

Gifts, Grants, and Contracts for March 2009

The following gifts, grants and contracts received by all campuses during the period March 1, 2009 through March 31, 2009 total \$20,326,168.

This report is also available for viewing at: http://www.hawaii.edu/ors/Board_Reports.htm

Research

DA-Dept of Agriculture

Department of Agriculture	\$5,003
<u>Support of Agricultural Research - 2009-2</u>	
Norman Stahl	Vice Chancellor for Student Affairs-UHH
Support for UH Hilo student assistants to conduct research on PBARC projects	

DHHS-Dept of Health and Human Services

National Cancer Institute/NIH/DHHS	\$233,177
<u>Multiethnic Cohort Study of Diet and Cancer (VDPP: Rarer Cancers)</u>	
Laurence N Kolonel	Cancer Research Center
The goal of this supplemental project is to examine the relationship of vitamin D to the risk of several less common	

National Cancer Institute/NIH/DHHS	\$247,165
<u>Regulation of Cx43 by Src and Novel Interacting Proteins</u>	
Alan F Lau	Cancer Research Center
Specific Aim 1 will investigate the involvement of the P-Y427 site and other domains of Cx43 in the Src-induced disruption of Cx43 gap junction channels. Specific Aims 2 and 3 will investigate the Cx43-CIP75 and Cx43-CIP85 interactions and the role they play in the proteasomal degradation of Cx43 in mammalian cells.	

National Cancer Institute/NIH/DHHS	\$27,463
<u>Regulation of Cx43 by Src and Novel Interacting Proteins</u>	
Alan F Lau	Cancer Research Center
Specific Aim 1 will investigate the involvement of the P-Y427 site and other domains of Cx43 in the Src-induced disruption of Cx43 gap junction channels. Specific Aims 2 and 3 will investigate the Cx43-CIP75 and Cx43-CIP85 interactions and the role they play in the proteasomal degradation of Cx43 in mammalian cells.	

National Cancer Institute/NIH/DHHS	\$26,284
<u>Role of Cell Mediators in Asbestos - SV40 Carcinogenesis</u>	
Michele Carbone	Cancer Research Center
This proposal will be studying the hypothesis that asbestos and SV40 are co-carcinogens in causing malignant mesothelioma.	

National Center on Minority Health and Health Disparities/NIH/DHHS	\$479,581
<u>Pili 'Ohana Program: Partnerships to Overcome Obesity Disparities in Hawaii</u>	
Joseph Kaholokula	Department of Native Hawaiian Health
This competing continuation proposal seeks funding for a 5-year intervention project on weight loss maintenance among Native Hawaiians and Pacific Peoples based on a community-based participatory research model.	

National Center on Minority Health and Health Disparities/NIH/DHHS	\$53,287
<u>Pili 'Ohana Program: Partnerships to Overcome Obesity Disparities in Hawaii</u>	
Joseph Kaholokula	Department of Native Hawaiian Health
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Research

DHHS-Dept of Health and Human Services

National Heart, Lung, and Blood Institute/NIH/DHHS \$825,328

University of Hawaii Research Scientist Award in Molecular Cardiology

Ralph Victor Shohet Department of Medicine

Phase II (years 3-7) will establish a research and education program with the recruited scientist as principal investigator.

National Institute of General Medical Sciences/NIH/DHHS \$262,363

Dynamin: Ligand Interactions and Conformational Dynamics (Administrative Supplement)

David M Jameson Department of Cell and Molecular Biology

In order for cells to take up important molecules from their environment the protein dynamin is required. Our proposal seeks to understand the way this protein works. This knowledge will improve our understanding of the way in which many molecules enter our cells and could be useful for the design of therapeutic interventions.

National Institute on Aging/NIH/DHHS \$139,869

A Needle in a Haystack: New Approaches to Alzheimer's Drug Discovery from Natural Products

Philip Williams Department of Chemistry

The discovery of Alzheimer's Disease drug leads from marine organisms.

National Institutes of Health/DHHS \$33,087

Effects of Soy on Estrogens in Breast Fluid and Urine

Gertraud Maskarinec Cancer Research Center

Examine two alternate hormonal mechanisms of action for soy: modification of estrogen levels and epithelial cells directly in the breast and modulation of urinary estrogen metabolite patterns.

DOC-Dept of Commerce

DOC-National Marine Fisheries Service \$10,000

Hawaiian Monk Seal Microsatellite Analysis

Brian R Bowen Hawaii Institute of Marine Biology

Jennifer Schultz will perform microsatellite DNA analysis of ~2500 previously collected (under federal and state permits granted to the National Marine Fisheries Service) Hawaiian monk seal tissue samples at the request of the National Marine Fisheries Service Protected Species Division.

National Oceanic & Atmospheric Administration/Department of Commerce \$67,934

CRES (2007): Investigating Deep (50-100m) Coral Reefs in Hawaii

Brian N Popp Department of Geology and Geophysics

We will study the food habits and ecology of fish associated with deep reefs in Hawaii.

National Oceanic & Atmospheric Administration/Department of Commerce \$81,680

Investigating the Deep (50-100m) Coral Reefs of Hawaii

Celia M Smith Department of Botany

This proposal provides research expertise in physiology of deep water corals and algae of Hawaii.

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Research

DOD-Department of Defense

Air Force Office of Scientific Research \$200,462

Advancing the Surveillance Capabilities of the Air Force's Large-Aperture Telescopes

Stuart M Jefferies Institute for Astronomy

Conduct fundamental research into image restoration methods with the goal of significantly extending the region of performance for ground-based imaging of space-based targets, using the Air Force's 3-meter class telescopes.

Department of the Air Force \$19,591

Operations and Management of the Maui Supercomputing Center

David K Lassner Information Technology Services

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

Department of the Air Force \$8,703

Operations and Management of the Maui High Performance Computing Center

David K Lassner Information Technology Services

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

Department of the Air Force \$143,706

Operations and Management of the Maui Supercomputing Center

David K Lassner Information Technology Services

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

Department of the Army \$60,454

Techniques for Identification of Environmental Background Conditions at Ordnance Reef, Pokai Bay, Hawaii

Eric H DeCarlo Department of Oceanography

The objective of the research is to develop site specific baseline data and research and develop appropriate techniques and methodologies for incorporating the evaluation of this data in relation to the impacts of Ordnance Reef.

Department of the Navy \$40,458

Western Pacific Tropical Cyclone Reanalysis with the NRL Atmospheric Variational Data Assimilation System (NAVDAS)

Tim Li Department of Meteorology

To construct a comprehensive, high-resolution western Pacific Tropical Cyclone reanalysis data product using the NAVDAS.

DOE-Dept of Energy

Department of Energy \$230,000

I. Structural and Mechanistic Studies of Doped Aluminates; II. Kinetic Enhancement of Thermodynamically Tuned, High Capacity, Reversible Metal Hydrides

Craig M Jensen Department of Chemistry

Development of High Performance Hydrogen Storage Materials.

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Research

DOI-Dept of Interior

Department of Interior \$8,780
Anchialine Pool Catalog
 James Beets Natural Sciences-UHH

U.S. Fish & Wildlife Service/Department of the Interior \$5,959
Reducing Colonization of Schoenoplectus californicus (California bulrush) for Native and Migratory Bird Habitat with Aquatic Herbicides and Adjuvants
 James Leary College of Tropical Agriculture and Human Resources
 Identify effective dose and volume rates of aquatic-use herbicide and adjuvant combinations for suppressing *S. californicus* infestations within the James Campbell NWR.

Hawaii- Business and Other

Guide Star Engineering \$98,222
Characterizing Humpback Whale Song Components for Automatic Detection and Recognition
 Whitlow W L Au Hawaii Institute of Marine Biology
 Develop an automatic humpback whale song detection and classification algorithm.

PanThera Biopharma, LLC \$7,710
Therapeutic Potential of Newly Discovered Small Molecule Antivirals for Inhibition of WNV Replication
 Vivek R Nerurkar Dept of Trop Med, Medical Microbiology and Pharmacology
 To test small molecule inhibitors for inhibition of West Nile virus replication.

Papa Ola Lokahi \$69,200
CBPR to Reducing Smoking Among Filipina Girls
 Angela Sy Department of Public Health Sciences and Epidemiology
 This project will investigate knowledge, attitudes, behavior, and sociocultural factors that may be related to the high tobacco use among Native Hawaiian and Filipina girls in Hawaii. Peer facilitators will lead ethnic focus groups to cover facilitators and barriers toward smoking.

Wil Chee Planning, Inc \$50,534
Revision of the Rainfall Atlas of Hawaii
 Thomas W Giambelluca Department of Geography
 We will develop a new digital Rainfall Atlas of Hawai'i including high-resolution maps of mean monthly and annual rainfall for all the major Hawaiian Islands. These new rainfall maps will be based on raingage data and expert knowledge, supplemented with other predictors, such as radar rainfall and model estimates.

Wil Chee Planning, Inc \$100,275
Revision of the Rainfall Atlas of Hawaii
 Thomas W Giambelluca Department of Geography
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Research

Hawaii- Government Agencies

DLNR-Division of Forestry & Wildlife	\$8,000
<u>Got Dead Bird Program</u>	
David C Duffy	Department of Botany
Collect dead birds reported by the public hotline and compile data to monitor for the presence of West Nile virus and avian influenza in Hawaii.	
DLNR-Division of Forestry & Wildlife	\$20,000
<u>Invasive Pampas Grass Control and Experimental Replacement Planting on Oahu</u>	
David C Duffy	Department of Botany
Conduct tests to select native and non-invasive polynesian-introduced plants as suitable replacements for invasive pampas grass on Oahu golf courses.	
Hawaii-Civil Defense Division	\$130,000
<u>Tsunami Inundation Map for Hawaii</u>	
Kwok Fai Cheung	Department of Ocean and Resources Engineering
Develop tsunami inundation map for Hawaii.	
Hawaii-Dept of Agriculture	\$100,000
<u>Air Sampling and Analysis for Pesticides Residues and Odorous Chemicals in the Air in the Waimea Areas, Kauai</u>	
Qingxiao Li	Department of Molecular Biosciences and Bioengineering
The purpose of this project is to analyze what chemicals (i.e., organic substances) are present in the ambient air in Waimea, Kauai and study what chemicals may cause health problems (exposure to people) if any.	
Hawaii-Dept of Health	\$33,902
<u>Evaluation of Hawaii Gatekeeper Training Initiative</u>	
Judith K Inazu	Social Science Research Institute
Develop and implement the evaluation for the Hawaii Gatekeeper Training Initiative, a Statewide suicide prevention initiative and each funded prevention project, under the direction of the Hawaii State Department of Health.	
Hawaii-Dept of Land & Natural Resources	\$6,250
<u>Black Coral Density and Uncertain Taxonomy: What are the Implications for the Black Coral Fishery PO C92707</u>	
John C Wiltshire	Hawaii Undersea Research Laboratory
Collaborative Deep Coral Reef Ecosystem Studies Project for research and management of Hawaii's deep coral reef resources.	
Hawaii-Dept of Land & Natural Resources	\$129,200
<u>Biocontrol and Bee Pest and Disease Detection Efforts</u>	
David C Duffy	Department of Botany
Work with the State to research control methods against critical pest problems including the varroa bee mite, Erythrina gall wasp, strawberry guava, stinging nettle caterpillar, and fireweed.	
Hawaii-Dept of Land & Natural Resources	\$60,551
<u>Forestry and Watershed Planner</u>	
Clifford W Morden	Department of Botany
Research and develop management plans for Kauai and Maui forest reserves, working closely with planners on those islands.	

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Research

Hawaii- Government Agencies

Hawaii-Dept of Land & Natural Resources	\$142,833
<u>Endangered Maui Forest Bird Population Research and Management</u>	
David C Duffy	Department of Botany
Research and manage recovery efforts for endangered Maui forest birds, including the Po'ouli.	
Hawaii-Dept of Land & Natural Resources	\$40,000
<u>Keauhou Feral Ungulate Control and Monitoring Phase 2</u>	
Clifford W Morden	Department of Botany
Control ungulate population as part of the on-going native forest restoration project at Keauhou Ranch on the island of Hawaii.	
Hawaii-Dept of Transportation	\$108,000
<u>Strategies for Energy Efficiency in Transportation</u>	
Sharon Y Miyashiro	Department of Urban and Regional Planning
Survey of Oahu residents to determine transportation preferences and behaviors and develop recommendations for energy policy incentives and disincentives for the transportation sector.	

Hawaii- Health Organizations

Kaiser Permanente - HI	\$25,581
<u>Pacific Kids DASH for Health (PacDASH)</u>	
Rachel Novotny	Department of Human Nutrition, Food and Animal Sciences
At UH-Design and develop project tools (specifically at HNFAS for the Pacific Tracker-Expert System tool.), test tools, oversee and manage study implementation, conduct data entry and analysis, and write reports. Principal investigator of study at Kaiser Permanente and UH.	
Kaiser Permanente - HI	\$14,843
<u>Cardiovascular Research Network</u>	
Rachel Novotny	Department of Human Nutrition, Food and Animal Sciences
This project will involve Dr. Novotny serving as Site PI for Hawaii, to develop and participate in collaborative research projects with the other investigators on this NIH funded research project. This will involve participation in conference calls, development of research proposals, and participation in the project annual meeting.	
Pacific Health Research Institute	\$33,357
<u>Family Blood Pressure Program and SAPPHiRe Network</u>	
J David Curb	John A. Burns School of Medicine
Subcontract between Pacific Health Research Institute and the University of Hawaii for Dr. David Curb's time as Principal Investigator to oversee responsibility and scientific leadership of the project.	
Pacific Health Research Institute	\$20,799
<u>Epidemiology of CHD of Men Aged 40+</u>	
J David Curb	John A. Burns School of Medicine
Subcontract between Pacific Health Research Institute and the University of Hawaii, for Dr. David Curb's time as Principal Investigator to oversee responsibility and scientific leadership of the project. Dr. Curb will receive 10% FTE for his responsibilities as Principal Investigator.	

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Research

Hawaii- Health Organizations

Queen's Medical Center \$52,000

Memorandum of Understanding between the QMC and UHM SONDH

Debra D Mark Department of Nursing

Develop strategies and plans for collaborative research activities, identify shared educational opportunities, support participation in identified committees at each organization, promote the appointment of QMC staff as non-compensated clinical faculty at UHM and promote ongoing communication to identify opportunities to expand future education and practice partnerships.

Hawaii- Non-Profit Organizations

Angus (Myra W & Jean Kent) Foundation \$60,000

Luminex Technology Based Serodiagnostic Assay for the Rapid Detection of Avian Influenza Virus and Arboviruses

Vivek R Nerurkar Dept of Trop Med, Medical Microbiology and Pharmacology

The objective of this research is to develop rapid diagnostic tests for detection and surveillance of avian influenza, dengue, Chikungunya, and Zika viruses infection. The rationale is that these pathogens have potential to be imported in Hawaii, which will affect the health of the people, and the ecosystem of Hawaii.

Mainland- Business and Other

Booz, Allen & Hamilton Inc \$96,340

caBIG₂ Enterprise Phase

Lynne R Wilkens Cancer Research Center

The applicant will participate in projects of the Vocabulary and Common Data Elements Workspace of NCI's caBIG₂ project, an informatics initiative aimed at standard infrastructure for data sharing. Specific tasks will include review of software applications for compatibility and development and dissemination of information on common data element standards.

Eli Lilly & Co \$1,850

A Randomized Trial Comparing Exenatide with Placebo in Subjects with Type 2 Diabetes on Insulin Glargine w/or Without oral Antihyperglycemic Medication

Richard F Arakaki Department of Medicine

Eli Lilly H80-US-GWCO: The purpose of this study is to help determine whether the drug exenatide, when added to a treatment regimen of insulin glargine (alone or in combination w/metformin and/or pioglitazone), will improve blood sugar levels in patients with type 2 diabetes.

First Solar, Incorporated \$135,000

First Solar Advanced Technologies Project

Eric L Miller Hawaii Natural Energy Institute

The Hawaii Natural Energy Institute at the University of Hawaii at Manoa will provide professional services to support First Solar Advanced Technologies in the performance of its efforts to execute research into copper-indium-gallium-diselenide deposition and resulting photovoltaic devices.

Jet Propulsion Lab \$55,000

Three-dimensional Analysis of Graben-Pit Catenae for Mars and Earth

Stephen J Martel Department of Geology and Geophysics

The proposed research investigates the structure and mechanics of pit craters and associated faults on Mars and terrestrial analogs on Hawaii.

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Mainland- Business and Other

Jet Propulsion Lab	\$50,000
<u>IRS Legacy Survey of the Green Valley in COSMOS</u>	
David Bruce Sanders	Institute for Astronomy
Dr. Sanders and his team will coordinate, analyze and reduce data related "IRS Legacy Survey of the Green Valley in COSMOS".	
Lockheed Martin Corporation	\$20,000
<u>Automated Marine Mammal Detection and Classification on Navy Ranges</u>	
Whitlow W L Au	Hawaii Institute of Marine Biology
Create software to automate dolphin identification on the PMRF hydrophone range.	
Lone Wolf Productions	\$70,627
<u>Marine Archaeological Investigation and Survey of Japanese Midget Submarines off Pearl Harbor</u>	
John C Wiltshire	Hawaii Undersea Research Laboratory
Submersible investigation and survey of World War II Japanese midget submarines off Pearl Harbor.	
Monterey Bay Aquarium Research Institute	\$125,298
<u>Movement Patterns, Environmental Preferences and Husbandry of Sharks and Rays of Hawaii</u>	
Kim N Holland	Hawaii Institute of Marine Biology
Field work focused on electronic tracking of target species, exploratory fishing and establishing facilities to support collaborative work.	
National Renewable Energy Laboratory/DOE	\$100,000
<u>Coordination of Annex-26 Activities</u>	
Eric L Miller	Hawaii Natural Energy Institute
The objective of this effort is to coordinate the international activities in the four primary focus areas of the International Energy Agency's Annex-26 on Photoelectrochemical Hydrogen Production: Materials theory, synthesis, characterization, and information coordination/database.	
Northrop Grumman Corporation	\$100,000
<u>High-Efficiency Amplifier Design</u>	
Wayne Akira Shiroma	Department of Electrical Engineering
Design high-efficiency amplifiers for wide-bandwidth applications.	
OpCoast LLC	\$50,000
<u>Connection One: Evaluation of RF Propagation Modeling Tool for Urban Propagation Environments</u>	
Magdy F. Iskander	Hawaii Center for Advanced Communications
OpCoast will evaluate HCAC's RF propagation modeling tool for Indoor, Outdoor & combined Indoor/Outdoor modeling, & related capabilities to determine full capable flexibility & ease of use, including mobility (Doppler) effects in urban environs. & predicting effects in the context of current systems, & import of data from sources such as Google Earth images & 3D Warehouse to create models	
Schafer Corporation	\$13,053
<u>PapioSat: A GPS/Imaging/Sensing Payload for Responsive Sub-Orbital Missions</u>	
Wayne Akira Shiroma	Hawaii Space Flight Laboratory
Design a payload with GPS, imaging, and sensing capability for a responsive space mission.	

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Mainland- Business and Other

Wildlife Productions \$70,368
Marine Archeological Investigation and Survey of the I-400 and I-401
 John C Wiltshire Hawaii Undersea Research Laboratory
 Survey and inspect the wreck of the Japanese submarine I-401 and look for the wrecks of the submarines I-14 and I-400.

Mainland- Health Organizations

Joslin Diabetes Center \$68,461
Joslin Diabetes Center
 Sven-Erik Bursell John A. Burns School of Medicine
 Provide oversight and facilitation of Joslin Vision Network's eye care deployment, clinical program implementation, and integration of new technologies into the program; continue leadership role in the management and development of a new model for Quality Assurance for the Indian Health Services for their JVN eye care program.

Mainland- Non-Profit Organizations

Alzheimer's Drug Discovery Foundation \$15,000
New Methods to Explore Marine Resources for Alzheimers Disease Drug Leads
 Philip Williams Department of Chemistry
 Development of an Alzhiemer's screening assay.

American Health Assistance Foundation \$18,132
Beta Amyloid Regulation of Presynaptic Nicotinic Current
 Robert Nichols Department of Cell and Molecular Biology
 This research study is aimed at uncovering the function of beta amyloid, a small peptide that is one of the major pathological elements in Alzheimer's disease, in disrupting nerve cell communication in the brain. One identified target for beta amyloid - nicotine receptors - offers potential for novel drug therapy in treating the disease.

Casey Family Programs \$19,555
Rapid Assessment Instrument Pilot Program
 Laurie Arial Tochiki William Richardson School of Law
 Perform legal research including data collection from the Rapid Assessment Instrument Pilot Programs on Maui, Coy, and Oahu to reduce the number of children in out-of-home placements.

International Game Fish Association \$10,000
Population Interconnectedness and Biodiversity of Pacific Fish
 Stephen Anthony Karl Hawaii Institute of Marine Biology
 Assay genetic differences within and among various reef fish species in the Pacific.

National Aeronautics and Space Administration

National Aeronautics & Space Administration \$224,877
Large Scale and Fine Scale Density Structures of the Quiescent and Dynamic Solar Corona
 Shadia R Habbal Institute for Astronomy
 We propose to apply a new image processing technique to a wide range of images of the corona during solar maximum.

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Research

National Aeronautics and Space Administration

The goal is to achieve a better understanding of the magnetic features defining the corona, in particular their quiescent and dynamic behavior, and their subsequent impact of the solar wind.

National Aeronautics & Space Administration	\$400,000
<u>Water and Habitable Worlds</u>	
Karen J Meech	Institute for Astronomy
This project will trace the history of water from its formation in the interstellar medium to incorporation in the solar system, how it reaches the terrestrial planets, and its role in life.	
National Aeronautics & Space Administration	\$75,000
<u>Mineralogy, Petrology, and Isotope Chemistry of the Metal-Rich CH and CB Carbonaceous Chondrites</u>	
Alexander N Krot	Hawaii Institute of Geophysics and Planetology
Mineralogical, petrographic, and isotopic studies of chondrules, refractory inclusions, and metal grains from the metal-rich CH and CB carbonaceous chondrites using scanning electron microscopy, electron probe microanalysis, secondary ion mass spectrometry, Raman spectroscopy and other analytical techniques.	
National Aeronautics & Space Administration	\$118,015
<u>NASA Roses-2005 NRA Living with a Star</u>	
Iliia I Roussev	Institute for Astronomy
This proposal is to study the shock acceleration of solar energetic particles, and their transport, coupled to the dynamics of coronal mass ejections driven shock wave of the sun. The goal is to develop a self-consistent model which integrates the best theories developed for every aspect of the solar particle production and transport.	
National Aeronautics & Space Administration	\$1,103,000
<u>Data-Intensive Research and Model Development at the International Pacific Research Center (IPRC)</u>	
Kevin P Hamilton	School of Ocean and Earth Science and Technology
To enhance the research conducted at the IPRC to study the Pacific climate variability and processes, Pacific Ocean circulation and its roles in climate and Asian-Australian monsoon system (A-AMS).	
National Aeronautics & Space Administration	\$220,000
<u>Microbeam Investigations of the Raw Materials, Processes, and Chronology of the Early Solar System</u>	
Gary Robert Huss	Hawaii Institute of Geophysics and Planetology
I will use the University of Hawaii Cameca ims 1280 ion microprobe to study the origin of the solar system through measurements of the isotopic compositions of meteorites and interplanetary dust particles. I will investigate the raw materials, the processes and the timing of events in the early solar system.	
National Aeronautics & Space Administration	\$55,000
<u>Constraints on the Origin of Primitive Chondrite Components from their Oxygen Isotope Compositions</u>	
Kazuhide Nagashima	Hawaii Institute of Geophysics and Planetology
In order to constrain the origin of primitive chondrite components, we propose to study oxygen isotopic compositions of several chondritic components.	
National Aeronautics & Space Administration	\$62,000
<u>Nature of Oxygen Isotopic Exchange in Refractory Inclusions</u>	
Alexander N Krot	Hawaii Institute of Geophysics and Planetology
Studies isotopic composition of materials.	

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Research

National Aeronautics and Space Administration

National Aeronautics & Space Administration \$152,343
CME Structure, Evolution and Interaction with the Ambient Corona
 Shadia R Habbal Institute for Astronomy
 The program will demonstrate the role of solar magnetic field and their impact on the Earth's environment.

National Science Foundation

National Science Foundation \$13,800
An Experimental Test of the Impacts of Rising Temperature on Carbon Input, Allocation, and Loss in Model Forests
 Creighton Litton Department of Natural Resources and Environmental Management
 We propose to examine how temperature and stand developmental phase interact to impact: (i) forest ecosystem carbon allocation (fluxes of carbon into and out of forest ecosystems, and how carbon is partitioned within the ecosystem); and (ii) the partitioning of belowground carbon flux.

National Science Foundation \$149,997
IRES: U.S.-Germany Collaborative Research and Education on Riverbank Filtration Systems for Drinking Water Supply
 Chittaranjan Ray Department of Civil and Environmental Engineering
 Four students will travel with the the PI to Germany to conduct research on the performance of riverbank filtrations systems for water supply.

National Science Foundation \$380,846
Collaborative Research: Net Carbon Transport and Reaction in the Bottom Boundary Layer of an Upwelling Margin
 David Ho Department of Oceanography
 We will examine carbon cycling in an upwelling coastal margins of Oregon, with particular focus on physical transport and chemical reaction in the bottom boundary layer.

National Science Foundation \$82,999
The Response of the Marine Osmium Isotope Record to Impact Events
 Gregory E. Ravizza Department of Geology and Geophysics
 This proposal seeks support to continue work on the marine Os isotope record. In this cycle we are concentrating our efforts on establishing the utility of Os isotopes and platinum group element ratios for recognizing large impact events in the geologic record and estimating their size.

National Science Foundation \$12,500
U.S.-Egypt Cooperative Research: Miniaturization for Broadband Chip Size Antennas Using EBG Techniques for Wireless Communications and Biomedical Applications
 Magdy F. Iskander Hawaii Center for Advanced Communications
 This is a supplemental proposal that will support two undergraduate students working on this project. The two students will be involved for both the simulation and experimental verification work.

National Science Foundation \$296,379
Development of Sequential Injection Analysis (SIA) Techniques for Trace Element Determinations in Oceanography
 Christopher Measures Department of Oceanography
 This proposal seeks funds to develop new instrumental chemical methods that will allow the measurement of very

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Research

National Science Foundation

low levels of iron and zinc in ocean waters. When fully developed these instruments could be deployed in moorings in the ocean where they would work automatically for extended periods of time.

National Science Foundation \$929,362

Food Chain Magnification of Marine Toxins

Henry Trapido-Rosenthal Department of Oceanography

The proposed work will examine the biological magnification of neurotoxins in the flora and fauna of Hawaii's coral reefs.

US Colleges and Universities

Broad Institute of MIT and Harvard \$25,000

Preparation of Type II diabetes Case-Control Samples in the Multiethnic cohort Study

Loic Le Marchand Cancer Research Center

This project proposes sample preparation of over 14,000 specimens from type II diabetes cases and controls in the Multiethnic cohort Study that will be utilized in a genome-wide scan of type II diabetes.

Charles R. Drew University \$352,654

RCMI Translational Research Network (RTRN)

Richard Yanagihara John A. Burns School of Medicine

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

Drexel University \$49,552

Subaward to the Drexel University NSF Proposal Entitled 'The Pacific Atmospheric Sulfur Experiment'

Byron W Blomquist Department of Oceanography

Through this subaward, UH (Byron Blomquist) will prepare, install, and operate 3 mass spectrometer systems on the NCAR C-130 research aircraft during the 2007 PASE field deployment. Following the field phase, the PI will also be responsible for data workup leading to a budget analysis of atmospheric boundary layer sulfur chemistry.

University of Alaska \$73,386

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

Milton A Garces Hawaii Institute of Geophysics and Planetology

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

University of Arizona \$3,000

Participation in Gamma Ray Spectrometer Mission

Peter A.J. Englert Hawaii Institute of Geophysics and Planetology

Peter Englert will provide the lead effort in completing thin target irradiations with energetic neutrons and protons.

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US Colleges and Universities

University of Pittsburgh	\$200,685
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University of Pittsburgh Medical Center Diabetes Program

Sven-Erik Bursell

John A. Burns School of Medicine

Planning and proposal for research and development towards the development of a portable retinal imaging system and real time informatics system to provide automated decision support for diagnosis and appropriate eye care.

University of Southern California	\$50,000
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Expert Judgment Elicitation Methods

Stephen C Hora

College of Business and Econ-UHH

University of Washington	\$29,792
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Development of Molecular Adjuvants for Therapeutic HIV-1 Vaccines

Qigui Yu

Department of Medicine

To determine whether a heterologous DNA prime-ALVAC boost vaccine approach with the addition of CD40 ligand as a molecular adjuvant in both the prime and boost phases of vaccination can improve HIN-1-specific cellular and humoral immune responses to HIV vaccine immunization in the absence of CD4 T cell help in a CD4 T cell-depleted mouse model.

University of Washington	\$30,000
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Coastal Margin Observation and Prediction: Supporting Activities at the University of Hawaii

Bruce M Howe

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.

University of Washington	\$34,000
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A Smart Sensor Web for Ocean Observation: Supporting Activities at the University of Hawaii

Bruce M Howe

Department of Ocean and Resources Engineering

For the NASA-funded Sensor Web project, Bruce Howe will assist APL-UW in the Monterey Bay 08 Experiment design and data analysis, interpretation and publication of the results.

Vanderbilt University	\$57,376
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Urinary Phytoestrogens and Heart Disease Risk in Chinese Women

Adrian A H Franke

Cancer Research Center

To measure urinary isoflavonoids and creatine in human urine.

Subcount:	90	Subtotal:	\$10,721,838
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Gifts, Grants, and Contracts for March 2009

Non-Research

DHHS-Dept of Health and Human Services

National Institute of Diabetes and Digestive and Kidney Diseases/NIH/DHHS \$178,901

High School Students Step Up to Biomedical Research

George S N Hui

Dept of Trop Med, Medical Microbiology and Pharmacology

Provide biomedical research training for high school students of ethnic minority and economically disadvantaged background.

National Institutes of Health/DHHS \$49,646

Origins of Neuronal Patterning in Animal Development - NRSA Fellow M. Layden

Mark Q. Martindale

Pacific Biosciences Research Center

The work will be aimed at understanding the development of the nervous system including the brain, spinal cord and sensory systems. Because many neurological disorders result from developmental defects, by understanding neural development knowledge gained can be used to develop treatments for neurological disorders.

DOD-Department of Defense

Office of Naval Research \$600,000

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

Alexander N Shor

School of Ocean and Earth Science and Technology

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

Office of Naval Research \$403,802

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

Alexander N Shor

School of Ocean and Earth Science and Technology

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

Office of Naval Research \$1,700,396

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

Alexander N Shor

School of Ocean and Earth Science and Technology

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

Office of Naval Research \$500,000

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

Alexander N Shor

School of Ocean and Earth Science and Technology

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

Office of Naval Research \$196,431

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

Alexander N Shor

School of Ocean and Earth Science and Technology

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

Gifts, Grants, and Contracts for March 2009

Non-Research

Federal Agencies

Corporation for National and Community Service \$6,000
HIPICC VISTA Project

Atina T Pascua Vice President for Student Affairs

This VISTA proposal will meet the needs of low income communities in Hawaii and the Pacific Island Territories of American Samoa, Guam, and the Commonwealth of the Northern Marianas (CNMI). The VISTA positions will help to develop programs that will help with literacy and economic revitalization.

National Geospatial-Intelligence Agency \$52,061
Photogrammetric Neutrino Detection

John G Learned Department of Physics and Astronomy

Purpose of work is to aid in the development of a numerical simulation of the geopositioning data, and innovative ways to support registration, exploitation & mensuration from a variety of source.

Foreign

Government of American Samoa \$185,930
Provide Technical Assistance for the Division of Special Education

Robert A Stodden Center on Disability Studies

Provide a variety of services and activities related to the development and delivery of University of Hawaii special education course work specifically designed for special education teachers to obtain their B.Ed in elementary education with a certification in special education.

Government of American Samoa \$912,615
American Samoa Territorial Training Assistance Project - 2008

Jamie Simpson-Steele College of Education

To provide a Bachelor of Education degree and teacher certification to upgrade the skills of in service teachers in American Samoa.

Guam Department of Public Health & Social Services \$25,000
Pacific Regional Comprehensive Cancer Control Implementation Program (Subcontract from Guam DPHSS)

Lee Buenconsejo-Lum 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.

Kurdistan Regional Government \$1,393,043
Hawaii-Iraq Partnership for Revitalizing Kurdistan Agricultural Higher Education and Development (KAHEAD)

Samir Aly El-Swaify Department of Natural Resources and Environmental Management

Revitalize agricultural higher education in Kurdistan (Northern Iraq).

Gifts, Grants, and Contracts for March 2009

Non-Research

Foundations

Max Kade Foundation, Inc. \$49,000
Towards the Total Synthesis of Nakadomarin A - Postdoc - D. Rosenbeiger
 Marcus A Tius Department of Chemistry
 The project is to modify methodology developed in the PI's research group, and to apply it to the synthesis of a marine natural product that has tumor inhibitory activity.

Hawaii- Business and Other

Alu Like \$17,396
Fisheries Observer Training Program FOTP 7
 Cynthia L. Hunter Marine Option Program
 Conduct training for Alu Like students in fisheries observation methods.

Research Corp, University of Hawaii \$5,000
Triple Helix Online Community Support
 Daniel D Suthers Department of Information and Computer Sciences
 Provide software development, hosting and support for Triple Helix online community.

Hawaii- Government Agencies

City and County of Honolulu \$93,000
Team PLUS: On-Premise Alcohol Sales Survey
 Cheryl L. Albright Cancer Research Center
 This contract is to conduct a survey to determine the rate of alcohol sales to underage youth who order alcohol in on-premise locations on Oahu (e.g. restaurants, bars, and clubs).

City and County of Honolulu \$75,000
Team PLUS: On-Premise Alcohol Sales Survey
 Cheryl L. Albright Cancer Research Center
 This contract is to conduct a survey to determine the rate of alcohol sales to underage youth who order alcohol in on-premise locations on Oahu (e.g. restaurants, bars, and clubs).

City and County of Honolulu \$5,000
2009 Manoa Jazz Festival
 Timothy Roy Slaughter Outreach Community Programs
 Outreach College, Community Service Division will be presenting a two day festival featuring jazz music from out-of-state artists, local artists and local high school ensembles. Performance are open to the general public with reasonably priced general admission and discounted tickets.

County of Kauai \$70,000
Support and Expertise Services on Shoreline Issues: Kauai County Coastal Land Use Extension Project
 Darren K Okimoto Sea Grant College Program
 The main goals of this project are to preserve coastal resources, to reduce the damage caused by coastal hazards, and to enhance shoreline processes education in Kauai County, by providing relevant expertise to Planning officials and other stakeholders.

Gifts, Grants, and Contracts for March 2009

Non-Research

Hawaii- Government Agencies

Hawaii Tourism Authority	\$40,000
<u>Kukulu Ola 2009 HTA Living Hawaiian Culture Program: Supervising with Aloha</u>	
Dennis Kawaharada	Chancellor, Kapiolani Community College
Develop and deliver a course to train visitor industry supervisors/managers to supervise their staff with Aloha, which will enable staff members to offer their guests/visitors customer service with Aloha.	
Hawaii-Dept of Education	\$310,415
<u>DOE Career Opportunities Program</u>	
M Bernadette Howard	Chancellor, Honolulu Community College
Provide education and training opportunities for Department of Education students who are at risk of dropping out of school due to multiple course failures, personal & emotional problems and absenteeism.	
Hawaii-Dept of Education	\$8,800
<u>Provision of Professional Development in Mathematics</u>	
Melfried Olson	Curriculum Research and Development Group
To provide professional development to utilize standards-based curriculum, instruction and assessment, and to increase teacher and student proficiency in mathematics.	
Hawaii-Dept of Health	\$85,000
<u>Hawaii School Health Surveys</u>	
Susan M Saka	Curriculum Research and Development Group
In cooperation with the Hawaii School Health Surveys Committee composed of representatives from the Departments of Education and Health and University of Hawaii, coordinate the administration of the health surveys, administer the 2007 Youth Risk Behavior Surveys (YRBS) and Youth Tobacco Surveys, and prepare reports of the YRBS results.	
Hawaii-Dept of Health	\$4,900
<u>School Based Influenza Vaccination Program Memorandum of Agreement</u>	
Kristine Qureshi	School of Nursing and Dental Hygiene
School Based Influenza Vaccination Program.	
Hawaii-Dept of Health	\$8,000
<u>Early Childhood Comprehensive Systems (ECCS) Website</u>	
Sylvia H L Yuen	Center on the Family
Design, develop a website for the ECCS project; finalize ECCS documents to be posted on Center on the Family's (COF) website; host ECCS website on COF website.	
Hawaii-Dept of Health	\$486,450
<u>Hawaii Health Data Warehouse</u>	
Jason E. Maddock	Cancer Research Center
Maintain the operation of the HHDW with the addition of new licenses, data sets, hardware (Servers), new reports and expand technical training. Enhance the functionality of the warehouse and website.	
Hawaii-Dept of Human Services	\$75,000
<u>Nutrition Consultation and Review</u>	
Naomi A Kanehiro	CTAHR Cooperative Extension Service
The goal of this project is to promote and support quality nutrition services provided by licensed child care providers and thereby contribute to the health and safety of the children enrolled.	

Gifts, Grants, and Contracts for March 2009

Non-Research

Hawaii- Government Agencies

Hawaii-Executive Office on Aging	\$20,000
<u>HAP-EE Evaluation Year 3</u>	
Kathryn L Braun	Department of Public Health Sciences and Epidemiology
To evaluate the EOA's Healthy Aging Program, as outlined in the federal grant proposal.	

Hawaii- Health Organizations

Community Clinic of Maui, Inc.	\$24,660
<u>Lease of Mobile Dental Van to Community Clinic of Maui</u>	
Nancy K Johnson	Chancellor, Maui Community College
Lease Mobile Dental Van to Community Clinic of Maui. Community will utilize van 4 days per week, MCC will utilize van 1 day per week. Van will serve as clinical site for dental assistant and dental hygiene students. General dental care will be provided for uninsured and medicaid patients.	

Hilo Medical Center	\$85,883
<u>Hawaii Rural Interdisciplinary Training Project</u>	
Victoria Niederhauser	School of Nursing and Dental Hygiene
Provide Nurse Practitioners to set-up and work in an interdisciplinary rural health clinic in Hilo.	

Straub Clinic & Hospital	\$21,981
<u>UHM Advanced Athletic Training Graduate Assistantship Program - Straub Hospital</u>	
Iris F Kimura	Kinesiology and Leisure Science Department
Advanced education and research internship experience: A Board of Certification Athletic Trainers will participate in clinical and research experiences in order to enhance the educational and research application of athletic training/sports medicine practice.	

Straub Clinic & Hospital	\$22,858
<u>UHM Advanced Athletic Training Graduate Assistantship Program - Straub Hospital</u>	
Iris F Kimura	Kinesiology and Leisure Science Department
Advanced education and research internship experience: A Board of Certification Athletic Trainers will participate in clinical and research experiences in order to enhance the educational and research application of athletic training/sports medicine practice.	

Hawaii- Non-Profit Organizations

Hawaii Community Foundation	\$20,000
<u>Youth Opportunities Initiative Readiness Assessment</u>	
Ivette Stern	College of Tropical Agriculture and Human Resources
Convene, manage, and facilitate a Community Infrastructure Committee to address the potential for implementing the Jim Casey Youth Opportunities Initiative in Hawaii, and conduct an environmental scan to address readiness for this initiative.	

Tri-Isle Resource Conservation & Development Council	\$496,000
<u>Support for the Maui County Invasive Species Committee Project: Miconia Containment</u>	
David C Duffy	Department of Botany

Gifts, Grants, and Contracts for March 2009

Non-Research

Hawaii- Non-Profit Organizations

Prevent, control and eradicate the most serious invasive species threats in the county of Maui, focusing heavily on *Miconia calvescens*.

University of Hawaii Foundation <u>Contemporary Challenges in Microbial Oceanography</u> David M Karl Department of Oceanography To train the next generation of scientists in the discipline of microbial oceanography.	\$337,750
University of Hawaii Foundation <u>College of Engineering Service Award</u> Song K Choi College of Engineering Funds in this grant will be used to provide the College of Engineering's service winner with a monetary award.	\$1,000
University of Hawaii Foundation <u>The Florence Macaulay Lecture</u> Edward J Shultz School of Pacific and Asian Studies To fund the Florence Macaulay lectures in Asian and Pacific Studies.	\$3,500
University of Hawaii Foundation <u>Marine & Coastal Resource Project</u> E Gordon Grau Sea Grant College Program Promote community-based awareness and management of marine and coastal resources in West Hawaii.	\$29,700
University of Hawaii Foundation <u>P3: Capturing the Momentum 2009</u> April Housman Ka Haka'Ula O Ke'Elilikolani-UHH	\$251,082

Mainland- Business and Other

Aerodyne Research, Inc. <u>Support for Signature Exploitation Haleakala Experiment</u> Daniel Ogara Institute for Astronomy Provide logistical and material support for the staff related to Signature Exploitation Haleakala Experiment for 14 days.	\$7,000
Anheuser-Busch Companies, Inc <u>Expanding the Manoa Alcohol Project</u> Nancy A. Stockert Vice Chancellor for Student Affairs The project will continue and expand the present Manoa Alcohol Project, to provide alcohol prevention programming for undergraduates at UH - Manoa, primarily using a social norms approach.	\$60,000

Gifts, Grants, and Contracts for March 2009

Non-Research

Mainland- Business and Other

Center for Public Service Communications	\$41,650
<u>National Library of Medicine Trip Facilitation and Coordination Support</u>	
Marjorie K H Mau	Department of Native Hawaiian Health
The Department of Native Hawaiian Health will facilitate and coordinate a visit by the US National Library of Medicine, for its research for use in the planned NLM Exhibition on "Native Concepts of Health and Illness".	
National Writing Project	\$30,000
<u>Lehua Writing Project</u>	
Jeannine Hirtle	Chancellor, University of Hawaii at Hilo-UHH
Create a UHH satellite of the Hawaii Writing Project	
Smithsonian Astrophysical Observatory	\$326
<u>The Most Obscured Super-Massive Black Holes - Fellow E. Treister</u>	
David Bruce Sanders	Institute for Astronomy
Provide post-doctoral support for Dr. Treister.	
Smithsonian Astrophysical Observatory	\$107,529
<u>The Most Obscured Super-Massive Black Holes - Fellow E. Treister</u>	
David Bruce Sanders	Institute for Astronomy
Provide post-doctoral support for Dr. Treister.	

Mainland- Non-Profit Organizations

Casey (Annie E.) Foundation	\$75,000
<u>2008 Hawaii Kids Count Plan Guidelines</u>	
Sylvia H L Yuen	Center on the Family
Hawaii Kids Count's objective is to improve the well-being of Hawaii's children and families by increasing public awareness of their conditions and serving as a catalyst for positive action on their behalf. Activities include maintaining a database of child and family indicators, tracking indicators over time, and writing/disseminating reports on critical issues.	
New England Foundation for the Arts	\$2,000
<u>Rubberbandance Group</u>	
Joseph S Patti	Chancellor, Leeward Community College
Present performance and workshop with Rubberbandance Group.	

National Science Foundation

National Science Foundation	\$125,000
<u>Solar and Space Science Development at the Institute for Astronomy</u>	
Jeffrey R. Kuhn	Institute for Astronomy
We are requesting funds to rebuild the solar and space physics program at the Institute for Astronomy. The tenure track faculty member that will be recruited using these funds will teach, conduct research, mentor graduate students, and visit and speak at undergraduate universities to encourage students to pursue graduate studies.	

Gifts, Grants, and Contracts for March 2009

Non-Research

National Science Foundation

National Science Foundation	\$250,000
<u>Hawaiian Values Science and Technology, Phase II</u>	
Sonia P Juvik	Social Sciences-UHH - Division Office

US Colleges and Universities

Gallaudet University	\$33,085
<u>Gallaudet University Regional Center: Hawai'i and Pacific Rim</u>	
Louise Pagotto	Chancellor, Kapiolani Community College
To provide educational and other support services to the deaf and hard-of-hearing, their families, and the professionals who work with them in Hawai'i and the Pacific Islands.	

University of Nebraska Medical Center	\$20,140
<u>Assessment of Learning with the Mobile Telementoring Intubating Video Laryngoscope (MTIVL) in Endotracheal Intubation Training</u>	
Benjamin W Berg	John A. Burns School of Medicine
Serve as research coordinator; assist in project management, research data collection, Institutional Review Board (IRB) approvals, and preparation of scientific reports, presentations, and manuscripts.	

University of Notre Dame	\$1,400
<u>QuarkNet</u>	
Michael D Jones	Department of Physics and Astronomy
This project involves high school teachers using cosmic ray detectors as a way to introduce particle physics concepts in their teaching.	

Subcount:	53		Subtotal:	\$9,604,330
Count:	<u>143</u>		Total:	<u>\$20,326,168</u>

Funds Received from UH Foundation for 03/01/2009 - 03/31/2009

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation	\$1,000
"College of Engineering Service Award"	
Choi, Song K	College of Engineering
Funds in this grant will be used to provide the College of Engineering's service winner with a monetary award.	

University of Hawaii Foundation	\$29,700
"Marine & Coastal Resource Project"	
Grau, E Gordon	Sea Grant College Program
Promote community-based awareness and management of marine and coastal resources in West Hawaii.	

University of Hawaii Foundation	\$251,082
"P3: Capturing the Momentum 2009"	
Housman, April	Ka Haka'Ula O Ke'Elilikani-UHH

University of Hawaii Foundation	\$337,750
"Contemporary Challenges in Microbial Oceanography"	
Karl, David M	Department of Oceanography
To train the next generation of scientists in the discipline of microbial oceanography.	

University of Hawaii Foundation	\$3,500
"The Florence Macaulay Lecture"	
Shultz, Edward J	School of Pacific and Asian Studies
To fund the Florence Macaulay lectures in Asian and Pacific Studies.	

Count: 5

Total: \$623,032

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

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	1	\$5,003	0.05%
DHHS-Dept of Health and Human Services	10	\$2,327,604	21.71%
DOC-Dept of Commerce	3	\$159,614	1.49%
DOD-Department of Defense	6	\$473,374	4.42%
DOE-Dept of Energy	1	\$230,000	2.15%
DOI-Dept of Interior	2	\$14,739	0.14%
Hawaii- Business and Other	5	\$325,941	3.04%
Hawaii- Government Agencies	11	\$778,736	7.26%
Hawaii- Health Organizations	5	\$146,580	1.37%
Hawaii- Non-Profit Organizations	1	\$60,000	0.56%
Mainland- Business and Other	13	\$887,536	8.28%
Mainland- Health Organizations	1	\$68,461	0.64%
Mainland- Non-Profit Organizations	4	\$62,687	0.58%
National Aeronautics and Space Administration	9	\$2,410,235	22.48%
National Science Foundation	7	\$1,865,883	17.40%
US Colleges and Universities	11	\$905,445	8.44%
Total:	<u>90</u>	<u>\$10,721,838</u>	<u>100%</u>

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

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DHHS-Dept of Health and Human Services	2	\$228,547	2.38%
DOD-Department of Defense	5	\$3,400,629	35.41%
Federal Agencies	2	\$58,061	0.60%
Foreign	4	\$2,516,588	26.20%
Foundations	1	\$49,000	0.51%
Hawaii- Business and Other	2	\$22,396	0.23%
Hawaii- Government Agencies	13	\$1,281,565	13.34%
Hawaii- Health Organizations	4	\$155,382	1.62%
Hawaii- Non-Profit Organizations	7	\$1,139,032	11.86%
Mainland- Business and Other	6	\$246,505	2.57%
Mainland- Non-Profit Organizations	2	\$77,000	0.80%
National Science Foundation	2	\$375,000	3.90%
US Colleges and Universities	3	\$54,625	0.57%
Total:	<u>53</u>	<u>\$9,604,330</u>	<u>100%</u>

**Extramural Research Awards
Year to Date: 07/01/08 - 03/31/09
Distribution by Sponsors**

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	62	\$6,803,699	3.52%
DHHS-Dept of Health and Human Services	79	\$45,058,323	23.28%
DOC-Dept of Commerce	52	\$19,666,661	10.16%
DOD-Department of Defense	64	\$29,763,921	15.38%
DOE-Dept of Energy	16	\$7,805,725	4.03%
DOI-Dept of Interior	35	\$2,703,328	1.40%
Federal Agencies	5	\$2,431,879	1.26%
Foreign	12	\$3,371,585	1.74%
Hawaii- Business and Other	32	\$4,035,065	2.09%
Hawaii- Government Agencies	119	\$15,930,918	8.23%
Hawaii- Health Organizations	19	\$1,197,404	0.62%
Hawaii- Non-Profit Organizations	45	\$2,347,896	1.21%
Mainland- Business and Other	80	\$10,614,344	5.48%
Mainland- Health Organizations	9	\$541,039	0.28%
Mainland- Non-Profit Organizations	20	\$1,265,338	0.65%
Miscellaneous	2	\$102,891	0.05%
National Aeronautics and Space Administration	59	\$13,796,632	7.13%
National Science Foundation	82	\$21,213,107	10.96%
US Colleges and Universities	56	\$4,868,302	2.52%
Total:	<u>848</u>	<u>\$193,518,057</u>	<u>100%</u>

Extramural Non-Research Awards
Year to Date: 07/01/08 - 03/31/09
Distribution by Sponsors

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	16	\$4,237,277	3.68%
DHHS-Dept of Health and Human Services	30	\$8,381,577	7.27%
DOC-Dept of Commerce	11	\$1,502,530	1.30%
DOD-Department of Defense	18	\$6,368,363	5.53%
DOI-Dept of Interior	29	\$1,746,864	1.52%
ED-Dept of Education	68	\$27,744,169	24.07%
Federal Agencies	21	\$4,956,568	4.30%
Foreign	20	\$5,417,838	4.70%
Foundations	1	\$49,000	0.04%
Hawaii- Business and Other	49	\$7,035,507	6.10%
Hawaii- Government Agencies	150	\$23,840,500	20.69%
Hawaii- Health Organizations	35	\$6,751,969	5.86%
Hawaii- Non-Profit Organizations	76	\$4,854,666	4.21%
Mainland- Business and Other	15	\$778,812	0.68%
Mainland- Health Organizations	2	\$12,000	0.01%
Mainland- Non-Profit Organizations	17	\$457,478	0.40%
Miscellaneous	2	\$4,800	0.00%
National Aeronautics and Space Administration	6	\$2,045,005	1.77%
National Science Foundation	14	\$5,994,561	5.20%
US Colleges and Universities	31	\$3,063,500	2.66%
Total:	<u>611</u>	<u>\$115,242,984</u>	<u>100%</u>