

## Gifts, Grants, and Contracts for May 2011

The following gifts, grants and contracts received by all campuses during the period May 1, 2011 through May 31, 2011 total \$14,189,373. The unofficial FY 2011 year-to-date total is: \$434,753,704.

### Research

#### DA-Dept of Agriculture

Agriculture, Dept - Natl Institute of Food and Agriculture \$1,211,022

Children's Healthy Living Program for Remote Underserved Minority Populations in the Pacific Region (CHIL)

Novotny, Rachel

Department of Human Nutrition, Food and Animal Sciences

The project aims to train a public health nutrition work force, conduct public health nutrition research, communicate nutrition- & Health-related information, develop nutritional monitoring & surveillance systems & incur environmental policy change to promote active play & intake of healthy food to prevent young child obesity in the Pacific Region.

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

Health & Human Svc, Dept/NIH - Natl Cancer Institute \$4,785

Urinary Estrogen Metabolites in a 2-year Soy Trial Among Premenopausal Women

Maskarinec, Gertraud

UH Cancer Center

The goal of this project is to perform additional analysis from a 2-year soy intervention among premenopausal women to examine the effect of soy foods on urinary estrogen metabolite patterns and to compare the effects of soy between women who produce equal and those who do not.

Health & Human Svc, Dept/NIH - Natl Cancer Institute \$101,300

Multiethnic Cohort Study of Diet and Cancer

Kolonel, Laurence N

UH Cancer Center

This project entails follow-up on a large group of subjects (215,000) in Hawaii and California, on whom lifestyle and dietary information was obtained from 1993-2008. By determining which subjects developed cancer, we will be able to identify factors leading to increased cancer risk.

Health & Human Svc, Dept/NIH - Natl Cancer Institute \$14,137

The Sphingolipid Pathway in Colon Cancer Chemoprevention

Kawamori, Toshihiko

UH Cancer Center

In this project, we examine whether the sphingolipid pathway mediates development of colon cancer and we attempt to translate the bench results to bedside clinical chemopreventive measures.

Health & Human Svc, Dept/NIH - Natl Cancer Institute \$21,788

The Sphingolipid Pathway in Colon Cancer Chemoprevention

Kawamori, Toshihiko

UH Cancer Center

In this project, we examine whether the sphingolipid pathway mediates development of colon cancer and we attempt to translate the bench results to bedside clinical chemopreventive measures.

Health & Human Svc, Dept/NIH - Natl Cancer Institute \$26,962

Self-Control as a Moderator for Effects of Mass Media on Adolescent Substance Use

Wills, Thomas

UH Cancer Center

This is a research program to investigate effects of movies and advertising on adolescent smoking and alcohol use. A field study with middle school students will be conducted in Hawaii and four laboratory studies with persons from this population will be conducted in Hawaii, Michigan, and New Hampshire.

Health & Human Svc, Dept/NIH - Natl Inst of Biomed Imaging & Bioengrg \$16,941

Spectral Spatial Pulses for Gradient Echo MRI

Stenger, Victor Andrew

Department of Medicine

Magnetic resonance imaging (MRI) is a powerful and non-invasive technique for observing anatomy, structure, and function in the human body. However, there are challenges and obstacles in the form of image artifacts. The goal of this project is to develop techniques to reduce image artifacts in MRI.

## Gifts, Grants, and Contracts for May 2011

### Research

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

Health & Human Svc, Dept/NIH - Natl Inst of Genl Med Sci \$285,258  
Transposon Based Mammalian Transgenesis and Transfection  
Moisyadi, Stefan Dept Anatomy, Biochemistry, Physiology and Reproductive Biol  
This grant should lead to improved non-viral integrating vectors for use in mammalian transgenesis.

Health & Human Svc, Dept/NIH - Natl Inst of Mental Health \$218,915  
The Novel Role for c-Jun-N-Terminal Kinases in Associative Learning Under Stressful and Baseline Conditions  
Todorovic, Cedomir Department of Cell and Molecular Biology  
Our studies will employ a combination of transgenic, molecular, electrophysical, and behavioral approaches to examine the role of c-Jun N-terminal kinases in contextual fear formation as well as the synaptic changes that accompany this process.

#### DOD-Department of Defense

Defense, Dept - Air Force \$101,700  
Operations and Management of the Maui Supercomputing Center  
Lassner, David K Information Technology Services  
Cost reimbursement award term contract for research, development, operations and management of the Maui Supercomputing Center.

Defense, Dept - Air Force \$54,000  
Operations and Management of the Maui Supercomputing Center  
Lassner, David K Information Technology Services  
Cost reimbursement award term contract for research, development, operations and management of the Maui Supercomputing Center.

Defense, Dept - Army \$69,325  
Development of a Predictive Model to Assess Potential Dredging Impacts to Coral Reef Ecosystems of Apra Harbor, Guam (W912HZ-11-SOI-0007)  
Richmond, Robert Pacific Biosciences Research Center  
Provide technical input in modeling the effects of dredging-induced sedimentation on the corals and coral reef of Apra Harbor, Guam.

Defense, Dept - Army \$118,000  
Lahaina Groundwater Tracer Study, Lahaina, Maui, Hawaii  
Glenn, Craig R Department of Geology and Geophysics  
Plan a groundwater tracer study to investigate any effluent discharge from the Lahaina Wastewater Reclamation Facility that may be entering near shore waters. This project will do the background investigation and develop the work plan for the dye injection portion of the study that is to be funded by the Hawaii DOH.

Defense, Dept - Dep Under Secy of Defense \$2,270  
Managing Partner of Pacific Disaster Center  
Gaines, James R Vice President for Research  
This Cooperative Agreement provides for the transfer of Federal funds for the evolvement of the Pacific Disaster Center into a public-private partnership benefiting from shared responsibilities and assistance from the Department of Defense and the Managing Partner (recipient) with its internal management, administration, and development of concepts as proposed by the Recipient on August 17, 2009 in response to Funding Announcement HQ0034-09-RFCA-3001 and accepted by the Government.

## Gifts, Grants, and Contracts for May 2011

### Research

#### DOD-Department of Defense

Defense, Dept - Navy	\$33,902
<u>Analysis and High-Resolution Modeling of Tropical Cyclogenesis during the TCS-08 and TPARC Field Campaign</u>	
Li, Tim	Department of Meteorology
To investigate tropical cyclone genesis mechanism with cloud-resolving models and conduct data assimilation during TCS-08 observational campaign period.	
Defense, Dept - Office of Naval Research	\$80,191
<u>Developing cDNA Libraries of Receptors Involved in the Recruitment of the Biofouling Tubeworm Hydroides elegans</u>	
Hadfield, Michael G	Pacific Biosciences Research Center
This project will develop cDNA libraries for analysis of receptors involved in the recruitment of the biofouling tubeworm Hydroides elegans. We plan to make at least two developmental stage-specific cDNA libraries.	
Defense, Dept - Office of Naval Research	\$49,433
<u>Roughness and Hydrodynamics in Reef Environments</u>	
Pawlak, Eugene R.	Department of Ocean and Resources Engineering
The proposed work will involve field observations and analysis of bed roughness over coral reefs along with the associated hydrodynamic response of waves and currents.	
Defense, Dept - Office of Naval Research	\$52,782
<u>Remote Sensing of the Mesoscale Flow Through Straits of the Philippines Archipelago</u>	
Flament, Pierre J	Department of Oceanography
Deployment of high frequency radars to measure surface currents in the coastal waters of Luzon, Philippines as part of a large coordinated ONR experiment.	
Defense, Dept - Office of Naval Research	\$130,000
<u>Radar Remote Sensing of the Mesoscale Flow Through Straits and Embayments of the Philippines Archipelago</u>	
Flament, Pierre J	Department of Oceanography
Deployment of high frequency radars to measure surface currents in the coastal waters of Luzon, Philippines, as part of a large coordinated ONR experiment.	
Defense, Dept - Office of Naval Research	\$149,811
<u>Acoustic Seaglider: Philippine Sea Experiment</u>	
Howe, Bruce M	Department of Ocean and Resources Engineering
To deploy acoustic Seagliders in the Ocean Acoustics Deep Water experiment in the Philippine Sea in order to develop ways to improve tomographic resolution using a combination of fixed and mobile platforms, and powered autonomous undersea vehicles.	
Defense, Dept - Office of Naval Research	\$24,535
<u>Radar Remote Sensing of the Mesoscale Flow Through Straits of the Philippines Archipelago</u>	
Flament, Pierre J	Department of Oceanography
Deployment of high frequency radars to measure surface currents in the straits of the Philippines as part of a large coordinated ONR experiment.	
Defense, Dept - Office of Naval Research	\$70,000
<u>Acoustic Seaglider: Philippine Sea Experiment</u>	
Howe, Bruce M	Department of Ocean and Resources Engineering
To deploy acoustic Seagliders in the Ocean Acoustics Deep Water experiment in the Philippine Sea in order to develop ways to improve tomographic resolution using a combination of fixed and mobile platforms, and powered	

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## Research

### DOD-Department of Defense

autonomous undersea vehicles.

### DOE-Dept of Energy

Energy, Dept - FED \$195,000  
Synthesis of New Diamond-Like B-C Phases Under High Pressures and Temperatures  
Ming, Li-Chung Hawaii Institute of Geophysics and Planetology  
The aim of the proposed research is to synthesize a new class of diamond-like materials containing only boron and carbon.

### DOI-Dept of Interior

Interior, Dept - National Park Service \$81,193  
Landbird Monitoring Implementation  
Hart, Patrick Natural Sciences-UHH  
Implement the protocol that describes procedures to be used to determine the status and trends of forest birds in selected habitats in Hawaii Volcanoes Natl Park (HAVO), Haleakala NP, and National Park of Am Samoa

Interior, Dept - U.S. Geological Survey \$189,026  
HCSU Unit Support & General Activities 2009  
Ziegler-Chong, Sharon Pacific Aquaculture-UHH  
Support research programs of the USGS BRD PIERC related to the ecological, environmental and sociocultural management of natural and cultural areas and other components of DOI agencies

Interior, Dept - U.S. Geological Survey \$15,000  
Assessing the Quality of Koa Reforestations as Habitat for Hawaii's Forest Bird Community  
Ziegler-Chong, Sharon Pacific Aquaculture-UHH  
Collaborative research with USGS PIERC focused on habitat assessment and utilization studies of koa reforestations by native and introduced birds

Interior, Dept - U.S. Geological Survey \$65,561  
Determination of Large-Scale Hydrodynamics of DECOMP Physical Model with SF6 Tracer Release Experiments  
Ho, David Department of Oceanography  
SF6 tracer release experiments will be used to study the large scale water movement in the DECOMP Physical Model region of the Everglades.

Interior, Dept - U.S. Geological Survey \$12,086  
Population Trends, Distribution, and Insect Prey Base of the Hawaiian Hoary Bat  
Ziegler-Chong, Sharon Pacific Aquaculture-UHH  
Fully gather information needed for the re-evaluation of the conservation status of the Hawaiian hoary bat

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### Research

#### DOI-Dept of Interior

Interior, Dept - U.S. Geological Survey \$48,018  
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.

#### Federal Agencies

Homeland Security, Dept - FED \$800,229  
The National Center for Island, Maritime and Extreme Environment Security (CIMES)  
Gaines, James R Vice President for Research  
The goal of this Center of Excellence is to develop leading-edge, multi-institutional, focused education and basic research program capable of delivering the scientific advances necessary to permit revolutionary improvements in America's ability to protect its citizens, infrastructure, economy, and environment in the Maritime, Remote Island, and Extreme Environment domain.

#### Foreign

GNS Science International Limited \$60,388  
Hazards Platform - Natural Hazards Theme  
Houghton, Bruce F. Department of Geology and Geophysics  
Studies of natural hazards in New Zealand and Hawaii, using physical and social science approaches.

GNS Science International Limited \$7,548  
Hazards Platform - Social Science Theme  
Houghton, Bruce F. Department of Geology and Geophysics  
Studies of natural hazards in New Zealand and Hawaii, using physical and social science approaches.

Max-Planck-Gesellschaft \$290,160  
Max Planck Institute 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

NATO Undersea Research Centre \$19,204  
Collaboration between HIMB and NURC Marine Mammal Mitigation Project  
Au, Whitlow W L Hawaii Institute of Marine Biology  
Assist in deploying and recovering EARs in a collaborative effort with NURC and their marine mammal mitigation effort. Analyze data.

NATO Undersea Research Centre \$26,998  
EAR Collaboration with NURC  
Au, Whitlow W L Hawaii Institute of Marine Biology  
Provide 5 ecological acoustic recorder in a collaborative effort with NURC and their marine mammal mitigation effort.

## Gifts, Grants, and Contracts for May 2011

### Research

#### Hawaii- Business and Other

East West Center	\$51,306
<u>Assessing Sustainability of Ground Water Resources Under Future Climate Conditions</u>	
El-Kadi, Aly I	Water Resources Research Center
We will use projections of climatic conditions together with stochastic hydrologic models to assess the sustainability of ground water resources. With advance planning, through research, the consequences of climate change on water systems can be mitigated.	
Hawaii Agriculture Research Center	\$25,000
<u>Field Evaluation of Oil Seed Crops at Benchmark Locations</u>	
Uehara, Goro	Department of Tropical Plant and Soil Sciences
The proposed work is to establish field trails of oil bearing trees at 5 locations on the island of Hawaii.	
Kamehameha Schools	\$10,000
<u>Matsumoto Historic Study</u>	
Leineweber, Spencer	School of Architecture
This work specifically includes, an Architectural Inventory Survey and field review of eight buildings located in Haleiwa, TMK (1)6-6-04: 15 portion, 16, portion 17, 18; detailed building descriptions of those eight buildings; the dating and reviewing of historic photographs and a writing of context statement linking the buildings with Hawaii's industrial heritage and Haleiwa's plantation history.	
Malama Kahalawai Inc	\$131,285
<u>Protection of the West Maui Mountains Watershed</u>	
Morden, Clifford W	Department of Botany
Conduct adaptive resource management and forest restoration in West Maui Mountains Watershed.	

#### Hawaii- Government Agencies

Hawaiian Affairs, Office of-HI	\$14,055
<u>The Best Public Schools for Native Hawaiian Students</u>	
Johansen, Morgen S	Public Policy Center
Identifies the best public schools for native Hawaiians and the policies those schools implement to benefit their Native Hawaiian Students	
Health, Dept - HI	\$70,000
<u>Modeling to Support Monitoring Waiver for Selected Wells in Hawaii</u>	
Ray, Chittaranjan	Water Resources Research Center
In this project we will help the Department of Health to determine which chemicals can be taken off the monitoring list for wells so that cost savings can be attained.	
Health, Dept - HI	\$65,000
<u>On-Site Sewage Disposal System Environmental Risk Study - Phase II</u>	
El-Kadi, Aly I	Department of Geology and Geophysics
Assess risk posed to human health and the environment by on-site sewage disposal systems for the island of Hawaii and Maui.	

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### Research

#### Hawaii- Government Agencies

Human Services, Dept - HI	\$41,160
<u>HMIS Analysis and Dissemination Project</u>	
Yuan, Sarah	Center on the Family
Data analysis of homeless in Hawaii and preparation of reports for wide dissemination.	
Land & Natural Res, Dept - Div of Aquatic Resources-HI	\$43,537
<u>The Development of a Biocontrol Option for Alien Algae Control: Year 3 Supplement</u>	
Duffy, David C	Department of Botany
Research sea urchins as a biocontrol option against invasive alien algae.	
Land & Natural Res, Dept - Div of Forestry & Wildlife-HI	\$84,000
<u>Natural Area Reserves Management</u>	
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 - Div of Forestry & Wildlife-HI	\$30,000
<u>Koolau Mountains Watershed Partnership Management Plan Implementation, FY 2011</u>	
Morden, Clifford W	Department of Botany
Research and manage watershed conservation on the Kooalu Mountains on Oahu.	
Land & Natural Res, Dept - Engineering Div-HI	\$9,900
<u>Dam Break Modeling Services</u>	
Gaines, James R	Vice President for Research
The Pacific Disaster Center will assist DLNR in conducting dam break modeling studies and hydraulic and hydrologic studies.	
Land & Natural Res, Dept - HI	\$60,000
<u>Plant Restoration and Enhancement - Olinda(12)</u>	
Kaneshiro, Kenneth Y	Pacific Biosciences Research Center
Provide services for ex situ propagation and maintenance of critically endangered Hawaiian plant species at Olinda Rare Plant Facility.	
Land & Natural Res, Dept - HI	\$330,000
<u>Collaborative Administration of the Hawaii FAD System</u>	
Holland, Kim N	Hawaii Institute of Marine Biology
Maintain the State's fish aggregating device (FAD) system and conduct FAD-related research.	
Land & Natural Res, Dept - HI	\$350,000
<u>The State of Hawaii's Plant Extinction Prevention Program</u>	
Morden, Clifford W	Department of Botany
Prevent the extinction of critically endangered native plants through collection of genetic materials for future use in propagation and reintroduction into the wild.	

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## Research

### Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$8,000  
Communication Networks: Design and Performance  
Sasaki, Galen H Department of Electrical Engineering  
Communication networks will be designed and analyzed. Both mathematical analysis and computer simulation will be applied.

### Mainland- Business and Other

Camber Corporation \$25,000  
Pandemic Influenza Subject Matter Exchange - Saipan  
Gaines, James R Vice President for Research  
The Pacific Disaster Center will provide support of Pandemic Influenza Subject Matter Exchanges

HDRre2M \$87,245  
Task-3: Analysis of Deep EAR Data off Niihau during RimPac 2010  
Au, Whitlow W L Hawaii Institute of Marine Biology  
Analyze EAR data recorded off Niihau during RIMPAC-2010. Fabricate 4 extra deep EARs.

OpCoast LLC \$50,000  
Advanced Radio Wave Propagation Modeling in 3D Urban Environments  
Yun, Zhengqing Hawaii Center for Advanced Communications  
The use of developed ray tracing techniques for extracting three-dimensional building structures from cyberspace databases such as Google Earth to develop methods for tracking targets (such as vehicles) in urban

Space Telescope Science Institute \$13,000  
Extreme Mergers from the Massive Cluster Survey  
Ebeling, Harald Institute for Astronomy  
We propose to observe two high-redshift galaxy clusters from the Massive Cluster Survey. Both targets are very rare, triple merger systems, and likely lie at the deepest modes of the cosmic web. Data from Subaru, Hubble Space Telescope, and Chandra will be used.

### Mainland- Non-Profit Organizations

NSABP Foundation, Inc \$60,000  
TFED41 -- 118, Federal Master Purchased Services Agreement Protocols, National Surgical Adjuvant Breast & Bowel Project (NSABP)  
Sumida, Kenneth UH Cancer Center  
Project staff performs all study-related requirements of the project and all regulatory requirements for the project, which includes patient screening for study eligibility, patient enrollment, protocol education, and submission of required patient specimens/data to Sponsor and regulatory documents as needed.

Nature Conservancy \$31,965  
Monitoring the Effect of the Removal of the Invasive Algae Avrainvillea amadelpha on the Benthic Reef-Flat Community in the Paiko Area of Maunalua Bay, Hawaii  
Smith, Celia M Department of Botany  
The primary duty of the research assistant (RA) will be to coordinate bi-weekly benthic monitoring surveys that continue and expand upon the existing TNC benthic monitoring.

# Gifts, Grants, and Contracts for May 2011

## Research

### National Aeronautics and Space Administration

National Aeronautics & Space Administration \$75,000

Investigating the Raw Materials, Processes, and Chronology of the Early Solar System Using Microbeam Techniques

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 \$40,000

ISRU Analog Field Demonstrations of In-Situ Resource Utilization and Human Robotic Systems

Hamilton, John

Chancellor, University of Hawaii at Hilo-UHH

### National Science Foundation

National Science Foundation \$33,010

The Response of the Marine Osmium Isotope Record to Impact Events

Ravizza, Gregory E.

Department of Geology and Geophysics

This proposal seeks support to continue work on the marine Os isotope record. In this cycle we are concentrating our efforts on establishing the utility of Os isotopes and platinum group element ratios for recognizing large impact events in the geologic record and estimating their size.

National Science Foundation \$16,000

NeTS: Small: Collaborative Research: Predictable Delivery for Large-Scale Real-Time Applications

Dong, Yingfei

Department of Electrical Engineering

computer network, real-time communication

National Science Foundation \$127,100

HCC:Small:Human Centered Information Integration for the Smart Grid

Johnson, Philip M

Department of Information and Computer Sciences

Development of technologies and experiments to determine how to achieve positive, sustained behavioral change from consumers with respect to their energy usage.

National Science Foundation \$4,198

Doctoral Dissertation Research: A Reference Grammar of Kove

Blust, Robert Andrew

Department of Linguistics

This project focuses on documenting Kove, spoken in Papua New Guinea. The goal of this project is to build a corpus of Kove, and to produce a grammar and a small dictionary that may serve as the basis for educational materials.

National Science Foundation \$94,637

RAPID: Establishing Radionuclide Levels in the Central Pacific Ocean in Response to Releases from the Fukushima Daiichi Nuclear Power Plant

Dulaiova, Henrieta

Department of Geology and Geophysics

We will monitor radioactive isotopes released from the Fukushima Daiichi Nuclear Power Plant after the March 11, 2011 earthquake and tsunami in the coastal and offshore ocean near Hawaii and other places in the Pacific.

# Gifts, Grants, and Contracts for May 2011

## Research

### National Science Foundation

National Science Foundation \$392,360

Monitoring the Orion Nebula Cluster

Reipurth, Bo Institute for Astronomy

Conducting a massive monitoring survey of the Orion Nebula Cluster using the Variable Young Stars Optical Survey (VYSOS) group of telescopes.

National Science Foundation \$170,890

Collaborative Research: He and Os Isotope Investigation of Miocene Marine Sediments: Particulate Extraterrestrial Matter as a Paleoflux Tracer

Ravizza, Gregory E. Department of Geology and Geophysics

This is a collaborative research effort between UH and Cal Tech to investigate He and Os isotopes as sediment paleoflux tracers. The UH effort involved measuring  $^{187}\text{Os}/^{188}\text{Os}$  and Os concentrations in a suite of pelagic sediments. The post-doctoral investigator supported by this proposal will perform most analyses.

National Science Foundation \$11,450

NEESR-CR: Impact Forces from Tsunami-Driven Debris

Riggs, H Ronald Department of Civil and Environmental Engineering

To support two REU students for the project, one at UH and one at Lehigh U.

### US Colleges and Universities

Arizona State University \$32,500

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 Irvine, University of \$9,000

Genetic Signatures of Dengue Virus Emergence

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

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

California San Diego, University of \$89,949

Creating a Pediatric Imaging-Genomics Data Resource

Chang, Linda John A. Burns School of Medicine

The overall goal of this project is to create a combined Imaging (MRI) and Genomics data resource in children, in the form of a multi-center collaboration. UH will enroll subjects for the study, and be in charge of 2 Cores (Medical Core and MR Acquisition Core).

California San Diego, University of \$324,718

PILOT: Coastal Run-up and Fringing Reefs

Merrifield, Mark A Department of Oceanography

The collection and analysis of 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.

# Gifts, Grants, and Contracts for May 2011

## Research

### US Colleges and Universities

Central Florida, University of	\$32,494
<u>SEPPCoN, A Survey of the Ensemble Physical Properties of Cometary Nuclei</u>	
Meech, Karen J	Institute for Astronomy
Acquire and analyze data from SEPPCoN datasets.	
Dartmouth College	\$35,132
<u>Visual Media Influences on Adolescent Smoking Behavior</u>	
Wills, Thomas	UH Cancer Center
Conceptualizing & analyzing data on media smoking exposure & adolescent & young adult outcomes; set up mediation & moderation analyses for effects of movie smoking exposure & will coordinate with the statistical consultant on incorporating time-varying effects in the analyses.	
Drew, Charles R., University	\$25,000
<u>Drew RCMI Translational Research Network (ARRA Supplement)</u>	
Yanagihara, Richard	Department of Pediatrics
RTRN Community Liason will be responsible for coordinating all activities related to the focus and community groups and will build community partnerships at each of the six RCMI institutions with a medical school as well as conduct outreach to non-medical school RCMI sites. The Community Liasons will conduct four focus groups. Focus group discussions will facilitated exploration of a variety of issues, including barriers and incentives to community partnerships in research, perceived notions of risks and ethical questions, concepts of trust and equal distribution of research results, research priorities, and other determinants.	
Utah State University	\$35,597
<u>Voluntary Long-Term Protection of Agricultural Land in Hawaii</u>	
Bowen, Richard L	Department of Natural Resources and Environmental Management
Research, using personal interviews, will be conducted to determine attitudes of landowners toward two voluntary long-term programs for protecting agricultural land. Training will be provided to agricultural professionals on the use of these programs.	

**Subcount:** 75 **Subtotal:** \$7,786,956

## Non-Research

### DA-Dept of Agriculture

Agriculture, Dept - FED	\$30,000
<u>Hawaii AgDiscovery Program</u>	
Kinoshita, Charles M	College of Tropical Agriculture and Human Resources
High school students will experience many aspects of agribusiness and college campus life through various field and lab activities. The two-week program is sponsored by APHIS Western Region Departments.	

### DHHS-Dept of Health and Human Services

Health & Human Svc, Dept - Natl Inst of Health (NIH)	\$370,718
<u>Minority Access to Research Careers</u>	
Couvillon, Patricia A	Pacific Biosciences Research Center
The grant will support the research training and academic preparation of honors-level underrepresented minority students in the biological and behavioral sciences to facilitate their entry into Ph.D. programs.	

## Gifts, Grants, and Contracts for May 2011

### Non-Research

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

Health & Human Svc, Dept/NIH - Natl Inst of Genl Med Sci \$783  
Identifying Cellular and Molecular Interactions Along the Pathway to Symbiosis - Sr Fellow- E. Vallen  
Martindale, Mark Q. Pacific Biosciences Research Center  
We will analyze the interaction between cnidarians and photosynthetic algae that is the basis for coral reef ecosystems. The analysis is likely to give insight into the interaction of other animals with intracellular eukaryotic parasites.

#### Federal Agencies

Small Business Administration \$387,292  
Small Business Development Center (CY 2011)  
Furstenwerth, John Small Bus Dev Center-UHH  
Develop programs and provide business management and other services that enhance the economic development goals and objectives of SBA and their other respective state and local funding partners.

#### Foreign

Ryukyus, University of \$10,000  
University of Ryukyus Study Tour 11  
Kimura, Spencer William Richardson School of Law  
Provide education and tour for students and faculty from the University of Ryukyus on the American Legal System.

#### Hawaii- Business and Other

Alu Like, Inc \$49,957  
Native Hawaiian Digital Arts Project  
Kimura, Guy Chancellor, Hawaii Community College  
The Digital Arts program will implement projects for Native Hawaiian digital media arts students that incorporate Hawaiian Culture into digital arts classroom assignments using an interdisciplinary approach that combines digital and traditional media: digital animations, digital photography, two-dimensional design, drawing, painting, clay animation, and clay tile design.

Alu Like, Inc \$60,000  
Fisheries Observer Preparatory Training Program (FOPT 10)  
Hunter, Cynthia L. Biology Program  
Conduct Fisheries Observer Preparatory Training courses for students provided by Alu Like, Inc.

Alu Like, Inc \$68,782  
Po'ina Nalu: Native Hawaiian Career and Technical Education Program  
Akamine, Gleniss F Ka'iulani Chancellor, Honolulu Community College  
Native Hawaiian Career and Technical Education Program will work to improve Native Hawaiian student's success rate in Career and Technical Education Program assisting them in transitioning into the workforce or onto a 4 year university or college.

## Gifts, Grants, and Contracts for May 2011

### Non-Research

#### Hawaii- Dept of Education

Education, Dept - HI \$180,000  
A Proposal for Training and Service to the Department of Education  
Mueller, Charles Department of Psychology  
To provide assessment and behavioral health services to Hawaii Department of Education in the context of graduate training in the Psychology Department.

#### Hawaii- Government Agencies

Business, Econ Dev & Tourism, Dept (DBEDT) - HI \$18,000  
"Hawaii: The State of Clean Energy" Project  
Moriwaki, Sharon Y Public Policy Center  
Partial sponsorship to produce and broadcast "Hawaii: The Clean Energy State" television program . (Fixed fee basis)

County of Hawaii \$10,000  
Merrie Monarch Enrichment Program 2011  
Kimura, Leslie Chancellor, University of Hawaii at Hilo-UHH  
Support of cultural enrichment programs at the 'Imiloa Astronomy Education Center during the Merrie Monarch Festival

County of Hawaii \$10,000  
Wayfinding & Navigation Festival 2011  
Kimura, Leslie Chancellor, University of Hawaii at Hilo-UHH  
Provide support to the Imiloa Astronomy Education Center for the Hilo Wayfinding and Navigation Festival 2011.

Hawaiian Affairs, Office of-HI \$25,000  
Native Hawaiian Mala and Loi  
Luke, Mark Alapaki Chancellor, Honolulu Community College  
The project will establish a Native Hawaiian garden and taro patch for hands-on activities to connect the students to their lessons. Resources are needed to start the project and acquire necessary equipment and supplies; students, faculty, staff and community will participate in the start up of the project.

Hawaiian Affairs, Office of-HI \$110,000  
Liko A'e Native Hawaiian Scholarship Program  
Sakamoto, Clyde M Chancellor, University of Hawaii Maui College  
To provide scholarship services to non-traditional Native Hawaiian students.

Hawaiian Affairs, Office of-HI \$30,982  
OHA Iwi Kupuna and Traditional Maoli Rights Primer Cooperative Agreement  
Sproat, Dana K William Richardson School of Law  
This program will research, draft, and publish an iwi kupuna and traditional & customary Maoli Rights Primer and facilitate community education and outreach on Oahu, Kauai, Maui, Molokai, and Hawaii Island based on this primer to raise awareness to build capacity within Kanaka Maoli communities regarding these important issues.

## Gifts, Grants, and Contracts for May 2011

### Non-Research

#### Hawaii- Government Agencies

Health, Dept - Family Health Services Div-HI	\$43,000
<u>Family Planning Services at UH Hilo (Fed)</u>	
Hong, Luoluo	Vice Chancellor for Student Affairs-UHH
Provide family planning services to students/faculty at UH Hilo	
Health, Dept - HI	\$5,000
<u>State of Hawaii Department of Health Family Health Services Division Maternal &amp; Child Health Grant Women's Health Section-Family Planning Program</u>	
Cohen, Denise	Chancellor, University of Hawaii Maui College
To provide subsidized family planning services for women and men, as well as additional training for staff with regards to family planning.	
Health, Dept - HI	\$4,950
<u>Hawaii Asthma Friendly Pharmacy Project 2011</u>	
Ma, Carolyn	College of Pharmacy-UHH
Utilize pharmacies in improving care to asthma patients by pilot testing strategies that can be easily implemented by pharmacy students.	
Health, Dept - HI	\$43,000
<u>Family Planning Services at UH Hilo</u>	
Hong, Luoluo	Vice Chancellor for Student Affairs-UHH
Provide family planning services to students/faculty at UH Hilo	
Health, Dept - HI	\$150,000
<u>Planning to Implement the Partnership in Community Living Program (PICKL)</u>	
Ozaki, Rebecca S	Center on Disability Studies
CDS will provides services and supports to individuals with development disabilities and their family members through the Partnership in Community Living (PICL) program.	
Health, Dept - HI	\$75,000
<u>Incentivizing Behavioral Changes of At-Risk Populations on Maui</u>	
Boritzer, Rafael B	Chancellor, University of Hawaii Maui College
Researcher will devise and implement an array of incentives in service to health behavior modification, including the use of the following modalities to discourage high risk sedentary lifestyles and eating norms, i.e., focus groups,	
Health, Dept - HI	\$200,000
<u>Planning to Implement the Respite Care Program</u>	
Ozaki, Rebecca S	Center on Disability Studies
CDS will enable eligible individuals with Developmental Disabilities (DD) and their family member to receive respite care services and supports and will provide assistance with processing the reimbursement payments to the recipient of the respite care services provided through DOH.	
Human Services, Dept - HI	\$438,557
<u>Learning to Grow</u>	
Fong, Grace	Department of Family and Consumer Sciences
Project will develop, disseminate, and evaluate educational outreach programs and resource materials for families	

# Gifts, Grants, and Contracts for May 2011

## Non-Research

### Hawaii- Government Agencies

receiving child care subsidies from the State, with the aim of improving the quality of care provided to children, ages birth to five.

Human Services, Dept - HI \$75,000

Nutrition Consultation and Review

Kanehiro, Naomi A

CTAHR Cooperative Extension Service

The goal of this project is to promote and support quality nutrition services provided by licensed child care providers and thereby contribute to the health and safety of the children enrolled.

Land & Natural Res, Dept - Div of Aquatic Resources-HI \$28,898

Coral Program Coordination and Management

Hamnett, Michael P

Research Corporation of the University of Hawaii

The Hawaii Coral Reef Initiative (PROJECT) shall provide one part-time (50% FTE) staff for eight months to assist the Hawaii Coral Program (PROGRAM) with coordination between all Local Action Strategy (LAS) coordinators (recreational impacts, fisheries, alien/invasive species, and climate change/coral disease) and one 25% FTE graphic artist/web designer for 2.5 months to assist with collateral material and website design and training.

### Hawaii- Health Organizations

Bay Clinic, Inc. \$40,000

Rural East Hawaii Workforce Development Network

Gomez, Lara

College of Pharmacy-UHH

Collaborate with network partners on the placement of students and faculty in the medical clinics of the Hilo Medical Center and Bay Clinic Family Health Centers

### Hawaii- Non-Profit Organizations

Tri-Isle Resource Conservation & Dev Council \$33,063

East Maui Watershed Protection

Morden, Clifford W

Department of Botany

Conduct applied conservation research and management to protect the native rainforests in East Maui's Watershed.

University of Hawaii Foundation \$15,000

Basic Institutional Needs

Kim, Yung-Hee

Center for Korean Studies

Pay for student hourly wages.

University of Hawaii Foundation \$5,500

Confucius Institute Support

Lau, Frederick C.

Center for Chinese Studies

Provides salaries and fringe benefits for Confucius Institute support personnel, and miscellaneous office expenses and express mail payments for CI office operations. Also usable to pay travel and housing costs in conjunction with Confucius Institute programs and activities.



## Gifts, Grants, and Contracts for May 2011

### Non-Research

#### Mainland- Business and Other

Gilead Sciences, Inc \$93,770

GS-264-0110: A Phase 3B, Randomized, Open-label Study to Evaluate the Safety and Efficacy of a Single Tablet Regimen of Emtricitabine/Rilpivirine/Tenofovir Disoproxil Fumarate Compared with a Single Tablet Regimen

Shikuma, Cecilia M Department of Medicine

We plan to recruit, screen, enroll, and manage HIV-infected, HIV treatment inexperienced participants on a research study to compare 2 different treatment regimens. We will be administering the study drug, then monitoring the participants for side effects and efficacy.

Novartis Pharmaceuticals Corp \$157,864

LCZ696B2314: Study to Evaluate the Efficacy and Safety of LVZ696 Compared to Enalapril on Morbidity and Mortality in Patients with Chronic Heart Failure

Arakaki, Richard F Department of Medicine

To test if LCZ696 is superior to enalapril in delaying time to first occurrence of the composite endpoint, which is defined as either Cardiovascular death or Heart Failure hospitalization, in patients with chronic heart failure (NYHA class II-IV) and reduced ejection fraction.

Woods Hole Oceanographic Institution \$1,402,500

R/V Kalmikai O Kanaloa Subcontract to WHOI to Support Western Pacific Research under the Direction of Dr. Ken Buesseler

Shor, Alexander N School of Ocean and Earth Science and Technology

The University of Hawaii offers to provide the R/V KOK, fully fueled, crewed and provisioned, for fifty-one (51) days of 24hr/day operations underway. Two days mobilization and one day de-mobilization at the UH Marine Center, Pier 45, Honolulu, Harbor, would be included at no additional cost. Also included in the day rate are two UH marine technicians.

#### Mainland- Health Organizations

American Federation for Aging Research \$60,000

Hartford Center of Excellence in Geriatrics

Masaki, Kamal H Department of Geriatric Medicine

Faculty Development Award in Geriatrics.

#### Mainland- Non-Profit Organizations

New England Foundation for the Arts \$5,000

National Dance Project, Living Waters

Patti, Joseph S Chancellor, Leeward Community College

Performance and Outreach events for Na Kinimakalehua - Living Water.

#### National Science Foundation

National Science Foundation \$2,000,000

University of Hawaii Ship Operations 2005-2009

Shor, Alexander N School of Ocean and Earth Science and Technology

Continued operation of research vessels Kilo Moana and Kalmikai-O-Kanaloa in support of NSF-funded ocean science.

# Gifts, Grants, and Contracts for May 2011

## Non-Research

### National Science Foundation

National Science Foundation \$6,000

Transcriptional Coding of Interneuron Differentiation

Robinow, Steven N Department of Zoology

Funds are requested to support two undergraduate students in the research lab for the summer of 2011. Both students will work on projects related to understanding how neurons develop.

National Science Foundation \$10,000

Third International Conference on Acoustic Communications by Animals

Au, Whitlow W L Hawaii Institute of Marine Biology

Conduct a symposium on acoustic communications by animals at Cornell University, Statler Hotel

<b>Subcount:</b>	<b>45</b>	<b>Subtotal:</b>	<b>\$6,402,417</b>
<b>Count:</b>	<b><u>120</u></b>	<b>Total:</b>	<b><u>\$14,189,373</u></b>

# Funds Received from UH Foundation for 05/01/2011 - 05/31/2011

## Non-Research

### Hawaii- Non-Profit Organizations

University of Hawaii Foundation	\$7,200
"Living Laboratory and Smart Classrooms"	
Bhattacharya, Debasis	Chancellor, University of Hawaii Maui College
The University of Hawaii Maui College is seeking a grant from IBM to transfer knowledge from a living laboratory on energy sustainability to a classroom course. The project will contribute toward making students work-ready for jobs in the expanding field of energy management and renewable energy systems.	
University of Hawaii Foundation	\$2,463
"Center for Island Climate Adaptation and Policy"	
Burkett, Maxine	Sea Grant College Program
To provide support for activities relating to the Center for Island Climate Adaptation and Policy.	
University of Hawaii Foundation	\$1,002
"Kalena Silva"	
Carroll, Jeffrey G	Department of English
Reading and presentation as part of the Marjorie Sinclair Edel Reading Series.	
University of Hawaii Foundation	\$9,000
"Hi Chang Chai Excellence in Teaching Award"	
Choi, Song K	College of Engineering
The funds are used to provide three excellence in teaching awards for faculty members in the College of Engineering.	
University of Hawaii Foundation	\$9,000
"College of Engineering Service Award"	
Choi, Song K	College of Engineering
Funds in this grant will be used to provide the College of Engineering's service winner with a monetary award.	
University of Hawaii Foundation	\$30,635
"Kellogg Equity Model Expenditures"	
Johnsrud, Linda K	Executive Vice President for Academic Affairs/Provost
To pay for P-20 salary, fringe, and program costs.	
University of Hawaii Foundation	\$21,301
"Microbial Oceanography - Moore Foundation"	
Karl, David M.	Department of Oceanography
To train the next generation of scientists in the discipline of microbial oceanography.	
University of Hawaii Foundation	\$15,000
"Basic Institutional Needs"	
Kim, Yung-Hee	Center for Korean Studies
Pay for student hourly wages.	

# Funds Received from UH Foundation for 05/01/2011 - 05/31/2011

## Non-Research

### Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$5,500

"Confucius Institute Support"

Lau, Frederick C. Center for Chinese Studies

Provides salaries and fringe benefits for Confucius Institute support personnel, and miscellaneous office expenses and

express mail payments for CI office operations. Also usable to pay travel and housing costs in conjunction with

University of Hawaii Foundation \$68,200

"Confucius Institute Support"

Lau, Frederick C. Center for Chinese Studies

Provides salaries and fringe benefits for Confucius Institute support personnel, and miscellaneous office expenses and

express mail payments for CI office operations. Also usable to pay travel and housing costs in conjunction with

## Research

### Hawaii- Non-Profit Organizations

University of Hawaii Foundation \$8,000

"Communication Networks: Design and Performance"

Sasaki, Galen H Department of Electrical Engineering

Communication networks will be designed and analyzed. Both mathematical analysis and computer simulation will be

**Count:** 11

**Total:** \$177,301

**Extramural Research Awards  
for the Month of  
May 2011  
Distribution by Sponsors**

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DA-Dept of Agriculture	1	\$1,211,022	15.55%
DHHS-Dept of Health and Human Services	8	\$690,086	8.86%
DOD-Department of Defense	13	\$935,949	12.02%
DOE-Dept of Energy	1	\$195,000	2.50%
DOI-Dept of Interior	6	\$410,884	5.28%
Federal Agencies	1	\$800,229	10.28%
Foreign	5	\$404,298	5.19%
Hawaii- Business and Other	4	\$217,591	2.79%
Hawaii- Government Agencies	11	\$1,097,652	14.10%
Hawaii- Non-Profit Organizations	1	\$8,000	0.10%
Mainland- Business and Other	4	\$175,245	2.25%
Mainland- Non-Profit Organizations	2	\$91,965	1.18%
National Aeronautics and Space Administration	2	\$115,000	1.48%
National Science Foundation	8	\$849,645	10.91%
US Colleges and Universities	8	\$584,390	7.50%
<b>Total:</b>	<b><u>75</u></b>	<b><u>\$7,786,956</u></b>	<b><u>100%</u></b>

**Extramural Non-Research Awards  
for the Month of  
May 2011  
Distribution by Sponsors**

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DA-Dept of Agriculture	1	\$30,000	0.47%
DHHS-Dept of Health and Human Services	2	\$371,501	5.80%
Federal Agencies	1	\$387,292	6.05%
Foreign	1	\$10,000	0.16%
Hawaii- Business and Other	3	\$178,739	2.79%
Hawaii- Dept of Education	1	\$180,000	2.81%
Hawaii- Government Agencies	16	\$1,267,387	19.80%
Hawaii- Health Organizations	1	\$40,000	0.62%
Hawaii- Non-Profit Organizations	11	\$202,364	3.16%
Mainland- Business and Other	3	\$1,654,134	25.84%
Mainland- Health Organizations	1	\$60,000	0.94%
Mainland- Non-Profit Organizations	1	\$5,000	0.08%
National Science Foundation	3	\$2,016,000	31.49%
<b>Total:</b>	<b><u>45</u></b>	<b><u>\$6,402,417</u></b>	<b><u>100%</u></b>

**Extramural Research Awards  
Year to Date: 07/01/10 - 05/31/11  
Distribution by Sponsors**

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DA-Dept of Agriculture	51	\$11,839,218	4.66%
DHHS-Dept of Health and Human Services	87	\$55,146,028	21.71%
DOC-Dept of Commerce	62	\$27,422,405	10.80%
DOD-Department of Defense	67	\$44,397,058	17.48%
DOE-Dept of Energy	22	\$21,994,873	8.66%
DOI-Dept of Interior	59	\$5,811,667	2.29%
ED-Dept of Education	3	\$1,365,407	0.54%
Federal Agencies	12	\$5,540,630	2.18%
Foreign	26	\$6,204,377	2.44%
Hawaii- Business and Other	30	\$2,048,548	0.81%
Hawaii- Dept of Education	2	\$218,364	0.09%
Hawaii- Government Agencies	123	\$12,944,935	5.10%
Hawaii- Health Organizations	6	\$714,454	0.28%
Hawaii- Non-Profit Organizations	57	\$2,804,049	1.10%
Mainland- Business and Other	60	\$5,310,187	2.09%
Mainland- Health Organizations	12	\$1,370,600	0.54%
Mainland- Non-Profit Organizations	30	\$1,030,860	0.41%
Miscellaneous	1	\$215,987	0.09%
National Aeronautics and Space Administration	54	\$9,676,127	3.81%
National Science Foundation	97	\$26,252,594	10.34%
US Colleges and Universities	97	\$11,691,277	4.60%
<b>Total:</b>	<b><u>958</u></b>	<b><u>\$253,999,645</u></b>	<b><u>100%</u></b>

Note: YTD amounts include adjustments.

**Extramural Non-Research Awards  
Year to Date: 07/01/10 - 05/31/11  
Distribution by Sponsors**

<b><u>AGENCY-UNIT</u></b>	<b><u>NO. OF AWARDS</u></b>	<b><u>AMOUNT</u></b>	<b><u>PERCENT</u></b>
DA-Dept of Agriculture	14	\$2,817,915	1.56%
DHHS-Dept of Health and Human Services	34	\$8,326,951	4.61%
DOC-Dept of Commerce	24	\$38,255,413	21.16%
DOD-Department of Defense	9	\$888,007	0.49%
DOE-Dept of Energy	1	\$750,000	0.41%
DOI-Dept of Interior	14	\$596,233	0.33%
ED-Dept of Education	78	\$37,710,173	20.86%
Federal Agencies	17	\$13,837,253	7.66%
Foreign	30	\$1,712,939	0.95%
Hawaii- Business and Other	40	\$5,596,854	3.10%
Hawaii- Dept of Education	12	\$2,670,521	1.48%
Hawaii- Government Agencies	120	\$24,307,471	13.45%
Hawaii- Health Organizations	11	\$3,525,499	1.95%
Hawaii- Non-Profit Organizations	91	\$5,858,041	3.24%
Mainland- Business and Other	19	\$2,691,453	1.49%
Mainland- Health Organizations	3	\$231,250	0.13%
Mainland- Non-Profit Organizations	34	\$3,143,849	1.74%
National Aeronautics and Space Administration	5	\$3,692,825	2.04%
National Science Foundation	46	\$21,744,206	12.03%
US Colleges and Universities	34	\$2,397,206	1.33%
<b>Total:</b>	<b><u>636</u></b>	<b><u>\$180,754,059</u></b>	<b><u>100%</u></b>

Note: YTD amounts include adjustments.