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
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
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
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)
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
Ecological Impacts of Carioja Riiisei 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 (Carioja riisei) habitat in the 'Au'au Channel.

Western Pacific Regional Fishery Mgmt Council
Ecological Impacts of Carioja Riiisei 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 (Carioja 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  
Au, Whitlow W L  
Hawaii Institute of Marine Biology  
$195,929

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

Miniaturized Retrodirective Arrays for a Nanosatellite Platform  
Shiroma, Wayne Akira  
Hawaii Space Flight Laboratory  
$50,000

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

Improve the Representation of Convection-PBL Interactions in Two Global General Circulation Models (CAM & ECHAM)  
Fu, Xiou Hua  
Department of Meteorology  
$99,842

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

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  
$191,800

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

Develop Management Plan for Molokai North Shore Cliffs National Natural Landmark  
Duffy, David C  
Department of Botany  
$100,000

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

Cooperative Development of the Fisheries Harvest Vital Sign Monitoring Protocol  
Beets, James  
Natural Sciences-UHH  
$74,025

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
Statewide Wildlife Conservation Program Coordination and Implementation
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
Support for the HISC Program
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
The Development of a Biocontrol Option for Alien Algae Control
Duffy, David C Department of Botany
Research sea urchins as a biocontrol option against invasive alien algae.

Land & Natural Res, Dept - HI
Detection and Control of Invasive Species on the Island of Hawaii
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
Coastal Bridge and Port Vulnerability to Tsunami and Storm Surge
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
Role of Caveolin-1 in Cardiac Remodeling
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)
The Role of Antibody in the Pathogenesis of Acute Rheumatic Fever
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
Mechanistic and Structural Studies of the Fungal Derivative Terpestacin as an Anti-Angiogenic Agent
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
Regulation of the Presynaptic Terminal by Chronic Beta Amyloid
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
In Vivo Efficacy of Novel Proteasome Inhibitors in Neuroblastoma
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
Conservation Work at Keauhou/Kilauea and North Kona
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
Natural Resources Management in Kapunakea Preserve, West Maui
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
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.
**Gifts, Grants, and Contracts for November 2009**

### Research

**Mainland- Business and Other**

<table>
<thead>
<tr>
<th>Organization</th>
<th>Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Argonne National Laboratory</td>
<td>Development of Application Specific Integrated Circuits for the Large Area Photodetector Development Project</td>
<td>$180,000</td>
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<tr>
<td></td>
<td>Varner, Gary S, Department of Physics and Astronomy</td>
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<tr>
<td></td>
<td>Development of waveform sampling readout electronics (ASICS) to be used in low-cost large-area detectors under development at Argonne National Laboratories.</td>
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</tr>
<tr>
<td>EA Engineering, Science, and Technology, Inc.</td>
<td>Agreement by UH Coastal Geology Group to Participate in the Study of Regional Sediment Management by USACE</td>
<td>$70,350</td>
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<td></td>
<td>Fletcher, Charles H III, Department of Geology and Geophysics</td>
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<td></td>
<td>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.</td>
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<td></td>
<td>Xie, Shang-Ping, Department of Meteorology</td>
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<td></td>
<td>Conduct analysis of observations by the QuikSCAT and other NASA satellite observations for a better description and understanding of ocean-atmosphere interaction and climate.</td>
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<td>Jet Propulsion Lab</td>
<td>New JPL 1279251 - Cassini IDS Orbital Phase</td>
<td>$42,000</td>
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<td></td>
<td>Owen, Tobias, Institute for Astronomy</td>
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<td></td>
<td>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.</td>
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<tr>
<td>Phenomix Corporation</td>
<td>A Phase 3, Randomized, Double-Blind, Placebo-Controlled, Multi-Center Study to Evaluate Safety and Efficacy of PHX1149T</td>
<td>$4,640</td>
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<td>Arakaki, Richard F, Department of Medicine</td>
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<td></td>
<td>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.</td>
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<tr>
<td>Smithsonian Astrophysical Observatory</td>
<td>Local versus Large Scale: The Active Galaxy Population in High-Redshift Clusters</td>
<td>$15,000</td>
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<td></td>
<td>Gal, Roy, Institute for Astronomy</td>
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<tr>
<td></td>
<td>Reduction and data analysis of Chandra Telescope observations of galaxies in high-redshift clusters.</td>
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<tr>
<td>Space Telescope Science Institute</td>
<td>Cycle 17 Chilly Pairs: A Search for the Latest-type Brown Dwarf Binaries and the Prototype Y Dwarf</td>
<td>$11,395</td>
</tr>
<tr>
<td></td>
<td>Liu, Michael C, Institute for Astronomy</td>
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<tr>
<td></td>
<td>Interpret and identify new candidate binary brown dwarf stars.</td>
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</tr>
</tbody>
</table>
Gifts, Grants, and Contracts for November 2009

Research

Mainland- Business and Other

Space Telescope Science Institute  
**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  
**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  
**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  
**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  
**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  
**Participation in IODP Cruise #324**  
Mahoney, John  
Department of Geology and Geophysics  
Participation in IODP scientific expedition #324.

National Childhood Cancer Foundation  
**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 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.

National Science Foundation

National Science Foundation $24,860

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
Collaborative Research: Global Ocean Repeat Hydrography, Carbon, and Tracer Measurements, 2009-2014
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
Functional Genomics of Maize Centromeres
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
Characterizing Young and Low-Mass Brown Dwarfs in the Solar Neighborhood
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
Baffle Retrofit for POETS
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
Emerging Learning and Integrated Technologies Education (ELITE) Faculty Development Program
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
Coastal Margin Observation and Prediction: Supporting Activities at the University of Hawaii
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
Next Generation Aerosol-Cloud Microphysics for Advanced High-Resolution Climate Predictions
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

<table>
<thead>
<tr>
<th>Agency</th>
<th>Amount</th>
<th>Description</th>
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</thead>
</table>
| 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

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<tr>
<th>Agency</th>
<th>Amount</th>
<th>Description</th>
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</thead>
</table>
| 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

<table>
<thead>
<tr>
<th>Agency</th>
<th>Amount</th>
<th>Description</th>
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</thead>
</table>
| 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

<table>
<thead>
<tr>
<th>Agency</th>
<th>Amount</th>
<th>Description</th>
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</table>
| 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

<table>
<thead>
<tr>
<th>Agency</th>
<th>Amount</th>
<th>Description</th>
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</table>
| 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)
Palafax, 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**

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
<th>Amount</th>
</tr>
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<tbody>
<tr>
<td>Higa, Terry Ann</td>
<td>Curriculum Research and Development Group</td>
<td>$7,500</td>
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</tbody>
</table>

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.

**Designing Algebra Resources for Teachers**

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Gilbert, Michael J.</td>
<td>Curriculum Research and Development Group</td>
<td>$150,000</td>
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The project will create a partnership between HIDOE, 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**

**Maui County Aquaculture Extension Program**

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>Howerton, Robert D</td>
<td>Sea Grant College Program</td>
<td>$50,000</td>
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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.

**Running Start for Hamakua Youth at NHERC**

<table>
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<tr>
<th>Name</th>
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<tr>
<td>Komenaka-Scazzola, April</td>
<td>College of Cont Ed and Comm Serv-UHH</td>
<td>$4,202</td>
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Tuition support for Hawaiian/Part-Hawaiian youths under the State’s Running Start program.

**Hookulaiwi Niihau Teacher Education Initiative**

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
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<tr>
<td>Shultz, Pohai Kukea</td>
<td>Department of Curriculum Studies</td>
<td>$25,000</td>
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</table>

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

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Ono, Charlene</td>
<td>Chancellor, Kauai Community College</td>
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Expand family planning services to high-risk populations and community education through outreach.

**Project Ho’omohala - Transition to Adulthood**

<table>
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<tr>
<th>Name</th>
<th>Organization</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Leake, David W</td>
<td>Center on Disability Studies</td>
<td>$1,190,561</td>
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</table>

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
Proposal for Funding Coordination and Implementation of Hawaii’s Local Action Strategy to Address Land-based Pollution Threats to Coral Reefs
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
Maintenance of Research and Services by the Hawaii Cooperative Fishery Research Unit
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
PCSU Firefighting Support in Conservation Research Areas II
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
Reimbursement Agreement - FY2010 Agreement No. SF10-UCERA-Psych
Fukuda, Michael Department of Psychiatry
Agreement to provide physician and physician related services for FY2010.

Wahiawa General Hospital $8,436
Reimbursement Agreement - FY2009, Agreement No. SF09-WHG-FPCH
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
University of Hawaii - Supplemental Projects 2007
Okimoto, Hae K Information Technology Services
Produce courses and programs for the public access channel, Oceanic 55.

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 Dept./College of Arts & Humanities.
Gifts, Grants, and Contracts for November 2009

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation
  Intersections Visiting Artist
  Hamilton, Jaimey E  Department of Art and Art History
  Funds to pay Intersections visiting artist.

University of Hawaii Foundation
  Twenty Five Years of Edwin W. Pauley Summer Programs in Marine Biology: A Synthesis of Scientific Contributions and Human Resource Development
  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
  Manoa Journal
  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
  Chinese Language Teachers Association (CLTA)
  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
  University of Hawaii Korean Language Flagship Center - Domestic
  Sohn, Ho-Min  Department of East Asian Languages and Literatures
  Continue the project with the third cohort of MA students, both self-funded and supported by the National Security Education Program fellowship.

Institute of International Education, Inc.  $249,248
  University of Hawaii Korean Language Flagship Center - Overseas at Korea University
  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
  University of Hawaii/HIMB Community Education Program - Monterey Bay Aquarium Collaboration
  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.

- **Development of a Low Mass, Power Efficient, Low Cost Sensor Package for Hyperspectral Imaging of Earth's Surface, Oceans, and Atmosphere.** $728,975
  - 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**

- **Physical Oceanography Dissertation Symposium VI and VII** $275,286
  - 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 Hawai'i 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**
  - **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**
  - **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**
  - **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.

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<th>43</th>
<th>Subtotal:</th>
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<td>Count:</td>
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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

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

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

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Total: 576  $140,611,931  100%

Note: YTD amounts include adjustments.
Extramural Non-Research Awards
Year to Date: 07/01/09 - 11/30/09
Distribution by Sponsors

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<td>26</td>
<td>$16,499,263</td>
<td>15.81%</td>
</tr>
<tr>
<td>US Colleges and Universities</td>
<td>16</td>
<td>$958,316</td>
<td>0.92%</td>
</tr>
</tbody>
</table>

Total: **390**  $104,335,792  **100%**

Note: YTD amounts include adjustments.