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

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

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

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

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

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 & Material Command

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

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

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
Radar Remote Sensing of the Mesoscale Flow Through Straits of the Philippines Archipelago
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
Hawaii Energy and Environmental Technologies (HEET) Initiative
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
Hawaii Energy and Environmental Technologies (HEET) Initiative
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
Hawaii Energy and Environmental Technologies (HEET) Initiative
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
Water Resources Research Institute Annual Base Program 2009
James E Moncur Water Resources Research Center
Summary of 6 USGS WRRIP 2009 Proposals

Foreign

International Association of Oil & Gas Producers $311,331
Remote Monitoring of Cetacean Populations Using Seafloor Mounted Acoustic Recorders and Software for Acoustic Species Identification
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
Evaluation of Microwave Measurement System for Ambulatory Physiological Monitoring
Magdy F. Iskander Hawaii Center for Advanced Communications
Archinoetics, 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 Velzelay, 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

Review of Registration Documents of Selected Pesticide for use in Hawaii
Chittaranjan Ray
Water Resources Research Center
Review of registration documents for new pesticides for use in Hawaii.

Hawaii-Dept of Attorney General

Comparative Measurements of Public In-State versus Private Out-of-State Imprisonment for Hawaii's Inmate Population
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

Youth at Risk for Schizophrenia: Training Care Coordinators and Increasing Knowledge Towards Identification and Treatment
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

Preventing Recurrent Falls in Elderly: A Multidisciplinary Intervention Study
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

Money Follow the Person - Going Home Plus
Rebecca S Ozaki
Center on Disability Studies
Community planning to implement the going home plus grant.

Hawaii-Dept of Land & Natural Resources

Statewide Plant Conservation Program
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

Research to Improve Estimates of Game Harvests and Hunting Participation in the State of Hawai‘i Year 2
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
A-1 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

East Maui Watershed Protection

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

The Hawaii Initiative for Childhood Obesity Research and Education

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

Pacific and Hawaii Catastrophic Hurricane Readiness Response Planning

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

High Throughput Screening (HTS) of Algal Strains for Optimal Biomass and Lipid Production

Zackary I Johnson Department of Oceanography

High Throughput Screening of preselected algal strains for commercial lipid production

Concurrent Technologies Corporation

Hawaii Underwater Chemical Munitions Survey Plan

Vassilis L Syrmos Vice Chancellor for Research and Graduate Education

To survey the Hawaiian Waters for Chemical Munitions.

Jet Propulsion Lab

GASPS: Gas in Protoplanetary Systems

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

Dust, Ice, and Gas in Time (DIGIT)

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

<table>
<thead>
<tr>
<th>Organization/Project</th>
<th>Amount</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jet Propulsion Lab</td>
<td>$10,000</td>
<td>A Herschel Survey of Molecular Lines in (U)LIRGS, David Bruce 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.</td>
</tr>
<tr>
<td>Jet Propulsion Lab</td>
<td>$7,135</td>
<td>The Great Observatories Origins Deep Survey: Imaging with Herschel, Glenn Morrison, 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.</td>
</tr>
<tr>
<td>Smithsonian Astrophysical Observatory</td>
<td>$28,281</td>
<td>MACSJ1147.3-1252: An Extremely X-ray Luminous Cluster at z=0.58?, Harald Ebeling, 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.</td>
</tr>
<tr>
<td>Smithsonian Astrophysical Observatory</td>
<td>$39,629</td>
<td>The Distribution and Interaction of Luminous and Dark Matter in Strong-Lensing Clusters at z&gt;0.3, Harald Ebeling, 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.</td>
</tr>
<tr>
<td>Smithsonian Astrophysical Observatory</td>
<td>$13,210</td>
<td>The Distribution and Interaction of Luminous and Dark Matter in Strong-Lensing Clusters at z&gt;0.3, Harald Ebeling, 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.</td>
</tr>
<tr>
<td>Southwest Research Institute</td>
<td>$30,828</td>
<td>JUNO Science Support Phase B/C/D Activities, Tobias Owen, 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.</td>
</tr>
</tbody>
</table>

#### Mainland- Non-Profit Organizations

<table>
<thead>
<tr>
<th>Program</th>
<th>Amount</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casey Family Programs</td>
<td>$33,009</td>
<td>Rapid Assessment Instrument Pilot Program 2, Laurie Arial Tochiki, 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.</td>
</tr>
</tbody>
</table>
Gifts, Grants, and Contracts for April 2009

Research

Mainland- Non-Profit Organizations

Mesothelioma Applied Research Foundation, Inc. $50,000
Studies of Tumor Necrosis Factor Alpha as a New Target for Human Malignant Mesothelioma Preventive and Therapeutic Strategy
Haining Yang Cancer Research Center
Tumor necrosis factor alpha (TNF-alpha) plays a critical role in the mechanisms of asbestos-induced malignant mesothelioma (MM). We propose to further study the function of TNF-alpha in MM development and in tumor progression, which will lead to the development of novel preventive and therapeutic strategies.

NSABP Foundation Inc $124,000
Addendum to TIND - 118 Industrial Master Purchased Services Agreement, Subpart B-44-I
Robert H Oishi Cancer Research Center
A Clinical Research Associate (CRA) assigned to the project will be responsible for all clinical trial patient accrual and data management for this sponsor’s breast treatment protocol.

NSABP Foundation Inc $33,200
Addendum to TIND - 118, Industrial Master Purchased Services Agreement (NSABP B-41)
Robert H Oishi Cancer Research Center
A Clinical Research Associate (CRA) assigned to the project will be responsible for all clinical trial patient accrual and data management for this sponsor’s treatment protocols.

NSABP Foundation Inc $75,700
TFED38– 118, Federal Master Purchased Services Agreement Treatment Protocols
Robert H Oishi Cancer Research Center
Project staff assist the Principal Investigator in enrolling patients on National Surgical Adjuvant Breast & Bowel Project (NSABP) protocols and oversees their protocol treatment and health care. Patient screening to determine patient eligibility, patient education, sponsor-required data submission and other protocol-related procedures are performed by CRCH staff.

National Fish and Wildlife Foundation $69,909
Near-Real Time Debris Distribution in the North Pacific
Nikolai A Maximenko Department of Oceanography
Satellite wind and altimeter data calibrated to historical trajectories of surface drifters and Argo floats will be utilized to assess the density of debris controlled by ocean currents. Products will help to assess impact of various sources of marine debris and coordinate ocean cleaning efforts.

Sloan (Alfred P.) Foundation $259,157
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

Sloan (Alfred P.) Foundation $99,010
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.
Gifts, Grants, and Contracts for April 2009

Research

Mainland- Non-Profit Organizations

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National Aeronautics and Space Administration

National Aeronautics & Space Administration
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
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
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
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
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
DISSENYATION 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

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.

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.

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.

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

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.

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 H2 and will identify new wild strains and engineer new hybrid strains of photosynthetic microorganisms capable of more efficient and more economical H2 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
Collaborative Research: Global Ocean Repeat Hydrography, Carbon, and Tracer Measurements, 2009-2014
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
Cannabinergic Ligands and Drugs
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
Hawaii Coral Reef Initiative: Place-Based Projects
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
Institute for Astronomy Support for the SDO/HMI Investigation
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
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 Alaska $80,850
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 $20,000
Interpretation of Mars Odyssey GRS Data
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
Collaborative Research with the SuperNova Integral Field Spectrograph (SNIFS) and the University of Hawaii 2.2 Meter Telescope
Colin Aspin Institute for Astronomy
Gifts, Grants, and Contracts for April 2009

Research

US Colleges and Universities

To continue collaboration with the Nearby Supernova Factory and the University of California in providing telescope time for the SNIFS instrument to conduct supernova studies.

University of California, Los Angeles

Subcontract from "CAREER: The Coordination of Leaf Hydraulics, Structure and Gas Exchange"
Thomas A Ranker
Department of Botany
Research on the coordination of leaf structure, hydraulics, physiology and ecology of native Hawaiian plant species. Support for UHM Botany Department graduate students as research assistants for the project.

University of Mississippi

Technical Support for CTBT Infrasound Sites
Milton A Garces
Hawaii Institute of Geophysics and Planetology
Analyze and compare data and modify algorithms from various infrasonic sounds from the Big Island, Southwestern US, Washington, Ecuador.

University of Mississippi

Technical Support for CTBT Infrasound Sites
Milton A Garces
Hawaii Institute of Geophysics and Planetology
Analyze and compare data and modify algorithms from various infrasonic sounds from the Big Island, Southwestern US, Washington, Ecuador.

University of Pittsburgh

Expansion and Synergistic Use of the ASTER Urgent Request Protocol (URP) for Natural Disaster Monitoring and Scientific Analysis
Andrew J.L. Harris
Hawaii Institute of Geophysics and Planetology
To detect and report on volcanic eruptions using satellite data.

University of Southern California

WIHS
Cecilia M Shikuma
Department of Medicine
The consortium is to continue to participate in the WIHS study, a longitudinal study to define characteristics of HIV infected women.

University of Texas at Austin

Protoplanetary Disks Around the Lowest Mass Brown Dwarfs
Katelyn Allers
Institute for Astronomy
To study the disks around objects with masses from 6 M-Jupiter up to the hydrogen burning limit, with emphasis on the lowest mass disks.

University of Wisconsin-Madison

Ralstonia Solanacearum Race 3 biovar 2: Detection, Exclusion, and Analysis of a Select Agent Pathogen
Anne M Alvarez
Department of Plant and Environmental Protection Sciences

Subcount: 97
Subtotal: $16,445,010
Gifts, Grants, and Contracts for April 2009

Non-Research

DA-Dept of Agriculture

Department of Agriculture

Telemedicine/Distance Learning Grant 2008
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

Waianae Ordnance Reef Remedial Investigation Project
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

Update Facilities Plan
Daniel M. Ishii
Applied Research Laboratory
Update facilities plan for ARL at UH.

U.S. Coast Guard

Sustainable Saunders Coast Guard Internship Spring 2009
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

University of Hawaii Participation in Vietnam PEPFAR
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

The Health Disparities Service-Learning Collaborative Program
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

Ulu Pono-To Grow Well, Progress, Thrive and Succeed 2008
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

Commonwealth of Northern Mariana Islands $25,000
Pacific Regional Comprehensive Cancer Control Implementation Program (Subcontract From CNMI DPH)
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.

Inha University $60,000
Conference on the Law of the Sea
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

Northeast Asian History Foundation $11,743
Annexation of Korea
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.

University of the Ryukyus $12,396
University of the Ryukyus School of Law Study Tour
Spencer Kimura William Richardson School of Law
Conduct legal training and education courses for the University of the Ryukyus graduate students and faculty.

Hawaii- Business and Other

Bishop Museum $57,750
ECHO 6
Rose Tseng Chancellor, University of Hawaii at Hilo-UHH
Develop and produce narration for the Imiloa Astronomy Education Center audio tours.

Kolohala Holdings LLP $1,200,000
Hawaii Hydrogen Power Park-Phase 2 State Matching Funds
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.

Maui County Community Television, Inc $69,512
MCC-TV Educational Access Television
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.
Gifts, Grants, and Contracts for April 2009

Non-Research

Hawaii- Business and Other

Olelo Community Television
University of Hawaii - Supplemental Projects 2007
Hae K Okimoto
Information Technology Services
Produce courses and programs for the public access channel, Oceanic 55.

Hawaii- Government Agencies

County of Hawaii
Merrie Monarch Festival 2009
Rose Tseng
Chancellor, University of Hawaii at Hilo-UHH
Hosting of 8 culturally-significant events supporting the Merrie Monarch Hula Festival

County of Hawaii
Hilo Bay Festival
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)
Student Internship - Project Hiʻilei FY08-09
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
Proposal for Seed Funding to Develop a Sustainable Infrastructure
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
A Proposal for Training and Service to the Department of Education
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
Math Science Partnership (MSP) Program Cohort VI
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**

<table>
<thead>
<tr>
<th>Agency</th>
<th>Amount</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hawaii-Dept of Health</td>
<td>$110,000</td>
<td><strong>Title X Family Planning Services</strong>&lt;br&gt;Health and Wellness&lt;br&gt;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.</td>
</tr>
<tr>
<td>Hawaii-Dept of Health</td>
<td>$20,000</td>
<td><strong>State of Hawaii Department of Health Memorandum of Agreement</strong>&lt;br&gt;<strong>Kristine Qureshi</strong>&lt;br&gt;<strong>School of Nursing and Dental Hygiene</strong>&lt;br&gt;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.</td>
</tr>
<tr>
<td>Hawaii-Dept of Health</td>
<td>$486,498</td>
<td><strong>Adult Residency Contract, ASO Log No. 06-140</strong>&lt;br&gt;<strong>Courtenay Matsu</strong>&lt;br&gt;<strong>Department of Psychiatry</strong>&lt;br&gt;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.</td>
</tr>
<tr>
<td>Hawaii-Dept of Health</td>
<td>$207,795</td>
<td><strong>EMS Planning and Development of Distant Learning on Maui, Kauai and Hawaii</strong>&lt;br&gt;<strong>Edward J Kalinowski</strong>&lt;br&gt;<strong>Chancellor, Kapiolani Community College</strong>&lt;br&gt;Purchase equipment and supplies to support EMS education on Maui, Kauai and Hawaii and to fund an instructor on Kauai.</td>
</tr>
<tr>
<td>Hawaii-Dept of Health</td>
<td>$187,493</td>
<td><strong>Adult Clinical and Admin Services ASO Log No. 06-139</strong>&lt;br&gt;<strong>Courtenay Matsu</strong>&lt;br&gt;<strong>Department of Psychiatry</strong>&lt;br&gt;Provide psychiatric services and consultation to the Department of Health, Adult Mental Health division as outlined in the scope of services in the contract.</td>
</tr>
<tr>
<td>Hawaii-Dept of Human Services</td>
<td>$433,696</td>
<td><strong>Work Force Development/Training Required to Increase Rural Behavioral Health Access and Promote Efficiency/Effectiveness of Hawaii's Medicaid Program</strong>&lt;br&gt;<strong>Iwalani R N Else</strong>&lt;br&gt;<strong>Department of Psychiatry</strong>&lt;br&gt;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.</td>
</tr>
<tr>
<td>Hawaii-Dept of Land &amp; Natural Resources</td>
<td>$5,000</td>
<td><strong>PCSU Firefighting Support in Conservation Research Areas</strong>&lt;br&gt;<strong>David C Duffy</strong>&lt;br&gt;<strong>Department of Botany</strong>&lt;br&gt;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 &quot;mop up.&quot;</td>
</tr>
<tr>
<td>Hawaii-Dept of Land &amp; Natural Resources</td>
<td>$67,000</td>
<td><strong>Kaena Point Ecosystem Restoration Project (Kaena Point Natural Area Reserve and Kaena Point State Park, Oahu)</strong>&lt;br&gt;<strong>David C Duffy</strong>&lt;br&gt;<strong>Department of Botany</strong>&lt;br&gt;Protect and manage natural and cultural resources at Kaena Point through resource protection and monitoring, interaction with public, and other activities.</td>
</tr>
</tbody>
</table>
Gifts, Grants, and Contracts for April 2009

Non-Research

Hawaii- Government Agencies

Hawaii-Dept of Land & Natural Resources

Plant Restoration and Enhancement - Olinda
Kenneth Y Kaneshiro Pacific Biosciences Research Center
Provide services for ex situ propagation and maintenance of critically endangered Hawaiian plant species at Olida Rare Plant Facility.

Hawaii-Office of Hawaiian Affairs

GEAR UP Hawaii Community Partnership with the Office of Hawaiian Affairs (OHA)
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

Ka Waihona A Ke Aloha: Ua Ola I Ka Lima Kakoo
Robert K Lopes Kawaihuelani Hawaiian Language Program
Ka Waihona A Ke Aloha is only as successful as its helpers. Ua Ola I Ka Lima Kak'o'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

Improving Educational Access for Ni'ihau Residents
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

MauiaKama
Kapaanaokalaokeola 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

Native Hawaiian Training - Health Administration, Nurse Aide, ARCH, Patient Care Tech and Phlebotomy
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

Jobs to Careers: Promoting Work Based Learning for Quality Care
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
Manoa Journal
R F Stewart Department of English
Funds for staff salaries and wages.

University of Hawaii Foundation $33,450
Le'a Publication Series
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
KYA/Environmental Research & Design Laboratory
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
Mansfield Freeman Research Assistants
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
Basic Institutional Needs
Ho-Min Sohn Center for Korean Studies
Pay for student salaries.

University of Hawaii Foundation $4,000
Sen Soshitsu Students'/Staff Support
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
Sam & Mary Castle P-3 Dir Salary
Linda K Johnsrd Vice President for Academic Planning and Policy
To pay for P-3 Initiative Director's salary and fringe charges.

University of Hawaii Foundation $500
Center for Japanese Studies Educational Activities
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

Mainland- Non-Profit Organizations

Association of Universities for Research in Astronomy, Inc (AURA) $14,049

Purchase Order 275903AN NICI Backup Deformable Mirror and Blank

Christ Ftaclas Institute for Astronomy
Manufacture 2 mirrors for Association of Universities for Research in Astronomy, Inc.

Association of Universities for Research in Astronomy, Inc (AURA) $8,732

Purchase Order 275903AN NICI Backup Deformable Mirror and Blank

Christ Ftaclas Institute for Astronomy
Manufacture 2 mirrors for Association of Universities for Research in Astronomy, Inc.

Kellogg (W. K.) Foundation $1,400,000

Y&E: Community Foundations Leading for Children Cluster: Catalyzing Community Foundations
Maenette KP Benham Hawai‘inuikea School of Hawaiian Knowledge
The overarching aim of education and training will be to build the collective capacities within/across the three community foundations as they expand and put into action leadership efforts that cultivate philanthropic resources and engage new tools, ideas, and people.

National Aeronautics and Space Administration

National Aeronautics & Space Administration $30,000

Connecting and Constraining Data-Driven Solar Atmosphere Models Through Observations: Studying EUV Emission in Realistic Flare-CME Environments - C. Dawns
Ilia I Roussev Institute for Astronomy
This project aims to include the important physics of Extreme Ultraviolet emission into a global 3D model of the solar atmosphere. This improved model will be used to best constrain observable properties of the corona as well as initiation mechanisms and subsequent evolution of solar flares and Coronal Mass Ejections.

National Aeronautics & Space Administration $50,000

The Hawaii NASA EPSCoR Program: NASA S-band Downlink Capability in Hawaii
Luke Paul Flynn Hawaii Institute of Geophysics and Planetology
The proposed effort will help to support the upgrade of HSFL telemetry by adding S-band data reception capability.

National Science Foundation

National Science Foundation $491,258

SUPER-M: School and University Partnership for Educational Renewal in Mathematics
Monique Chyba Department of Mathematics
Graduate students in mathematics partner with local teachers and schools, providing mathematics instruction for the teachers in a workshop setting, and providing enrichment activities for the K-12 students in their classes and after-school programs. Training for the graduate students about K-12 mathematics education is provided.

National Science Foundation $60,000

Technician Support for a New Multi-Collector ICP-MS Facility for Terrestrial and Marine Geochemical Research
Kenneth H Rubin Department of Geology and Geophysics
Salary support for multi-collector inductively coupled plasma mass spectrometer facility technician.
Gifts, Grants, and Contracts for April 2009

Non-Research

US Colleges and Universities

Mississippi State University

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

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

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

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.

Subcount: 62  Subtotal: $9,099,846
Count: 159  Total: $25,544,856
Funds Received from UH Foundation for 04/01/2009 - 04/30/2009

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation

"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

"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

"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

"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

"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

"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

"Grader Support"
Smith, Wayne S          Department of Mathematics
Hire a grader to assist the Mathematics Department.

University of Hawaii Foundation

"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**

<table>
<thead>
<tr>
<th>University of Hawaii Foundation</th>
<th>$3,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Manoa Journal&quot;</td>
<td></td>
</tr>
<tr>
<td>Stewart, R F</td>
<td></td>
</tr>
<tr>
<td>Department of English</td>
<td></td>
</tr>
<tr>
<td>Funds for staff salaries and wages.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>University of Hawaii Foundation</th>
<th>$28,916</th>
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<tbody>
<tr>
<td>&quot;Mansfield Freeman Research Assistants&quot;</td>
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<tr>
<td>Tiles, Mary Elizabeth</td>
<td></td>
</tr>
<tr>
<td>Department of Philosophy</td>
<td></td>
</tr>
<tr>
<td>To pay for the salary &amp; fringe for 2 graduate research assistants for the Philosophy Department.</td>
<td></td>
</tr>
</tbody>
</table>

**Research**

**Hawaii- Non-Profit Organizations**

<table>
<thead>
<tr>
<th>University of Hawaii Foundation</th>
<th>$95,670</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;The Hawaii Initiative for Childhood Obesity Research and Education&quot;</td>
<td></td>
</tr>
<tr>
<td>Rudoy, Raul C</td>
<td></td>
</tr>
<tr>
<td>Department of Pediatrics</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

**Count:** 11  
**Total:** $227,539
Extramural Research Awards
for the Month of
April 2009
Distribution by Sponsors

<table>
<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHHS-Dept of Health and Human Services</td>
<td>8</td>
<td>$1,972,904</td>
<td>12.00%</td>
</tr>
<tr>
<td>DOC-Dept of Commerce</td>
<td>2</td>
<td>$243,352</td>
<td>1.48%</td>
</tr>
<tr>
<td>DOD-Department of Defense</td>
<td>8</td>
<td>$7,070,909</td>
<td>43.00%</td>
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<tr>
<td>DOI-Dept of Interior</td>
<td>1</td>
<td>$92,335</td>
<td>0.56%</td>
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<tr>
<td>Foreign</td>
<td>1</td>
<td>$311,331</td>
<td>1.89%</td>
</tr>
<tr>
<td>Hawaii- Business and Other</td>
<td>6</td>
<td>$612,968</td>
<td>3.73%</td>
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<tr>
<td>Hawaii- Government Agencies</td>
<td>10</td>
<td>$639,675</td>
<td>3.89%</td>
</tr>
<tr>
<td>Hawaii- Health Organizations</td>
<td>3</td>
<td>$178,212</td>
<td>1.08%</td>
</tr>
<tr>
<td>Hawaii- Non-Profit Organizations</td>
<td>4</td>
<td>$241,471</td>
<td>1.47%</td>
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<tr>
<td>Mainland- Business and Other</td>
<td>11</td>
<td>$1,377,319</td>
<td>8.38%</td>
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<tr>
<td>Mainland- Non-Profit Organizations</td>
<td>10</td>
<td>$1,110,818</td>
<td>6.75%</td>
</tr>
<tr>
<td>National Aeronautics and Space Administration</td>
<td>6</td>
<td>$610,661</td>
<td>3.71%</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>10</td>
<td>$1,058,731</td>
<td>6.44%</td>
</tr>
<tr>
<td>US Colleges and Universities</td>
<td>17</td>
<td>$924,324</td>
<td>5.62%</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>97</strong></td>
<td><strong>$16,445,010</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>
### Extramural Non-Research Awards
for the Month of
April 2009
Distribution by Sponsors

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

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### Notes
- The data includes extramural non-research awards for the month of April 2009.
- The distribution is categorized by various agencies and units.
- The total amount of awards is $9,099,846, representing 100% of the total.
Extramural Research Awards  
Year to Date: 07/01/08 - 04/30/09  
Distribution by Sponsors

<table>
<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA-Dept of Agriculture</td>
<td>61</td>
<td>$6,757,574</td>
<td>3.22%</td>
</tr>
<tr>
<td>DHHS-Dept of Health and Human Services</td>
<td>87</td>
<td>$47,031,227</td>
<td>22.41%</td>
</tr>
<tr>
<td>DOC-Dept of Commerce</td>
<td>54</td>
<td>$19,910,013</td>
<td>9.49%</td>
</tr>
<tr>
<td>DOD-Department of Defense</td>
<td>72</td>
<td>$36,834,830</td>
<td>17.55%</td>
</tr>
<tr>
<td>DOE-Dept of Energy</td>
<td>16</td>
<td>$7,805,725</td>
<td>3.72%</td>
</tr>
<tr>
<td>DOI-Dept of Interior</td>
<td>36</td>
<td>$2,795,663</td>
<td>1.33%</td>
</tr>
<tr>
<td>Federal Agencies</td>
<td>4</td>
<td>$2,086,602</td>
<td>0.99%</td>
</tr>
<tr>
<td>Foreign</td>
<td>13</td>
<td>$3,682,916</td>
<td>1.75%</td>
</tr>
<tr>
<td>Hawaii- Business and Other</td>
<td>38</td>
<td>$4,648,033</td>
<td>2.21%</td>
</tr>
<tr>
<td>Hawaii- Government Agencies</td>
<td>128</td>
<td>$16,490,593</td>
<td>7.86%</td>
</tr>
<tr>
<td>Hawaii- Health Organizations</td>
<td>22</td>
<td>$1,375,616</td>
<td>0.66%</td>
</tr>
<tr>
<td>Hawaii- Non-Profit Organizations</td>
<td>49</td>
<td>$2,589,367</td>
<td>1.23%</td>
</tr>
<tr>
<td>Mainland- Business and Other</td>
<td>89</td>
<td>$11,926,663</td>
<td>5.68%</td>
</tr>
<tr>
<td>Mainland- Health Organizations</td>
<td>9</td>
<td>$541,039</td>
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</tr>
<tr>
<td>Mainland- Non-Profit Organizations</td>
<td>33</td>
<td>$2,786,433</td>
<td>1.33%</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>2</td>
<td>$102,891</td>
<td>0.05%</td>
</tr>
<tr>
<td>National Aeronautics and Space Administration</td>
<td>65</td>
<td>$14,407,293</td>
<td>6.86%</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>91</td>
<td>$22,265,838</td>
<td>10.61%</td>
</tr>
<tr>
<td>US Colleges and Universities</td>
<td>74</td>
<td>$5,838,751</td>
<td>2.78%</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>943</strong></td>
<td><strong>$209,877,067</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>
Extramural Non-Research Awards
Year to Date: 07/01/08 - 04/30/09
Distribution by Sponsors

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

Total: 675  $124,428,830  100%