Gifts, Grants, and Contracts for July 2011

The following gifts, grants and contracts received by all campuses during the period July 1, 2011 through July 31, 2011 total $32,008,169. The unofficial FY 2012 year-to-date total is: $31,679,060.

Research

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Administration on Aging
   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 - Natl Inst of Health (NIH)
   Gene Regulatory Network Evolution and the Origin of Biological Novelties
   Martindale, Mark Q.
   Pacific Biosciences Research Center
   The project will unravel the gene regulating network that gave rise to mesodermal tissues in animal evolution.

Health & Human Svc, Dept/NIH - Natl Cancer Institute
   Inflammation and Innate Immunity Genes and Colorectal Cancer Risk
   Le Marchand, Loic
   UH Cancer 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 Cancer Institute
   Regulation of Tumor Promotion by RasGRP1
   Lorenzo, Patricia S.
   UH Cancer Center
   Investigate the mechanisms of RasGRP1 participation in skin carcinogenesis and the cooperation with oncogenic Ras.

Health & Human Svc, Dept/NIH - Natl Cancer Institute
   Characterizing Mitochondrial DNA Susceptibility to Breast, Colorectal and Prostate Cancers
   Cheng, Iona
   UH Cancer Center
   This project proposes to comprehensively characterize the genetic diversity of the mitochondrial genome among a diverse sample of subjects in the Multiethnic Cohort Study and will investigate whether inherited differences in mitochondrial DNA influence the risk for breast, prostate or colorectal cancer.

Health & Human Svc, Dept/NIH - Natl Cancer Institute
   Testing Alternative Stage Models of Smoking Cessation: An Intervention Study
   Herzog, Thaddeus
   UH Cancer Center
   An intervention study is proposed in which participants receive stage-matched interventions for smoking cessation. The 3-study conditions will use three different staging systems to determine the stage of each smoker.
   Stage 1 - stages for change. Stage 2 - an alternative developed by the PI. Stage 3 is a control condition.

Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources
   RCTR Multidisciplinary and Translational Research Infrastructure Expansion Hawaii (RMATRIX)
   Hedges, Jerris
   John A. Burns School of Medicine
   Through the RCTR award, we propose to establish the RMATRIX as the integrated "home" for clinical and translational research infrastructure in the State of Hawaii. By partnering with NCRR programs we seek to reorganize and expand the existing RCMI clinical and translational research infrastructure at UHM.

Health & Human Svc, Dept/NIH - Natl Ctr for Rsch Resources
   COBRE: Center for Cardiovascular Research
   Shohet, Ralph Victor
   Department of Medicine
   This supplement is to expand the educational initiatives of the parent grant through the development of online training modules.
Research

Health & Human Svc, Dept/NIH - Natl Ctr on Minority Hlth & Hlth Disprty - Pili 'Ohana Program: Partnerships to Overcome Obesity Disparities in Hawaii

Kaholokula, Joseph
Department of Native Hawaiian Health

This competing continuation proposal seeks funding for a 5-year intervention project on weight loss maintenance among Native Hawaiians and Pacific Peoples based on a community-based participatory research model.

Health & Human Svc, Dept/NIH - Natl Human Genome Rsch Inst - Epidemiology of Putative Causal Variants in the Multiethnic Cohort

Le Marchand, Loic
UH Cancer 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 Allergy & Infectious Dis - Global HIV Drug Therapies and Mitochondrial Complications and Mechanisms

Gerschenson, Mariana
John A. Burns School of Medicine

39 million people are living with HIV and when they are treated with drugs like d4T or ZDV this can cause side-effects like fat loss that we are trying to understand and prevent.

Health & Human Svc, Dept/NIH - Natl Inst of Allergy & Infectious Dis - Selenoprotein K Modulates Calcium-Dependent Signaling in Immune Cells

Hoffmann, Peter
Department of Cell and Molecular Biology

The goals of this project is to determine the functional role of selenoprotein K in immune responses.

Health & Human Svc, Dept/NIH - Natl Inst of Diabetes,Digestive,Kidney Dis - Mechanism of Selenoprotein Synthesis

Berry, Marla J
Department of Cell and Molecular Biology

Selenium is present in crucial antioxidant and redox enzymes that function in all aspects of life, from early development though diseases associated with aging, and most biological processes in between. We are investigating how cells incorporate selenium into proteins for the optimum health of the organism.

Health & Human Svc, Dept/NIH - Natl Inst on Drug Abuse - HIV-1 Specific Immune Responses in Thai Individuals with HIV Dementia

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.

Health & Human Svc, Dept/NIH - Natl Inst on Drug Abuse - RGR-Based Motion Tracking for Real-Time Adaptive MR Imaging and Spectroscopy

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.
## Gifts, Grants, and Contracts for July 2011

### Research

**DOC-Dept of Commerce**

<table>
<thead>
<tr>
<th>Department</th>
<th>Project Description</th>
<th>Principal Investigator</th>
<th>Institution</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commerce, Dept - Natl Oceanic &amp; Atmospheric Adm (NOAA)</td>
<td>Remote Versus Local Forcing of Intraseasonal Variability in the IAS Region: Consequences for Prediction</td>
<td>Xie, Shang-Ping</td>
<td>Joint Institute for Marine and Atmospheric Research</td>
<td>$46,010</td>
</tr>
<tr>
<td>Commerce, Dept - Natl Oceanic &amp; Atmospheric Adm (NOAA)</td>
<td>Improved Extended-Range Prediction through a Bayesian Approach: Exploiting the Enhanced Predictability Offered by the Madden-Julian Oscillation</td>
<td>Xie, Shang-Ping</td>
<td>Joint Institute for Marine and Atmospheric Research</td>
<td>$76,000</td>
</tr>
<tr>
<td>Commerce, Dept - Natl Oceanic &amp; Atmospheric Adm (NOAA)</td>
<td>Third International Conference on Acoustic Communications by Animals</td>
<td>Au, Whitlow W L</td>
<td>Joint Institute for Marine and Atmospheric Research</td>
<td>$10,000</td>
</tr>
</tbody>
</table>
Gifts, Grants, and Contracts for July 2011

Research

DOC-Dept of Commerce

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) $141,111

Sea Grant College Program Institutional Program
Grau, E Gordon

To promote an innovative and effectively managed program of research, education, and outreach directed to the improved understanding, management, and wise use of marine resources of the state, region, and nation.

Commerce, Dept - Natl Oceanic & Atmospheric Adm (NOAA) $8,466

FY 2010 Aquaculture Research Management Proposal
Grau, E Gordon

To implement a 3-year Pacific Islands Coastal Storm Program in partnership with the National Oceanic and Atmospheric Coastal Storms Program that will enhance community resilience to storm-related hazards and climate change impacts in the Pacific region.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc $139,700

Fisheries Oceanography: Ecosystems Observations and Research Program
Schroeder, Thomas A

To support an array of discrete scientific projects that bridge research investigations to produce ecosystem-level analyses and products.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc $126,500

Pacific Islands Monitoring and Sampling Program
Schroeder, Thomas A

To develop a Pacific Islands Monitoring & Sampling Program in the U.S. jurisdictions in the Pacific Islands Region (initially Guam, the Commonwealth of the Northern Mariana Islands (CNMI), and American Samoa). Work includes collection of samples, sample processing & Data management & archiving on bottomfish.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc $207,360

Fisheries Oceanography: Marine Turtle Research Program
Schroeder, Thomas A

To conduct critical research on sea turtle biology and ecology, and foundation activities including training of Pacific islanders and information exchange, fishery observer training, fishery interaction data collection, collection of field data (e.g. growth rates, survival, movements), and long-term monitoring for population trends.

Commerce, Dept/NOAA - Natl Marine Fisheries Svc $195,449

Sustaining Healthy Coastal Ecosystem (JIMAR Coastal Research Program)
Schroeder, Thomas A

To conduct marine debris mitigation work in the Northwestern Hawaiian Islands (NWHI).

Western Pacific Regional Fishery Mgmt Council $89,666

Insular Fisheries of the Western Pacific Region
Kahng, Sam

Process and analyze commercial and recreational fishing data provided by the State of Hawaii DLNR. Summarize trends across time, spatial patterns, and apply quantitative modeling to assess status of fish stocks.
Gifts, Grants, and Contracts for July 2011

Research

DOD-Department of Defense

Defense, Dept - Air Force
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.

$475,000

Defense, Dept - Air Force
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 Supercomputing Center.

$1,488,279

Defense, Dept - Air Force Ofc of Scientific Rsch
Tournament Games with Externalities
Juarez, Ruben
Department of Economics
The proposal intends to analyze theoretical models of coalition formation, for instance across different cultural characteristics like gender, race, place of origin or language.

$120,790

Defense, Dept - U.S. Army Med Rsch Acqstn Acvty (USAMRAA)
Analysis of the Therapeutic Potential of Stem Cells to Facilitate Recovery from Cardiac Disease and Damage
Allsopp, Richard
Dept Anatomy, Biochemistry, Physiology and Reproductive Biol
Cardiac disease is the leading cause of death for all US citizens. Stem cells hold great potential as a method to treat a variety of human diseases. The goals of this study is to develop a stem cell-based method of therapy to treat accelerate recovery from cardiac damage.

$300,000

DOI-Dept of Interior

Interior, Dept - U.S. Geological Survey
FY 2011 Annual Application under Section 104 of the Water Resources Research Act of 1984, as Amended
Ray, Chittaranjan
Water Resources Research Center
This project consists of 6 proposals covering a range of areas related to water resources research and education as applied to the State of Hawaii.

$44,317

Foreign

APEC Climate Center (APCC)
Capacity Building for an APCC Operational ISO MME System
Wang, Bin
Department of Meteorology
Activity will be devoted to capacity building for developing an APCC operational intra-seasonal oscillation multi-model ensemble system.

$225,000

Pusan National University
Studies on Predictability of the Intreaseasonal Variability in the East Asian Monsoon System
Wang, Bin
International Pacific Research Center
Research activity will be devoted to development of two prediction systems for the Changmaindices.

$43,518
Gifts, Grants, and Contracts for July 2011

Research

Foreign

Tsinghua Center for Astrophysics, University of (country: China) $362,700
Tsinghua Center for Astrophysics Share of collaborative Research with SNIFS and the University of Hawaii
2.2
Meter Telescope
Aspin, Colin Institute for Astronomy
To continue collaboration with the Nearby Supernova Factory in Providing telescope time for the SNIFS instrument and recognize the involvement of a new partner, Tsinghua Center for Astrophysics.

Hawaii- Business and Other

Referentia Systems, Inc $71,556
F6 Information Resource Sharing Technology (FIRST)
Host-Madsen, Anders Department of Electrical Engineering
The project will make software for a cluster of satellites to operate as network. UH's part is to make software for the communications part.

Referentia Systems, Inc $50,568
Cluster Routing for a CubeSat Network
Shiroma, Wayne Akira Department of Electrical Engineering
Develop antenna cross link system for a cluster of small satellites.

Hawaii- Government Agencies

Health, Dept - HI $250,000
Striving for Independence Through Peer Mentoring: Ho`oikaika
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 - Div of Forestry & Wildlife-HI $190,000
Maui District Endangered Species Research
Duffy, David C Department of Botany
Research and monitor endangered seabirds on Maui, Molokai, and Lanai in conjunction with statewide, multi-agency seabird recovery research, planning, and management.

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI $80,000
Statewide Wildlife Conservation Program Coordination and Implementation
Duffy, David C Department of Botany
Contribute research coordination and implementation for various projects within a statewide wildlife conservation program.

Land & Natural Res, Dept - Div of Forestry & Wildlife-HI $64,324
Pu`u Wa`awa`a Planning and Management
Morden, Clifford W Department of Botany
Implement and Manage ongoing and proposed research projects within the Pu`u Wa`awa`a ahupua`a on the island
Gifts, Grants, and Contracts for July 2011

Research

**Hawaii- Government Agencies**

- **Land & Natural Res, Dept - Div of Forestry & Wildlife-Hl**
  - Research to Improve Estimates of Game Harvests and Hunting Participation in the State of Hawai`i Year 4
  - Lepczyk, Christopher A
  - Department of Natural Resources and Environmental Management
  - The objectives of this study are to: 1) Determine problems and costs associated with improving the accuracy of game harvest estimates and hunter recreation in Hawai`i; 2) Devise strategies that reduce differences between the
  - **Land & Natural Res, Dept - Div of Forestry & Wildlife-Hl**
  - Natural Area Reserve Management: Natural Area Reserves Project Coordinator
  - Duffy, David C
  - Department of Botany
  - Research and manage endangered species in their protective habitats in the state's natural area reserves with a focus on the native ecosystem and species diversity.
  - **Land & Natural Res, Dept - HI**
  - Recreation Impacts to Reefs at Hawaii Coral Program Priority Site (Year 2)
  - Szuster, Brian W
  - Department of Geography
  - Implement Recreation impacts to Reefs local action strategy in furtherance of the Hawaii Coral Strategy at Priority site in collaboration with managers and stakeholders.

**Hawaii- Non-Profit Organizations**

- **Chun Foundation**
  - A Novel Scalar to Improve Pediatric Drug Prediction
  - Collier, Abby Cherise
  - Dept of Trop Med, Medical Microbiology and Pharmacology
  - This work aims to develop a scalar that can be used when defining pediatric drug disposition. The outcome will be better prediction of doses for existing and novel drugs in pediatric patients, reducing toxicity.
- **Consuelo Zobel Alger Foundation**
  - Consuelo Research Faculty Project
  - Morelli, Paula T
  - School of Social Work
  - To provide a faculty member to undertake research in child welfare.
- **Hawaii Community Foundation (HCF)**
  - Multifunctional Oleosomes as Nanocarriers for Cancer Therapy
  - Su, Wei-Wen Winston
  - Department of Molecular Biosciences and Bioengineering
  - Develop synthetic oleosomes with multiple functionalities and examine their efficacy as nanoscale carriers for cancer therapy.
- **Oceanic Institute - Ctr for Tropical & Subtrpcl Aquaculture (CTSA)**
  - Regional Biosecurity: Operational Biosecurity and Diagnostic Surveillance
  - Tamaru, Clyde S
  - Sea Grant College Program
  - Deelop laboratory wit PCR capacity to detect viral pathogens. Two target fish disease are Koi Herpes Virus (KHVD) and Ricketsia Like Organism (RLO).
Gifts, Grants, and Contracts for July 2011

Research

Hawaii- Non-Profit Organizations

Parents and Children Together (PACT) $10,000
  Mikiala Project
  Yuen, Jo Ann W  Center on Disability Studies
  Evaluation of implementation of developmental screening project in Kalihi Valley.

University of Hawaii Foundation $8,000
  Cell and Molecular Biology Program
  Humphreys, Tom D II  Pacific Biosciences Research Center
  Study of development and regeneration of neural structures of Ptychodera Flava.

University of Hawaii Foundation $255,959
  UH Cancer Center: Research on Erionite Exposure (UHF Account #125-9610-4)
  Carbone, Michele  UH Cancer Center
  To include but not limited to use in connection with further research on the potential health threats associated with erionite exposure in the United States. (Request for ORS agreement with UHF).

University of Hawaii Foundation $50,000
  Inhibition of TRPM7-mediated Mg2+ Transport by Waixenicin A as an Anti-Cancer Strategy
  Fleig, Andrea  UH Cancer Center
  The scope of this proposed work is to carry out in vivo pharmacology experiments in which a novel natural compound, waixenicin A, is administered to mice and evaluated for anti-tumor activity in experimentally induced colon cancer.

University of Hawaii Foundation $172,889
  UH Cancer Center: Research on New Mesothelioma Treatment Agents (UHF Account #125-9620-4)
  Carbone, Michele  UH Cancer Center
  To include but not limited to use in connection with further research on the development of new mesothelioma treatment agents. (Request for ORS agreement with UHF).

University of Hawaii Foundation $50,000
  Pediatric Oncology Research
  Wada, Randal K  UH Cancer Center
  This project will analyze regulatory regions of genes important to neuroblastoma, a common childhood cancer.

Mainland- Business and Other

Boeing Company $5,000
  Innovative Research and Optical Systems Support (IROSS) Program - Instrument and Systems Development for AEOS Telescope
  Kuhn, Jeffrey R.  Institute for Astronomy
  The IfA will maintain the HiVIS instrument on AEOS and provide reduced data products from this instrument as required for the client. Routine hardware and software instrument upgrades will be completed.
Gifts, Grants, and Contracts for July 2011

Research

Mainland- Business and Other

CH2M Hill, Inc
Evapotranspiration in Hawaii
Giambelluca, Thomas W
Department of Geography
We will develop an estimate of the spatial distribution of evapotranspiration (ET) for Hawaii and examine the amount and causes of seasonal and interannual variability of ET. Estimates will be derived from available satellite imagery of clouds and land surface characteristics, and tested using ground-based observations.

Cellana LLC
Large Scale Production of Fuel Oils and Animal Feed from Microalgae
Bidigare, Robert R
Hawaii Institute of Marine Biology
Develop and apply standard operating procedures (SOPs) for harmonization and deployment throughout consortium laboratories to measure a range of key biochemical metrics of performance, up to the level of molecular characterization.

Chevron Products Company, Hawaii Refinery
Partnership to Develop Measures of Effluent Toxicity Using Tripneustes gratilla Fertilization Assays
Thomas, Florence
Hawaii Institute of Marine Biology
To develop fertilization assays that are reliable for effects of effluent on Tripneustes gratilla

Geoscience Consultants
Characterization of Shear-Driven Upwelling Beneath Western North America: Implications for Volcanic Hazard
Conrad, Clinton P
Department of Geology and Geophysics
We plan to develop three-dimensional numerical models of the link between mantle shear and upwelling mantle flow that can induce melting and volcanism. These models will be used to understand the spatial and temporal patterns of volcanism in western North America.

Jet Propulsion Lab
Cassini Solstice Mission
Owen, Tobias
Institute for Astronomy
To study seasonal and other long-term temporal changes on Saturn and its moons, from northern winter solstice to northern summer solstice. The mission extension will allow for continued observations of Saturn's rings and the magnetic bubble around the planet known as the magnetosphere.

Jet Propulsion Lab
A Deep PACS Survey of AKARI - Deep Field South: Revealing the Connection between AGN and Star Formation
Goto, Tomotsugu
Institute for Astronomy
To understand when and how massive galaxies are formed by tracing extreme luminosities resulting

Malin Space Science Systems
University of Hawai`i Participation in: MAHLI - MARS HandLens Imager for the Mars Science Laboratory
Rowland, Scott K
Hawaii Institute of Geophysics and Planetology
This is the University of Hawai`i portion of a multi-institution proposal. The project will build, test, and operate on Mars, a camera for producing close-up images of rocks. These close-up images will allow the team to identify the rock types, and from this, be able to understand some of the geologic processes that have taken place on Mars.
Gifts, Grants, and Contracts for July 2011

Research

Mainland- Business and Other

Millipore Corporation
Research Agreement with Millipore Corporation on Developing a Prototype Instrument
Su, Wei-Wen Winston Department of Molecular Biosciences and Bioengineering
Develop a prototype instrument for the Millipore Corporation to their specifications based on technology developed

Space Telescope Science Institute
TRGB Distances from Archived Data
Tully, R Brent Institute for Astronomy
Accurate distances to nearby galaxies can be determined from the observed luminosities of the brightest red giant stars. Data is available in the HST archive to make measurements in 300 galaxies. Newly developed analysis tools will be applied that assure consistency in the measurement of distances for the 300 galaxies.

Space Telescope Science Institute
Resolving Disks and Jets in a New, Benchmark Low-Mass Binary
Rayner, John T Institute for Astronomy
We propose to obtain high resolution imaging of a recently discovered TW Hydrae Association wide, very low-mass binary TWA30A and B. Both sources show spectroscopic and photometric evidence of accretion disks and outflows.

Space Telescope Science Institute
Ionizing Emission from the Faint Galaxies Responsible for Reionization
Kewley, Lisa J Institute for Astronomy
We have identified a large sample of intrinsically faint galaxies that are highly magnified by foreground massive clusters. We propose a single deep near-UV image of a sub-sample of 13 of these galaxies lying behind the well-studied cluster Abell 1689.

Space Telescope Science Institute
Determining the Rotational Phase of Comet 9P/Temple 1 in Support of the StardustNExt Mission
Meech, Karen J Institute for Astronomy
Analyze the rotation of comet 9P/Temple 1.

Mainland- Health Organizations

American Heart Association
Mathematical Modeling of the HIF-1 Pathway in the Heart
Shohet, Ralph Victor Department of Medicine
Development of a mathematical model of the activity of Hypoxia Inducible Factor Type 1 in the heart. Experimental data will be used to generate necessary data for equations associated with Hypoxia in the heart tissue.

American Heart Association
Gene Regulation in Type II Diabetes Endothelium, A Role for Galectin-3?
Shohet, Ralph Victor Department of Medicine
The role of galectin-3 in the endothelial dysfunction preceding diabetes will be studied by comparing the gene expression of normal mice versus mice lacking the galectin-3 gene following a high fat diet. Complementary studies to test the effect of galectin-3 loss will be performed on endothelial cells in culture.
Gifts, Grants, and Contracts for July 2011

Research

Mainland- Non-Profit Organizations

Geneva Foundation $158,447
Bursell, Sven-Erik John A. Burns School of Medicine
Development of a beta production unit retinal imaging camera that is portable, inexpensive, and can image through small pupils at low light levels that can be tested clinically.

Seattle Institute for Biomedical and Clinical Research $21,000
Renewal of Diabetes Prevention Program Outcomes Study - Phase 2
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.

UT-Battelle, LLC $187,110
Pacific Rim Corrosion Assessment and Mitigation Program (PacRimCAMP)
Hihara, Lloyd H Department of Mechanical Engineering
Conduct research in correlation studies for atmospheric exposure (effect of specimens sheltering and solar radiation), advanced materials, corrosion sensors and corrosion protection strategies (ceramer coatings and corrosion preventative compounds).

National Aeronautics and Space Administration

National Aeronautics & Space Administration $246,079
Water and Habitable Worlds
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 $300,000
A NEO Search Program Using the Pan-STARRS PS1 Telescope
Jedicke, Robert Institute for Astronomy
Support of the PS1 Telescope operation and MOPS project on Haleakala for the NASA Near Earth Object Search Program.

National Aeronautics & Space Administration $1,590,000
The NASA Infrared Telescope Facility: Mission Support and Solar System Observations
Tokunaga, Alan Institute for Astronomy
We propose to provide NASA with observations and research data aimed at providing support of spacecraft missions and basic research in support of the Planetary Astronomy program.

National Aeronautics & Space Administration $74,379
Detecting Dark Energy from WMAP and Pan-STARRS1
Szapudi, Istvan Institute for Astronomy
We propose to detect the Integrated Scahs-Wolf (ISW) effect in the WMAP (Wilkinson Microwave Anisotropy Probe) CMB (Cosmic Microwave Background maps using the one year Pan-STARRRS1 (PS1) photometric LRG (Sloan Luminous Red Gaxlay) sample.
Gifts, Grants, and Contracts for July 2011

Research

National Aeronautics and Space Administration

National Aeronautics & Space Administration

Sample Acquisition and Measurement on Mars (SAM): Mars Science Lander (MSL)
Owen, Tobias
Institute for Astronomy
Participation, and data analysis in the mission called "Mars Science Lander". The spacecraft for this mission consists of a rover the size of a small car, loaded with instruments and is scheduled for launch next year, 2011, with a landing on Mars in November 2011. The rover will travel around on Mars for about one year.

National Aeronautics & Space Administration

Evaluation and Validation of NPP VIIRS Vegetation Index EDR for Earth System and Climate Sciences
Miura, Tomoaki
Department of Natural Resources and Environmental Management
We propose to evaluate and improve the quality of Visible/Infrared Imager Radiometer Suite Vegetation Index Environmental Data Record and its continuity with other satellite sensors. We will use existing in situ observation networks and inter-comparisons for the objectives, and determine accuracy and precision of the data record.

National Aeronautics & Space Administration

Origin, Thermal History, and Impact Record of Meteorites and their Parent Asteroids
Scott, Edward R D
Hawaii Institute of Geophysics and Planetology
We propose to elucidate the origin of meteorite parent bodies and their impact and thermal histories through detailed mineralogical, chemical and isotopic studies and numerical simulations of accretion in the asteroid belt.

National Aeronautics & Space Administration

Sharing Discoveries in Cosmochemistry on the Internet
Taylor, G Jeffrey
Hawaii Institute of Geophysics and Planetology
We will write articles for our online magazine, Planetary Science Research Discoveries (www.psrd.hawaii.edu).

National Aeronautics & Space Administration

Huss, Gary Robert
Hawaii Institute of Geophysics and Planetology
I will use the UH Cameca ims 1280 ion microprobe to study the timing of early solar system events using short-lived radionuclide, the isotopic compositions of the materials that formed the solar system, and the processes that formed metal cores in asteroids and planets.

National Aeronautics & Space Administration

Isotopic Analysis of Stardust Samples by Ion Microprobe
Huss, Gary Robert
Hawaii Institute of Geophysics and Planetology
We will use the UH Cameca ims 1280 ion microprobe to make isotopic measurements of comet samples that were returned by NASA's Stardust Mission to comet Wild 2.

National Aeronautics & Space Administration

Interannual Variability of Ocean Vector Winds Near Ocean Fronts and Coastal Orography
Xie, Shang-Ping
Department of Meteorology
We study interannual variability of ocean vector winds observed by satellites and their role in ocean-atmosphere interactions, with a focus on narrow-scale features not resolved by traditional climate datasets.
Gifts, Grants, and Contracts for July 2011

Research

National Aeronautics and Space Administration

National Aeronautics & Space Administration $30,422
Aquarius Salinity Calibration, Error Quantification, Signal-to-Noise Analyses, and Resolution Studies Using Historical and Concurrent Data
Maximenko, Nikolai  A Department of Oceanography
The project will use the Aquarius mission to provide the best possible product, to characterize the space-time variability of salinity fronts, to quantify and improve the accuracy and signal-to-noise characteristics of both gridded and along-track products, and to assess the value of Aquarius with respect to existing observations.

National Science Foundation

National Science Foundation $256,138
Collaborative Research: Endangered Languages Catalog (ELCat)
Campbell, Lyle R Department of Linguistics
Preparation of a catalogue, database, and website for endangered languages of the world, collecting and correcting information on endangered languages: their location, number of speakers, classification, need for linguistic documentation.

National Science Foundation $46,715
I/UCRC Center for Bioenergy Research and Development
Turn, Scott  Q Hawaii Natural Energy Institute
UH will participate in the development of novel catalysts for producing liquid biofuels from synthesis gas. UH will characterize contaminants in the synthesis gas that affect catalysts and supply synthesis gas samples.

National Science Foundation $97,161
Collaborative Research in IPY: Abrupt Environmental Change in the Larsen Ice Shelf System, a Multidisciplinary Approach - Marine Ecosystems
Smith, Craig  R Department of Oceanography
We will evaluate patterns of seafloor community development beneath the recently collapsed Larsen B ice shelf, and explore the biodiversity of a the first known cold seep on the Antarctic margin.

National Science Foundation $88,997
RAPID Response to Tohoku Earthquake: Participation in Marine Geophysical Surveys of the Quake Rupture Zone
Moore, Gregory F Department of Geology and Geophysics
This proposal is to participate in cruises by JAMSTEC to survey the epicentral zone of the recent Tohoku earthquake offshore Honshu, Japan.

National Science Foundation $806,505
Development of the H4RG-15: A Low Cost, High Performance 4096x4096 pixel Array for Infrared Astronomy and the Building Block for Very Large IR Mosaic Focal Planes
Hall, Donald  N Institute for Astronomy
To demonstrate full production of a high performance 4Kx4K infrared array, the H4RG-15, with integrated application specific integrated circuit controller at an affordable 2 cents per pixel.

National Science Foundation $77,039
Infrared Beacons in the Universe - J Band Spectroscopy of Red Supergiants and the Chemical Composition of Star Forming Galaxies
Kudritzki, Rolf-Peter Institute for Astronomy
The purpose of this proposal is to develop, validate and exploit new technique to study the chemical compositions of star forming galaxies by unlocking the potential of red supergiant stars as chemical abundance probes in distant galaxies.
Gifts, Grants, and Contracts for July 2011

Research

National Science Foundation

National Science Foundation

Kavcic, Aleksandar Department of Electrical Engineering
The objective of this proposal is to develop cohesive signal processing system design solutions to enable future mass data storage hard disk drives with beyond 1~Tbit per square inch areal density using both magnetic recording and NAND flash memory technologies.

National Science Foundation

Submillimeter Interferometric Studies of the Fragmentation of High Mass Star Forming Regions
Williams, Jonathan P. Institute for Astronomy
This proposal describes a detailed study of the development of fragmentation of the cold molecular material in high mass star forming regions, from the earliest, pre-stellar phase to the development of ultra-compact HII regions.

US Colleges and Universities

Arizona State University

Single and Multi-Layered Ejecta Craters: Characterization of Morphology and Assessment of Possible Mechanisms of Ejecta Emplacement
Boyce, Joseph M. Hawaii Institute of Geophysics and Planetology
The proposed investigation entitled Single and Multi-Layered Ejecta Craters: Characterization of Morphology and Assessment of Possible Mechanisms of Ejecta Emplacement continues to be to use existing THEMIS visible images data (and provided scientific guidance and encouragement for collection of new THEMIS image data.

Arizona State University

LROC Targeting and Scientific Analysis
Hawke, Bernard Ray Hawaii Institute of Geophysics and Planetology
This a proposal to conduct scientific studies of images collected by the Lunar Reconnaissance Orbiter Camera.

California Berkeley, University of

Adaptable Format Photon Counting Microchannel Plate Detectors for High Performance Imaging and Spectroscopy
Varner, Gary S Department of Physics and Astronomy
Design, fabricate and integration of cross strip tests CSA ASICS.

California Davis, University of

2010 IR-4 Western Region Food Use Field Trial Analytical Program
Li, Qingxiao Department of Molecular Biosciences and Bioengineering
We will determine chemical residues of NAA in/on pomegranate.

Johns Hopkins University

Longitudinal Survey of Quality of Life and School for Military Children and Their Parents Stationed in Hawaii
Berg, Kathleen F Curriculum Research and Development Group
For 3-year longitudinal study, provide input into parent and children questionnaires, consulting on focus group sampling, and assistance with logistics in setting up focus groups as well as consultation on data interpretation, review and critique of reports, and participation in annual debriefing sessions.
Gifts, Grants, and Contracts for July 2011

Research

US Colleges and Universities

Utah State University

Training Livestock to Consume Weeds and Evaluation of Effects on Meat Quality in Tropical and Subtropical Environments
Stevenson, Matthew
Department of Human Nutrition, Food and Animal Sciences
Based on mainland research, we propose to apply techniques to train livestock to eat weed species in Hawaii.

Subcount: 99 Subtotal: $22,127,351

Non-Research

DA-Dept of Agriculture

Agriculture, Dept - Coop State Rsch, Ed, & Ext Svc (CSREES)-FED
Sustainable Communities Project Through Successful Community Partnerships
Ikeda, Carol S
Department of Family and Consumer Sciences
SCP Through SCP is Hawaii's children, youth, and families "at risk" community based project to strengthen the capacity of children, youth, and families to participate in a culturally diverse, economically challenged and technological advanced society.

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Ctrs for Disease Cntrl & Prvtn (CDC)
Share, Integrate, Link American Samoa (SILAS II)
Johnson, Jean Lee
Center on Disability Studies
To achieve and integrated data system that links the records of all children born at the Lyndon Baines Johnson Tropical Medical Center (the territory's only hospital) to enable the tracking of children with a hearing loss or abnormal screen following newborn metabolic screening.

Health & Human Svc, Dept - Ctrs for Disease Cntrl & Prvtn (CDC)
Identify and Follow: Ajiri in Ibwinini
Johnson, Jean Lee
Center on Disability Studies
To make sure that babies identified in the Marshall Islands with a significant hearing loss are screened, evaluated, and provided the intervention services they need.

Health & Human Svc, Dept - FED
University Center for Excellence in Developmental Disabilities Education, Research & Service
Stodden, Robert A
Center on Disability Studies
This grant is being submitted by the UH-CDS to the Administration on Developmental Disabilities for a 5-year grant to provide support for the University Center on Excellence. This will be accomplished through interdisciplinary training, community training and service, research and evaluation, and dissemination activities.

Health & Human Svc, Dept - Hlth Res & Svcs Adm (HRSA)
Advanced Nursing Education Expansion in Hawaii and the Pacific
Qureshi, Kristine
School of Nursing and Dental Hygiene
To educate baccalaureate nurses for the role of master's prepared nurse practitioner with a primary care specialty. Upon graduation the faculty will work with the graduate to measure the health impact of primary care level nurse practitioner services on the population served by the graduate.
Gifts, Grants, and Contracts for July 2011

Non-Research

DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Hlth Res & Svcs Adm (HRSA) $427,920
    Pacific Islands Geriatric Education Center
    Masaki, Kamal H Department of Geriatric Medicine
    Allied Health Care professionals training in Geriatrics.

Health & Human Svc, Dept/NIH - Natl Inst on Drug Abuse $202,033
    Neuroimaging and Mentoring in Drug Abuse Research
    Chang, Linda Department of Medicine
    Support of 50% salary for PI to ensure protected time to conduct ongoing research and continue to mentor junior clinician scientists in research on HIV and methamphetamine abuse.

DOD-Department of Defense

Defense, Dept - Navy $273,765
    IPA - Walker
    Gaines, James R Applied Research Laboratory
    Intergovernmental Personnel Assignment Agreement for Starnes Elbert Walker

Defense, Dept - Office of Naval Research $344,874
    Acquisition of a Current-measuring System Composed of HF Doppler Radars and Moored Instruments, for Observing the Mesoscale Flow in Sea straits of Interest to the US Navy
    Flament, Pierre J Department of Oceanography
    Acquisition of components to construct three high frequency radars used to measure surface currents in the coastal zone up to 150km offshore and ADCP mooring components.

ED-Dept of Education

Education, Dept - FED $36,148
    Khmer Folktales Online: tales of the Hare 9web-based and DVD)
    Sak-Humphry, Chhany Department of Indo-Pacific Languages and Literatures
    Develop instructional materials Khmer Folktales Online: Tales of the Hare in web-based and DVD formats

Education, Dept - FED $303,565
    Improving Teacher Quality Grants (2011) - SAHEs
    Sorensen, Christine College of Education
    Administer grant competition within the State of Hawaii for higher education projects to improve teacher quality.

Education, Dept - FED $300,000
    Center On Responsive Education (CORE) 1+1
    Pagotto, Louise Chancellor, Kapiolani Community College
    Center On Responsive Education (CORE) 1+1 will provide stipends to 50 students (2 cohorts of 25 student) to complete an associate degree in one of four areas - special education, deaf education, educational interpreting or English as a second language - plus complete a 12-credit certificate program in low incidence disabilities.
Gifts, Grants, and Contracts for July 2011

Non-Research

ED-Dept of Education

Education, Dept - FED

Windward Community college Educational Talent Search Program -Windward

Oliveira, Judy Chancellor, Windward Community College

Education, Dept - FED

National Resource Center for Pacific Islands Studies at the University of Hawaii

Wesley-Smith, Terence Center for Pacific Islands Studies

The grant will support student scholarships in Pacific Islands Studies at the University of Hawaii

Education, Dept - FED

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

Huey, Robert N Center for Japanese Studies

The grant will support curriculum development (language and non-language), outreach activities such as workshops/conferences and library development in East Asian Studies at the University of Hawaii

Education, Dept - FED

Windward Community College Educational Talent Search Program - Honolulu

Oliveira, Judy Chancellor, Windward Community College

Education, Dept - FED

Strengthening the CORE (Center on Responsive Education)

Pagotto, Louise Chancellor, Kapiolani Community College

Strengthening the CORE is a program improvement project that will develop within the College's new ecology of learning for CORE students. Learning experiences for 30-40 students annually will be expanded and enriched in: classrooms/practicum sites, the new CORE Lab, the community, cyberspace, and other sites.

Federal Agencies

Vietnam Education Foundation (VEF)

2011 Vietnam Education Foundation Fellowship

Cooper, Patricia A Graduate and Professional Education

Fellowship award to Nhan Hua for 2011-2012 academic year.

Foreign

American Samoa, Govt of

American Samoa Newborn Hearing Screening Evaluation

Johnson, Jean Lee Center on Disability Studies

Principal Investigator will be conducting the evaluation on two grants received by the American Samoa Department of Health. Both are federally funded grants to establish a newborn hearing screening program and to implement a tracking system for the identified infants.
Gifts, Grants, and Contracts for July 2011

Non-Research

Foreign

Republic of Marshall Islands $50,375
Certified Training of RMI Ministry of Health Medical Staff in Basic Life Support Skills
Sakaguchi, Ann M Department of Anthropology
Provide skill-based trainings to RMI medical staff in Majuro and Ebeye on emergency pediatric care with neonatal resuscitation.

Hawaii- Business and Other

Kamehameha Schools $55,000
Keaukaha Community Resource Center
Ikeda, Carol S College of Tropical Agriculture and Human Resources
To hire a technology program coordinator for the Keaukaha Community Resource Center who will provide educational programs for youth and adults in the community.

Malama Kahalawai Inc $110,000
Protection of Listed Species Proximate to Helu Peak
Morden, Clifford W Department of Botany
Reduce the threat of invasive ungulate activities in the Helu area of Maui.

Hawaii- Dept of Education

Education, Dept - HI $119,401
National Resource Center for Southeast Asian Studies at the University of Hawaii
O'Harrow, Stephen D Center for Southeast Asian Studies
The grant will support academic and scholarship programs in Southeast Asian Studies at the University of Hawaii

Hawaii- Government Agencies

Agriculture, Dept - HI $32,620
A Dash of Aloha II: Healthy Sweet Treats and Snacks Cookbook
Takahashi, Ronald K Chancellor, Kapiolani Community College
To publish and print 5,000 copies of the healthy dessert and snacks cookbook for health education, culinary classes, health promotion and culinary events. UH/KCC will retain copy right of the book and ownership of the 5,000 copies. Publisher will over-print 3,000 copies for retail sales.

County of Hawaii $25,000
Ku I Ka Mana - New Farmers Initiative
Shigehara, Deborah Chancellor, Hawaii Community College
The proposal will fund a 4 month program to train new farmers to be successful in commercial agricultural pursuits.

County of Maui $5,000
Maui County Civil Defense Tsunami Symposium
Okimoto, Darren K Sea Grant College Program
The UH Sea Grant Coastal Hazards extension Agent for Maui will provide coordination and facilitation support for the Maui County Civil Defense Tsunami Symposium, and assist with the implementation of longer term strategies for community education and extension following the symposium.
Gifts, Grants, and Contracts for July 2011

Non-Research

Hawaii- Government Agencies

Health, Dept - HI $149,480
EMS Planning and Development of Distant Learning on Maui, Kauai and Hawaii
O'Hagan, Patricia Chancellor, Kapiolani Community College
Equipment, supplies and a trainer to support EMS education on Kauai, Maui and Hawaii

Health, Dept - HI $9,500
Youth Summit for Teen Suicide Prevention PO# 00858425
Goebert, Deborah A Department of Psychiatry
Facilitate, coordinate, and conduct all aspects of 2990 "Braveheart: Youth Summit for Teen Suicide Prevention."

Health, Dept - HI $1,300,000
CDS - DOH Developmental Disabilities Division Proposal
Ozaki, Rebecca S Center on Disability Studies
CDS will collect and utilize data to provide recommendations based on community and staff input for effective, efficient, and transparent policies and procedures, provide training for case managers, and streamline reimbursements that impact the health outcomes and services to persons with IDD.

Human Services, Dept - HI $560,876
Quality Care Program
Fong, Grace Department of Family and Consumer Sciences
The Quality Care Program will (a) develop the infrastructure for a Quality Improvement rating System for licensed center-based and home-based child care programs, (b) conduct and evaluate a pilot of the system, and (c) implement the Quality Care Program for Home-based Providers over a three year period.

Human Services, Dept - HI $372,163
Bridge to Hope Student Support
Bill, Teresa J Women's Center
University of Hawaii will administer and provide campus employment opportunities to eligible TANF/TAONF First-to-Work students through its Bridge to Hope program on all University of Hawaii campuses state-wide.

Human Services, Dept - HI $157,596
Adult Basic Education & Vocational Instruction
Umehira, Ronny T Chancellor, Leeward Community College
Adult basic education and vocational skills services for First-to-Work participants.

Human Services, Dept. - Benefits, Employment & Support Services Div - HI $107,957
Healthy Child Care Hawaii
Iwaishi, Louise K Department of Pediatrics
Collaborate with the Early Learning Council to strengthen health and safety in early childhood education and care; expand a statewide system of child care health consultants; promote health and safety in child care; provide training to pediatric residents with opportunities for teaching early childhood development and health.

Judiciary, Dept - HI $12,605
Indigent Legal Assistance Fund (ILAF) - Legal Services for the Elderly
Pietsch, James H William Richardson School of Law
Provide legal services to socially and economically needy persons 60 years and older.
Gifts, Grants, and Contracts for July 2011

Non-Research

Hawaii- Government Agencies

Land & Natural Res, Dept - Div of Forestry & Wildlife-Hl
  Detection and Eradication of Invasive Deer Species on the Island of Hawaii
  Duffy, David C  Department of Botany
  Develop a strategy to prevent the spread of axis deer populations on the island of Hawaii.

Hawaii- Health Organizations

University Clinical, Ed & Research Assoc. (UCERA)  $296,540
  Reimbursement Agreement Fiscal Year 2011 - Agreement No. SF11-UCERA-OD-ADMIN
  Hedges, Jerris  School of Medicine
  Administrative services in support of UCERA's provision of physician services & JABSOM's clinical education programs.

University Clinical, Ed & Research Assoc. (UCERA)  $123,950
  Reimbursement Agreement Fiscal Year 2012 - Agreement No. SF12-UCERA-MED
  Tam, Elizabeth K  School of Medicine
  Agreement to provide medical education to students and residents in a clinical setting.

Hawaii- Non-Profit Organizations

Hawaii Coalition Against Sexual Assault  $26,999
  Best Practice Standards for the Delivery of Sexual Assault Services in Hawaii
  Baker, Charlene  Department of Psychology
  UHDPO will convene system coordination meetings in each county and/or island to discuss how best to implement

University of Hawaii Foundation  $6,000
  SoA Advisory Council
  Llewellyn, Clark  School of Architecture
  Provide support to the School of Architectures Advisory Council

University of Hawaii Foundation  $106,381
  Building Climate Adaptation and Policy Partnerships with Native Hawaiian Communities
  Burkett, Maxine  Sea Grant College Program
  To expand partnerships with Native Hawaiian and other vulnerable communities to address climate adaptation and policy needs.

University of Hawaii Foundation  $28,916
  Mansfield Freeman Research Assistants
  Kipnis, Kenneth  Department of Philosophy
  To pay for the salary & fringe for two graduate research assistants for the Philosophy Department.
Gifts, Grants, and Contracts for July 2011

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation
The Matsuda Sano Chair
Boland, Mary G School of Nursing and Dental Hygiene
Contract agreement for the transfer of funds from The Matsuda Sano Chair account to provide salary support for Dr. Maureen Shannon who was appointed Matsuda Sano Chair.

University of Hawaii Foundation
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 Japanese Cultural History.

Mainland- Business and Other

HDRe2M
Navy Marine Mammal Species Monitoring Workshop
Au, Whitlow W L Hawaii Institute of Marine Biology
Attend Navy marine mammal species monitoring workshop in Arlington, VA.

Institute for Higher Education Policy
University of Hawaii Financial Literacy Program Training & Development
Kutara, Pamela B C Department of Family and Consumer Sciences
The UH Financial literacy program team has invited to participate in the 2011 Institute for Higher Education summer Academy to share and building upon already articulated successes. The focus of this event is building effective communication strategies and planning or ongoing sustainability

Kiewit Infrastructure West Co.
Botanical Surveys for the North-South Road
Duffy, David C Department of Botany
Conduct botanical surveys for invasive species in the Kiewit construction area on Oahu’s North-South Road

National Writing Project
2010-2011 Continued Funding Application for Hawaii Writing Project
Bartlett, Andrea Institute for Teacher Education
The HWP is a state-affiliated site of the National Writing Project, a national federally funded professional development network that seeks to improve writing in K-12 classrooms in Hawaii.

National Writing Project
Lehua Writing Project
Ebersole, Michele Chancellor, University of Hawaii at Hilo-UHH
Create a UHH satellite of the Hawaii Writing Project
Gifts, Grants, and Contracts for July 2011

Non-Research

Mainland- Non-Profit Organizations

Association of Universities for Research in Astronomy, Inc (AURA) $200,000

Conservation District Use Permit for the Proposed Advanced Technology Solar Telescope
Maberry, Michael T Institute for Astronomy

All funding provided by the Association of Universities for Research in Astronomy, on behalf of the National Solar Observations shall be used to provide legal representation for the University of Hawaii throughout the Conservation District Use Permitting process and any subsequent legal challenges.

Friends of the College of the Marshall Islands $20,000

Pacific PIN Evaluation
Tse, Alice M Department of Nursing

Perform external evaluation and produce final evaluation report of the "Pacific PIN Partnership" grant for Partners Investing in nursing's Future program.

Link Foundation, The $25,000

Link Foundation Ocean Engineering and Instrumentation Fellowship 2011-2012 Fellowship to Masoud Hayatdavoodi; Ocean and Resources Engineering PhD student
Ertekin, R Cengiz C Department of Ocean and Resources Engineering

Fellowship is awarded to ORE PhD student, Masoud Hayatdavoodi. A nonlinear, dispersive shallow-water wave theory based on the Theory of Directed Fluid Sheets (Green-Naghdi theory) will be applied to model wave interaction with structures located in shallow waters. Objective: Determination of the wave-induced loads on decks of coastal structures.

National Association of Counties Research Foundation $10,000

Community-Based Restoration of the Waikiki Marine Life Conservation District
Barrett, Jennifer Sea Grant College Program

This 2-year project will initiate reef restoration in the Waikiki Marine Life Conservation District through translocation of native corals grown at the Waikiki Aquarium. Community volunteers will support environmental monitoring efforts, and an outreach component will encourage greater civic engagement in coastal stewardship.

National Science Foundation

National Science Foundation $199,641

URM: Environmental Biology in the Pacific Islands
Hadfield, Michael G Pacific Biosciences Research Center

Provide support to URM interns for preparation for the Graduate Record Examinations.

National Science Foundation $52,500

URM: Environmental Biology in the Pacific Islands
Hadfield, Michael G Pacific Biosciences Research Center

Provide support to URM interns for preparation for the Graduate Record Examinations.

National Science Foundation $28,835

Collaborative Research: RAPID: Post-Disaster Structural Data Collection Following the Tohoku Tsunami
Robertson, Ian N Department of Civil and Environmental Engineering

This is an NSF RAPID travel grant proposal to perform data collection after the tsunami that recently struck the NE...
Gifts, Grants, and Contracts for July 2011

Non-Research

**National Science Foundation**

National Science Foundation $33,160
- NSF Workshop on Fundamental Research and Technology in Wave and Hydrokinetics Power Systems
  - Ghorbani, Reza
  - Department of Mechanical Engineering
  - Sponsoring travel for key invites of the NSF Workshop on Fundamental Research and Technology in Wave and Hydrokinetics Power.

National Science Foundation $999,961
- Hawaii's Pre-Engineering Education Collaboration (PEEC)
  - Pagotto, Louise
  - Chancellor, Kapiolani Community College
  - Kapiolani CC is proposing development of a "Pre-engineering Education Collaborative" that will support 125 Native Hawaiian students completing baccalaureates at UHM College of Engineering.

**US Colleges and Universities**

Gallaudet University $3,858
- US-Brazil Consortia 3-2-1
  - Pagotto, Louise
  - Chancellor, Kapiolani Community College
  - Kapiolani CC will create educational exchanges between students in the U.S.-Brazil for Deaf Education, signed language, teaching in American Sign Language and Brazilian Sign Language.

Kamaile Academy, Public Charter School $110,675
- CREDE Professional Development at Kamaile Academy 2011-2012
  - Yamauchi, Lois A
  - Department of Educational Psychology
  - The purpose of this project is to (a) promote Kamaile Academy teachers' understanding and use of strategies of effective instruction for culturally diverse learners, (b) facilitate teachers' planning of a high school built on this model, and (c) evaluate the effects of professional development on teachers and students.

Kirkwood Community College $7,532
- CCI-Multinational Grant
  - Goodman, James
  - Chancellor, Leeward Community College
  - LCC will receive funding to support a cohort size of 12 students from various countries (Turkey, Indonesia, Guatemala, El Salvador, Nicaragua, India, and South Africa) to attend LCC, take English courses in the English Language Institute if needed and take credit courses to achieve certificates in the area of studies chosen by student. Five students will take business courses, four will take culinary, and three digital media.

Western Washington University $3,522
- Students in Service
  - Pascua, Atina T
  - Service Learning
  - To provide opportunities for students to be involved in community service and service learning.

Subcount: 61 Subtotal: $9,880,818
Count: 160 Total: $32,008,169
Funds Received from UH Foundation for 07/01/2011 - 07/31/2011

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation
"The Matsuda Sano Chair"
Boland, Mary G School of Nursing and Dental Hygiene
Contract agreement for the transfer of funds from The Matsuda Sano Chair account to provide salary support for Dr. Maureen Shannon who was appointed Matsuda Sano Chair.

University of Hawaii Foundation $52,339

"Building Climate Adaptation and Policy Partnerships with Native Hawaiian Communities"
Burkett, Maxine Sea Grant College Program
To expand partnerships with Native Hawaiian and other vulnerable communities to address climate adaptation and policy needs.

University of Hawaii Foundation $106,381

"Mansfield Freeman Research Assistants"
Kipnis, Kenneth Department of Philosophy
To pay for the salary & fringe for two graduate research assistants for the Philosophy Department.

University of Hawaii Foundation $28,916

"SoA Advisory Council"
Llewellyn, Clark School of Architecture
Provide support to the School of Architectures Advisory Council

University of Hawaii Foundation $6,000

"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 Japanese Cultural History.

University of Hawaii Foundation $33,000

Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation $172,889

"UH Cancer Center: Research on New Mesothelioma Treatment Agents (UHF Account #125-9620-4)"
Carbone, Michele UH Cancer Center
To include but not limited to use in connection with further research on the development of new mesothelioma treatment agents. (Request for ORS agreement with UHF).

University of Hawaii Foundation $255,959

"UH Cancer Center: Research on Erionite Exposure (UHF Account #125-9610-4)"
Carbone, Michele UH Cancer Center
To include but not limited to use in connection with further research on the potential health threats associated with erionite exposure in the United States. (Request for ORS agreement with UHF).

University of Hawaii Foundation $50,000

"Inhibition of TRPM7-mediated Mg2+ Transport by Waixenicin A as an Anti-Cancer Strategy"
Fleig, Andrea UH Cancer Center
The scope of this proposed work is to carry out in vivo pharmacology experiments in which a novel natural compound, waixenicin A, is administered to mice and evaluated for anti-tumor activity in experimentally induced colon cancer.
Funds Received from UH Foundation for 07/01/2011 - 07/31/2011

Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation

"Cell and Molecular Biology Program"

Humphreys, Tom D

Pacific Biosciences Research Center

Study of development and regeneration of neural structures of Ptychodera Flava.

University of Hawaii Foundation

"Pediatric Oncology Research"

Wada, Randal K

UH Cancer Center

This project will analyze regulatory regions of genes important to neuroblastoma, a common childhood cancer.

Count: 10  Total: $763,484
Extramural Research Awards
for the Month of
July 2011
Distribution by Sponsors

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<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
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<td>DOD-Department of Defense</td>
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Extramural Non-Research Awards
for the Month of
July 2011
Distribution by Sponsors

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<td>2.58%</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>5</td>
<td>$1,314,097</td>
<td>13.30%</td>
</tr>
<tr>
<td>US Colleges and Universities</td>
<td>4</td>
<td>$125,587</td>
<td>1.27%</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>61</strong></td>
<td><strong>$9,880,818</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>
Extramural Research Awards  
Year to Date: 07/01/11 - 07/31/11  
Distribution by Sponsors

<table>
<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHHS-Dept of Health and Human Services</td>
<td>15</td>
<td>$9,866,926</td>
<td>44.84%</td>
</tr>
<tr>
<td>DOC-Dept of Commerce</td>
<td>13</td>
<td>$1,302,218</td>
<td>5.92%</td>
</tr>
<tr>
<td>DOD-Department of Defense</td>
<td>4</td>
<td>$2,259,069</td>
<td>10.27%</td>
</tr>
<tr>
<td>DOI-Dept of Interior</td>
<td>1</td>
<td>$44,317</td>
<td>0.20%</td>
</tr>
<tr>
<td>Foreign</td>
<td>3</td>
<td>$631,218</td>
<td>2.87%</td>
</tr>
<tr>
<td>Hawaii- Business and Other</td>
<td>2</td>
<td>$122,124</td>
<td>0.56%</td>
</tr>
<tr>
<td>Hawaii- Government Agencies</td>
<td>7</td>
<td>$699,363</td>
<td>3.18%</td>
</tr>
<tr>
<td>Hawaii- Non-Profit Organizations</td>
<td>10</td>
<td>$938,002</td>
<td>4.26%</td>
</tr>
<tr>
<td>Mainland- Business and Other</td>
<td>13</td>
<td>$783,098</td>
<td>3.56%</td>
</tr>
<tr>
<td>Mainland- Health Organizations</td>
<td>2</td>
<td>$97,972</td>
<td>0.45%</td>
</tr>
<tr>
<td>Mainland- Non-Profit Organizations</td>
<td>3</td>
<td>$366,557</td>
<td>1.67%</td>
</tr>
<tr>
<td>National Aeronautics and Space Administration</td>
<td>12</td>
<td>$2,972,504</td>
<td>13.51%</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>8</td>
<td>$1,712,558</td>
<td>7.78%</td>
</tr>
<tr>
<td>US Colleges and Universities</td>
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<td>$206,425</td>
<td>0.94%</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>99</strong></td>
<td><strong>$22,002,351</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

Note: YTD amounts include adjustments.
### Extramural Non-Research Awards

**Year to Date:** 07/01/11 - 07/31/11  
**Distribution by Sponsors**

<table>
<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA-Dept of Agriculture</td>
<td>1</td>
<td>$140,000</td>
<td>1.45%</td>
</tr>
<tr>
<td>DHHS-Dept of Health and Human Services</td>
<td>6</td>
<td>$1,698,311</td>
<td>17.55%</td>
</tr>
<tr>
<td>DOC-Dept of Commerce</td>
<td></td>
<td>-$100,479</td>
<td>-1.04%</td>
</tr>
<tr>
<td>DOD-Department of Defense</td>
<td>2</td>
<td>$607,629</td>
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</tr>
<tr>
<td>ED-Dept of Education</td>
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<td>$1,505,359</td>
<td>15.56%</td>
</tr>
<tr>
<td>Federal Agencies</td>
<td>1</td>
<td>$28,000</td>
<td>0.29%</td>
</tr>
<tr>
<td>Foreign</td>
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<tr>
<td>Hawaii- Business and Other</td>
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</tr>
<tr>
<td>Hawaii- Dept of Education</td>
<td>1</td>
<td>$119,401</td>
<td>1.23%</td>
</tr>
<tr>
<td>Hawaii- Government Agencies</td>
<td>12</td>
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<td>28.58%</td>
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<tr>
<td>Hawaii- Health Organizations</td>
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</tr>
<tr>
<td>Hawaii- Non-Profit Organizations</td>
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<tr>
<td>Mainland- Business and Other</td>
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<tr>
<td>Mainland- Non-Profit Organizations</td>
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<td>2.64%</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>5</td>
<td>$1,314,097</td>
<td>13.58%</td>
</tr>
<tr>
<td>US Colleges and Universities</td>
<td>4</td>
<td>$125,587</td>
<td>1.30%</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>61</strong></td>
<td><strong>$9,676,709</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

Note: YTD amounts include adjustments.