

Gifts, Grants, and Contracts for July 2009

The following gifts, grants and contracts received by all campuses during the period July 1, 2009 through July 31, 2009 total \$46,776,389.

Research

DA-Dept of Agriculture

Agriculture, Dept - Agricultural Research Svc-FED \$10,500
Feasible Analysis of Ohelo as a Specialty Crop for Hawaii
Nakamoto, Stuart T Department of Human Nutrition, Food and Animal Sciences
To generate production, environmental and economic data for feasibility studies on ohelo berry as an ornamental and value added specialty crop for Hawaii

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Administration on Aging \$129,852
Ha Kupuna: National Resources Center for Native Hawaiian Elders
Mokuau, Noreen K School of Social Work
We request funds to continue our work on Ha Kupuna: National Resource Center for Native Hawaiian Elders in order to develop and disseminate knowledge of Native Hawaiian elders.

Health & Human Svc, Dept - Ctrs for Disease Cntrl & Prvntn (CDC) \$779,898
Asian/Pacific Islander Youth Violence Prevention Center
Hishinuma, Earl S Department of Psychiatry
Center designed to support and fund administrative/infrastructure, research, outreach and education for the prevention of interpersonal youth violence of Asian/Pacific Islander youth. Defined community is Kailua.Waimanalo, which will interact with the Center in community-based participatory research.

Health & Human Svc, Dept - Natl Inst of Health (NIH) \$356,450
Intraspecies Transmission and Infectivity of Insectivore-Borne Hantaviruses
Yanagihara, Richard Department of Pediatrics
The primary objective of the proposed research is to determine the transmission of a new hantavirus in shrews and the infectivity of this virus to humans.

Health & Human Svc, Dept - Natl Inst of Health (NIH) \$207,225
Altered Peptide Ligands and Immunopathogenesis of Dengue Virus Infection
Imrie, Allison Office of Public Health Studies
We aim to understand the mechanisms contributing to pathogenesis of severe disease. Our study findings are directly applicable to dengue vaccine design that may improve safety by avoiding potential cross-reactivity in T cell responses.

Health & Human Svc, Dept - Natl Inst of Health (NIH) \$95,170
COBRE: Center for Cardiovascular Research
Shohet, Ralph Victor Department of Medicine
This supplement award supports a local high school science teacher to participate in summer opportunities in a biomedical laboratory.

Health & Human Svc, Dept - Natl Inst of Health (NIH) \$346,000
Modeling Monocyte and Macrophage Based Gene Therapy for NeuroAIDS
Lu, Yuanan Department of Public Health Sciences and Epidemiology
To test for the potential use of primary monocytes/macrophages as a gene transfer vehicle to deliver anti-HIV tat gene and a neuroprotective agent (TNFR) into the central nervous system and their stable high-level expression in the brain for combating neuroAIDS using laboratory mouse as a in vivo model system.

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Research

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Natl Inst of Health (NIH)	\$191,875
<u>Pseudoxanthoma elasticum: Elastic fibers alterations and characterization of serum factors</u>	
Le Saux, Olivier	Department of Cell and Molecular Biology
Elastic fibers are large, complex molecules that are important for life by providing specific mechanical properties to elastic tissues. To understand how elastic fibers are maintained over time, we are exploring the pathologic mechanism underlying pseudoxanthoma elasticum, a heritable disease, characterized by progressive elastic fiber	
Health & Human Svc, Dept - Natl Inst of Health (NIH)	\$533,512
<u>Early Brain Development After Prenatal "Ice" Exposure: A Longitudinal MR Study</u>	
Chang, Linda	John A. Burns School of Medicine
To assess changes in brain structure and brain metabolite concentrations in young children who were exposed to METH in utero, and to follow these changes until age 7. To evaluate neuropsychological performance in these children on a yearly basis over the same time period. To evaluate how structural and chemical brain abnormalities are related to cognitive development.	
Health & Human Svc, Dept - Natl Inst of Health (NIH)	\$324,582
<u>Role of Macrophages in HIV Lipoatrophy</u>	
Shikuma, Cecilia M	Department of Medicine
This project will continue work on assessing the role of HIV infected monocytes and macrophages in the development of lipoatrophy. We will conduct fat biopsies on HIV infected individuals on HIV medications with and without lipoatrophy and also from HIV individuals not on HIV medications and from HIV negative individuals. We will isolate fat cells, pre-adipocytes (immature fat cells) and macrophages and look at what inflammatory molecules these cells secrete.	
Health & Human Svc, Dept - Natl Inst of Health (NIH)	\$732,674
<u>RGR-Based Motion Tracking for Real-Time Adaptive MR Imaging and Spectroscopy</u>	
Ernst, Thomas M.	Department of Medicine
This Bioengineering Research Partnership aims to develop (1) an optical head tracking system and (2) real-time adaptive Magnetic Resonance imaging and spectroscopy techniques for use with the tracking system. The tracking system will allow accurate measurement of subject motion and enable successful MR acquisitions without motion artifacts in the data.	
Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$1,244,231
<u>Whole Genome Scan for Modifier Genes in Colorectal Cancer</u>	
Le Marchand, Loic	Cancer Research Center
To conduct a whole-genome association study of colorectal cancer in the Multiethnic study in order to identify susceptibility genes for this cancer.	
Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$472,997
<u>Physical Activity in Women with Infants</u>	
Albright, Cheryl L.	Cancer Research Center
Recruit mothers with an infant 2-12 months old from Kaiser HMO and the community via mass media. Deliver tailored physical activity (PA) intervention to half subjects and standard care for PA to rest. Assess minutes of moderate/vigorous PA per week via accelerometers and written surveys. Follow women for 18 months, survey 5 times.	

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DHHS-Dept of Health and Human Services

Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$77,504
<u>Role of Polyamines in MYCN-Amplified Neuroblastoma</u>	
Bachmann, Andre S.	Cancer Research Center
Ornithine decarboxylase (ODC) is a key enzyme in polyamine biosynthesis, and elevation of polyamines can lead to uncontrolled cancer growth. ODC is a transcriptional target of MYCN, which often is amplified in neuroblastoma.	
Health & Human Svc, Dept/NIH - Natl Cancer Institute	\$610,875
<u>Inflammation and Innate Immunity Genes and Colorectal Cancer Risk</u>	
Le Marchand, Loic	Cancer Research Center
Conduct a family-based case-control association study of genetic variation in 38 genes in inflammation and innate immunity pathways and environmental exposures.	
Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources	\$98,000
<u>Dynamin: Ligand Interactions and Conformational Dynamics (Competitive Revision)</u>	
Jameson, David M	Department of Cell and Molecular Biology
The proposed research will investigate the interaction of a protein called dynamin, specifically mutant forms of dynamin, that are implicated in a disease known as Charcot-Marie-Tooth syndrome. The proposed studies will track the movement of these proteins inside cells.	
Health & Human Svc, Dept/NIH - Natl Heart, Lung, & Blood Inst	\$908,629
<u>Role of Oxidative Stress and Inflammation in Cardiovascular Risk</u>	
Shikuma, Cecilia M	Department of Medicine
This project will study the increased CV risk in the HIV population on HAART and statins which may have efficacy in reducing inflammation.	
Health & Human Svc, Dept/NIH - Natl Human Genome Rsch Inst	\$1,654,173
<u>Epidemiology of Putative Causal Variants in the Multiethnic Cohort</u>	
Le Marchand, Loic	Cancer Research Center
This project will characterize in the five MEC ethnic/racial populations, the associations of putative causal variants discovered for various chronic diseases in large ongoing genomic studies.	
Health & Human Svc, Dept/NIH - Natl Inst of Child Hlth & Human Dev	\$6,664
<u>Minimum Y Gene Complement Necessary for Successful ART</u>	
Ward, Monika Anna	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.	
Health & Human Svc, Dept/NIH - Natl Inst of Neurologcl Disordr & Stroke	\$327,334
<u>HIV-1 Specific Immune Responses in Thai Individuals with HIV Dementia</u>	
Kim, Silvia R	Department of Medicine
To test a possible mechanism behind the reason why HIV-1 infected individuals with a strong HIV-1 specific T cell response tend not to develop neurological symptoms of HIV dementia.	

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DHHS-Dept of Health and Human Services

Health & Human Svc, Dept/NIH - Natl Inst of Nursing Rsch \$207,781

Cognitive Behavioral Intervention in Diabetes Self-Management

Inouye, Jillian Department of Nursing

The purpose of this study is to develop and conduct pilot testing of a tool to assess dietary intake for Filipino-Americans, and to identify relationships between dietary intake and outcome measures for the diabetes prevention

DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$1,869,134

Developing the Hawaii-Pacific Ocean Observing and Information System

Taylor, Brian School of Ocean and Earth Science and Technology

Year 2 of 3, continuing development of ocean observing system of Oahu.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$283,651

NOAA/NESDIS/STAR MOBY Cruises

Schroeder, Thomas A Joint Institute for Marine and Atmospheric Research

To maintain an optical buoy off the coast of Lanai.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$100,129

Changes in the Tropical Pacific Climate Variability During the Last Millennium: External Forcing Versus Internal Variability

Timmermann, Axel Joint Institute for Marine and Atmospheric Research

The sensitivity of the El Nino-Southern Oscillation to external climate forcing during the last 1,000 years will be studied using climate models as well paleo-climate reconstructions.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$113,967

Toward Reducing Climate Model Biases in the Equatorial Atlantic and Adjacent Continents

Xie, Shang-Ping Joint Institute for Marine and Atmospheric Research

To perform diagnostic and modeling studies to identify the source of climate model errors over the tropical Atlantic.

DOD-Department of Defense

Defense, Dept - Air Force \$1,139

Operations and Management of the Maui Supercomputing Center

Lassner, David K Information Technology Services

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

Defense, Dept - Air Force \$506

Operations and Management of the Maui High Performance Computing Center

Lassner, David K Information Technology Services

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

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Research

DOD-Department of Defense

Defense, Dept - Air Force	\$5,695
<u>Operations and Management of the Maui Supercomputing Center</u>	
Lassner, David K	Information Technology Services
Cost reimbursement award term contract for research, development, operations and management of the Maui Supercomputing Center.	
Defense, Dept - Air Force	\$2,530
<u>Operations and Management of the Maui High Performance Computing Center</u>	
Lassner, David K	Information Technology Services
Cost reimbursement award term contract for research, development, operations and management of the Maui Supercoming Center.	
Defense, Dept - Air Force	\$8,355
<u>Operations and Management of the Maui Supercomputing Center</u>	
Lassner, David K	Information Technology Services
Cost reimbursement award term contract for research, development, operations and management of the Maui Supercomputing Center.	
Defense, Dept - Air Force	\$41,775
<u>Operations and Management of the Maui Supercomputing Center</u>	
Lassner, David K	Information Technology Services
Cost reimbursement award term contract for research, development, operations and management of the Maui Supercomputing Center.	
Defense, Dept - Navy	\$1,445,000
<u>Marine Mammals: Hearing and Echolocation at Coconut Island</u>	
Nachtigall, Paul E	Hawaii Institute of Marine Biology
Examine the hearing of marine mammals using the auditory evoked potential procedure in which hearing is measured by looking at the brain wave patterns in response to sound.	
Defense, Dept - Office of Naval Research	\$49,200
<u>Utilizing Pro-bono Commercial Assets for Marine Mammal Surveys in High Naval Activity Area in Hawaiian Waters</u>	
Au, Whitlow W L	Hawaii Institute of Marine Biology
Attach hydrophone listening devices to at least one Young Brother's inter-island barge to survey for whales and dolphins in waters between Oahu-Hawaii and Oahu-Kauai.	

DOI-Dept of Interior

Interior, Dept - U.S. Geological Survey	\$42,427
<u>Precipitation Climatology Projections for Mid and Late 21st Centuries for the Main Hawaiian Islands</u>	
Hamilton, Kevin P	Department of Meteorology
This proposal is for a simple assessment and downscaling of the IPCC global model results on precipitation for the main Hawaiian Islands. The goal is to produce maps showing the range of likely precipitation climatology changes over in Hawaii at Mid-century and end of 21st century.	

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Research

DOI-Dept of Interior

Interior, Dept - U.S. Geological Survey	\$36,161
<u>Population Dynamic and Pollination Ecology of the Threatened Haleakala Silversword</u>	
Krushelnycky, Paul D	Department of Plant and Environmental Protection Sciences
The project will produce an accurate baseline map and census of silversword populations in Haleakala National park, develop a monitoring protocol to track population trends, and investigate the effects of isolation and invasive ants on the pollination ecology of the silversword.	
Interior, Dept - U.S. Geological Survey	\$10,000
<u>Support to USGS NASA Program</u>	
Lucey, Paul	Hawaii Institute of Geophysics and Planetology
Analysis of telescopic data of the Moon.	

Hawaii- Business and Other

Hawaii Agriculture Research Center	\$20,520
<u>Coffee Improvement Using Molecular Approaches for Hawaii</u>	
Wang, Ming-Li	Department of Molecular Biosciences and Bioengineering
The objectives of this project will be using high through-put sequencing technology to identify the genes expressed in the developing cherries of three coffee varieties. A graduate assistant (Ratnesh Singh) will work on this part of the project under the supervision of Dr. Ming-Li Wang at HARC.	
NovaSol	\$130,000
<u>Stand-off Methamphetamine Detection (SOMAD)</u>	
Lucey, Paul	Hawaii Institute of Geophysics and Planetology
Calibrate, test, acquire, process, and interpret data of hyperspectral sensors.	

Hawaii- Government Agencies

Business, Econ Dev & Tourism, Dept (DBEDT) - HI	\$25,000
<u>CZM Staffing Study Contact</u>	
Dinell, Tom	Department of Urban and Regional Planning
Provide recommendations to State Office of Planning on way to attract and retain Coastal Management staff at both the state and county levels as described in the "The CZM (Coastal Zone Management) Staffing Study".	
City & County of Honolulu	\$103,455
<u>Biological and Sediment Monitoring Program with Supplemental Studies</u>	
Moncur, James E	Water Resources Research Center
The fundamental objective of the program is to assess the chronic effects of ocean outfall discharges of treated sewage on the marine communities and sediments.	
County of Kauai	\$500,000
<u>Important Agricultural Lands (IAL) Study</u>	
Kim, Karl E	Department of Urban and Regional Planning
Department of Urban and regional Planning will assist the County of Kauai to conduct a study on important agricultural lands (IAL).	

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Hawaii- Government Agencies

County of Maui	\$100,000
<u>West Maui Mountains Watershed Protection</u>	
Morden, Clifford W	Department of Botany
Conduct ecosystem management and data collection in the West Maui Mountains Watershed lands.	
Health, Dept - Alcohol & Drug Abuse Div-HI	\$234,283
<u>Services to Evaluate and Monitor Substance Abuse Service Outcomes and Process Evaluation Activities of the Alcohol and Drug Abuse Division Funded;</u>	
Yuen, Sylvia H L	Center on the Family
Evaluate and monitor substance abuse outcomes and process evaluation activities of the Hawaii Department of Health, Alcohol and Drug Abuse Division funded activities.	
Health, Dept - HI	\$324,047
<u>Social Epidemiology Project/Epidemiologic Research Relating to Public Health</u>	
Maddock, Jason E.	Office of Public Health Studies
This project provides evaluation and research support to the Healthy Hawaii Initiative.	
Health, Dept - HI	\$206,882
<u>Community Needs Assessment</u>	
Yuan, Sarah	Center on the Family
Conduct a baseline capacity assessment of the existing health care system for acute and sub-acute care for heart disease and stroke in Hawaii.	
Health, Dept - HI	\$117,740
<u>Establishing Water Quality Parameters to Address Wet Weather Flow Impacts, Pathogens, and NPDES Program Strategies in a Priority Urban Watershed</u>	
Tamaru, Clyde S	Department of Molecular Biosciences and Bioengineering
Project is responsible for the collection of water samples and conducting water quality analyses in order to establish total maximum daily loads on parameters that are currently exceeded in Kaelepulu watershed. In addition, stakeholder participation and dissemination of information is also part of the proposed project.	
Health, Dept - HI	\$244,000
<u>Striving for Independence Through Peer Mentoring: Ho'oikaika</u>	
Izutsu, Satoru	John A. Burns School of Medicine
Project goals and objectives to: 1) increase quality, availability, effectiveness of community-based and educational programs designed to improve health and quality of life and 2) to improve access to comprehensive, high quality health care services by developing an effective, culturally competent system of peer mentoring services for adults with TBI and their families.	
Land & Natural Res, Dept - HI	\$189,700
<u>The Development of a Biocontrol Option for Alien Algae Control</u>	
Duffy, David C	Department of Botany
Research sea urchins as a biocontrol option against invasive alien algae.	

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Research

Hawaii- Government Agencies

Transportation, Dept - HI \$113,162
Updating of the State Pavement Management System and Calibration of the 2002 Design Guide for Hawaiian Conditions
Archilla, Adrian R Department of Civil and Environmental Engineering
Update the State of Hawaii Department of transportation pavement management system and study the requirements for implementation of a new pavement design guide. Develop new pavement design and pavement management guidelines.

Hawaii- Non-Profit Organizations

HCF-Medical Research Funds \$50,000
BRCA1-IRIS Overexpression Induces Invasive Breast Cancer and Metastasis
ElShamy, Wael Department of Pathology
About 95% of death due to breast cancer is due to invasive/metastatic disease. In this grant we will establish BRCA1-IRIS/ErbB2/EMS1 overexpression is a driving force behind metastasis and can be used as diagnostic tools or therapeutic targets against BRCA1-IRIS induced invasive breast cancers.

Hawaii Community Foundation (HCF) \$49,980
Activity Dependent Cell Death in the Nervous System
Robinow, Steven N Department of Zoology
During development and neurodegenerative disease, neurons regulate the death of other neurons through unknown mechanisms. This project will focus on identifying neurons that are responsible for initiating the death of a pair of neurons that die during development. This work will help to define the mechanisms that control neuronal death during development and disease.

Oceanic Institute - Ctr for Tropical & Subtrpcl Aquaculture (CTSA) \$35,000
Improving Outputs in the Commercial Scale Production of Swordtails - Year 3
Tamaru, Clyde S College of Tropical Agriculture and Human Resources
Produce homozygous lyre-tail swordtail strains to expand and diversify product lines and alleviate skewed female sex ratio on commercial farms.

University of Hawaii Foundation \$3,500
Korean Language Proficiency in Child Heritage Learners
O'Grady, William D Department of Linguistics
The proposed project will refine and test a new tool for assessing language proficiency in 'heritage speakers' of Korean--children of Korean immigrants who learned the family language at home, but subsequently became more fluent in English.

Mainland- Business and Other

Jet Propulsion Lab \$60,366
New JPL 1279251 - Cassini IDS Orbital Phase
Owen, Tobias Institute for Astronomy
To work with results from the orbiter and the probe regarding the origin of Saturn and the origin and early evolution of the atmosphere of Titan.

Gifts, Grants, and Contracts for July 2009

Research

Mainland- Business and Other

Jet Propulsion Lab	\$35,790
<u>High Accuracy Astrometry of (999942) Apophis</u>	
Tholen, David J	Institute for Astronomy
Provide high accuracy astrometry to determine exact orbit of Apophis.	
Lockheed Martin Corporation Space Systems	\$94,000
<u>Automated Marine Mammal Detection and Classification on Navy Ranges</u>	
Au, Whitlow W L	Hawaii Institute of Marine Biology
Create software to automate dolphin identification on the PMRF hydrophone range.	
Space Telescope Science Institute	\$29,000
<u>Resolving the Smallest Galaxies with ACS</u>	
Chiboucas, Kristin	Institute for Astronomy
We are using Hubble instruments for 2-band imaging of newly discovered faint dwarf galaxy candidates displaying evidence for resolved stellar populations in our large MegaCam M81 group survey.	

Mainland- Non-Profit Organizations

Alex's Lemonade Stand	\$40,000
<u>DFMO-Based Combination Therapy for Advanced Stage Neuroblastoma</u>	
Koomoa, Dana-Lynn	Cancer Research Center
Neuroblastoma is an extra-cranial pediatric cancer. The aggressive, advanced stage Neuroblastomas are often associated with MTCN gene amplification. Current treatment strategies are ineffective at curing or slowing the progression of advanced stage Neuroblastomas. DFMO in combination with LY294002 may be an effective treatment strategy for advanced Neuroblastoma.	
Water Environment Research Foundation	\$144,554
<u>Partition and Differential Survival of Fecal Indicators and Pathogens between Sand and Water of Tropical Beaches</u>	
Yan, Tao	Department of Civil and Environmental Engineering
The project aims to understand how beach sand affect the source and fate of fecal indicators and pathogens in tropical marine beaches. The proposed work involves monitoring the concentration dynamics of E. coli and enterococci in beach sand and water. Lab experiments will also be conducted to study the survival of fecal indicators and pathogens in beach sand and water.	

National Aeronautics and Space Administration

National Aeronautics & Space Administration	\$92,326
<u>Water and Habitable Worlds</u>	
Meech, Karen J	Institute for Astronomy
This project will trace the history of water from its formation in the interstellar medium to incorporation in the solar system, how it reaches the terrestrial planets, and its role in life.	
National Aeronautics & Space Administration	\$50,000
<u>Dynamics of Ground Ice on Mars: A New Numerical Method for Atmosphere-Subsurface Vapor Exchange and its Application to Mars</u>	
Schorghofer, Norbert	Institute for Astronomy

Gifts, Grants, and Contracts for July 2009

Research

National Aeronautics and Space Administration

Perform computer analysis for climate simulations on Mars.

National Aeronautics & Space Administration \$85,445
Laser Induced Breakdown Spectroscopy (LIBS) of Alteration and Volatile-Bearing Materials
Sharma, Shiv K Hawaii Institute of Geophysics and Planetology

National Aeronautics & Space Administration \$100,100
Mineralogical Mapping of the Moon
Lucey, Paul Hawaii Institute of Geophysics and Planetology
Use remote sensing to study the composition of the lunar surface.

National Aeronautics & Space Administration \$125,000
Meteorite and Dynamical Constraints on Planetary Accretion and the Impact History and Formation of Asteroids
Scott, Edward R D 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 \$91,290
Analysis of Coordinated Ground-Based Deep Impact Imaging Data
Meech, Karen J Institute for Astronomy
Analyze earth-based data sets in conjunction with flight data from the Deep Impact mission in order to answer various scientific questions.

National Aeronautics & Space Administration \$94,900
ANITA: Antarctic Impulsive Transient Antenna
Gorham, Peter W Department of Physics and Astronomy
To fly a long duration balloon mission to address the question of the nature and origin of the highest energy cosmic rays, and the ultimate limits of energy in the universe.

National Aeronautics & Space Administration \$46,130
Dynamics of Anisotropic Mean and Time-varying Structures of Ocean Circulation
Maximenko, Nikolai A Department of Oceanography
Satellite data, in situ observations, and outputs of advanced numerical models will be used jointly to study the dynamics of anisotropic mesoscale stationary and propagating jet-like structures recently discovered in the upper ocean.

National Aeronautics & Space Administration \$73,921
Preservation of Exogenous Volatiles in Lunar Regolith Deposits
Fagents, Sarah A. Hawaii Institute of Geophysics and Planetology
The proposed study will model the heating of the lunar surface due to the emplacement of lava flows. The goal is to determine the preservation potential of implanted solar wind and cosmic ray particles as records of the early history of the solar system.

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Research

National Aeronautics and Space Administration

- National Aeronautics & Space Administration \$179,307
Quantitative Mineral Maps of the Moon
Lucey, Paul Hawaii Institute of Geophysics and Planetology
The project will prepare maps of the abundance of minerals across the lunar surface.
- National Aeronautics & Space Administration \$76,330
Searching for Products of Extreme Lunar Magmatic Fractionation: Understanding the Moon's Differentiation and Resource Potential
Taylor, G Jeffrey Hawaii Institute of Geophysics and Planetology
This research will study unusual lunar samples that are loaded with trace elements. They are interesting for understanding how the lunar crust formed and for assessing their potential as future lunar resources.
- National Aeronautics & Space Administration \$152,772
Improved Detention and Monitoring of Volcanic Activity Using MODIS
Wright, Robert Hawaii Institute of Geophysics and Planetology
Developing a new method for detecting volcanic activity using satellite data by using NASA's MODIS sensor.
- National Aeronautics & Space Administration \$92,000
Support Services, Maintenance and Calibration of the TLRs-4 System
Kuhn, Jeffrey R. Institute for Astronomy
To continue the history of Haleakala as one of two fixed, well-defined geometric reference points in NASA's tectonic motion data solution.
- National Aeronautics & Space Administration \$69,305
Integrating MESSENGER Data to Investigate the Origin of Mercury's Inter crater and Smooth Plains Deposits
Gillis-Davis, Jeffrey Hawaii Institute of Geophysics and Planetology
The proposed work will investigate the origin of Mercury's Smooth plains and inter crater plains using data from the Mercury Surface, Space Environment, Geochemistry, and ranging (MESSENGER) mission. The main tasks of the proposal include; create a prioritized list of geologic targets, and integrate X-ray, gamma-ray, neutron, and spectral data to map these two units.
- National Aeronautics & Space Administration \$22,999
FLAME DESIGN: A Novel Approach to Clean Efficient Diffusion Flames
Chao, Beei-Huan Department of Mechanical Engineering
Investigate how flame structure can be controlled such that diffusion flames can be soot free but exceedingly strong. In this way, practical applications to clean, efficient diffusion flames can be realized.
- National Aeronautics & Space Administration \$70,946
Improving the Correlation Between Lunar Prospector Gamma-ray and Neutron Spectrometer Data for Titanium
Gillis-Davis, Jeffrey Hawaii Institute of Geophysics and Planetology
The correlation for titanium between the Lunar Prospector gamma-ray and neutron data sets is not ideal (e.g., relation is not 1:1, does not go through zero, and the correlation coefficient is low). By analyzing the data reduction methods for these data sets, we intend to improve the titanium correlation between these two data sets.

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Research

National Aeronautics and Space Administration

National Aeronautics & Space Administration \$87,917

Remote Sensing and Geologic Studies of Planetary Crusts

Hawke, Bernard Ray Hawaii Institute of Geophysics and Planetology

This is a proposal to conduct remote sensing and geologic studies of the Moon and Mercury in order to better understand their composition and evolution.

National Aeronautics & Space Administration \$32,080

Investing Midlatitude Ocean and Climate Dynamics using Satellite Altimetry and Modeling Analysis

Qiu, Bo Department of Oceanography

Characterize and understand the nature and causes of the large-scale fluctuations in the midlatitude North and South Pacific Oceans on time scales from interannual to decadal.

National Aeronautics & Space Administration \$50,974

From Planetesimals to Terrestrial Planets: A Study of the Formation of Habitable Planets in Binary Star Systems

Haghighipour, Nader Institute for Astronomy

To study the formation of habitable planets in binary and multiple star systems, and the mechanism of the delivery of water to such planets.

National Science Foundation

National Science Foundation \$444,000

CRC: Chemistry of Unsaturated Hydrocarbons in Titan's Atmosphere

Kaiser, Ralf Ingo Department of Chemistry

An investigation of the chemical processing of Saturn's moon Titan and of cold molecular clouds.

National Science Foundation \$147,602

The Pan-STARRS Brown Dwarf Factory

Magnier, Eugene A. Institute for Astronomy

Scientific astronomical research on brown dwarfs using the Pan-STARRS telescope on Heleakala, Maui.

National Science Foundation \$24,238

Collaborative Research: Towards a Quaternary Spatial and Temporal Deformation History at the Central Andean Thrust Front

Brooks, Benjamin A Hawaii Institute of Geophysics and Planetology

Further GPS deformation research in Argentina.

National Science Foundation \$19,892

EAGER: Collaborative Research: Integration of the Capillary Waveguide Biosensor (CWB) with the Environmental Sample Processor (ESP): Detection of Microorganisms in Natural Samples

Kemp, Paul Department of Oceanography

Demonstrate successful integration of a new microbial process behavior (Capillary Waveguide Biosensor, CWB) with the Environmental Sample Processor developed at the Monterey Bay Aquarium Research Institute, and demonstrate its successful application to detection of microorganisms in natural water samples.

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National Science Foundation

National Science Foundation \$215,000

University of Hawaii Partnership with the NSF I/U CRC for Telecommunication Circuits and Systems at Arizona State University

Iskander, Magdy F.

Hawaii Center for Advanced Communications

This is a collaborative research effort between the University of Hawaii and four other universities including ASU, UA, RPI, and the Ohio State University. Requested funds will support faculty research and graduate students projects.

National Science Foundation \$176,209

Ultracool Astrophysics from Substellar Binaries

Liu, Michael C

Institute for Astronomy

We will conduct a deep, sensitive search of the coldest known brown dwarfs to identify new substellar binaries suitable for dynamical mass determinations and to search for free-floating objects colder than anything currently known. We will greatly expand the sample of dynamical mass measurements for substellar binaries through a high-precision AO monitoring campaign.

National Science Foundation \$166,061

Comparative and Computational Approaches to the Evolution of Myelin

Hartline, Daniel K

Pacific Biosciences Research Center

To establish the structural, functional and ecological commonalities among invertebrate and vertebrate myelin to gain insight into the evolution of myelin in nervous systems.

National Science Foundation \$350,000

Mechanisms of Neurogenesis in a Segmented Polychaete

Seaver, Elaine C

Pacific Biosciences Research Center

Neurogenesis is the process by which neural precursors are generated and subsequently internalized to form the central nervous system (CNS). I will investigate neurogenesis during multiple life stages in the polychaete annelid, *Capitella* sp. I to elucidate any similarities or differences of embryonic, adult and regenerative CNS formation.

National Science Foundation \$295,743

The Mantle Melt Column and Melt Migration Revealed by Deglaciation Melting Beneath Iceland's Western Rift Zone

Sinton, John M

Department of Geology and Geophysics

Conduct field mapping and sample collection of late-glacial volcanic rocks in west Iceland for geochemical analysis. Perform numerical modeling of melting processes to compare with the collected data.

National Science Foundation \$76,961

Pan-STARRS Photometry, GBT HI Observations, and Galaxy Distances

Tully, R Brent

Institute for Astronomy

The proposed research focuses on two related activities. The first involves the determination of distances to a large sample of galaxies. The second involves the development of the Extragalactic Distance DATABASE, EDD.

National Science Foundation \$198,950

CSEDI Collaborative Research: Influence of Grain-Size Evolution on Global and Regional Mantle Flow and Upper Mantle Seismic Structure

Conrad, Clinton P

Department of Geology and Geophysics

We propose to develop numerical models of viscous flow in the Earth's mantle. These models will include the dynamic effects of an evolving grain size for mantle minerals, which can affect mantle viscosity and rock material properties. We will look for predicted variations in rock properties using seismological observations.

Gifts, Grants, and Contracts for July 2009

Research

National Science Foundation

National Science Foundation \$437,859

Collaborative Research: Oceanic Diazotroph Community Structure and Activities in a High Carbon Dioxide World

Church, Matthew J. Department of Oceanography

The response of marine nitrogen-fixing microorganism physiology and gene expression will be examined in high carbon dioxide experimental perturbation experiments.

National Science Foundation \$174,635

BRIGE: Minority Education and Research in Biomedical Microdevices - An Optically Controlled Cell Culturing and Harvesting Platform

Ohta, Aaron T Department of Electrical Engineering

Design and fabrication of a platform for controlling the growth of living cells during culturing using light. Minority students will be recruited as graduate and undergraduate researchers.

National Science Foundation \$378,008

Collaborative Research: Lateral Mixing and Dispersion on the Inner Shelf

McManus, Margaret Anne Department of Oceanography

The proposal will improve understanding of horizontal mixing and biological processes in the coastal ocean. This understanding will aid marine resource managers and conservation policy.

National Science Foundation \$47,525

I/UCRC Center for Bioenergy Research and Development

Turn, Scott Q Hawaii Natural Energy Institute

Conduct bioenergy related research and development in accordance with Industry/University Cooperative Research Center program's Center for Bioenergy Research and Development.

US Colleges and Universities

California Irvine, University of \$230,250

Genetic Signatures of Dengue Virus Emergence

Bennett, Shannon N Dept of Trop Med, Medical Microbiology and Pharmacology

Dengue virus, causing fever with occasional hemorrhaging, is expanding worldwide, producing more frequent, severe epidemics. Evidence suggests genetic changes in circulating viruses underlie these dynamics. We compare virus sequence data from multiple populations all undergoing endemic/epidemic transitions for a universal genetic factor.

California San Francisco, University of \$173,000

Macrophage Targeted Therapy for HAD and HIV Disease (Project 3)

Shikuma, Cecilia M Department of Medicine

The grant application continues Year 2 goals with establishing the clinical study and protocol in Hawaii to test new therapies for HIV-1-associated dementia.

California Santa Barbara, University of \$30,000

Exploring Socio-economic and Ecological Dimensions of Catch Shares

Lynham, John M Social Science Research Institute

The proposed project will address important research questions relating to catch share fisheries management. The ultimate goal is to produce three academic papers, published in top scientific journals. The paper will focus addressing three broad research questions globally.

Gifts, Grants, and Contracts for July 2009

Research

US Colleges and Universities

Case Western Reserve University	\$114,474
<u>Role of Mitochondria in HIV Lipotrophy</u>	
Gerschenson, Mariana	John A. Burns School of Medicine
Perform laboratory assays on samples submitted by Case Western.	
Drexel University	\$39,718
<u>Sulfur Dioxide and Dimethyl Sulfide Measurements for the VOCALS Field Program</u>	
Blomquist, Byron W	Department of Oceanography
Supervise and conduct an atmospheric chemistry field experiment on US government research aircraft, deployed to the E. Pacific, based out of Arica, Chile. Subsequent responsibility to prepare final dataset and analyze/publish results. The project will be studying sulfur species chemistry and its relationship to the stratocumulus clouds of this region.	
Pennsylvania State University	\$24,018
<u>Preliminary Structures and Tests for Measuring G</u>	
Garmire, David	Department of Electrical Engineering
This work will contain research on preliminary structures to test a new method for the measurement of gravitational constant, G.	
San Diego State University Fdn	\$82,295
<u>Multi-Application Analysis</u>	
Yee, James Ralph	Department of Electrical Engineering
In this project, we investigate methods to control traffic in a communications network so as to satisfy the requirements of a diverse set of users. Particular attention will be paid to Navy networks. This will involve the application of optimization theory, random processes and Monte Carlo simulation.	
Scripps Institution of Oceanography (UC San Diego)	\$369,934
<u>Current Measurements on Global Ocean Repeat Hydrography Cruises, 2009-2014</u>	
Firing, Eric	Joint Institute for Marine and Atmospheric Research
1) To provide high-quality processed shipboard ADCP (SADCP) and lowered ADCP (LADCP) measurements on all cruises of the 2009-2014 phase of the CLIVAR Repeat Hydrography program, 2) to assist ODF personnel in acquiring a basic LADCP operational capability so as to facilitate this part of the CLIVAR measurements.	
Southern California, University of	\$37,123
<u>WIHS</u>	
Shikuma, Cecilia M	Department of Medicine
The consortium is to continue to participate in the WIHS study, a longitudinal study to define characteristics of HIV infected women.	
Washington, University of	\$191,445
<u>Renewal of Diabetes Prevention Program Outcomes Study - Phase 2</u>	
Arakaki, Richard F	Department of Medicine
Maintain outcome measures and retention of the Diabetes Prevention Program cohort in Hawaii. Intervention of lifestyle modification and metformin treatment are continued during the course of this proposal in people at risk and who have developed diabetes. In addition, more extensive outcome measures will be obtained in participants who have developed diabetes.	

Gifts, Grants, and Contracts for July 2009

Research

Subcount: 103 **Subtotal:** \$22,215,256

Non-Research

DA-Dept of Agriculture

Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED \$70,668

Hawaii Diabetes Detection and Prevention Project

Zee, Julia M Department of Human Nutrition, Food and Animal Sciences

The Hawaii Diabetes Detection and Prevention Project is a community-based Extension program to increase public awareness of diabetes, risk factors for diabetes, and healthy living behaviors to prevent or delay diabetes and related complications, through community screening events and educational outreach.

Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED \$100,000

Sustainable Communities Project Through Successful Community Partnerships

Ikeda, Carol S Department of Family and Consumer Sciences

Deliver educational programs to youth and families in targeted communities and build sustainability of programs through successful community partnerships.

Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED \$70,477

University of Hawaii Extension IPM Program 2009

Hara, Arnold H Department of Plant and Environmental Protection Sciences

Provide extension activities to promote adoption of Integrated Pest Management for stakeholders in specified areas of emphasis: high value/high input or intensively managed crops including livestock, consumer and urban settings, and pests of humans and vectors of disease.

Agriculture, Dept - FED \$1,000

East Hawaii 4-H Program

Settlage, Becky College of Tropical Agriculture and Human Resources

For 4-H educational programs.

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Ctrs for Disease Cntrl & Prvntn (CDC) \$233,487

Coordinating Center for the National Academic Centers of Excellence on Youth Violence Prevention

Hishinuma, Earl S Department of Psychiatry

Fulfill overall objectives of the ACE program by: 1) enabling faster development, synthesis, & broader dissemination of center-specific/cross-center activities & products in youth interpersonal violence research & practice; and 2) serving as a key resource for the efficient national translation of knowledge generated by the ACE program into health & community practice.

Health & Human Svc, Dept - Ctrs for Disease Cntrl & Prvntn (CDC) \$828,062

Pacific Center of Excellence in the Elimination of Disparities

Palafox, Neal A Department of Family Medicine and Community Health

Provide infrastructure and technical assistance to the Pacific populations to 1) implement the respective strategies within the comprehensive cancer plans as they relate to breast and cervical cancer 2) Work with the ISAPI population in Hawaii and 3) serve as a national resource center.

Gifts, Grants, and Contracts for July 2009

Non-Research

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - FED	\$272,168
<u>Enhancement of Community Health Nursing Workforce Supply in Hawaii and Asian Pacific Islands</u>	
Qureshi, Kristine	School of Nursing and Dental Hygiene
To implement and evaluate a new advanced practice graduate nursing degree in public/community health nursing, to increase public/community health capacity in the State of Hawaii in order to address health disparities among people of this region.	
Health & Human Svc, Dept - FED	\$260,263
<u>Dual MS/MBA for Nurse Administrators</u>	
Boland, Mary G	School of Nursing and Dental Hygiene
To strengthen the UHM SONDH's masters' degree program in Nursing Administration by partnering with the UHM College of Business to develop, implement, and evaluate a dual master program in nursing and business administration so that students will be able to obtain both degrees in three years.	
Health & Human Svc, Dept - Hlth Res & Svcs Adm (HRSA)	\$595,166
<u>Hawaii MCH Leadership Neurodevelopmental Disabilities</u>	
Iwaishi, Louise K	Center on Disability Studies
Interdisciplinary leadership training for advanced graduate students in maternal child leadership.	
Health & Human Svc, Dept - Hlth Res & Svcs Adm (HRSA)	\$319,945
<u>Program for the Retention of Nursing Students (PRNs)</u>	
Mark, Debra D	Department of Nursing
The purpose of the Program for the Retention of Nursing students (PRNs) is to improve the nursing workforce diversity in Hawaii through a program of educational opportunities and support in order to improve success as measured by graduation rates and NCLEX-RN licensure for individuals from disadvantaged backgrounds in rural Hawaii.	
Health & Human Svc, Dept - Hlth Res & Svcs Adm (HRSA)	\$292,658
<u>Online PhD Program for Rural Underserved Communities</u>	
LeVasseur, Sandra	Department of Nursing
The purpose of the continuation project is to complete the implementation and evaluation of the Online PhD program in nursing. Over the next three years the program will develop culturally sensitive recruitment strategies to expand access to AAPI students, upgrade to a blended IT communication model using synchronous software, and build a virtual research community.	
Health & Human Svc, Dept - Hlth Res & Svcs Adm (HRSA)	\$300,875
<u>Implementation of a New Adult Health Clinical Nurse Specialist Program Using Electronic Distance Learning Technology</u>	
Lima, Christine	Department of Nursing
Implementation via electronic distance learning methodologies such as video teleconference and Sakai online learning system, will allow nurses who are unable to access classes in traditional on-campus setting to acquire the necessary advanced nursing knowledge and skills to become clinical nurse specialists.	
Health & Human Svc, Dept - Natl Inst of Health (NIH)	\$198,838
<u>Multimedia Intervention to Motivate Ethnic Teens to be Designated Organ Donors</u>	
Albright, Cheryl L.	Cancer Research Center
Recruit teen groups from church and high school clubs, n = 38 groups; 500 teens, Deliver Interactive Multimedia Intervention to clubs in this condition and deliver comparison intervention - on prevention of Underage Drinking of Alcohol - for this condition. Assess designated organ donor status on driver's license/ID and family discussions.	

Gifts, Grants, and Contracts for July 2009

Non-Research

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Natl Inst of Health (NIH) \$158,687

Parallel MRI for Substance Abuse Research

Stenger, Victor Andrew Department of Medicine

Career development award - to continue as an independent investigator on won NIH projects as well as mentor junior investigators and participate in other clinical research projects.

Health & Human Svc, Dept - Natl Inst of Health (NIH) \$154,872

High School Students STEP-UP to Biomedical Research

Hui, George S N Dept of Trop Med, Medical Microbiology and Pharmacology

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

Health & Human Svc, Dept/NIH - Natl Heart, Lung, & Blood Inst \$144,990

Cardiovascular Autonomic Function in HIV Virologic Failure

Chow, Dominic Cheung Pacific Biosciences Research Center

To determine the autonomic function of HIV-infected individuals with viremia compared with HIV-infected individuals with virologic suppression.

DOC-Dept of Commerce

Commerce, Dept - Minority Business Dev Agency-FED \$118,825

Honolulu Minority Business Enterprise Center

Morton, John F Vice President for Community Colleges

The Minority Business Development Agency Award supports the Honolulu Minority Business Enterprise Center that will provide economic development and technical assistance work to minority business enterprises located in Hawaii.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) \$15,000

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

Okimoto, Darren K Sea Grant College Program

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

DOD-Department of Defense

Defense, Dept - Advanced Rsch Proj Agency \$175,560

Memorandum of Agreement Regarding High Performance Communication Cooperation

Lassner, David K Information Technology Services

Provision of Trans-Pacific Network capacity between Hawaii and California for Defense Research and Engineering Network (DREN).

Gifts, Grants, and Contracts for July 2009

Non-Research

DOI-Dept of Interior

Interior, Dept - U.S. Fish & Wildlife Service \$50,951

Olinda Rare Plant Facility

Kaneshiro, Kenneth Y

Pacific Biosciences Research Center

Assist in ex situ aspects of the recovery of endangered and threatened plants and other declining plant species as part of a larger strategy to reintroduce species back into suitable protected and managed habitat. Facility will also provide host plants for Maui and Oahu tree snails for captive propagation.

ED-Dept of Education

Education, Dept - FED \$355,500

Center for Southeast Asian Studies National Resource Center - FLAS

Andaya, Barbara J W

Center for South Asian Studies

Support for programs in Southeast Asian Studies campus wide including foreign language fellowships.

Education, Dept - FED \$152,117

Improving Teacher Quality Grants (2010) - SAHES

Sorensen, Christine

College of Education

Administer grant competition within Hawaii for higher education projects to improve teacher quality.

Education, Dept - FED \$190,000

Halauloa

Yamane, Noreen R

Chancellor, Hawaii Community College

The project will (1) increase services and educational resources that ensure student success, (2) increase cultural proficiency of faculty and staff to provide cultural education for students and the college and (3) increase HawaiiCC student's global connectedness to cultural education from an indigenous perspective.

Education, Dept - FED \$238,000

Henry Ku'ualoha Giugni Archives Beta Pilot Program

Lee, Christopher Paul

Vice President for Research

The Henry Ku'ualoha Giugni Archives Beta Pilot Program (hereafter the HKG Archives Beta) is designed to demonstrate the efficacy and accessibility of the HKG Archives by aggregating, transferring and distributing via the internet the Collection of the HKG Archives.

Education, Dept - FED \$263,255

National Resource Center for East Asian Studies at the University of Hawaii - NRC

Huey, Robert N

Center for Japanese Studies

Funding for new course development evaluation of East Asian Languages Program (including placement tests), outreach activities, library acquisitions, and graduate student fellowships in East Asian Studies at University of Hawaii

Education, Dept - FED \$345,000

Proposal to Continue Funding of the university of Hawaii National Foreign Language Resource Center (NFLRC), 2006-2010, under the Language Resource Cen

Schmidt, Richard W

Department of Second Language Studies

The National Foreign Language Resource Center will continue to serve as a resource to improve the nation's capacity to teach and learn foreign languages effectively through projects, publications, and professional development activities that focus on the languages of Asia and the Pacific.

Gifts, Grants, and Contracts for July 2009

Non-Research

ED-Dept of Education

Education, Dept - FED	\$77,491
<u>Hawaii Project for Children and Young Adults who are Deaf-Blind</u>	
Roberts, Kelly D	Center on Disability Studies
Provide Technical Assistance and Training to service providers, families, and youth in the state of Hawaii - associated with Deaf-Blindness.	
Education, Dept - FED	\$293,178
<u>ACE for English Language Learner's Literacy: Professional Development Program</u>	
Kim-Rupnow, Weol Soon	Center on Disability Studies
Our purpose is to develop, provide, and evaluate high-quality Professional Development (DP) activities that will result in improved academic achievement with enhanced English skills and motivation of ESL students.	
Education, Dept - FED	\$261,704
<u>Center for Southeast Asian Studies National Resource Center - NRC</u>	
Andaya, Barbara J W	Center for South Asian Studies
Support for programs in Southeast Asian Studies campus wide including foreign language fellowships.	
Education, Dept - FED	\$1,994,288
<u>Title III Renovation: Strengthening a Cultural Ecology of Learning and Teaching for Student Success</u>	
Richards, Leon	Chancellor, Kapiolani Community College
Renovation of the Center for Excellence in Learning, Teaching and Technology, the Malama Hawaii Center, and five classrooms linked to 5 high profile campus initiatives, Writing Across the Curriculum, STEM (math focus), Learning Communities, Online Learning, and applied technology.	
Education, Dept - FED	\$692,432
<u>Title III, Strengthening a New Ecology of Engaged Teaching and Learning for student Success</u>	
Richards, Leon	Chancellor, Kapiolani Community College
Comprehensive integration of research-based best practices in student support and high impact practices in student learning across the College's continuum of developmental education to degree-applicable course work, associate and baccalaureate degree completion.	
Education, Dept - FED	\$1,099,888
<u>LEI Aloha's Connections to Teaching Careers - 4.336C</u>	
Ho, Curtis P	Department of Educational Technology
To diminish teacher shortages for the State of Hawaii on a long-term basis, a systematic approach to recruitment, preparation, and induction of new teachers needs to be institutionalized. This project proposes to build a collaborative continuum of important educational stakeholders to create more highly knowledgeable teachers for our high needs schools.	
Education, Dept - FED	\$259,256
<u>National Resource Center and Foreign Language and Area Studies Fellowships - NRC</u>	
Hereniko, Vilsoni	Center for Pacific Islands Studies
The work to be funded includes instruction, conferences, and a community outreach program, all designed to promote knowledge of the Pacific Islands. The development of language materials and the enhancement of library resources comprise two other key areas of the project.	

Gifts, Grants, and Contracts for July 2009

Non-Research

ED-Dept of Education

Education, Dept - FED \$92,000
Pacific Project for Children and Young Adults Who are Deaf-blind
Roberts, Kelly D Center on Disability Studies
Provide Technical Assistance and Training to service providers, families, and youth throughout the Pacific Jurisdictions - associated with Deaf-Blindness.

Federal Agencies

Corporation for National and Community Service \$12,000
HIPICC VISTA Project
Pascua, Atina T Vice President for Student Affairs
This VISTA proposal will meet the needs of low income communities in Hawaii and the Pacific Island Territories of American Samoa, Guam, and the Commonwealth of the Northern Marianas (CNMI). The VISTA positions will help to develop programs that will help with literacy and economic revitalization.

Homeland Security, Dept - FED \$4,857,500
FY09 Homeland Security National Training Program - National Disaster Preparedness Training Center, University of Hawaii
Kim, Karl E Department of Urban and Regional Planning
Develop and deliver all-hazards training for Department of Homeland Security FEMA related to disaster response, recovery and preparedness for Hawaii, Pacific Islands and coastal communities, incorporating urban planning and needs of at-risk vulnerable populations.

National Fdn on the Arts & Humanities-Natl Endow for the Humanities \$140,920
Digital Access to Hawaii Newspapers 1880-1922
Hori, Joan Library
The project will digitize (image, convert to text, and mark-up) and submit to the Library of Congress National Digital Newspaper Project important English language newspapers that have historically provided statewide (and prior to annexation to the United States, country wide) coverage and which have had significant influence on the archipelago.

Foreign

Guam Preservation Trust \$23,693
2009 Historic Preservation Summer Field School
Chapman, William R Department of American Studies
Lectures and field exercises on the basics of historic preservation on Guam. Local Chamorro and World War II-era historic sites will be investigated.

Melbourne, University of \$83,683
Relating to Malaria in Pregnancy, Major Activity 13: Pathogenesis, Immunity and Burden of Disease, (Placental Malaria Workshop and Ultrasound Study)
Taylor, Diane W. Dept of Trop Med, Medical Microbiology and Pharmacology
The goal of this subcontract agreement is to: 1) organize and conduct a workshop on Placental Malaria in Cameroon, March 2008 and 2) conduct studies using ultrasound to examine the importance of timing of malaria infection to pregnancy outcome.

Gifts, Grants, and Contracts for July 2009

Non-Research

Hawaii- Business and Other

Hawaiian Electric Co, Inc	\$71,863
<u>Custom Regional Economic Forecasting and Consulting Services</u>	
Bonham, Carl Stanley	Department of Economics
UHERO will provide 30 year forecasts of major economic indicators needed by HECO, MECO, and HELCO for the preparation of their internal forecasting exercises. Variables to be forecast include visitor statistics, personal	
Hawaiian Electric Co, Inc	\$69,541
<u>Custom Regional Economic Forecasting and Consulting Services</u>	
Bonham, Carl Stanley	Department of Economics
UHERO will provide 30 year forecasts of major economic indicators needed by HECO, MECO, and HELCO for the preparation of their internal forecasting exercises. Variables to be forecast include visitor statistics, personal	
Healy Tibbits Builders, Inc.	\$56,977
<u>Ocean Engineering Internship</u>	
Cheung, Kwok Fai	Department of Ocean and Resources Engineering
Internship program for graduate students in Ocean and Resources Engineering.	
Kamehameha Schools	\$768,327
<u>CREDE Professional Development</u>	
Yamauchi, Lois A	Department of Educational Psychology
To promote use of the CREDE Standards for Effective Teaching and Learning among teachers of Native Hawaiian students and to evaluate the effects of these professional development activities on teachers' instruction and	
Le Jardin Academy	\$16,704
<u>University of Hawaii at Manoa Advanced Athletic Training Graduate Assistantship Program - Le Jardin Academy (2009-2011)</u>	
Kimura, Iris F	Kinesiology and Leisure Science Department
Advanced education and research internship experience: A Board of certification Athletic Trainer will participate in clinical and research experiences in order to enhance the educational and research application of athletic training/sport medicine practice.	
Le Jardin Academy	\$17,374
<u>University of Hawaii at Manoa Advanced Athletic Training Graduate Assistantship Program - Le Jardin Academy (2009-2011)</u>	
Kimura, Iris F	Kinesiology and Leisure Science Department
Advanced education and research internship experience: A Board of certification Athletic Trainer will participate in clinical and research experiences in order to enhance the educational and research application of athletic training/sport medicine practice.	
Makai Ocean Engineering, Inc	\$29,633
<u>Ocean Engineering Internship</u>	
Cheung, Kwok Fai	Department of Ocean and Resources Engineering
Internship program for graduate students in Ocean and Resources Engineering.	

Gifts, Grants, and Contracts for July 2009

Non-Research

Hawaii- Dept of Education

Education, Dept - HI \$19,732
Hawaii Writing Project Summer Institutes
Nowak, Rhonda Institute for Teacher Education
Teacher professional development in literacy/language arts.

Hawaii- Government Agencies

Acctg & General Svc, Dept - State Fdn on Culture & the Arts-HI \$18,060
Memorandum of Agreement Between the State Foundation on Culture and the Arts and the University of Hawaii
Yoshihara, Lisa Department of Art and Art History
Graduate Student Internship for visual arts curatorial and exhibition studies.

City & County of Honolulu \$436,067
Hanauma Bay Education Program 2008-12
Okimoto, Darren K Sea Grant College Program
To provide technical and professional services to develop and manage and educate and interpretative program for the Hanauma Bay Nature Preserve.

County of Kauai \$100,000
Update County of Kauai's Multi-Hazard Mitigation Plan
Anderson, Cheryl Social Science Research Institute
The project will update the County of Kauai's Multi-Hazard Mitigation Plan that is required by the Federal Emergency Management Agency for Kauai to remain eligible for funding to reduce disaster risks. UH will work with the county to update their plan.

County of Kauai \$20,000
Comprehensive Interactive Statistical Database for Kauai
Gangnes, Byron Scott Social Science Research Institute
Create and maintain a comprehensive statistical database for Kauai, to be presented in a web-based, on-line format, in tabular and graphical form, that can be downloaded and printed as a databook; prepare brief Kauai Economic outlook summary; consultation.

Hawaiian Home Lands, Dept - HI \$4,390
Kanakaleonui Bird Corridor - Continuation
Ziegler-Chong, Sharon Pacific Aquaculture-UHH
Create comprehensive plan for DHHL lands at Kanakaleonui

Health, Dept - Adult Mental Health-HI \$1,122,860
Research & Evaluation, Psychosocial Rehabilitation, and Management Information Systems Services
Wylie, Alexander M Social Science Research Institute
Provide mental health services research evaluation and training and MIS services to AMHD.

Gifts, Grants, and Contracts for July 2009

Non-Research

Hawaii- Government Agencies

Health, Dept - Adult Mental Health-HI	\$206,134
<u>Research & Evaluation, Psychosocial Rehabilitation, & Management Info. System Services</u>	
Wylie, Alexander M	Social Science Research Institute
Provide mental health services research evaluation and training and MIS services to AMHD.	
Health, Dept - Child & Adolescent Mntl Hlth Div-HI	\$140,497
<u>Ohana Ho'oikaika UH School of Social Work & Dept of Health CAMHD</u>	
Morelli, Paula T	School of Social Work
Develop and provide case management curricula, training and services as described in attached scope of services.	
Health, Dept - HI	\$83,775
<u>HIV Care Services Training and Education</u>	
Goshima, Cyril K	Department of Psychiatry
Provide HIV/AIDS training for AIDS Service Organization case managers in Hawaii.	
Health, Dept - HI	\$200,500
<u>REACT: Enforcement of Underage Alcohol Sales</u>	
Albright, Cheryl L.	Cancer Research Center
Conduct and report results of statewide alcohol sales survey to determine the rate of alcohol sales to underage youth in retail stores and to support enforcement of liquor laws.	
Health, Dept - HI	\$187,335
<u>Graduate Assistant Research and Evaluation Project</u>	
Mueller, Charles	Department of Psychology
Psychology Department and Department of Child and Adolescent Mental Health Division (DOH-CAMHD) collaborate to provide research and evaluation training for graduate psychology students.	
Health, Dept - HI	\$81,100
<u>Education Research Services for the Implemenatation of the Synar Amendment</u>	
Albright, Cheryl L.	Cancer Research Center
A scientific sample of tobacco retail outlets will be visited by undercover minors and volunteer adults. The minors will attempt to purchase tobacco in each of the outlets. Sales statistics will be collected and reported.	
Health, Dept - HI	\$162,210
<u>EMS Planning and Development of Distant Learning on Maui, Kauai and Hawaii</u>	
Kalinowski, Edward J	Chancellor, Kapiolani Community College
Purchase equipment and supplies to support EMS education on Maui, Kauai and Hawaii and to fund an instructor on Kauai.	

Gifts, Grants, and Contracts for July 2009

Non-Research

Hawaii- Government Agencies

Health, Dept - HI	\$125,014
<u>HIV Prevention Evaluation Services</u>	
Katz, Alan Roy	Office of Public Health Studies
Support the development of the evaluation for the HIV prevention services STD/AIDS Branch.	
Human Services, Dept - HI	\$232,507
<u>Partnership to Promote the Efficiency and Effectiveness of the State of Hawaii's Medicaid Program through an Oral Health Initiative.</u>	
Johnson, Nancy K	Chancellor, Maui Community College
Maui Community College Allied Health Department and Oral Health professionals will provide administrative case management, intra/agency coordination, collaboration and administration, program planning and policy development, quality management, and training of dental auxiliaries.	
Human Services, Dept - Ofc of Youth Svcs-HI	\$49,742
<u>Case Management and Specialize Training for Service Providers</u>	
Godinet, Meripa T.	School of Social Work
Case Management and specialize training for workers of the Hawaii Youth Correctional Facility.	

Hawaii- Health Organizations

Elam Sports, Inc	\$20,321
<u>University of Hawaii at Manoa Advanced Athletic Training Graduate Assistantship Program - Elam Sport Oahu (2009-2011)</u>	
Kimura, Iris F	Kinesiology and Leisure Science Department
`Advanced education and research internship experience: A Board of Certification Athletic Trainer will participate in clinical and research experiences in order to enhance the educational and research application of athletic training/sport medicine practice.	
Elam Sports, Inc	\$21,137
<u>University of Hawaii at Manoa Advanced Athletic Training Graduate Assistantship Program - Elam Sport Oahu (2009-2011)</u>	
Kimura, Iris F	Kinesiology and Leisure Science Department
`Advanced education and research internship experience: A Board of Certification Athletic Trainer will participate in clinical and research experiences in order to enhance the educational and research application of athletic training/sport medicine practice.	
Kapiolani Medical Specialists	\$319,458
<u>Reimbursement Agreement - FY2010, Agreement No. SF10-KMS-Psych</u>	
Andrade, Naleen N	Department of Psychiatry
Agreement to provide physician and physician related services for FY 2010.	
Kuakini Medical Center	\$62,411
<u>Reimbursement Agreement - FY2010, Agreement No. SF10-KUAKINI-GERIATRICS</u>	
Masaki, Kamal H	Department of Geriatric Medicine
Agreement to provide physician and physician-related services for FY2010.	

Gifts, Grants, and Contracts for July 2009

Non-Research

Hawaii- Health Organizations

Kuakini Medical Center	\$739,619
<u>Reimbursement Agreement - FY2010, Agreement No. SF10-KUAKINI-SURG</u>	
Takanishi, Danny M Jr.	Department of Surgery
Salary, Fringe Benefit & Malpractice reimbursement agreement to provide physician and physician related services for FY 2010.	
Kuakini Medical Center	\$174,886
<u>Reimbursement Agreement - FY2010, Agreement No. SF10-KUAKINI-MED</u>	
Tam, Elizabeth K	Department of Medicine
Salary, Fringe Benefit & Malpractice reimbursement agreement to provide physician and physician related services for FY 2010.	
Queen Emma Clinic	\$337,341
<u>Reimbursement Agreement - FY2010, Agreement No. SF10-QEC-MED</u>	
Tam, Elizabeth K	Department of Medicine
Agreement to provide physician and physician related services for FY2010	
Queen's Medical Center	\$134,283
<u>Reimbursement Agreement - FY2010, Agreement No. SF10-QMC-SURG-TRAUMA</u>	
Takanishi, Danny M Jr.	Department of Surgery
Agreement to provide physician and physician related services for FY2010.	
Wahiawa General Hospital	\$612,210
<u>Reimbursement Agreement - FY2010, Agreement No. FSA10-WGH-FMCH</u>	
Palafox, Neal A	Department of Family Medicine and Community Health
Agreement to provide physician and physician related services for FY 2010	

Hawaii- Non-Profit Organizations

Coalition for a Drug Free Hawaii	\$27,500
<u>Performance Assessment of the Drug Free Community Project</u>	
Kameoka, Velma A	Department of Psychology
Purpose of this project is to assess the effectiveness of the DHHS-CCSAP Drug Free Community (DFC) project by designing and conducting performance assessments of DFC project-supported programs.	
Hawaii Parkinson Association	\$39,372
<u>Hawaii Parkinson Association Coordinator</u>	
Masaki, Kamal H	Department of Geriatric Medicine
S&F Agreement for Hawaii Parkinson Association for Center Coordinator 0.5 FTE	
Molokai Community Service Council	\$19,330
<u>Molokai Na Lei Mamo Project Year 4</u>	
Wilson, Leven	School of Social Work
Providing training, consultation and supervision to staff of the Na Lei Mamo Project based in Molokai.	

Gifts, Grants, and Contracts for July 2009

Non-Research

Hawaii- Non-Profit Organizations

Pacific International Ctr for High Tech Research	\$51,550
<u>PICHTR Hawaii Renewable Energy Development Venture</u>	
Rocheleau, Richard E	Hawaii Natural Energy Institute
Provide services to PICHTR in support of the Hawaii Renewable Energy Development Venture established under U.S. Department of Energy (USDOE) Agreement No. DE-FG36-08GO88146 for the State of Hawaii to make progress towards a meaningful level of energy self-sufficiency by integrating renewable energy technology.	
University of Hawaii Foundation	\$55,914
<u>The Soshitsu Sen XV Distinguished Professor of Traditional Japanese Cultural History</u>	
McNally, Mark	Department of History
To partially support the salary and fringe benefits for the Soshitsu Sen XV Distinguished Professor of Traditional Japanese Cultural History.	
University of Hawaii Foundation	\$6,000
<u>Northrop Grumman Teaching Award</u>	
Crouch, Peter	College of Engineering
Annual teaching award of \$2,000 to the Engineering faculty member who is deemed by the College of Engineering	
University of Hawaii Foundation	\$68,500
<u>Hartford Center of Excellence</u>	
Masaki, Kamal H	Department of Geriatric Medicine
To attract additional outstanding faculty to academic careers in Geriatric Medicine and to facilitate in their career development.	
University of Hawaii Foundation	\$2,500
<u>Center for Korean Studies Educational Activities</u>	
Sohn, Ho-Min	Center for Korean Studies
To fund educational activities of the Center - honorariums and overloads.	
University of Hawaii Foundation	\$21,782
<u>GIS S&F Agreement</u>	
Masaki, Kamal H	Department of Geriatric Medicine
Salary and Fringe Benefit Expenses for Geriatric Inpatient Teaching Services.	
University of Hawaii Foundation	\$95,325
<u>Law School Annual Fund</u>	
Soifer, Aviam	William Richardson School of Law
Process payment for Law School UHF account with payroll and tax implications.	
University of Hawaii Foundation	\$213,000
<u>P-20 Educational Outcomes</u>	
Johnsrud, Linda K	Vice President for Academic Planning and Policy
To pay for salary and fringe cost for Hawaii'i P-20 staff to implement the Hawaii'i P-20 Initiative Strategic Plan.	

Gifts, Grants, and Contracts for July 2009

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$173,000
Hartford Center of Excellence
Masaki, Kamal H Department of Geriatric Medicine
To attract additional outstanding faculty to academic careers in Geriatric Medicine and to facilitate in their career development.

Mainland- Non-Profit Organizations

Association for Prevention Teaching and Research \$14,948
Collaborative Integration of Public Health Content into Undergraduate Education
Heinrich, Katie Department of Public Health Sciences and Epidemiology
This grant will be used to develop 6 public health curriculum modules and train undergraduate social sciences faculty on the modules. A second task will be to develop, conduct, and evaluate an undergraduate public health issues course.

National Science Foundation

National Science Foundation \$397,757
The Ho'okahua Project
Nakama, Debra Chancellor, Maui Community College
The Ho'okahua Project aims to strengthen science, technology, and math curriculum, courses and programs to promote the enrollment, retention and completion of Hawaiian students in these areas.

National Science Foundation \$197,278
Ocean FEST: Families Exploring Science Together (OEDG Track 1)
Bruno, Barbara Department of Oceanography
Ocean-themed family science nights at elementary schools and marine science education venues in Hawaii.

National Science Foundation \$295,222
REU Site: University of Hawai'i (UH) High Performance Computing (HPC) Computational Fluid Dynamics (CFD) Applications in Engineering
Brown, Susan T College of Engineering
This grant will provide Research Experiences for Undergraduates for ten undergraduate students during the summer for three consecutive years. They will learn computational fluid dynamics applications in engineering using high performance computing under the guidance of faculty and graduate students.

National Science Foundation \$299,751
Partnership for Advanced Marine and Environmental Science Training for Pacific Islanders
Richmond, Robert H Pacific Biosciences Research Center
Continued partnership with Pacific Island community colleges to strengthen their marine and environmental sciences programs, and facilitate articulation to 4 year degree programs.

National Science Foundation \$49,999
Pacific Ocean Literacy for Youth, Publics, Professionals and Scientists (POLYPPS)
Cooper, Patricia A School of Ocean and Earth Science and Technology
Training educators and scientists to effectively communicate ocean sciences to a multi-ethnic population expressing a range of cultural contexts. POLYPPS is a collaboration whose partners include universities,

Gifts, Grants, and Contracts for July 2009

Non-Research

National Science Foundation

community colleges, research institutes, professional societies, aquariums, museums, community organizations, government agencies and private companies.

National Science Foundation \$70,000

Computational Upgrade for the SOEST Geophysics and Tectonics Group

Conrad, Clinton P

Department of Geology and Geophysics

This proposal requests funds to upgrade a multi-processor computer cluster, which is being used and maintained by the PI's. The proposed new hardware will greatly enhance our computing power for carrying out research in computational geodynamics and seismology.

US Colleges and Universities

Western Washington University \$26,000

Student in Service (SIS)

Pascua, Atina T

Vice Chancellor for Academic Affairs

Provide opportunities for students to be involved in community service and service learning.

Subcount:	92	Subtotal:	\$24,561,133
Count:	<u>195</u>	Total:	<u>\$46,776,389</u>

Funds Received from UH Foundation for 07/01/2009 - 07/31/2009

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation	\$6,000
"Northrop Grumman Teaching Award"	
Crouch, Peter	College of Engineering
Annual teaching award of \$2,000 to the Engineering faculty member who is deemed by the College of Engineering to be the best teacher that year.	
University of Hawaii Foundation	\$213,000
"P-20 Educational Outcomes"	
Johnsrud, Linda K	Vice President for Academic Planning and Policy
To pay for salary and fringe cost for Hawai'i P-20 staff to implement the Hawai'i P-20 Initiative Strategic Plan.	
University of Hawaii Foundation	\$21,782
"GIS S&F Agreement"	
Masaki, Kamal H	Department of Geriatric Medicine
Salary and Fringe Benefit Expenses for Geriatric Inpatient Teaching Services.	
University of Hawaii Foundation	\$173,000
"Hartford Center of Excellence"	
Masaki, Kamal H	Department of Geriatric Medicine
To attract additional outstanding faculty to academic careers in Geriatric Medicine and to facilitate in their career development.	
University of Hawaii Foundation	\$68,500
"Hartford Center of Excellence"	
Masaki, Kamal H	Department of Geriatric Medicine
To attract additional outstanding faculty to academic careers in Geriatric Medicine and to facilitate in their career development.	
University of Hawaii Foundation	\$55,914
"The Soshitsu Sen XV Distinguished Professor of Traditional Japanese Cultural History"	
McNally, Mark	Department of History
To partially support the salary and fringe benefits for the Soshitsu Sen XV Distinguished Professor of Traditional	
University of Hawaii Foundation	\$2,500
"Center for Korean Studies Educational Activities"	
Sohn, Ho-Min	Center for Korean Studies
To fund educational activities of the Center - honorariums and overloads.	
University of Hawaii Foundation	\$95,325
"Law School Annual Fund"	
Soifer, Aviam	William Richardson School of Law
Process payment for Law School UHF account with payroll and tax implications.	

Funds Received from UH Foundation for 07/01/2009 - 07/31/2009

Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$3,500

"Korean Language Proficiency in Child Heritage Learners"

O'Grady, William D Department of Linguistics

The proposed project will refine and test a new tool for assessing language proficiency in 'heritage speakers' of Korean--children of Korean immigrants who learned the family language at home, but subsequently became more fluent in English.

Count: 9

Total: \$639,521

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

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	1	\$10,500	0.05%
DHHS-Dept of Health and Human Services	20	\$9,305,426	41.89%
DOC-Dept of Commerce	4	\$2,366,881	10.65%
DOD-Department of Defense	8	\$1,554,200	7.00%
DOI-Dept of Interior	3	\$88,588	0.40%
Hawaii- Business and Other	2	\$150,520	0.68%
Hawaii- Government Agencies	11	\$2,158,269	9.72%
Hawaii- Non-Profit Organizations	4	\$138,480	0.62%
Mainland- Business and Other	4	\$219,156	0.99%
Mainland- Non-Profit Organizations	2	\$184,554	0.83%
National Aeronautics and Space Administration	19	\$1,593,742	7.17%
National Science Foundation	15	\$3,152,683	14.19%
US Colleges and Universities	10	\$1,292,257	5.82%
Total:	<u>103</u>	<u>\$22,215,256</u>	<u>100%</u>

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

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	4	\$242,145	0.99%
DHHS-Dept of Health and Human Services	12	\$3,760,011	15.31%
DOC-Dept of Commerce	2	\$133,825	0.54%
DOD-Department of Defense	1	\$175,560	0.71%
DOI-Dept of Interior	1	\$50,951	0.21%
ED-Dept of Education	14	\$6,314,109	25.71%
Federal Agencies	3	\$5,010,420	20.40%
Foreign	2	\$107,376	0.44%
Hawaii- Business and Other	7	\$1,030,419	4.20%
Hawaii- Dept of Education	1	\$19,732	0.08%
Hawaii- Government Agencies	16	\$3,170,191	12.91%
Hawaii- Health Organizations	9	\$2,421,666	9.86%
Hawaii- Non-Profit Organizations	12	\$773,773	3.15%
Mainland- Non-Profit Organizations	1	\$14,948	0.06%
National Science Foundation	6	\$1,310,007	5.33%
US Colleges and Universities	1	\$26,000	0.11%
Total:	<u>92</u>	<u>\$24,561,133</u>	<u>100%</u>

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

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	1	\$10,500	0.05%
DHHS-Dept of Health and Human Services	20	\$9,301,176	42.34%
DOC-Dept of Commerce	4	\$2,167,353	9.87%
DOD-Department of Defense	8	\$1,553,015	7.07%
DOI-Dept of Interior	3	\$88,588	0.40%
Federal Agencies		-\$164	0.00%
Hawaii- Business and Other	2	\$150,520	0.69%
Hawaii- Government Agencies	11	\$2,158,269	9.83%
Hawaii- Non-Profit Organizations	4	\$110,075	0.50%
Mainland- Business and Other	4	\$203,792	0.93%
Mainland- Non-Profit Organizations	2	\$184,554	0.84%
National Aeronautics and Space Administration	19	\$1,593,742	7.26%
National Science Foundation	15	\$3,152,683	14.35%
US Colleges and Universities	10	\$1,292,257	5.88%
Total:	<u>103</u>	<u>\$21,966,360</u>	<u>100%</u>

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

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DA-Dept of Agriculture	4	\$242,145	0.99%
DHHS-Dept of Health and Human Services	12	\$3,760,011	15.36%
DOC-Dept of Commerce	2	\$133,825	0.55%
DOD-Department of Defense	1	\$175,560	0.72%
DOI-Dept of Interior	1	\$50,951	0.21%
ED-Dept of Education	14	\$6,314,109	25.79%
Federal Agencies	3	\$5,010,420	20.47%
Foreign	2	\$107,376	0.44%
Hawaii- Business and Other	7	\$1,030,419	4.21%
Hawaii- Dept of Education	1	\$19,732	0.08%
Hawaii- Government Agencies	16	\$3,106,875	12.69%
Hawaii- Health Organizations	9	\$2,421,666	9.89%
Hawaii- Non-Profit Organizations	12	\$773,773	3.16%
Mainland- Business and Other		-\$16,057	-0.07%
Mainland- Non-Profit Organizations	1	\$14,948	0.06%
National Science Foundation	6	\$1,310,007	5.35%
US Colleges and Universities	1	\$26,000	0.11%
Total:	<u>92</u>	<u>\$24,481,760</u>	<u>100%</u>