

Gifts, Grants, and Contracts

The following gifts, grants and contracts received by all campuses except the University of Hawai'i at Hilo during the period May 1, 2008 through May 31, 2008 total \$\$ 18,067,297. The University of Hawai'i at Hilo received a total of \$\$448,145 during the same period.

Gifts, Grants and Contracts Received May 1 - 31, 2008

RESEARCH AWARDS

FROM: Dept of Education

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|--|---------------------------|
| 1. DOI-Fish & Wildlife | \$11,750 |
| "Mapping Non-native/Invasive Plants on Midway Atoll NWR (Eastern Island, Sand Island, and Spit Island) for Early Detection and Rapid Response" | |
| Duffy, David | Botany |
| Conduct a follow-up weed survey of potentially invasive plants by using previously surveyed areas on Midway Atoll. | |
| 2. DOI-Nat'l Park Service | \$75,742 |
| "Identification of Ancient and Historic Trails in the Ala Kahakai Corridor in Kohala, Kona and Kau, Island of Hawaii" | |
| Minerbi, Luciano | Urban & Regional Planning |
| Identification of ancient and historic trails in the Ala Kahakai Corridor in Kohala, Kona and Kau, Island of Hawaii. | |

FROM: DHHS-Dept of Health & Human Services

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| 1. National Institutes of Health | \$259,832 |
| "CRF-Norepinephrine Interactions in Stress and Depression" | |
| Dunn, Adrian | Pacific Biosciences Research |
| The goal of this project is to examine the interactions between the brain neurons containing norepinephrine (NE) and corticotropin-releasing factor (CRF) in mice and rats under conditions of chronic stress to provide insight into the mechanisms involved in anxiety disorders and depression. | |
| 2. National Institutes of Health | \$240,557 |
| "TRPV Pharmacophores from Cnidarian Venom" | |
| Yanagihara, Angel A | Pacific Biosciences Research |
| Cnidarian venom fractions will be screened for Transient Receptor Potential (TRP) vanilloid receptor related class channel activity (TRPV1 and TRPV2). Active compounds will be isolated and then chemically and pharmacologically characterized. | |
| 3. NIH-Nat'l Inst of Mental Health (NIMH) | \$69,200 |
| "Neurologic Predictors of Schizophrenia" | |
| Schiffman, Jason | Psychology |
| Propose to analyze existing data that might be useful in the prediction of psychopathology. (This is for Progress Report 1.) | |

4. NIH-Nat'l Inst of Nursing Research \$147,886
 "A Culturally Relevant Risk Reduction Intervention with Native Hawaiian Mothers"
 Dodgson, Joan E. Nursing
 A Hawaiian cultural model applied within a community-based participatory research paradigm will be integrated in this research. The intervention incorporates the existing evidence-base on perinatal risk reduction through home visiting, social support and lactation management framed within a Native Hawaiian cultural context. A 2-group quasi-experimental design is used.

FROM: DOC-Dept of Commerce

1. DOC-National Oceanic & Atmospheric Administration \$1,700,000
 "Developing the Hawaii-Pacific Ocean Observing and Information System"
 Taylor, Brian Sch Ocean, Earth Sci & Tec
 Year 2 of 3, continuing development of ocean observing system of Oahu.
2. NOAA-National Ocean Service (NOS) \$60,408
 "Supplement to Project Award Number: NA05NOS4261173 Integrated Coral Ecosystem Mapping and Monitoring of U.S. Pacific Reefs"
 Jokiel, Paul L Haw Inst Marine Bio-SOEST
 Conduct fieldwork and subsequent lab analyses of NOAA benthic habitat maps in the Pacific, build on previous fish-habitat utilization work, assist with previously approved fish-habitat utilization assessment and monitoring projects in the Main Hawaiian Islands and US Pacific territories using the new NOAA benthic habitat maps.

FROM: DOD-Dept of Defense

1. DOD-Dept of Air Force \$7,528
 "Operations and Management of the Maui Supercomputing Center"
 Lassner, David K Info Technology Services
 Cost reimbursement award term contract for research, development, operations and management of the Maui Supercomputing Center.
2. DOD-Dept of Air Force \$6,240
 "Operations and Management of the Maui Supercomputing Center"
 Lassner, David K Info Technology Services
 Cost reimbursement award term contract for research, development, operations and management of the Maui Supercoming Center.
3. DOD-Dept of Air Force \$266,803
 "Operations and Management of the Maui Supercomputing Center"
 Lassner, David K Info Technology Services
 Cost reimbursement award term contract for research, development, operations and management of the Maui Supercomputing Center.

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| 4. | DOD-Dept of Air Force
"Operations and Management of the Maui Supercomputing Center"
Lassner, David K Info Technology Services
Cost reimbursement award term contract for research, development, operations and management of the Maui Supercoming Center. | \$14,000 |
| 5. | DOD-Dept of Air Force
"Operations and Management of the Maui Supercomputing Center"
Lassner, David K Info Technology Services
Cost reimbursement award term contract for research, development, operations and management of the Maui Supercomputing Center. | \$771 |
| 6. | DOD-Dept of Air Force
"Operations and Management of the Maui Supercomputing Center"
Lassner, David K Info Technology Services
Cost reimbursement award term contract for research, development, operations and management of the Maui Supercomputing Center. | \$127,488 |
| 7. | DOD-Dept of Army
"Ecosystem Management Research Projects at Various Training Areas, USAG-HI"
Duffy, David Botany
Cooperate with US Army environmental division on conservation biology projects to benefit protected native species on Army land. | \$587,500 |
| 8. | DOD-Dept of Navy
"Tropical Cyclone Genesis and Sudden Changes of Trade and Intensity in the Western Pacific"
Wang, Bin Meteorology - SOEST
This proposal addresses a number of important issues relating to sudden changes in the track, storm scale structure, and intensity of the tropical cyclones in the western Pacific. | \$40,000 |
| FROM: DOE-Dept of Energy | | |
| 1. | DOE-Dept of Energy
"Characterization of Microwave Continuum Emission from Ultra-High Energy Cosmic Ray Extensive Air Showers, A Proposed Augmentation to Pierre Auger"
Gorham, Peter W Physics & Astronomy
Expand investigations of the feasibility of other channels for Extensive Air Showers (EAS) observations. | \$85,000 |
| 2. | DOE-Dept of Energy
"Research in High Energy Physics: Technical Progress Report & FY08 Budget Request"
Olsen, Stephen L Physics & Astronomy
Primary purpose of this research is the understanding of the properties of the elementary constituents of matter and the nature of the fundamental forces between them. | \$1,645,000 |

- FROM: National Science Foundation
1. National Science Foundation \$61,126
 "Integrated Studies of Eruption Processes in Basaltic and Andesitic Volcanoes"
 Garces, Milton Haw Inst Geophys & Planet
 The proposed work seeks to use sound waves in conjunction with other established technologies at Kilauea and Mount St. Helens volcanoes to identify and characterize different eruption processes, recognize changes in lava composition, mass flux, or magma conduct geometry, and refine or develop models of the observed eruption processes.
 2. National Science Foundation \$511,889
 "A Comprehensive Survey of Endosymbiotic and Free-living Symbiodinium Diversity in the Corals and Reef Environments of Hawaii"
 Gates, Ruth Haw Inst Marine Bio-SOEST
 Molecular analyses will be used to comprehensively survey the diversity and abundance of Symbiodinium spp. in corals, sediments and seawater samples collected across coral reefs. These data will detail the pool of symbionts available to corals and provide insight into the potential for recovery from episodic bleaching events for the reefs of Hawaii.
 3. National Science Foundation \$15,000
 "Dissertation Improvement Grant: Defensive Strategies and Resources in the Prehistory of the Society Islands: A Case Study from Moorea"
 Graves, Michael W Anthropology
 This research will study the relations between food production practices and other resources, the location of settlements, and the development of defensive strategies during the late prehistory and early history on the island of Moorea in the Society Islands. The study will employ environmental, archaeological, documentary, and traditional historical data.
 4. National Science Foundation \$79,790
 "Collaborative Research: Explosive Volcanism: Further Perspectives on Controls on Style and Dynamic of the 79AD Plinian Eruption at Vesuvius"
 Gurioli, Lucia Geology & Geophys - SOEST
 We propose to understand the eruption conditions that lead to generation of PDCs during magmatic and phreatomagmatic phases of the eruption using a combination of petrologic and texture data, and constrain the history of melt ascent, degassing and microlite crystallization using a series of decompression experiments on the 79AD products.
 5. National Science Foundation \$28,000
 "Collaborative Research: Eclipse Observations of Heavy Ions, Neutrals and Dust Grains in the Solar Corona"
 Habbal, Shadia 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 the exploring the physics of the corona and the acceleration region of the solar wind.

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| 6. | National Science Foundation
"Collaborative Research: Energy-efficient Communication with Optimized ECC Decoders: Connecting Algorithms and Implementations"
Kavcic, Aleksandar Electrical Engineering
System-level optimization of power-constrained communication links such as back-planes of internet routers or wireless sensor nodes. | \$40,000 |
| 7. | National Science Foundation
"GOALI: Wireless Life Monitoring Transponders"
Lubecke, Victor Electrical Engineering
We propose to explore wireless transponders to enhance Doppler radar sensing, by creating multi-static radar systems and by tagging subjects for identification and additional monitoring functions. | \$118,347 |
| 8. | National Science Foundation
"NSF Visitor and Observing Support for the NASA Infrared Telescope Facility"
Tokunaga, Alan Institute for Astronomy
Funding is requested to cover the NSF portion of observing support at the NASA Infrared Telescope Facility. | \$129,094 |
| 9. | National Science Foundation
"Paleogenetics of Pleistocene Deep-Water Corals from the Mediterranean Sea: The Rise and Fall of Coral Populations within the Basin"
Waller, Rhian Sch Ocean, Earth Sci & Tec
This project examines processes controlling deep-water coral dispersal through time in the Mediterranean Sea, an area where many biogeographical barriers to gene flow impede the entrance and settlement of larvae over time. | \$176,109 |
| FROM: Nat'l Aeronautics & Space Administration | | |
| 1. | Nat'l Aeronautics & Space Administration
"Geodynamic Behavior of an Active Eruptive Vent from GPS, Tilt, Gravity, and INSAR: A Unique Opportunity to Integrate Research and Education Using..."
Brooks, Benjamin Haw Inst Geophys & Planet
Install various geodetic instruments on Kilauea volcano. | \$51,039 |
| 2. | Nat'l Aeronautics & Space Administration
"Integrating MESSENGER Data to Investigate the Origin of Mercury's Inter crater and Smooth Plains Deposits"
Gillis-Davis, Jeffrey Haw Inst Geophys & Planet
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. | \$45,443 |

3. Nat'l Aeronautics & Space Administration \$70,000
 "Properties of Jovian Trojans"

Jewitt, David C Institute for Astronomy

This is an exploratory program focused on understanding the Jovian Trojan asteroids. These objects hold newly recognized significance in the Solar System, as products of capture in association with planet formation or soon after. Properties of the Trojans, like those of the comets, may relate to the earliest accessible times and processes.

FROM: Hawaii- Government Agencies

1. City and County of Honolulu \$7,695
 "Beach Hazard Website"

Fletcher, Charles H Geology & Geophys - SOEST

Manage the progress of the beach hazard website and its continued expansion.

2. DBEDT-Energy, Resources & Technology Div \$18,843
 "Wind Energy Education and anemometer Loan Program"

Foreman, Cynthia Maui CC

Incorporate wind energy education and demonstration activities into the Sustainable Contruction Technology Program. Design and implment an anemometer loan program, and gather wind energy data under the program. Make data and reports available to the general public via the internet. Provide quarterly reports for State approval.

3. Hawaii-Civil Defense Division \$255,000
 "Hawaii County All-Hazard Assessment of Critical Facilities"

Robertson, Ian N Civil and Environmental

This project will conduct an all-hazards Rapid Visual Screening of all critical facilities in Hawaii County, and Perform HAZUS Multi-hazard loss estimation analysis to identify high-risk facilities. Two facilities will be selected for more detailed analysis and development of retrofit schemes to reduce potential damage to theses structures during future natrual disasters.

4. Hawaii-Dept of Agriculture \$38,856
 "The Evaluation of Native Hawaiian Plants as New Cover Crop Selections in Local Organic Vegetable Production"

Leary, James College of Tropical Ag & Human

This is a new proposal that seeks to identify novel uses of native plant species for utilization in local Hawaiian agriculture. This one-year project will characterize the agronomic attributes of four native plant species as new cover crop selections in Hawaii.

5. Hawaii-Dept of Agriculture \$24,461
 "Assessment of the Aquaculture Potential of Native Hawaiian Lobsters and Shrimp as Sustainable Co-culture Crops in Commercial Fish Cages"

Malecha, Spencer R Human Nutrition, Food & Animal

This project seeks to establish design criteria for diversifying the Hawaiian open ocean sea cage industry-which currently uses only a monocultured fish crop-with "co-cultured" second crops of high market-value, but previously unexploited, native Hawaiian lobsters and shrimp.

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| 6. | Hawaii-Dept of Agriculture
"Ensuring Sustainability of Taro for Future Generations"
Miyasaka, Susan C Tropical Plant & Soil Science
Taro leaf blight (TLB) causes losses of corm yields in Hawaii of up to 50%. In this project, we are proposed to develop conventional hybrids of taro with increased TLB resistance while maintaining desirable qualities similar to commercial taro varieties. In addition, we start developing genetic markers associated with disease resistance genes in taro to accelerate conventional breeding. Finally, we will educate growers and consumers about conventional breeding of taro and marker-assisted selection. | \$35,019 |
| 7. | Hawaii-Dept of Agriculture
"A Low Cost Individual-Farm Quarantine and Small Scale Production System for Marine Shrimp and Other Products"
Szyper, James P Sea Grant - SOEST
Laboratory scale experiments and field trials will investigate and develop a low cost holding and culture system for marine shrimp. | \$37,179 |
| 8. | Hawaii-Dept of Agriculture
"Developing Management Strategies for a Newly Found Plant-Parasitic Nematode, Helicotylenchus multincinctus, Damaging Banana Plantings in Hawaii"
Wang, Koon-Hui Plant & Environmental Protection
Various treatments for banana suckers to obtain planting materials free of spiral nematodes. | \$33,472 |
| 9. | Hawaii-Dept of Agriculture
"Testing the Potential Gene Flow from Genetically Engineered crops to Native Species in the Hawaiian Islands"
Wieczorek, Anna Tropical Plant & Soil Science
This project will examine the potential for cross pollination between sunflower and indigenous Compositae; commercial and endemic cotton species; and potato and endemic Solanum species in Hawaii. | \$49,680 |
| 10. | Hawaii-Dept of Health
"Hawaii Health Workforce Assessment & Plan"
Withy, Kelley Complementary & Alternative
Develop a statewide assessment of health workforce supply and demand database and plan. | \$399,621 |
| 11. | Hawaii-Dept of Land & Natural Resources
"Detection and Control of Invasive Species on O'ahu"
Duffy, David Botany
Identify newly introduced plants, assess new introductions for risk, and conduct surveys and control on invasive plants before they can become pests. | \$107,145 |

12. Hawaii-Dept of Land & Natural Resources \$4,900
 "Developing Barcode Tools for Early Detection of Marine Invasive Species"
 Toonen, Robert Haw Inst Marine Bio-SOEST
 Taxon selection and probe development for proof-of-concept on developing a taxonomic DNA chip for the early detection of invasive specie entering Hawaii via maritime vessel traffic.
13. Hawaii-Dept of Transportation \$237,348
 "Structural Health Monitoring and Reliability Analysis of Highway Bridges Using Smart Sensor Technology"
 Ma, Tianwei Civil and Environmental
 To instrument selected highway bridges with sensors to monitor the bridge performance and to analysis the reliability of the bridges.
- FROM: Hawaii- Associations, Foundations, Societies, etc.
1. Hawaiian Silversword Foundation \$170,000
 "Conservation Work at Keauhou/Kilauea and North Kona"
 Duffy, David Botany
 Continue forest restoration research and management at Keauhou Ranch, Kilauea Forest, and north Kona on the island of Hawaii.
- FROM: Hawaii- Health Organizations
1. Hawaii Medical Service Association \$252,526
 "Fifth Statement of Work: Expansion and Evaluation of Fun 5"
 Nigg, Claudio Office of Public Health Studies
 To continue (for the 5th year) implementing and evaluating Fun 5 - a physical activity and nutrition program for elementary afterschool programs in Hawaii.
2. Kuakini Medical Cntr \$8,381
 "Epidemiology of Aging and Dementia Autopsy Research"
 Uyehara-Lock, Jane Pathology- MED
 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.
- FROM: Mainland- Associations, Foundation, Soc, etc.
1. Cades Fund \$33,333
 "Support of Bioscience Research and Training at the Bekesy Laboratory"
 Hartline, Daniel K Pacific Biosciences Research
 Molecular-genetic and electrophysiological techniques will be applied to model cells in culture. The objective will be to determine how genetic defects associated with diabetes, Alzheimer's and Parkinson's alter the functions of membrane channels regulating calcium and magnesium in critical cells causing them to be dysfunctional or die.

FROM: Mainland- Business		
1.	ChemImage Corporation	\$60,280
	"Stand-Off Raman Sensor (Subcontract)"	
	Sharma, Shiv K	Haw Inst Geophys & Planet
	This proposal seeks support for collaborating with Chem Image Corporation, Pittsburgh, PA for developing Stand-Off UV Raman technique for detecting explosives.	
2.	Tibotec	\$36,188
	"TMC114-TiDP31-C229: A Randomized, Open Label Trial to Compare the Efficacy, Safety and Tolerability of DRV/rtv (800/100mg) Q.D. Versus DRV/rtv (600/10"	
	Shikuma, Cecilia M	Medicine- MED
	To test experimental HIV drug therapy on human subjects.	
FROM: Mainland- Other		
1.	Alaska SeaLife Center	\$56,034
	"Acoustic Monitoring of Beluga Population in Cook Inlet, Alaska"	
	Au, Whitlow	Haw Inst Marine Bio-SOEST
	Use EAR (ecological acoustic recorders) to monitor the population of beluga whale that inhabit Cook Inlet in Alaska.	
2.	Jet Propulsion Lab	\$85,000
	"Sea Level Trends and Fluctuations: Corrections for Land Motion"	
	Merrifield, Mark A	Oceanography - SOEST
	Provide in situ sea level measurements corrected for vertical land motion, which are used to monitor temporal drifts in satellite observation.	
3.	Jet Propulsion Lab	\$40,000
	"Sea Level Trends and Fluctuations: Corrections for Land Motion"	
	Merrifield, Mark A	Oceanography - SOEST
	Provide in situ sea level measurements corrected for vertical land motion, which are used to monitor temporal drifts in satellite observation.	
4.	Jet Propulsion Lab	\$2,630
	"Orographically Induced Ocean-Atmosphere Interaction: Satellite Observations and Numerical Modeling"	
	Xie, Shang-Ping	Meteorology - SOEST
	Conduct analysis of observations by the QuikSCAT and other NASA satellite observations for a better description and understanding of ocean-atmosphere interaction and climate.	
5.	Woods Hole Oceanographic Inst	\$53,394
	"Collaborative Research: Stepping Stones Across the Atlantic: Co-Evolution and Dispersal of Deep Water Corals and their	
	Waller, Rhian	Sch Ocean,Earth Sci & Tec
	Investigating the phylogenetics and co-evolution of deep-water corals and their associates.	

FROM: U.S. Universities and Colleges		
1.	Colorado School of Mines	\$30,505
	"Renewable Bio-solar Hydrogen Production from Robust Oxygenic Phototrophs"	
	Bidigare, Robert R Haw Inst Marine Bio-SOEST	
	To perform studies that will produce new methods for optimizing the yield of photosynthetic H ₂ and will identify new wild strains and engineer new hybrid strains of photosynthetic microorganisms capable of more efficient and more economical H ₂ production as a renewable fuel source derived from water.	
2.	Naval Postgraduate School	\$49,400
	"Quantifying the Effects of Vortical Hot Towers and Vortex Rossby Waves on Tropical Cyclone Intensification"	
	Li, Tim Meteorology - SOEST	
	Quantifying the Effects of vortical hot towers and vortext Rossby waves on tropical cyclone intensification by using an axisymmetric model and a three-dimensional model.	
3.	Scripps Inst of Oceanography	\$106,802
	"Taxonomically Diversified Global Census of Coral Reef	
	Schroeder, Thomas A JIMAR - SOEST	
	The Hawaii node plans to work with scientists and experts around the world to improve global understanding of the biological diversity of coral reef ecosystems by developing new protocols for measuring indices of biodiversity, collaborating in field sampling efforts involving understudied species, populating biodiversity databases, and conducting outreach and education.	
4.	Univ of Arizona	\$23,617
	"ASIC Development Testing for the James Webb Space Telescope"	
	Hall, Donald N B Institute for Astronomy	
	To continue the performance of application specific integrated circuit development testing for space telescopes.	
5.	Univ of California- Los Angeles	\$29,882
	"Subgrant from, "CAREER: The Coordination of Leaf Hydraulics, Structure and Gas Exchange""	
	Ranker, T A Botany	
	These funds are to create research assistantships for undergraduate students to work on projects in the Botany Department for the summer. The students will work on in research, education and outreach, and develop skills and perform research on the native Hawaiian flora.	
6.	Univ of California- San Diego	\$107,054
	"Dynamic Balance of the Oceanic Mixed Layer Observed by In situ Measurements and Remote Sensing"	
	Maximenko, Nikolai Oceanography - SOEST	
	Simplest form of dynamic balance in the mixed layer will be validated using in situ and remote data and used to compute mean sea level and surface circulation and to enhance existing techniques of data processing and calibration.	

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| 7. | Univ of California- San Diego | \$60,000 |
| | "Dynamic Balance of the Oceanic Mixed Layer Observed by In situ Measurements and Remote Sensing" | |
| | Maximenko, Nikolai Oceanography - SOEST | |
| | Simplest form of dynamic balance in the mixed layer will be validated using in situ and remote data and used to compute mean sea level and surface circulation and to enhance existing techniques of data processing and calibration. | |
| 8. | Univ of California- San Diego | \$241,000 |
| | "Pacific Islands Land-Ocean Typhoon (PILOT) Experiment: Coastal Run-up and Fringing Reefs" | |
| | Merrifield, Mark A Oceanography - SOEST | |
| | Field observations of shoaling surface gravity waves, sea level, and nearshore currents over fringing reefs will be made to estimate the coastal-run that occurs during energetic, storm-generated wave events. The results will be compared to numerical models and used for emergency management purposes. | |
| 9. | Univ of California- Santa Barbara | \$11,000 |
| | "Moorea Coral Reef Longterm Ecological Research: Subrecipient" | |
| | Gates, Ruth Haw Inst Marine Bio-SOEST | |
| | Postdoctoral trainee will further his training by using PCR-amplification, cloning and sequencing of 41 coral species samples collected previously at Moorea. | |
| 10. | Univ of California- Santa Barbara | \$59,995 |
| | "Public Domain ADMB Project" | |
| | Sibert, John R JIMAR - SOEST | |
| | To develop the protocols for maintaining, testing and distributing AD Model Builder (ADMB) software across multiple hardware platforms, operating systems and compilers. | |
| 11. | Univ of California- Santa Cruz | \$74,326 |
| | "Partnership for Interdisciplinary Studies of the Coastal Ocean (PISCO)" | |
| | McManus, Margaret Anne Oceanography - SOEST | |
| | The object of this activity is to bring specialists together across disciplines; analyze subtidal, intertidal, and oceanographic findings collectively; and develop a more synthetic view of the processes that occur in coastal waters. Our ultimate aim is to move toward a capability for forecasting the effects of climate change on the ecology of coastal waters. | |
| 12. | Univ of California- Santa Cruz | \$18,062 |
| | "The Roms Ias Data Assimilation and Prediction System: Quantifying Uncertainty" | |
| | Powell, Brian Oceanography - SOEST | |
| | Refine ocean model data assimilation algorithms to determine how observations assist the model, determine the final error of the model, and how to combine different models for more accurate estimations of the ocean. | |

13.	Univ of Southern California	\$357,000
	"The Deep Subsurface Biosphere at North Pond: A Mid-Atlantic Ridge Microbial Observatory"	
	Cowen, James P	Oceanography - SOEST
	Design and fabrication of seafloor instrumentation for sampling deep basement fluids via borehole observatory at North Pond Atlantic Ocean.	
14.	Univ of Southern California	\$219,000
	"North Pond Deep Subseafloor Microbial Biosphere - Phase II"	
	Glazer, Brian	Oceanography - SOEST
	Acquiring voltammetric measurements from drilling two boreholes along the North Pond Deep Subseafloor which will provide environmental context of microbiological analyses.	
15.	Vanderbilt University	\$127,476
	"Urinary Phytoestrogens and Heart Disease Risk in Chinese"	
	Franke, Adrian A	Cancer Research Center
	To measure urinary isoflavonoids and creatine in human urine.	
FROM: All Non-U.S.		
1.	UNESCO- United Nations	\$160,053
	"The IOC Coordinated Indian Ocean Tsunami Warning System: Upgrade of Sea Level Stations in the Indian Ocean"	
	Merrifield, Mark A	JIMAR - SOEST
	To install, upgrade, and maintain multiple-use tide gauge stations in the Indian Ocean for tsunami and sea level monitoring.	
2.	World Health Organization- United Nations	\$70,554
	"Software to Calculate the Level of Food Fortification with Micronutrient"	
	Murphy, Suzanne P	Cancer Research Center
	Development of written specifications for programs to be included on a multi-purpose nutrient intake assessment CD, a user's manual, and hypothetical fortification exercise.	
FROM: Miscellaneous		
1.	Center for Tropical and Subtropical Aquaculture (CTSA)	\$83,800
	"Kahala Parasites and Shrimp Viruses of Concern to Pacific Aquaculture"	
	Lewis, Teresa	Haw Inst Marine Bio-SOEST
	Project objectives include testing the possibility of vaccine development against a fluke parasite that affects cage cultured kahala, development of additional fluke management strategies for cage culture, and surveillance of planktonic crustaceans/copepods for shrimp viruses of economic significance to Pacific shrimp aquaculture.	

NON-RESEARCH AWARDS

- FROM: DHHS-Dept of Health & Human Services
1. DHHS-Dept of Health & Human Services \$47,444
 "Hawaii Medical Student Aging Research Training Center"
 Masaki, Kamal H Geriatrics-MED
 Establishment of medical student aging research training center. Designed to achieve the goals of providing short term research, clinical & didactic experiences, and to expose students to career opportunities in aging related research & academic Geriatrics.
 2. DHHS-Dept of Health & Human Services \$225,704
 "Dual MS/MBA for Nurse Administrators"
 Williams, Paulette Nursing
 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.
 3. NIH-Nat'l Cancer Institute (NCI) \$486,108
 "Cancer Information Service"
 Vogel, Carl-Wilhelm Cancer Research Center
 The National Cancer Institute's cancer Information Service is a national resource for information and education about cancer, providing the latest and most accurate cancer information to patients and their families, the public, and health professionals. Hawaii's Partnership Program focuses on Native Hawaiians and other medically underserved populations in the US Pacific.
 4. PHS-Health Resources and Services Admin (HRSA) \$342,336
 "Implementation of a New Adult Health Clinical Nurse Specialist Program Using Electronic Distance Learning Technology"
 Conde, Francisco Nursing
 The implementation of an adult Clinical Nurse Specialist program 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.
 5. PHS-Health Resources and Services Admin (HRSA) \$294,770
 "Online PhD Program for Rural Underserved Communities"
 LeVasseur, Sandra 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.

FROM: DOC-Dept of Commerce		
1.	DOC-National Oceanic & Atmospheric Administration	\$99,998
	"Human Impacts and Hawaii's Coral Reef Health: An Environmental Science Education, Stewardship and Research Program for Teachers in Hawaii"	
	Krupp, David A	Haw Inst Marine Bio-SOEST
	Ten Hawaii high school teachers will receive training (lectures, lab sessions, and field exercises) in environmental and earth science using the Kane'ohe Bay watershed and coral reef ecosystem as the primary study site.	
FROM: DOD-Dept of Defense		
1.	DOD-Naval Research Laboratory	\$10,000
	"Supplement to: R/V KILO MOANA Ship Operations and Technical Support Services"	
	Taylor, Brian	Sch Ocean,Earth Sci & Tec
	Rental of Klaus Wyrki R/V from University of Hawaii Center for Dipole Moment Tests Associated with the Office of Naval Research 3MDS Project.	
FROM: ED-Dept of Education		
1.	ED-Dept of Education	\$88,966
	"Fulbright-Hays Doctoral Dissertation Abroad"	
	Garrod, Peter V	Graduate Division
	Conduct research outside the United States in the field of modern foreign language and area studies (study of the aspects of a society or societies, including study of their geography, history, culture, economy, politics, international relations).	
2.	ED-Dept of Education	\$250,000
	"Windward Community College Upward Bound Program"	
	Gillis-Davis, Lisa	Windward CC
	Windward Upward Bound will provide opportunities for 50 low-income/first generation college potential public school students to receive academic support, career guidance, college planning, and summer residential college experience.	
3.	ED-Dept of Education	\$800
	"Upward Bound"	
	Hoshino, Sandy	Leeward CC
4.	ED-Dept of Education	\$463,896
	"Leeward Community College - Regular Upward Bound:	
	Hoshino, Sandy	Leeward CC
	Provide college preparatory services for high school youth. Program's purpose is to increase academic performance and college going rates in low income and first generation students.	

5. ED-Dept of Education \$199,231
 "Project Manawa Kupono (Opportunity): Preparing Educators to Improve Outcomes for Students with Autism"
 Wells, Jenny Special Education
 This four-year project will recruit & prepare 30 M.Ed. trainees (2 cohorts of 15) to be special education teachers for students with autism. Program graduates will be eligible for special education licensure in Hawaii.
- FROM: National Science Foundation
1. National Science Foundation \$6,000
 "A Multidisciplinary Approach to Species Boundaries in Tropical Reef Corals"
 Carlon, David Zoology
 Tropical coral reefs are the most diverse marine environments, yet we have a poor understanding of the ecological and evolutionary process that generate new species of hard corals. This proposal will examine a set of recently diverged incipient coral species in the Caribbean Sea using techniques of experimental ecology, molecular ecology, and paleontology.
2. National Science Foundation \$10,005
 "Computer & Electronics System Development"
 Yun, David Electrical Engineering
 The funds will be used for salary during the Spring 2008 and Summer 2008 semester.
- FROM: Nat'l Aeronautics & Space Administration
1. Nat'l Aeronautics & Space Administration \$30,000
 "Search for Ultra High Energy Astrophysical Neutrinos with the ANITA Experiment - NESSF-A. Romero-Wolf"
 Gorham, Peter W Physics & Astronomy
 Participation as principal graduate student from UH in balloon-borne Antarctic Impulsive Transient Antenna (ANITA) investigation, which seeks to observe astrophysical neutrinos with energies above 10^{18} eV.
2. Nat'l Aeronautics & Space Administration \$68,000
 "Ninth Planetary Volcanology Workshop: Analogs to Martian Volcanic Features in High Spatial-Resolution Data"
 Rowland, Scott K Oceanography - SOEST
 Organize and run a 7-day volcanology workshop on Hawaii for graduate students who are studying volcanoes on other planets (specifically Mars).
- FROM: Nat'l Endowment for the Arts
1. Nat'l Endowment for the Arts \$10,000
 "Manoa: A Pacific Journal of International Writing"
 Stewart, R Frank English
 Publication of two book-sized issues of an international literary journal.

FROM: Hawaii- Government Agencies		
1.	Hawaii-Dept of Education	\$20,936
	"Teacher Training through Hands-On and Excursion-Based Activities in Aerospace Science: A Mathematics and Science Partnership between the Windward Dis"	
	Ciotti, Joseph E	College of Natural Sciences
	Provide series of in-service teacher training workshops in aerospace science for Windward District K-12 teachers. Workshops include: two preparatory half-day, a 7-day full-day and one follow-up full day session. On-campus resources includes WCC's Imaginarium, NASA Flight Training Aerospace Education Laboratory. Aerospace Exploration Lab and Lanihuli Observatory.	
2.	Hawaii-Dept of Health	\$49,873
	"Child Clinical and Admin Services, ASO Log No. 02-003"	
	Guerrero, Anthony	Psychiatry- MED
	Provide psychiatric services to the Department of Health, Child & Adolescent Mental Health Division as outlined in the scope of services in the contract.	
3.	Hawaii-Dept of Health	\$208,000
	"EMS Stipend Program"	
	Kalinowski, Edward	Kapiolani CC
	Legislative funded stipend program for MICT students not receiving stipends from the City and County of Honolulu or Hawaii County Fire Service.	
4.	Hawaii-Dept of Health	\$14,000
	"Memorandum of Understanding Between The State of Hawaii, Department of Health, Disease Outbreak Control Division and the University of Hawaii"	
	Qureshi, Kristine	School of Nursing
	School-based influenza vaccination project.	
5.	Hawaii-Dept of Human Services	\$372,163
	"Bridge to Hope Student Support"	
	Bill, Teresa	Office of Student Affairs
	University of Hawaii will administer and provide campus work opportunities to eligible TANF/TAONF students through its Bridge to Hope program on all University of Hawaii campuses state-wide.	
6.	Hawaii-Dept of Human Services	\$1,923,000
	"Hawaii Excellence Through Science and Technology (HiEST) Academy"	
	Rota, Michael T	Office, VP Community Coll.
	Implement the HiEST Academy initiative based on the CORD curriculum that will use a contextual approach to teaching and learning.	
7.	Hawaii-Dept of Land & Natural Resources	\$62,785
	"State Park Resource Management Rangers"	
	Duffy, David	Botany
	Collaborate with DLNR to conserve native ecosystems within Hawaii's State Park.	

4. Pono Pacific Land Management	\$255,150
"Pono Pacific Leadership Training for Youth Conservation Corps"	
Morden, Clifford W	Botany
Support Youth Conservation Corps summer intern program.	
FROM: Mainland- Associations, Foundation, Soc, etc.	
1. American Academy of Neurology	\$130,000
"American Academy of Neurology Foundation Clinical Research Training Fellowship"	
McMurtray, Aaron	Medicine- MED
This is an application for an award sponsored by the American Academy of Neurology.	
2. American Psychological Foundation	\$4,145
"Research and Training Proposal to Increase Minority Mental Health Professionals Among Asian and Pacific Islander Groups"	
Uchigakiuchi, Patrick	Social Science Rsrch Inst
To create a research and training program at early undergraduate levels of the education pipeline to increase mental health professionals from minority Asian and Pacific Islander groups.	
FROM: Mainland- Business	
1. Aura, Inc	\$75,266
"GNIRS OIWRS Repair and Testing"	
Hodapp, Klaus W	Institute for Astronomy
Perform services to install and test new detector and repair and test mechanisms and sensors for the Gemini Observatory instrument GNIRS (Gemini Near Infrared Spectrograph).	
FROM: Mainland- Other	
1. Nat'l Writing Project	\$53,000
"2008 Hawaii Writing Project Teacher Training Program"	
Hershinow, Sheldon J	Kapiolani CC
Professional development for teachers K-16.	
2. RK Consulting	\$20,000
"Rob Knourek MALT Internship"	
Hoffman, Mark	Maui CC
Training in the development of database applications for the internet.	
FROM: U.S. Universities and Colleges	
1. Kansas State	\$75,000
"Joint Family Support Assistance Program Operation Military Kids"	
Nakatsuka, Claire M	College of Tropical Ag & Human
The Hawaii 4-H Youth Development program and other partner agencies will build a statewide infrastructure to build educational programs and support networks for military youth.	

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| 2. | Mississippi State University | \$25,996 |
| | "University of Hawaii Participation in MOS University Consortium PET Project" | |
| | Lassner, David K | Info 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. | |
| 3. | Saddleback College | \$25,028 |
| | ""Rapid Tech" National Center for Rapid Technologies" | |
| | Jennings, Michael | Honolulu CC |
| | Curriculum development in 3D Rapid Prototyping in architecture. | |
| 4. | Univ of Notre Dame | \$2,000 |
| | "QuarkNet Supplement" | |
| | Jones, Michael D | College of Natural Sciences |
| | The QuarkNet project involves high school teachers using cosmic ray detectors as a way to introduce particle physics concepts in their teaching. | |
| FROM: All Non-U.S. | | |
| 1. | Government of American Samoa | \$25,000 |
| | "Pacific Regional Comprehensive Cancer Control Implementation Program (Subcontract from American Samoa DOH)" | |
| | Palafox, Neal A | Family and Consumer Sciences |
| | Implement the Pacific Regional Comprehensive Cancer Control Program in conjunction with the USAPI jurisdiction; develop a shared cancer resource for use by the jurisdictions; conduct relevant training for health providers; build capacity and policies relevant to cancer control. | |
| 2. | University of the Ryukyus | \$10,000 |
| | "University of the Ryukyus School of Law Study Tour" | |
| | Kimura, Spencer | School of Law |
| | Conduct legal training and education courses for the University of the Ryukyus graduate students and faculty. | |

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| 9. | Univ of Hawaii Foundation
"WKKF Learning Labs Conference Administration"
Oyadomari-Chun, Tammi Planning & Policy
To pay for salary and fringe cost for P-20 staff to provide Learning Labs Conference event coordination and administrative support work. | \$1,954 |
| 10. | Univ of Hawaii Foundation
"Capturing the Momentum/Hawaii Pacific Islands Campus Compact/Palolo Pipeline: Administrative Coordinator"
Pascua, Atina T SVP - Academic Affairs
Salary and wages to administer and monitor budgetary expenses and documentation, coordinate meetings/workshops, monitor contracts and site visits, maintain operations database; consultants and contracts including payments for Americorps VISTA coordinator and expenses for community partners and institutions of higher education partners. | \$25,500 |
| 11. | Univ of Hawaii Foundation
"East Asian Buddhism Professorship"
Tiles, Mary E Philosophy
To pay for salary and fringe of the East Asian Buddhism Professorship for the College of Arts & Humanities. | \$42,483 |
| 12. | Univ of Hawaii Foundation
"Mansfield Freeman Research Assistants"
Tiles, Mary E Philosophy
To pay for the salary & fringe for 2 graduate research assistants for the Philosophy Department. | \$28,916 |
| 13. | Univ of Hawaii Foundation
"East West Medicine"
Yun, David Electrical Engineering
The funds will be used for salary during the Spring 2008 and Summer 2008 semester. | \$11,596 |

EXTRAMURAL RESEARCH AWARDS
FOR THE MONTH OF MAY 2008
DISTRIBUTION BY SPONSORS

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
Dept of Education	2	\$87,492	0.83
DHHS-Dept of Health & Human Services	4	\$717,475	6.80
DOC-Dept of Commerce	2	\$1,760,408	16.69
DOD-Dept of Defense	8	\$1,050,330	9.96
DOE-Dept of Energy	2	\$1,730,000	16.40
National Science Foundation	9	\$1,159,355	10.99
Nat'l Aeronautics & Space Administration	3	\$166,482	1.58
Hawaii- Government Agencies	13	\$1,249,219	11.84
Hawaii- Associations, Foundations, Societies, etc.	1	\$170,000	1.61
Hawaii- Health Organizations	2	\$260,907	2.47
Mainland- Associations, Foundation, Soc, etc.	1	\$33,333	0.32
Mainland- Business	2	\$96,468	0.91
Mainland- Other	5	\$237,058	2.25
U.S. Universities and Colleges	15	\$1,515,119	14.36
All Non-U.S.	2	\$230,607	2.19
Miscellaneous	1	\$83,800	0.79
	72	\$10,548,053	100.00

EXTRAMURAL NON-RESEARCH AWARDS
FOR THE MONTH OF MAY 2008
DISTRIBUTION BY SPONSORS

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
DHHS-Dept of Health & Human Services	5	\$1,396,362	18.57
DOC-Dept of Commerce	1	\$99,998	1.33
DOD-Dept of Defense	1	\$10,000	0.13
ED-Dept of Education	5	\$1,002,893	13.34
National Science Foundation	2	\$16,005	0.21
Nat'l Aeronautics & Space Administration	2	\$98,000	1.30
Nat'l Endowment for the Arts	1	\$10,000	0.13
Hawaii- Government Agencies	11	\$2,764,679	36.77
Hawaii- Associations, Foundations, Societies, etc.	13	\$1,293,322	17.20
Hawaii- Business and Other	4	\$382,550	5.09
Mainland- Associations, Foundation, Soc, etc.	2	\$134,145	1.78
Mainland- Business	1	\$75,266	1.00
Mainland- Other	2	\$73,000	0.97
U.S. Universities and Colleges	4	\$128,024	1.70
All Non-U.S.	2	\$35,000	0.47
	56	\$7,519,244	100.00

EXTRAMURAL RESEARCH AWARDS
YEAR TO DATE: 7/01/2007 - 5/31/2008
DISTRIBUTION BY SPONSORS

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
World Turtle Trust	1	\$49,533	0.03
DA-Dept of Agriculture	25	\$3,020,344	1.62
Dept of Education	31	\$1,945,689	1.05
DHHS-Dept of Health & Human Services	81	\$41,717,591	22.41
DOC-Dept of Commerce	59	\$26,944,956	14.47
DOD-Dept of Defense	143	\$38,753,331	20.81
DOE-Dept of Energy	14	\$3,803,309	2.04
ED-Dept of Education	1	\$300,000	0.16
Environmental Protection Agency	3	\$183,569	0.10
National Science Foundation	105	\$21,899,904	11.76
Nat'l Aeronautics & Space Administration	78	\$13,678,340	7.35
Independent Federal Agencies- Minor	1	\$120,000	0.06
Hawaii- Government Agencies	93	\$11,496,561	6.17
Hawaii- Associations, Foundations, Societies, etc.	50	\$2,524,724	1.36
Hawaii- Business and Other	25	\$1,517,616	0.82
Hawaii- Health Organizations	9	\$559,037	0.30
Mainland- Associations, Foundation, Soc, etc.	21	\$1,165,171	0.63
Mainland- Business	39	\$4,012,352	2.16
Mainland- Health Organizations	7	\$911,583	0.49
Mainland- Other	40	\$2,112,372	1.13
U.S. Universities and Colleges	87	\$7,890,814	4.24
All Non-U.S.	19	\$1,173,956	0.63
Miscellaneous	5	\$407,222	0.22
	937	\$186,187,974	100.00

EXTRAMURAL NON-RESEARCH AWARDS

YEAR TO DATE: 7/01/2007 - 5/31/2008

DISTRIBUTION BY SPONSORS

<u>AGENCY-UNIT</u>	<u>NO. OF AWARDS</u>	<u>AMOUNT</u>	<u>PERCENT</u>
University of Hawaii Foundation	1	\$1,900	0.00
DA-Dept of Agriculture	11	\$2,799,559	2.25
Dept of Education	12	\$743,423	0.60
DHHS-Dept of Health & Human Services	36	\$17,675,712	14.24
DOC-Dept of Commerce	19	\$1,934,485	1.56
DOD-Dept of Defense	11	\$11,790,126	9.50
ED-Dept of Education	52	\$19,082,268	15.37
HUD-Dept of Housing & Urban Development	2	\$1,381,247	1.11
Environmental Protection Agency	1	\$14,114	0.01
National Science Foundation	18	\$4,545,075	3.66
Nat'l Aeronautics & Space Administration	9	\$971,646	0.78
Nat'l Endowment for the Arts	1	\$10,000	0.01
Independent Federal Agencies- Minor	6	\$686,995	0.55
Hawaii- Government Agencies	112	\$31,218,527	25.14
Hawaii- Associations, Foundations, Societies, etc.	99	\$8,821,395	7.10
Hawaii- Business and Other	33	\$4,291,509	3.46
Hawaii- Health Organizations	26	\$9,689,210	7.80
Mainland- Associations, Foundation, Soc, etc.	19	\$1,129,884	0.91
Mainland- Business	6	\$397,596	0.32
Mainland- Health Organizations	3	\$170,540	0.14
Mainland- Other	10	\$326,271	0.26
U.S. Universities and Colleges	28	\$1,222,260	0.98
All Non-U.S.	22	\$5,143,582	4.14
Miscellaneous	3	\$115,770	0.09
	<u>540</u>	<u>\$124,163,094</u>	<u>100.00</u>