett, Maxine Sea Grant College Program  
UH Sea Grant College Program's Center for Island Climate Adaption and Policy (ICAP) will conduct research and prepare a white paper on law and its impacts on regulation of coastal development for Sea Grant Extension agents and decision makers at the state and county level.

Wisconsin Madison, University of \$35,691  
Academic Support Services Agreement between University of Hawaii and University of Wisconsin-Madison's IceCube Research Institute  
Tata, Xerxes Department of Physics and Astronomy  
Research to improve and update IceCube's theoretical expectations that are subsequently used to optimize analysis techniques

Wyoming, University of \$15,000  
SARE Professional Development Program Plan for Hawaii 2009-2010  
Radovich, Theodore J. Department of Tropical Plant and Soil Sciences  
This project will provide three (3) intermediate level training modules to increase CES/NRCS awareness and knowledge, improve CES/NRCS skills and the capacity to provide educational programs, and to change CES.NRCS educator behavior.

<b>Subcount:</b>	<b>43</b>	<b>Subtotal:</b>	<b>\$8,533,019</b>
<b>Count:</b>	<b><u>110</u></b>	<b>Total:</b>	<b><u>\$18,692,494</u></b>

## Funds Received from UH Foundation for 11/01/2009 - 11/30/2009

### Non-Research

#### Hawaii- Non-Profit Organizations

University of Hawaii Foundation	\$15,132
"Twenty Five Years of Edwin W. Pauley Summer Programs in Marine Biology: A Synthesis	
Gates, Ruth D	Hawaii Institute of Marine Biology
We propose to retrospectively identify the scientific contributions of the Pauley Summer Program. The methods of dissemination for this information will be the creation of two web-based resources, an enhanced Edwin W. Pauley Summer Program website and the novel Kane'ohe Bay Information System website.	
University of Hawaii Foundation	\$2,410
"Intersections Visiting Artist"	
Hamilton, Jaimey E	Department of Art and Art History
Funds to pay Intersections visiting artist.	
University of Hawaii Foundation	\$9,300
"East Asian Buddhism Professorship"	
Kipnis, Kenneth	Department of Philosophy
To pay for salary and fringe benefits to hire the East Asian Buddhist Professor as a lecturer in the Philosophy	
University of Hawaii Foundation	\$7,500
"Manoa Journal"	
Stewart, R F	Department of English
Funds will be used for personnel wages and fringe benefits.	

### Research

#### Hawaii- Non-Profit Organizations

University of Hawaii Foundation	\$20,459
"Establishment of Biomarkers for Radiation Damage After Computer Tomography in Children	
"	
Franke, Adrian A H	Cancer Research Center
To find biomarkers reflecting extent of radiation in children receiving computed tomograms.	
University of Hawaii Foundation	\$10,000
"Pineapple Research"	
Paull, Robert E	Department of Tropical Plant and Soil Sciences
To carry out applied research to address Hawaii's Pineapple Industry needs.	

**Count:** 6

**Total:** \$64,801

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

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DA-Dept of Agriculture	1	\$331,254	3.26%
DHHS-Dept of Health and Human Services	2	\$2,407,907	23.70%
DOC-Dept of Commerce	3	\$147,166	1.45%
DOD-Department of Defense	2	\$245,929	2.42%
DOE-Dept of Energy	1	\$99,842	0.98%
DOI-Dept of Interior	4	\$385,825	3.80%
Foreign	1	\$70,000	0.69%
Hawaii- Business and Other	2	\$222,487	2.19%
Hawaii- Government Agencies	8	\$1,221,947	12.03%
Hawaii- Non-Profit Organizations	9	\$738,537	7.27%
Mainland- Business and Other	9	\$479,146	4.72%
Mainland- Health Organizations	2	\$171,836	1.69%
Mainland- Non-Profit Organizations	4	\$90,746	0.89%
National Aeronautics and Space Administration	1	\$136,000	1.34%
National Science Foundation	8	\$2,764,142	27.21%
US Colleges and Universities	10	\$646,711	6.37%
<b>Total:</b>	<b><u>67</u></b>	<b><u>\$10,159,475</u></b>	<b><u>100%</u></b>

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

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DA-Dept of Agriculture	1	\$100,000	1.17%
DOC-Dept of Commerce	2	\$20,000	0.23%
ED-Dept of Education	1	\$565,847	6.63%
Federal Agencies	1	\$716,488	8.40%
Foreign	2	\$35,000	0.41%
Hawaii- Business and Other	5	\$686,732	8.05%
Hawaii- Dept of Education	2	\$157,500	1.85%
Hawaii- Government Agencies	8	\$1,376,378	16.13%
Hawaii- Health Organizations	2	\$2,214,157	25.95%
Hawaii- Non-Profit Organizations	5	\$43,006	0.50%
Mainland- Non-Profit Organizations	4	\$1,254,751	14.70%
National Aeronautics and Space Administration	2	\$758,975	8.89%
National Science Foundation	1	\$275,286	3.23%
US Colleges and Universities	7	\$328,899	3.85%
<b>Total:</b>	<b><u>43</u></b>	<b><u>\$8,533,019</u></b>	<b><u>100%</u></b>

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

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DA-Dept of Agriculture	40	\$6,114,617	4.35%
DHHS-Dept of Health and Human Services	65	\$34,406,233	24.47%
DOC-Dept of Commerce	64	\$23,095,691	16.43%
DOD-Department of Defense	31	\$13,056,069	9.29%
DOE-Dept of Energy	14	\$4,780,594	3.40%
DOI-Dept of Interior	40	\$2,965,700	2.11%
ED-Dept of Education	5	\$672,198	0.48%
Federal Agencies	1	\$66,426	0.05%
Foreign	10	\$1,161,681	0.83%
Hawaii- Business and Other	15	\$900,058	0.64%
Hawaii- Government Agencies	56	\$8,662,562	6.16%
Hawaii- Health Organizations	6	\$461,561	0.33%
Hawaii- Non-Profit Organizations	23	\$1,555,180	1.11%
Mainland- Business and Other	29	\$2,307,729	1.64%
Mainland- Health Organizations	9	\$1,594,539	1.13%
Mainland- Non-Profit Organizations	17	\$1,128,093	0.80%
National Aeronautics and Space Administration	35	\$3,776,029	2.69%
National Science Foundation	71	\$29,445,458	20.94%
US Colleges and Universities	45	\$4,461,513	3.17%
<b>Total:</b>	<b><u>576</u></b>	<b><u>\$140,611,931</u></b>	<b><u>100%</u></b>

Note: YTD amounts include adjustments.

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

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DA-Dept of Agriculture	12	\$3,195,972	3.06%
DHHS-Dept of Health and Human Services	33	\$9,814,714	9.41%
DOC-Dept of Commerce	13	\$782,149	0.75%
DOD-Department of Defense	1	\$126,193	0.12%
DOI-Dept of Interior	11	\$366,553	0.35%
ED-Dept of Education	60	\$31,884,858	30.56%
Federal Agencies	12	\$8,370,459	8.02%
Foreign	9	\$309,530	0.30%
Hawaii- Business and Other	26	\$3,239,469	3.10%
Hawaii- Dept of Education	6	\$364,906	0.35%
Hawaii- Government Agencies	65	\$9,596,884	9.20%
Hawaii- Health Organizations	23	\$9,914,998	9.50%
Hawaii- Non-Profit Organizations	52	\$3,937,192	3.77%
Mainland- Business and Other	7	\$519,506	0.50%
Mainland- Non-Profit Organizations	14	\$1,665,855	1.60%
National Aeronautics and Space Administration	4	\$2,788,975	2.67%
National Science Foundation	26	\$16,499,263	15.81%
US Colleges and Universities	16	\$958,316	0.92%
<b>Total:</b>	<b><u>390</u></b>	<b><u>\$104,335,792</u></b>	<b><u>100%</u></b>

Note: YTD amounts include adjustments.