

## Gifts, Grants, and Contracts for April 2009

The following gifts, grants and contracts received by all campuses during the period April 1, 2009 through April 30, 2009 total \$25,544,856.

This report is also available for viewing at: [http://www.hawaii.edu/ors/Board\\_Reports.htm](http://www.hawaii.edu/ors/Board_Reports.htm)

### Research

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

National Cancer Institute/NIH/DHHS \$100,000

Hawaii Minority-Based CCOP

Jonathan Cho Cancer Research Center

If this supplemental funding is awarded, an additional clinical research associate will be hired to serve the neighbor islands of Hawaii, Maui and Kauai for oncology clinical trial screening and enrollment, trial treatment coordination with clinics and physicians, data management, and community outreach programs.

National Cancer Institute/NIH/DHHS \$857,678

Diet and Duration of Cervical HPV Infection

Marc T Goodman Cancer Research Center

This study aims to identify factors that influence the persistence or resolution of human papillomavirus (HPV) of the uterine cervix.

National Institute of Child Health and Human Development/NIH/DHHS \$173,000

Minimum Y Gene Complement Necessary for Successful ART

Monika Anna Ward Dept Anatomy, Biochemistry, Physiology and Reproductive Biol

The primary goal of this application is to use intracytoplasmic sperm (ICSI) and other assisted reproduction techniques (ART) to define the minimum Y gene requirement during spermatogenesis that is compatible with the generation of ART-competent sperm.

National Institute on Aging/NIH/DHHS \$17,171

Beta Amyloid and Presynaptic Nicotinic Receptors

Robert Nichols Department of Cell and Molecular Biology

This renewal application seeks funding for investigation of the targets in brain for beta amyloid, one of the major pathological entities that accumulates over the course of Alzheimer's disease. Specifically, nicotinic receptors present on nerve endings will be studied as putative target in a nerve cell culture system.

National Institute on Drug Abuse/NIH/DHHS \$171,917

Neurodevelopment of Methamphetamine Exposure of Children

Donald C Derauf Department of Pediatrics

The mentored patient oriented research career development award will allow Dr. Derauf protected time and support to develop the expertise needed to transition his career from one primarily focused on clinical service, teaching and administration to one focused on independent research and clinical program development.

National Institutes of Health/DHHS \$346,000

The Genetic Control of Social Behavior

Robert J Blanchard Pacific Biosciences Research Center

Autism spectrum disorder involves multiple deficits in social behavior and interaction. The current research will use novel behavioral tests to evaluate the role of specific genes in these behaviors.

National Institutes of Health/DHHS \$230,388

HIV-1 Proviral DNA and Monocyte Phenotype in Relation to Neurocognitive Function

Bruce T Shiramizu Department of Pediatrics

The grant application is a supplement to a funded R01 grant application that will collaborate with investigators at University of Puerto Rico-Medical Science Campus in studying neurocognitive problems in Hispanic women; in response to NIH NOT-NS-08-006.

## Gifts, Grants, and Contracts for April 2009

### Research

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

National Institutes of Health/DHHS \$76,750

Migration of Polyomavirus JC Across the Blood-Brain-Barrier

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

The objective of the proposed research is to further develop an in-vitro BBB model, and to demonstrate and identify cellular and molecular mechanisms underlying migration of JCV-infected B cells across the BBB.

#### DOC-Dept of Commerce

National Oceanic & Atmospheric Administration/Department of Commerce \$113,647

Development of an Extended and Long-range Precipitation Prediction System over the Pacific Islands

H Annamalai Joint Institute for Marine and Atmospheric Research

To develop and transition a dynamical precipitation prediction system for the U.S. Affiliated Pacific Islands.

National Oceanic & Atmospheric Administration/Department of Commerce \$129,705

Quantifying Air-Sea Gas Exchange at High Wind Speeds Using a Dual Gas Tracer (3He/SF6) Technique during the Southern Ocean Gas Exchange Experiment

David Ho Department of Oceanography

Air-sea gas transfer velocities will be quantified during the Southern Ocean Gas Exchange Experiment.

#### DOD-Department of Defense

Air Force Office of Scientific Research \$125,575

Untangling the Energetics and Dynamics of Elementary Atomic Boron Reactions

Ralf Ingo Kaiser Department of Chemistry

To find out how atomic boron react with molecules relevant to combustion and CVD processes.

DOD-U.S. Army Medical Research & Materiel Command \$500,000

Hawaii Comprehensive Heart Center

Dale S Vincent John A. Burns School of Medicine

The follow proposal has two major focus areas: 1. The development of the Hawaii Comprehensive Heart Center (HCHC) with implementation of the Comprehensive Disease Management Program (CDMP) software for the HCHC. 2. Conduct stem cell research for treatment of CHF.

Department of the Air Force \$50,000

AEOS Faint-Object Adaptive Corrector (AFOAC)

Mark R Chun Institute for Astronomy

This proposal is to supply a complete natural guide star adaptive optics system based on curvature wavefront sensing for the Air Force Maui Optical and Supercomputing Site's telescope is revised to include an initial phase to obtain on-sky measurements using the existing IFA adaptive optics system (Hokupaa-85).

Department of the Navy \$980,334

Standoff IED Detection

Shiv K Sharma Applied Research Laboratory

Develop detector technologies to defeat IEDs.

## Gifts, Grants, and Contracts for April 2009

### Research

#### DOD-Department of Defense

Office of Naval Research	\$115,000
<u>Radar Remote Sensing of the Mesoscale Flow Through Straits of the Philippines Archipelago</u>	
Pierre J Flament	Department of Oceanography
Deployment of high frequency radars to measure surface currents in the straits of the Philippines as part of a large coordinated ONR experiment.	
Office of Naval Research	\$494,208
<u>Hawaii Energy and Environmental Technologies (HEET) Initiative</u>	
Richard E Rocheleau	Hawaii Natural Energy Institute
Conduct research on development and testing of fuel cells and exploration and characterization of methane hydrates.	
Office of Naval Research	\$3,248,620
<u>Hawaii Energy and Environmental Technologies (HEET) Initiative</u>	
Richard E Rocheleau	Hawaii Natural Energy Institute
Conduct research on development and testing of fuel cells and exploration and characterization of methane hydrates.	
Office of Naval Research	\$1,557,172
<u>Hawaii Energy and Environmental Technologies (HEET) Initiative</u>	
Richard E Rocheleau	Hawaii Natural Energy Institute
Conduct research on development and testing of fuel cells and exploration and characterization of methane hydrates.	

#### DOI-Dept of Interior

U.S. Geological Survey/Department of the Interior	\$92,335
<u>Water Resources Research Institute Annual Base Program 2009</u>	
James E Moncur	Water Resources Research Center
Summary of 6 USGS WRRIP 2009 Proposals	

### Foreign

International Association of Oil & Gas Producers	\$311,331
<u>Remote Monitoring of Cetacean Populations Using Seafloor Mounted Acoustic Recorders and Software for Acoustic Species Identification</u>	
Whitlow W L Au	Hawaii Institute of Marine Biology
Deploy autonomous acoustic recorders to measure marine mammal sounds and to apply special software to identify species producing sounds	

#### Hawaii- Business and Other

Archinoetics, LLC	\$50,000
<u>Evaluation of Microwave Measurement System for Ambulatory Physiological Monitoring</u>	
Magdy F. Iskander	Hawaii Center for Advanced Communications
Archionetics, LLC will evaluate HCAC's microwave measurement systems for potential to measure further physiological parameters such as cardiac output/stroke volume, blood pressure, heart and respiration rate, and possible application in ambulatory monitoring environments.	

## Gifts, Grants, and Contracts for April 2009

### Research

#### Hawaii- Business and Other

East West Center \$142,778

The Expansion of Rubber and its Implications for Water and Carbon Dynamics in Montane Mainland Southeast Asia

Thomas W Giambelluca Department of Geography

Using field measurements and model simulations, we will investigate how the expansion of rubber cultivation in the Montane Mainland Southeast Asia alters carbon and water dynamics of the region.

Pipeline Micro, Inc. \$45,000

Development of a Portable and Multifunctional Surface Tensiometer

Yi Zuo College of Engineering

The objective of this project is to develop a dual-use, versatile and portable surface tensiometer that is capable of determining both surface tension and contact angle, with ease and uncompromised accuracy.

Research Corp, University of Hawaii \$291,690

REAL: Hawaii Youth Movement Against Tobacco Use

Alana D Steffen Cancer Research Center

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

Sopogy, Inc \$48,000

Solar Energy Driven Humidification-Dehumidification (HDH) Seawater Desalination Systems

Weilin Qu Department of Mechanical Engineering

Design, construct, and test a laboratory-scale testing system of humidification-dehumidification (HDH) seawater desalination system driven by solar energy to produce fresh water from seawater.

TeraSys Technologies LLC \$35,500

Autonomously Steered Antenna Arrays for Aerial-Based Search-And-Rescue Applications

Wayne Akira Shiroma Department of Electrical Engineering

Feasibility study and design of a self-steering antenna array for aerial-based search-and-rescue applications. The technology is applicable to an airborne platform that requires the ability to autonomously locate and communicate with a desired target (i.e., lost/stranded hiker).

#### Hawaii- Government Agencies

City and County of Honolulu \$24,999

Evaluating Beach Hazards based on Physical Conditions Coupled with Beach User Trends at Velzeyland, Kalama Beach Park, and Sandy Beach Park

Charles H Fletcher Department of Geology and Geophysics

Study the physical and human aspects of beach safety so as to provide information regarding the high risk areas of a beach and the predictability of the high risk areas based on weather/surf conditions and population variables.

DLNR-Division of Aquatic Resources \$40,874

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

Brian R Bowen Hawaii Institute of Marine Biology

Sequence DNA from fishes on the deep and shallow reefs of Hawaii.

## Gifts, Grants, and Contracts for April 2009

### Research

#### Hawaii- Government Agencies

Hawaii-Dept of Agriculture	\$9,000
<u>Review of Registration Documents of Selected Pesticide for use in Hawaii</u>	
Chittaranjan Ray	Water Resources Research Center
Review of registration documents for new pesticides for use in Hawaii.	
Hawaii-Dept of Attorney General	\$42,731
<u>Comparative Measurements of Public In-State versus Private Out-of-State Imprisonment for Hawaii's Inmate Population</u>	
David T Johnson	Department of Sociology
This study will primarily be a records-based comparison of recidivism rates and other salient factors for Hawaii inmates released to parole from privately run mainland correctional facilities and similar public, in state facilities.	
Hawaii-Dept of Health	\$24,000
<u>Youth at Risk for Schizophrenia: Training Care Coordinators and Increasing Knowledge Towards Identification and Treatment</u>	
Jason E. Schiffman	Department of Psychology
This project has two major goals (1) training CAMHD Care Coordinators in early identification & intervention of schizophrenia-related disorders in youth at elevated risk for schizophrenia, & (2) increasing the understanding of characteristics (symptoms, functioning, quality of life) of youth at elevated risk for schizophrenia.	
Hawaii-Dept of Health	\$80,528
<u>Preventing Recurrent Falls in Elderly: A Multidisciplinary Intervention Study</u>	
Danny M Takanishi	Department of Surgery
The goal of this project is to determine if a multidisciplinary fall prevention program can decrease the number of recurrent falls in elderly patients who are treated at the Queen's Medical Center Emergency Dept. due to a fall.	
Hawaii-Dept of Human Services	\$181,807
<u>Money Follow the Person - Going Home Plus</u>	
Rebecca S Ozaki	Center on Disability Studies
Community planning to implement the going home plus grant.	
Hawaii-Dept of Land & Natural Resources	\$120,736
<u>Statewide Plant Conservation Program</u>	
Clifford W Morden	Department of Botany
Conduct research in support of native plant restoration projects, including the development of recovery strategies and collaboration with various conservation groups.	
Hawaii-Dept of Land & Natural Resources	\$15,000
<u>Research to Improve Estimates of Game Harvests and Hunting Participation in the State of Hawai`i Year 2</u>	
Chris Lepczyk	Department of Natural Resources and Environmental Management
The objectives of this study are to: 1) Determine problems and costs associated with improving the accuracy of game harvest estimates and hunter recreation in Hawai`i; 2) (ii) Devise strategies that reduce differences between the number of hunters and the number of hunting licenses purchases; and, 3) (iii) Test data gathering procedures to determine accuracy of estimates.	

## Gifts, Grants, and Contracts for April 2009

### Research

#### Hawaii- Government Agencies

Hawaii-Dept of Land & Natural Resources \$100,000  
Lana'ihale Forest and Watershed Project - 2008  
 David C Duffy Department of Botany  
 Research and monitor endangered seabirds, focusing on habitat restoration in Lanaihale.

#### Hawaii- Health Organizations

Kuakini Medical Center \$60,947  
Epidemiology of Brain Aging the Very Old  
 Marianne Tanabe Department of Geriatric Medicine  
 Sub-award between UH-JABSOM & Kuakini Medical Center for faculty to conduct neurological examinations, including proxy interviews. Also dictate cases, attend consensus diagnosis conferences, and take part in some analysis of data.

Kuakini Medical Center \$11,706  
Epidemiology of Aging and Dementia Autopsy Research  
 Jane H Uyehara-Lock Department of Pathology  
 To provide pathology services and analysis of autopsy results as part of the ongoing Honolulu Asia Aging Study. This award is a subcontract from Kuakini Medical Center to the University of Hawaii.

University Clinical, Education & Research Assoc. (UCERA) \$105,559  
UCERA-SimCenter 2 (SimCenter Hawaii: Virtual Reality Applications for Health Care Education and Training)  
 Benjamin W Berg John A. Burns School of Medicine  
 Support for virtual reality development, application, and measurement.

#### Hawaii- Non-Profit Organizations

HCF-Leahi Trust \$60,000  
Mesothelioma Prevention and Early-Detection Studies  
 Haining Yang Cancer Research Center  
 Asbestos is one of the major environmental concerns especially in Hawaii. Asbestos is the main cause of mesothelioma and it has synergistic effect with cigarette smoking in causing lung cancer. My research is aimed at identifying novel preventive approaches and early detection strategies for asbestos-related thoracic malignancies, especially mesothelioma.

Partners in Development \$17,801  
Parenting Classes  
 Judith Miller Department of Nursing  
 A Series of 12 parenting classes will be designed and presented to the adult participants of the transitional housing shelter. Curriculum evaluation will be completed.

## Gifts, Grants, and Contracts for April 2009

### Research

#### Hawaii- Non-Profit Organizations

Tri-Isle Resource Conservation & Development Council	\$68,000
<u>East Maui Watershed Protection</u>	
Clifford W Morden	Department of Botany
Control and reduce invasive species in protected areas in the East maui Watershed and record data to track the effectiveness of control techniques.	
University of Hawaii Foundation	\$95,670
<u>The Hawaii Initiative for Childhood Obesity Research and Education</u>	
Raul C Rudoy	Department of Pediatrics
HICORE's mission is to provide leadership of a collaborative, multi-disciplinary effort in research and education on childhood/adolescent obesity in Hawaii. This effort will bring together individuals, community, and organizations in Hawaii, to understand and address the childhood obesity epidemic in Hawaii especially the most vulnerable of Hawaii's children and families.	

#### Mainland- Business and Other

Booz, Allen & Hamilton Inc	\$180,000
<u>Pacific and Hawaii Catastrophic Hurricane Readiness Response Planning</u>	
Kwok Fai Cheung	Department of Ocean and Resources Engineering
Develop hurricane inundation limits for Honolulu and Pearl Harbor using high resolution 2D models.	
Cellana LLC	\$417,571
<u>High Throughput Screening (HTS) of Algal Strains for Optimal Biomass and Lipid Production</u>	
Zackary I Johnson	Department of Oceanography
High Throughput Screening of preselected algal strains for commercial lipid production	
Concurrent Technologies Corporation	\$601,194
<u>Hawaii Underwater Chemical Munitions Survey Plan</u>	
Vassilis L Syrmos	Vice Chancellor for Research and Graduate Education
To survey the Hawaiian Waters for Chemical Munitions.	
Jet Propulsion Lab	\$35,529
<u>GASPS: Gas in Protoplanetary Systems</u>	
Jonathan P. Williams	Institute for Astronomy
We will use the unique capabilities of the Herschel satellite to observe far-infrared spectral lines from atomic and molecular gas in protoplanetary systems. Our international team will carry out the first extensive and systematic survey of gas in the planet forming regions of circumstellar disks around over 250 stars with ages from 1 to 30 Myr.	
Jet Propulsion Lab	\$13,942
<u>Dust, Ice, and Gas in Time (DIGIT)</u>	
Lucas Cieza	Institute for Astronomy
Dr. Lucas Cieza will be responsible for the data reduction and analysis of the PACS and SPIRE point-source photometry of weak-line T Tauri Stars and transition objects.	

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

### Research

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

Jet Propulsion Lab	\$10,000
<u>A Herschel Survey of Molecular Lines in (U)LIRGS</u>	
David Bruce Sanders	Institute for Astronomy
Dr. Sanders and the graduate student will provide analysis and interpretation of data obtained from the present key project, in the context of the large database already assembled on the (U)LIRGs in the RBGS.	
Jet Propulsion Lab	\$7,135
<u>The Great Observatories Origins Deep Survey: Imaging with Herschel</u>	
Glenn Morrison	Institute for Astronomy
Participate as Co-I on a team of investigators to analyze, interpret and publish data obtained from the Herschel Space Observatory Cycle-0 for the Great Observatories Origins Deep Survey project. If approved, funding will be awarded via a sub-award issued directly to the University of Hawaii.	
Smithsonian Astrophysical Observatory	\$28,281
<u>MACSJ1147.3-1252: An Extremely X-ray Luminous Cluster at z=0.58?</u>	
Harald Ebeling	Institute for Astronomy
Chandra space telescope's superb angular resolution will allow us to determine the cluster luminosity and to evaluate its importance for cosmological and cluster evolution studies for possible deeper observations in cycle 11.	
Smithsonian Astrophysical Observatory	\$39,629
<u>The Distribution and Interaction of Luminous and Dark Matter in Strong-Lensing Clusters at z&gt;0.3</u>	
Harald Ebeling	Institute for Astronomy
We propose observations of 11 very x-ray luminous clusters that exhibit striking gravitational arcs in existing images, enabling us to accurately measure the dark-matter distribution in the cluster cores.	
Smithsonian Astrophysical Observatory	\$13,210
<u>The Distribution and Interaction of Luminous and Dark Matter in Strong-Lensing Clusters at z&gt;0.3</u>	
Harald Ebeling	Institute for Astronomy
We propose observations of 11 very x-ray luminous clusters that exhibit striking gravitational arcs in existing images, enabling us to accurately measure the dark-matter distribution in the cluster cores.	
Southwest Research Institute	\$30,828
<u>JUNO Science Support Phase B/C/D Activities</u>	
Tobias Owen	Institute for Astronomy
Dr. Owen will provide guidance and review of all Education and Public Outreach activities. He will also assist in analysis, modeling and interpretation of models of Jupiter formation.	

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

Casey Family Programs	\$33,009
<u>Rapid Assessment Instrument Pilot Program 2</u>	
Laurie Ariel Tochiki	William Richardson School of Law
Perform legal research including data collection from the Rapid Assessment Instrument Pilot Programs on Maui, Kauai, Hawaii, and Oahu to reduce the number of children in out-of-home placements.	





## Gifts, Grants, and Contracts for April 2009

### Research

#### Mainland- Non-Profit Organizations

Sloan (Alfred P.) Foundation \$90,843

CeDAMarSynthesis Phase Renewal Proposal (2009-2010)

Craig R Smith Department of Oceanography

The project involves coordination, synthesis and outreach for the international field program Census of the Diversity of Abyssal Marine Life (CeDAMar). We are documenting the biodiversity of the ocean's vast abyssal plains to provide a baseline for evaluating human impacts, and to elucidate the historical causes and ecological factors regulating global biodiversity.

Sloan (Alfred P.) Foundation \$275,990

CeDAMar Synthesis Phase Renewal Proposal

Craig R Smith Department of Oceanography

Documentation of the biodiversity of the ocean's abyssal plains to provide baseline for evaluating human impacts & elucidate the historical causes and ecological factors regulating global biodiversity

#### National Aeronautics and Space Administration

National Aeronautics & Space Administration \$123,948

Scalable Algorithms for Fast Analysis of Megapixel CMB Maps and Large Astronomical Databases

Istvan Szapudi Institute for Astronomy

We propose to develop a novel set of algorithms for spatial statistical analyses of present and future large astronomical data bases.

National Aeronautics & Space Administration \$105,000

Origin, Thermal History, and Impact Record of Meteorites and their Parent Asteroids

Edward R D Scott Hawaii Institute of Geophysics and Planetology

We propose to elucidate the origin of meteorite parent bodies and their impact and thermal histories through detailed mineralogical, chemical and isotopic studies and numerical simulations of accretion in the asteroid belt.

National Aeronautics & Space Administration \$79,713

Studying Complex Ejecta at L1 Using Realistic Models of CME Evolution and Interplanetary Magnetic Field

Noe Lugaz Institute for Astronomy

We propose to investigate the evolution of Coronal Mass Ejection (CME) into a interplanetary magnetic field (IMF), and the interaction of multiple CMEs from the Sun. By modeling the IMF from the Sun to L1, we will provide

National Aeronautics & Space Administration \$125,000

Meteorite and Dynamical Constraints on Planetary Accretion and the Impact History and Formation of Asteroids

Edward R D Scott Hawaii Institute of Geophysics and Planetology

Our objective is to elucidate the origin of asteroids and planets by relating the properties of meteorites to predictions from theoretical studies of planet formation.

National Aeronautics & Space Administration \$100,000

Eclipse Observations of Heavy Ions, Neutral and Dust Grains in the Solar Corona

Shadia R Habbal Institute for Astronomy

Observations of the total solar eclipses in 2008, 2009, and 2010 will study the coronal magnetic field and the underlying physical processes shaping the solar corona. The resulting data should provide powerful diagnostic tools for exploring the physics of the corona and the acceleration region of the solar wind.

## Gifts, Grants, and Contracts for April 2009

### Research

#### National Aeronautics and Space Administration

National Aeronautics & Space Administration \$77,000  
Corundum and Corundum-Hibonite Solar-System Condensates as Probes of Isotopic Evolution of the Inner Solar Nebula  
 Alexander N Krot Hawaii Institute of Geophysics and Planetology  
 Mineralogical and isotopic studies of the very refractory gas-solid condensates of the early Solar System; astrophysical, thermodynamic and experimental modeling of isotopic evolution of the early Solar System.

#### National Science Foundation

National Science Foundation \$12,492  
DISSERTATION RESEARCH: The Evolution of the Locomotor System in Phrynosomatid Lizards  
 Marguerite Butler Department of Zoology  
 The purpose of this project is to determine how behavior influences the evolution of morphology and physiology in the locomotor system of lizards. This study will provide vital information regarding the evolution of whole biological systems.

National Science Foundation \$71,972  
Collaborative Research: Rapid Response to a Submarine Eruption at W. Mata Volcano  
 Kenneth H Rubin Department of Geology and Geophysics  
 This project will fund shipboard and shore-based research on two submarine volcanic eruptions in the Lau basin, south of Samoa.

National Science Foundation \$279,817  
Collaborative Research: Wind, Waves, Rain and their Effects on Air-Water Gas and Momentum Exchanges  
 David Ho Department of Oceanography  
 The effect of rain and wind on air-water gas exchange will be investigated at University of Delaware's Air-Sea Interaction Laboratory.

National Science Foundation \$97,869  
Collaborative Research: Larva-Environment Interactions: How Settlement of Marine Larvae Depends on their Responses to Varying Water Flow and Surfaces  
 Michael G Hadfield Pacific Biosciences Research Center  
 This project will work towards deepening the understanding of the mechanisms (behavioral, structural and developmental) employed by larvae of marine invertebrate animals. We anticipate significant advancement in understanding how minute larvae succeed in finding small, scattered and specific sites in turbulently flowing

National Science Foundation \$12,253  
Binding in Adult and Child Thai  
 Kamil Ud Deen Department of Linguistics  
 This proposal is to conduct six experiments in Bangkok, Thailand on 80 children aged 3-7 yrs, testing for knowledge of two supposedly universal principles of language called the Binding Conditions.

National Science Foundation \$134,433  
Study of Processes Leading to Tropical Cyclone Structure and Intensity Changes  
 Yuqing Wang Department of Meteorology  
 Comprehensive study on processes that can lead to considerable tropical cyclone structure and intensity changes with idealized numerical experiments and diagnostic analysis.

## Gifts, Grants, and Contracts for April 2009

### Research

#### National Science Foundation

National Science Foundation \$36,797

An Investigation of Patterns of Deep-Sea Demersal Fish Metabolism and Feeding Rates

Jeffrey C Drazen Department of Oceanography

We propose to investigate metabolism of deep-sea fishes off the coast of California to determine depth related trends and adaptations to their environment.

National Science Foundation \$5,435

A Multidisciplinary Approach to Species Boundaries in Tropical Reef Corals

David Bovard Carlon Department of Zoology

An ecological, morphological, and molecular analyses of the processes that determine biological boundaries in stony coral species of the tropical Atlantic. Molecular analyses will be conducted at the UH Manoa campus. Ecological field work will be based at the Smithsonian Tropical Research Institute, Panama. Additional field trips to Costa Rica and Brazil.

National Science Foundation \$327,483

Collaborative Research: Geodynamic Solutions for Seismic Observations of Iceland Hotspot-Ridge Interaction

Garrett Apuzen-Ito Department of Geology and Geophysics

This study will use detections of seismic waves that pass through the mantle beneath Iceland along with numerical models to study how the mantle is convecting and generating magma beneath the Iceland hotspot. The study is important in understanding how hotspot islands like Iceland form and how the Earth transports heat and mass

National Science Foundation \$80,180

Collaborative Research: Social and Economic Differentiation in Hongshan Core Zone Communities

Christian E Peterson Department of Anthropology

This research will determine the spatial and demographic size of Hongshan period core zone communities, their degree of centralization and central place nucleation, whether inter-household productive differentiation and variation in standard of living was greater than in peripheral communities, and how strongly ritual specialists were offset from other community members.

#### US Colleges and Universities

California State University, Long Beach Foundation \$5,788

Investigations into the Biology of Cookie Cutter Sharks in Hawaii

Jeffrey C Drazen Department of Oceanography

We will use conventional fishing practices to capture sharks at night around Oahu, tag them, and study their movements in the wild.

Colorado School of Mines \$62,787

Renewable Bio-solar Hydrogen Production from Robust Oxygenic Phototrophs

Susan L. Brown Hawaii Institute of Marine Biology

To perform studies that will produce new methods for optimizing the yield of photosynthetic H<sub>2</sub> and will identify new wild strains and engineer new hybrid strains of photosynthetic microorganisms capable of more efficient and more economical H<sub>2</sub> production as a renewable fuel source derived from water.

## Gifts, Grants, and Contracts for April 2009

### Research

#### US Colleges and Universities

Columbia University	\$113,202
<u>Collaborative Research: Global Ocean Repeat Hydrography, Carbon, and Tracer Measurements, 2009-2014</u>	
David Ho	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.	
Northeastern University	\$60,000
<u>Cannabinergic Ligands and Drugs</u>	
Marcus A Tius	Department of Chemistry
The research is a collaborative effort in which my group is responsible for the preparation of a series of small molecules to be evaluated for various pharmacological properties.	
Nova Southeastern University	\$140,000
<u>Hawaii Coral Reef Initiative: Place-Based Projects</u>	
Michael P Hamnett	Social Science Research Institute
HCRI proposes to focus on specific place-based programs which serve to integrate science, management and stakeholder participation to develop and implement appropriate policies and actions. Two ecosystems are being targeted, one on Oahu and one on Maui, based on a combination of community leadership, ecological characteristics and socio-economic considerations.	
Stanford University	\$45,000
<u>Institute for Astronomy Support for the SDO/HMI Investigation</u>	
Jeffrey R. Kuhn	Institute for Astronomy
As part of a team headed by Stanford University, the Institute for Astronomy will work on the Helioseismic and Magnetic Imager data analysis methodology and coding to produce high level data needed for photometry and astrometry research.	
University of Alaska	\$24,462
<u>Operational Support of Infrasound Station I59US of the International Monitoring System (IMS)</u>	
Milton A Garces	Hawaii Institute of Geophysics and Planetology
Operate, maintain and upgrade/sustain the I59 infrasound site in Hawaii.	
University of Alaska	\$80,850
<u>Operational Support of Infrasound Station I59US of the International Monitoring System (IMS)</u>	
Milton A Garces	Hawaii Institute of Geophysics and Planetology
Operate, maintain and upgrade/sustain the I59 infrasound site in Hawaii.	
University of Arizona	\$20,000
<u>Interpretation of Mars Odyssey GRS Data</u>	
G Jeffrey Taylor	Hawaii Institute of Geophysics and Planetology
This project uses data from the Gamma-Ray spectrometer onboard the Mars Odyssey spacecraft to understand how the crust of Mars formed and to determine the bulk chemical composition of the planet.	
University of California, Berkeley	\$205,530
<u>Collaborative Research with the SuperNova Integral Field Spectrograph (SNIFS) and the University of Hawaii 2.2 Meter Telescope</u>	
Colin Aspin	Institute for Astronomy



## Gifts, Grants, and Contracts for April 2009

### Non-Research

#### DA-Dept of Agriculture

Department of Agriculture	\$450,477
<u>Telemedicine/Distance Learning Grant 2008</u>	
Norman H Okamura	Social Science Research Institute
Establishing a distance learning and telemedicine network using High Definition Video Teleconferencing.	

#### DOD-Department of Defense

Department of the Navy	\$850,000
<u>Waianae Ordnance Reef Remedial Investigation Project</u>	
Eric H DeCarlo	Applied Research Laboratory
To assess water quality and sediment composition in the study area to determine the potential effects of WWII discarded munitions (DMM) deposited off the Waianae Ordnance Reef, Oahu, Hawaii.	

Department of the Navy	\$5,000
<u>Update Facilities Plan</u>	
Daniel M. Ishii	Applied Research Laboratory
Update facilities plan for ARL at UH.	

U.S. Coast Guard	\$2,400
<u>Sustainable Saunders Coast Guard Internship Spring 2009</u>	
David C Nixon	Social Science Research Institute
Perform a comprehensive four week waste assessment and create a report of recommendations for the US Coast Guard's refuse contract that will reduce costs and manages the waste stream.	

#### DOI-Dept of Interior

Department of Interior	\$10,463
<u>University of Hawaii Participation in Vietnam PEPFAR</u>	
Cecilia M Shikuma	Department of Medicine
Train Vietnamese military physicians in medical management of HIV infected patients, assist in development of in-country HIV/AIDS treatment and care.	

#### Federal Agencies

Corporation for National and Community Service	\$20,000
<u>The Health Disparities Service-Learning Collaborative Program</u>	
Valerie Yontz	Office of Public Health Studies
This grant will enhance service-learning to address health disparities in the Department of Public Health Sciences.	

Department of Labor	\$1,485,540
<u>Ulu Pono-To Grow Well, Progress, Thrive and Succeed 2008</u>	
Leon Richards	Chancellor, Kapiolani Community College
Expand the recruitment and training of students from three community schools for adults, health care centers, and the Hawaii Technology Institute to enter Kapiolani Community College's health care programs.	

## Gifts, Grants, and Contracts for April 2009

### Non-Research

#### Foreign

<p>Commonwealth of Northern Mariana Islands  <u>Pacific Regional Comprehensive Cancer Control Implementation Program (Subcontract From CNMI DPH)</u>          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.</p>	<p>\$25,000</p>
<p>Inha University  <u>Conference on the Law of the Sea</u>          Jon M Van Dyke                      William Richardson School of Law          Organize and execute the fourth Inha University Law of the Sea Institute Meeting on Law of the Sea to be held on Aug 27-28, 2009 at the William S. Richardson School of Law, University of Hawaii at Manoa</p>	<p>\$60,000</p>
<p>Northeast Asian History Foundation  <u>Annexation of Korea</u>          Edward J Shultz                      School of Pacific and Asian Studies          This is a workshop that looks into Japan's annexation of Korea. It will bring scholars from three different countries representing primarily the disciplines of history and law.</p>	<p>\$11,743</p>
<p>University of the Ryukyus  <u>University of the Ryukyus School of Law Study Tour</u>          Spencer Kimura                      William Richardson School of Law          Conduct legal training and education courses for the University of the Ryukyus graduate students and faculty.</p>	<p>\$12,396</p>

#### Hawaii- Business and Other

<p>Bishop Museum  <u>ECHO 6</u>          Rose Tseng                      Chancellor, University of Hawaii at Hilo-UHH          Develop and produce narration for the Imiloa Astronomy Education Center audio tours.</p>	<p>\$57,750</p>
<p>Kolohala Holdings LLP  <u>Hawaii Hydrogen Power Park-Phase 2 State Matching Funds</u>          Richard E Rocheleau                      Hawaii Natural Energy Institute          Provides cost share funding in support of the "Hawaii Hydrogen Power Park - Technology Validation of a Hydrogen Fueling Station" contract that UH received from the Department of Energy via the State DBEDT office.</p>	<p>\$1,200,000</p>
<p>Maui County Community Television, Inc  <u>MCC-TV Educational Access Television</u>          Clyde M Sakamoto                      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.</p>	<p>\$69,512</p>



## Gifts, Grants, and Contracts for April 2009

### Non-Research

#### Hawaii- Business and Other

Olelo Community Television	\$59,533
<u>University of Hawaii - Supplemental Projects 2007</u>	
Hae K Okimoto	Information Technology Services
Produce courses and programs for the public access channel, Oceanic 55.	

#### Hawaii- Government Agencies

County of Hawaii	\$10,000
<u>Merrie Monarch Festival 2009</u>	
Rose Tseng	Chancellor, University of Hawaii at Hilo-UHH
Hosting of 8 culturally-significant events supporting the Merrie Monarch Hula Festival	

County of Hawaii	\$10,000
<u>Hilo Bay Festival</u>	
Rose Tseng	Chancellor, University of Hawaii at Hilo-UHH
Hosting a 6 day festival celebrating the Polynesian Voyaging renaissance	

DOH-Child & Adolescent Mental Health Division (CAMHD)	\$153,016
<u>Student Internship - Project Hi'ilei FY08-09</u>	
Paula T Morelli	School of Social Work
Continuation of MSW practicum training for students working in the area of child and adolescent mental health.	

Hawaii-Dept of Business & Economic Development	\$20,000
<u>Proposal for Seed Funding to Develop a Sustainable Infrastructure</u>	
Rosita Ping-Hwa Chang	Department of Financial Economics and Institutions
Develop a sustainable infrastructure plan for the China-Hawaii Education Exchange Program.	

Hawaii-Dept of Education	\$215,606
<u>A Proposal for Training and Service to the Department of Education</u>	
Charles Mueller	Department of Psychology
To provide assessment and behavioral health services to Hawaii Department of Education in the context of graduate training in the Department of Psychology.	

Hawaii-Dept of Education	\$47,200
<u>Math Science Partnership (MSP) Program Cohort VI</u>	
Luke Paul Flynn	Hawaii Institute of Geophysics and Planetology
The Hawaii Space Grant Consortium will be a partner to assist Stevenson Middle School to provide support and services outlines in the statement of work. Our support will be to enhance professional development skills to increase subject matter knowledge and teaching skills for math and science teachers.	

## Gifts, Grants, and Contracts for April 2009

### Non-Research

#### Hawaii- Government Agencies

Hawaii-Dept of Health	\$110,000
<u>Title X Family Planning Services</u>	
Lily Ning	Health and Wellness
To provide Family Planning services and supplies to women and men of reproductive age within the Leeward Community College community, with a focus on low income and hard-to-reach individuals.	
Hawaii-Dept of Health	\$20,000
<u>State of Hawaii Department of Health Memorandum of Agreement</u>	
Kristine Qureshi	School of Nursing and Dental Hygiene
Contractor shall provide support services to establish and implement a framework for an active Medical Reserve Corps on each of the four counties in the State of Hawaii: Oahu, Hawaii, Maui and Kauai.	
Hawaii-Dept of Health	\$486,498
<u>Adult Residency Contract, ASO Log No. 06-140</u>	
Courtenay Matsu	Department of Psychiatry
Provide training and administrative support services to psychiatric residents and fellows at various sites for the Department of Health, Adult Mental Health division as outlined in the scope of services in the contract.	
Hawaii-Dept of Health	\$207,795
<u>EMS Planning and Development of Distant Learning on Maui, Kauai and Hawaii</u>	
Edward J Kalinowski	Chancellor, Kapiolani Community College
Purchase equipment and supplies to support EMS education on Maui, Kauai and Hawaii and to fund an instructor on Kauai.	
Hawaii-Dept of Health	\$187,493
<u>Adult Clinical and Admin Services ASO Log No. 06-139</u>	
Courtenay Matsu	Department of Psychiatry
Provide psychiatric services and consultation to the Department of Health, Adult Mental Health division as outlined in the scope of services in the contract.	
Hawaii-Dept of Human Services	\$433,696
<u>Work Force Development/Training Required to Increase Rural Behavioral Health Access and Promote Efficiency/Effectiveness of Hawaii's Medicaid Program</u>	
Iwalani R N Else	Department of Psychiatry
The University's project staff will train future psychiatrists to use telemedicine technology, allowing their service to go beyond their home office of clinic. This will improve access to behavioral health care for Medicaid-funded child, adult, and geriatric behavioral health services in two sites on the Island of Hawaii.	
Hawaii-Dept of Land & Natural Resources	\$5,000
<u>PCSU Firefighting Support in Conservation Research Areas</u>	
David C Duffy	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-Dept of Land & Natural Resources	\$67,000
<u>Kaena Point Ecosystem Restoration Project (Kaena Point Natural Area Reserve and Kaena Point State Park, Oahu)</u>	
David C Duffy	Department of Botany
Protect and manage natural and cultural resources at Kaena Point through resource protection and monitoring, interaction with public, and other activities.	

## Gifts, Grants, and Contracts for April 2009

### Non-Research

#### Hawaii- Government Agencies

Hawaii-Dept of Land & Natural Resources	\$64,800
<u>Plant Restoration and Enhancement - Olinda</u>	
Kenneth Y Kaneshiro	Pacific Biosciences Research Center
Provide services for ex situ propagation and maintenance of critically endangered Hawaiian plant species at Olinda Rare Plant Facility.	
Hawaii-Office of Hawaiian Affairs	\$30,000
<u>GEAR UP Hawaii Community Partnership with the Office of Hawaiian Affairs (OHA)</u>	
Linda K Johnsrud	Vice President for Academic Planning and Policy
Promotion of GEAR UP Hawaii through in broadcasts, public service announcements, and promotional spots, as set forth in the attached public awareness campaign information.	
Hawaii-Office of Hawaiian Affairs	\$8,980
<u>Ka Waihona A Ke Aloha: Ua Ola I Ka Lima Kakoo</u>	
Robert K Lopes	Kawaihuelani Hawaiian Language Program
Ka Waihona A Ke Aloha is only as successful as its helpers. Ua Ola I Ka Lima Kako'o is the main focus of this request, and it reminds us today that "Life is productive and successful only through the labor of a supportive hand."	
Hawaii-Office of Hawaiian Affairs	\$10,000
<u>Improving Educational Access for Ni'ihau Residents</u>	
Helen A Cox	Chancellor, Kauai Community College
The proposal requests tuition, fees and supplied support for Ni'ihau residents pursuing higher education opportunities at Kauai Community College, in particular Ni'ihau residents seeking NCLB acceptable certification as educational aides and teachers.	
Hawaii-Office of Hawaiian Affairs	\$15,000
<u>MauiaKama</u>	
Kapaanaokaola Oliveira	Kawaihuelani Hawaiian Language Program
The purpose of MauiaKama is to create an educational setting that integrates traditional research practices along with outdoor experiential learning techniques focusing on the Hawaiian Language and traditional agricultural practices. College student and K-12 educators will gain valuable skills.	

#### Hawaii- Health Organizations

Waianae Coast Comprehensive Health Center	\$125,822
<u>Native Hawaiian Training - Health Administration, Nurse Aide, ARCH, Patient Care Tech and Phlebotomy</u>	
Michael Tagawa	Chancellor, Leeward Community College
Provide health administration and nurse aide, AH, patient care tech, and phlebotomy training incorporating Native Hawaiian learning styles.	
Waianae Coast Comprehensive Health Center	\$50,265
<u>Jobs to Careers: Promoting Work Based Learning for Quality Care</u>	
Michael Tagawa	Chancellor, Leeward Community College
Establish a work based learning program model, Credit Preceptor Model (CPM) for frontline health care workers.	

## Gifts, Grants, and Contracts for April 2009

### Non-Research

#### Hawaii- Non-Profit Organizations

University of Hawaii Foundation	\$3,000
<u>Manoa Journal</u>	
R F Stewart	Department of English
Funds for staff salaries and wages.	
University of Hawaii Foundation	\$33,450
<u>Le'a Publication Series</u>	
Jon K Matsuoka	School of Social Work
To hire an Operational Editor for the Le'a Publication Series to oversee the publication of a book and journal series.	
University of Hawaii Foundation	\$14,000
<u>KYA/Environmental Research &amp; Design Laboratory</u>	
Stephen E Meder	School of Architecture
The funds will be used to support the Environmental Research & Design Lab at the School of Architecture. Expenses will primarily be for the support of a research assistant.	
University of Hawaii Foundation	\$28,916
<u>Mansfield Freeman Research Assistants</u>	
Mary Elizabeth Tiles	Department of Philosophy
To pay for the salary & fringe for 2 graduate research assistants for the Philosophy Department.	
University of Hawaii Foundation	\$20,000
<u>Basic Institutional Needs</u>	
Ho-Min Sohn	Center for Korean Studies
Pay for student salaries.	
University of Hawaii Foundation	\$4,000
<u>Sen Soshitsu Students'/Staff Support</u>	
Robert N Huey	Center for Japanese Studies
To cover salary and fringe benefits - costs for students and staff support at the Center for Japanese Studies.	
University of Hawaii Foundation	\$26,538
<u>Sam &amp; Mary Castle P-3 Dir Salary</u>	
Linda K Johnsrud	Vice President for Academic Planning and Policy
To pay for P-3 Initiative Director's salary and fringe charges.	
University of Hawaii Foundation	\$500
<u>Center for Japanese Studies Educational Activities</u>	
Robert N Huey	Center for Japanese Studies
To fund salary overload to UH faculty and honorarium to invited guests participating in CJS sponsored educational activities.	

## Gifts, Grants, and Contracts for April 2009

### Non-Research

#### Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$965  
Grader Support  
 Wayne S Smith Department of Mathematics  
 Hire a grader to assist the Mathematics Department.

University of Hawaii Foundation \$500  
Journal of Chinese Philosophy Student Assistant  
 Chung-Ying Cheng Department of Philosophy  
 To pay for the salary & fringe for an hourly student assistant to copy-edit reviews in the Journal of Chinese Philosophy.

#### Mainland- Business and Other

Aerodyne Research, Inc. \$6,000  
Support for Signature Exploitation Haleakala Experiment  
 Daniel Ogara Institute for Astronomy  
 Provide logistical and material support for the staff related to Signature Exploitation Haleakala Experiment for 14 days.

Boeing Laser Technical Services \$50,000  
NFIRE Lasercom  
 Daniel Ogara Institute for Astronomy  
 Provide electrical and computer cables to Maui facility. Provide access to 2 technicians to Maui facility.

Cisco Learning Institute \$14,000  
Cisco Learning Institute  
 Wayne S Lewis Chancellor, Honolulu Community College  
 Cisco Learning Institute support of PCATT/Honolulu CC Cisco Academy.

#### Mainland- Health Organizations

American Heart Association \$24,772  
Ethnic Differences in Omega-3 Fatty Acids and Cardiovascular Mortality  
 Lynne R Wilkens Cancer Research Center  
 This research project is to use biostatistics and epidemiology approach to study the relationship of omega-3 fatty acids from eating fish and the chances of dying of heart disease based on the multiethnic cohort data collected by the Cancer Research Center of Hawaii.

American Heart Association \$24,772  
Effects of Non-Esterified Free Fatty Acids on Albumin Mediated Cholesterol Efflux  
 Chung-Eun Ha Department of Native Hawaiian Health  
 Human serum albumin is the principal free fatty acid transporter in serum. We propose to examine the effects of these free fatty acids on albumin mediated cholesterol efflux since previous studies have shown that cholesterol also binds to albumin. Our study would provide research data on how elevated free fatty acids affect albumin mediated cholesterol efflux rate.



## Gifts, Grants, and Contracts for April 2009

### Non-Research

#### US Colleges and Universities

Mississippi State University \$25,056

University of Hawaii Participation in MOS University Consortium PET Project

David K Lassner Information Technology Services

The University of Hawaii will support the MOS University Team with the Training Coordination of the DoD PET Program. It will also respond to requests for technical training support as requested.

University of California, San Francisco \$35,000

RWJF Executive Nurse Fellows Program

Victoria Niederhauser School of Nursing and Dental Hygiene

This is an application for the RWJ Executive Nurse Fellowship Program. Participating in the program would provide me with access to additional training and education in leadership and management, peer support from nurses who share common goals, and an opportunity to be mentored by a successful leader.

University of Colorado \$36,353

Native Elder Research Center Fellowship Program

Kaimi Sinclair Department of Native Hawaiian Health

The 2-year training fellowship requires travel 6 times per year to attend trainings at the University of Colorado Health Sciences Center with the goal of developing American Indian independent investigators. Trainings include statistics, writing NIH grant applications, study design, using bibliographic software, and mentoring by experienced investigators.

University of Massachusetts \$100,000

Consortium on Postsecondary Education for Students with Intellectual/Development Disabilities

Robert A Stodden Center on Disability Studies

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

<b>Subcount:</b>	<b>62</b>	<b>Subtotal:</b>	<b>\$9,099,846</b>
<b>Count:</b>	<b><u>159</u></b>	<b>Total:</b>	<b><u>\$25,544,856</u></b>

## Funds Received from UH Foundation for 04/01/2009 - 04/30/2009

### Non-Research

#### Hawaii- Non-Profit Organizations

University of Hawaii Foundation	\$500
"Journal of Chinese Philosophy Student Assistant"	
Cheng, Chung-Ying	Department of Philosophy
To pay for the salary & fringe for an hourly student assistant to copy-edit reviews in the Journal of Chinese Philosophy.	
University of Hawaii Foundation	\$4,000
"Sen Soshitsu Students'/Staff Support"	
Huey, Robert N	Center for Japanese Studies
To cover salary and fringe benefits - costs for students and staff support at the Center for Japanese Studies.	
University of Hawaii Foundation	\$500
"Center for Japanese Studies Educational Activities"	
Huey, Robert N	Center for Japanese Studies
To fund salary overload to UH faculty and honorarium to invited guests participating in CJS sponsored educational	
University of Hawaii Foundation	\$26,538
"Sam & Mary Castle P-3 Dir Salary"	
Johnsrud, Linda K	Vice President for Academic Planning and Policy
To pay for P-3 Initiative Director's salary and fringe charges.	
University of Hawaii Foundation	\$33,450
"Le'a Publication Series"	
Matsuoka, Jon K	School of Social Work
To hire an Operational Editor for the Le'a Publication Series to oversee the publication of a book and journal series.	
University of Hawaii Foundation	\$14,000
"KYA/Environmental Research & Design Laboratory"	
Meder, Stephen E	School of Architecture
The funds will be used to support the Environmental Research & Design Lab at the School of Architecture. Expenses will primarily be for the support of a research assistant.	
University of Hawaii Foundation	\$965
"Grader Support"	
Smith, Wayne S	Department of Mathematics
Hire a grader to assist the Mathematics Department.	
University of Hawaii Foundation	\$20,000
"Basic Institutional Needs"	
Sohn, Ho-Min	Center for Korean Studies
Pay for student salaries.	



## Funds Received from UH Foundation for 04/01/2009 - 04/30/2009

### Non-Research

#### Hawaii- Non-Profit Organizations

University of Hawaii Foundation	\$3,000
"Manoa Journal"	
Stewart, R F	Department of English
Funds for staff salaries and wages.	

University of Hawaii Foundation	\$28,916
"Mansfield Freeman Research Assistants"	
Tiles, Mary Elizabeth	Department of Philosophy
To pay for the salary & fringe for 2 graduate research assistants for the Philosophy Department.	

### Research

#### Hawaii- Non-Profit Organizations

University of Hawaii Foundation	\$95,670
"The Hawaii Initiative for Childhood Obesity Research and Education"	
Rudoy, Raul C	Department of Pediatrics
HICORE's mission is to provide leadership of a collaborative, multi-disciplinary effort in research and education on childhood/adolescent obesity in Hawaii. This effort will bring together individuals, community, and organizations in Hawaii, to understand and address the childhood obesity epidemic in Hawaii especially the most vulnerable of Hawaii's children and families.	

<b>Count:</b> <u>11</u>	<b>Total:</b> <u>\$227,539</u>
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**Extramural Research Awards  
for the Month of  
April 2009  
Distribution by Sponsors**

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DHHS-Dept of Health and Human Services	8	\$1,972,904	12.00%
DOC-Dept of Commerce	2	\$243,352	1.48%
DOD-Department of Defense	8	\$7,070,909	43.00%
DOI-Dept of Interior	1	\$92,335	0.56%
Foreign	1	\$311,331	1.89%
Hawaii- Business and Other	6	\$612,968	3.73%
Hawaii- Government Agencies	10	\$639,675	3.89%
Hawaii- Health Organizations	3	\$178,212	1.08%
Hawaii- Non-Profit Organizations	4	\$241,471	1.47%
Mainland- Business and Other	11	\$1,377,319	8.38%
Mainland- Non-Profit Organizations	10	\$1,110,818	6.75%
National Aeronautics and Space Administration	6	\$610,661	3.71%
National Science Foundation	10	\$1,058,731	6.44%
US Colleges and Universities	17	\$924,324	5.62%
<b>Total:</b>	<b><u>97</u></b>	<b><u>\$16,445,010</u></b>	<b><u>100%</u></b>

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

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DA-Dept of Agriculture	1	\$450,477	4.95%
DOD-Department of Defense	3	\$857,400	9.42%
DOI-Dept of Interior	1	\$10,463	0.11%
Federal Agencies	2	\$1,505,540	16.54%
Foreign	4	\$109,139	1.20%
Hawaii- Business and Other	4	\$1,386,795	15.24%
Hawaii- Government Agencies	19	\$2,102,084	23.10%
Hawaii- Health Organizations	2	\$176,087	1.94%
Hawaii- Non-Profit Organizations	10	\$131,869	1.45%
Mainland- Business and Other	3	\$70,000	0.77%
Mainland- Health Organizations	2	\$49,544	0.54%
Mainland- Non-Profit Organizations	3	\$1,422,781	15.64%
National Aeronautics and Space Administration	2	\$80,000	0.88%
National Science Foundation	2	\$551,258	6.06%
US Colleges and Universities	4	\$196,409	2.16%
<b>Total:</b>	<b><u>62</u></b>	<b><u>\$9,099,846</u></b>	<b><u>100%</u></b>

**Extramural Research Awards  
Year to Date: 07/01/08 - 04/30/09  
Distribution by Sponsors**

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DA-Dept of Agriculture	61	\$6,757,574	3.22%
DHHS-Dept of Health and Human Services	87	\$47,031,227	22.41%
DOC-Dept of Commerce	54	\$19,910,013	9.49%
DOD-Department of Defense	72	\$36,834,830	17.55%
DOE-Dept of Energy	16	\$7,805,725	3.72%
DOI-Dept of Interior	36	\$2,795,663	1.33%
Federal Agencies	4	\$2,086,602	0.99%
Foreign	13	\$3,682,916	1.75%
Hawaii- Business and Other	38	\$4,648,033	2.21%
Hawaii- Government Agencies	128	\$16,490,593	7.86%
Hawaii- Health Organizations	22	\$1,375,616	0.66%
Hawaii- Non-Profit Organizations	49	\$2,589,367	1.23%
Mainland- Business and Other	89	\$11,926,663	5.68%
Mainland- Health Organizations	9	\$541,039	0.26%
Mainland- Non-Profit Organizations	33	\$2,786,433	1.33%
Miscellaneous	2	\$102,891	0.05%
National Aeronautics and Space Administration	65	\$14,407,293	6.86%
National Science Foundation	91	\$22,265,838	10.61%
US Colleges and Universities	74	\$5,838,751	2.78%
<b>Total:</b>	<b><u>943</u></b>	<b><u>\$209,877,067</u></b>	<b><u>100%</u></b>

**Extramural Non-Research Awards  
Year to Date: 07/01/08 - 04/30/09  
Distribution by Sponsors**

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DA-Dept of Agriculture	16	\$4,662,754	3.75%
DHHS-Dept of Health and Human Services	29	\$8,295,577	6.67%
DOC-Dept of Commerce	11	\$1,502,530	1.21%
DOD-Department of Defense	18	\$5,641,384	4.53%
DOI-Dept of Interior	30	\$1,757,327	1.41%
ED-Dept of Education	68	\$27,744,169	22.30%
Federal Agencies	23	\$6,462,108	5.19%
Foreign	24	\$5,526,977	4.44%
Hawaii- Business and Other	53	\$8,422,302	6.77%
Hawaii- Government Agencies	171	\$26,108,584	20.98%
Hawaii- Health Organizations	37	\$6,928,056	5.57%
Hawaii- Non-Profit Organizations	86	\$4,986,535	4.01%
Mainland- Business and Other	18	\$848,812	0.68%
Mainland- Health Organizations	4	\$61,544	0.05%
Mainland- Non-Profit Organizations	24	\$3,513,638	2.82%
Miscellaneous	2	\$4,800	0.00%
National Aeronautics and Space Administration	8	\$2,125,005	1.71%
National Science Foundation	17	\$6,551,819	5.27%
US Colleges and Universities	36	\$3,284,909	2.64%
<b>Total:</b>	<b><u>675</u></b>	<b><u>\$124,428,830</u></b>	<b><u>100%</u></b>