Gifts, Grants, and Contracts for November 2008

The following gifts, grants and contracts received by all campuses during the period November 1, 2008 through November 30, 2008 total $28,990,381.

This report is also available for viewing at: http://www.hawaii.edu/ors/Board_Reports.htm

Research

DA-Dept of Agriculture

Department of Agriculture

High Resolution Fire Weather Forecasts for Hawaii
Yi-Leng Chen Department of Meteorology
This amendment continues work toward the long-term objective of providing high resolution weather modeling support for fire management applications in Hawaii. This work will be done in collaboration with NOAA NWS efforts to apply high resolution weather forecasting for risk assessment of natural disasters such as wildfire in Hawaii.

Department of Agriculture

Collaborative Effort: Aquaculture and Livestock
William Steiner College of Agriculture, Forestry-UHH
Examine the feasibility of developing specific goat breeds and hybrid Australian Milling Zebu cattle (Phase I)

DHHS-Dept of Health and Human Services

National Center on Minority Health and Health Disparities/NIH/DHHS
Culturally Competent Telemedicine for Type 2 Diabetes in Native & Pacific Peoples
Marjorie K H Mau Department of Native Hawaiian Health
The proposed administrative supplement seeks to develop and test a culturally competent telemedicine model of chronic disease management for type 2 diabetes in rural, medically underserved Native and Pacific communities.

National Institute of Child Health and Human Development/NIH/DHHS
National Children's Study University of Hawaii Study Center - Honolulu County
Lynnae K Millar Department of Obstetrics, Gynecology, and Women's Health
Our objective is to be part of the National Children's Study (NCS) and contribute to the planned cohort study examining the effects of environmental influences on the health and development of approximately 100,000 children.

National Institute of Diabetes and Digestive and Kidney Diseases/NIH/DHHS
Nutritional Risk Factors for Type 2 Diabetes in the Multiethnic Cohort
Gertraud Maskarinec Cancer Research Center
Link the Multiethnic Cohort with a list of identified diabetes patients from the 2 major insures in Hawaii. Determine the prevalence and incidence of diabetes among Caucasians, Japanese, and Native Hawaiians in the linked dataset. Evaluate the association of overweight, obesity, weight change since 21, and physical activity with the occurrence of diabetes by ethnic groups.

National Institutes of Health/DHHS
Malarial Immunity in Pregnant Cameroonian Women
Diane W. Taylor Dept of Trop Med, Medical Microbiology and Pharmacology
The study evaluates the influence of an antimalarial drug on the immune response of pregnant Cameroonian women to malaria. Specifically, it will determine if treatment decreases immunity that aids in eliminating parasite from the placenta, pathology associated with low birthweight babies, and alters immunity to malaria in babies.

National Institutes of Health/DHHS
Neurodevelopment of Methamphetamine Exposure of Children
Donald C Derauf Department of Pediatrics
The mentored patient oriented research career development award will allow Dr. Derauf protected time and
Gifts, Grants, and Contracts for November 2008

Research

DHHS-Dept of Health and Human Services

support to develop the expertise needed to transition his career from one primarily focused on clinical service, teaching and administration to one focused on independent research and clinical program development.

National Institutes of Health/DHHS $768,629
Enhancement of Research Infrastructure at UH Hilo (RIMI)
Rose Tseng Chancellor, University of Hawaii at Hilo-UHH

DOD-Department of Defense

DOD-Advanced Research Project Agency $27
Evaluation of Hyles lineata and Daphnis nerii Sphinx Moths as Model Organisms for Hybrid Insect MEMS Technology
Daniel Z Rubinoff Department of Plant and Environmental Protection Sciences
Develop and evaluate three insect species as MEMS hybrid models.

DOD-Center for Excellence - DMHA $69,948
Disaster Management Graduate Certificate Course - Responsive Quotation
Karl E Kim Department of Urban and Regional Planning
To work on disaster management certificate program to include migration of the International Committee of the Red Cross Health Emergencies in Large Populations (HELP) course curriculum into the university academic offerings.

DOD-US Army Medical Research & Material Command -$33
Bioterrorism Preparedness Infectious Disease
Lawrence P A Burgess John A. Burns School of Medicine

Department of the Air Force $29,116
Operations and Management of the Maui High Performance Computing Center
David K Lassner Information Technology Services
Cost reimbursement award term contract for research, development, operations and management of the Maui Supercoming Center.

Department of the Air Force $31,694
Operations and Management of the Maui High Performance Computing Center
David K Lassner Information Technology Services
Cost reimbursement award term contract for research, development, operations and management of the Maui Supercoming Center.
Gifts, Grants, and Contracts for November 2008

Research

DOD-Department of Defense

Office of Naval Research

Enhanced Tactical Fuel Design: Fundamental Combustion Studies of Boron Nanoparticle Multi-component Fuel
(University of Hawaii Component)

Stephen M Masutani Hawaii Natural Energy Institute

Investigation of the combustion characteristics of a slurry comprising a mixture of a liquid fuel and coated boron
nanoparticles to enhance energy content.

DOE-Dept of Energy

Department of Energy

Hydrogen Fuel Contaminant Studies for PEM Fuel Cells

Richard E Rocheleau Hawaii Natural Energy Institute

Testing and analysis to characterize the effect of low level contaminants on PEM fuel cells.

Foreign

Bio-ON

PHA Bioplastics Production from Sugar Manufacturing Residues

Jian Yu Hawaii Natural Energy Institute

Design of a pre-industrial scale pilot-plant for technology commercialization including optimization of process
conditions

Japan Ecologia Co.Ltd

Antifouling testing of new coatings

Michael G Hadfield Pacific Biosciences Research Center

Analysis of coated slides provided by Japan Ecologia to determine the percent of Hydroides elegans larvae that
settle on the slide; conduct experiments to determine forces necessary to dislodged the settled worms

Hawaii- Business and Other

BioEco Tek - Hawaii

Research Pathways for Microalgal Processing

Michael J Cooney Hawaii Natural Energy Institute

Develop energy, water and cost affordable technologies to process microalgal biomass into renewable fuels

HR Biopetroleum

Pre-Screening of Algal Strains for Optimal Biomass and Lipid Potential: Selection of Viable Candidates for High-
Throughput Screening

Zackary I Johnson Department of Oceanography

Review and selection of candidate species of algal strains with the greatest potential for high biomass and lipid
production

HR Biopetroleum

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

Zackary I Johnson Department of Oceanography

High-throughput screening of preselected algal strains for commercial lipid production
Gifts, Grants, and Contracts for November 2008

Research

Hawaii- Business and Other

HR Biopetroleum  $694,230

Biochemical Characterization of Marine Microalgae for Optimal Biomass and Lipid Production
Robert R Bidigare  Hawaii Institute of Marine Biology
Isolation and identification of novel microalgae aimed at enhancing lipid content

Hawaii Agriculture Research Center  $32,000

Proteomics Study of Tropical Plants
Qingxiao Li  Department of Molecular Biosciences and Bioengineering
Identify proteins involved in the resistant interaction of the most tolerant papaya cultivar, Kamiya, to its major root-rot pathogen.

Hawaii Farm Bureau Federation  $70,000

Development of a Comprehensive Approach to Hawaii's Farm-Level Food Safety Risk Assessments
James R Hollyer  Department of Plant and Environmental Protection Sciences
Develop new farm-level food safety protocols to help farmers quickly and cost-effectively, determine levels of risk and critical food safety compliance needs.

Neurobehavioral Research Inc  $71,482

Design and Development of Image Processing and Analysis Algorithms
David Yun  Department of Electrical Engineering
Design and development of image processing and analysis of unique algorithms

Referentia Systems Inc  $30,000

Synthetic Training Environments with Culturally-informed Agents Coatings
Sunki Chai  Department of Sociology
Develop a computational implementation of a cross-cultural communication model and interface that model with a proprietary cognitive representation system

TREX Hawaii LLC  $23,543

Modeling and Simulation of an Ocean Wave Energy Extraction Device for Sensor Applications
R Cengiz C Ertekin  Department of Ocean and Resources Engineering
An Ocean Wave Energy Extraction Device designed to produce energy needed for ocean sensor applications will be modeled and analyzed to determine its technical feasibility.

TeraSys Technologies LLC  $38,647

Millimeter-Wave Retrodirective Antenna Array for Transportable Robotics Systems
Wayne Akira Shiroma  Department of Electrical Engineering
Develop antenna technology for robotic systems

Hawaii- Government Agencies

County of Hawaii  $5,000

Reclaiming Hawaii's Avocado Market through Branding of Hawaii County Grown Avocados
Catherine Chan-Halbrendt  Department of Natural Resources and Environmental Management
Creating labels to brand Avocados as "Hawaii Grown". Conducting consumer surveys and in store sales tests to determine effectiveness of labeling.
Gifts, Grants, and Contracts for November 2008

Research

Hawaii- Government Agencies

Hawaii Invasive Species Council

An Early Detection System for Invasive Species: Development and Proof-of-Concept of a Taxonomic Microarray
Robert J Toonen Hawaii Institute of Marine Biology
Proof-of-concept on developing a taxonomic DNA chip for the early detection of invasive species entering Hawaii via maritime vessel traffic.

Hawaii Invasive Species Council

Evaluating Impact of Puccinia Psidii Rust Strains on Ohi`a
Janice Y Uchida Department of Plant and Environmental Protection Sciences
Collect rust samples from various host plants in the Myrtaceae family. Conduct molecular analysis of samples to determine the number of species present in the Hawaii population.

Hawaii-Dept of Health

ADAD Statewide School Complex Treatment Evaluation
Deborah A Goebert Department of Psychiatry
Conduct a statewide school complex treatment evaluation for the Department of Health, Alcohol and Drug Abuse Division.

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Hawaii-Dept of Land & Natural Resources

Coastal Lands Data Program
Charles H Fletcher Department of Geology and Geophysics
Provide for development, management and dissemination of coastal data and research products for the DLNR Office of Conservation and Coastal lands as outlined in the memorandum of agreement to help it in its efforts to protect and conserve beaches and dunes for present and future generations.

Hawaii-Dept of Land & Natural Resources

Database: Pacific Weed Risk Assessment
Sharon Ziegler-Chong Pacific Aquaculture-UHH

Hawaii-Dept of Land & Natural Resources

Kauai Endangered Seabird Conservation Research and Management
David C Duffy Department of Botany
Conduct research on the populations of endangered Kauai seabirds and make recommendations for conservation strategies.
Gifts, Grants, and Contracts for November 2008

Research

Hawaii- Government Agencies

Hawaii-Dept of Land & Natural Resources

- Threatened & Endangered Species Recovery: Kauai: 2008 Supplement
  David C Duffy
  Department of Botany
  Conduct applied field research to promote recovery of Kauai’s threatened and endangered species.

$9,531

Hawaii-Dept of Land & Natural Resources

- Detection and Control of Invasive Species on the Island of Hawaii
  David C Duffy
  Department of Botany
  Continue Big Island Invasive Species Committee’s efforts to contain damaging invasive species on the Big Island.

$493,076

Hawaii-Dept of Land & Natural Resources

- Maui Invasive Species Committee: Coqui Frogs: Overcoming Site Limitations
  David C Duffy
  Department of Botany
  Conduct citric acid sprays on 10 coqui frog-infested test sites in the Maliko Gulch on Maui, and measure changes to frog population density.

$75,000

Hawaii-Dept of Land & Natural Resources

- Technical Support for Miconia Studies
  David C Duffy
  Department of Botany
  Conduct comparative research Miconia’s collateral effects on the environment in Tahiti and Hawaii.

$9,495

Hawaii-Dept of Land & Natural Resources

- Protection of Core Watershed Forests of Southern Haleakala
  Clifford W Morden
  Department of Botany
  Conduct restoration and management-based research in the watershed forests on Southern Haleakala.

$348,106

Hawaii-Dept of Land & Natural Resources

- Detection and Control of Invasive Species in Wao Kele o Puna on the Island of Hawaii
  David C Duffy
  Department of Botany
  Survey and control invasive species in the forest reserve of Wao Kele o Puna on the island of Hawaii.

$50,000

Hawaii-Dept of Transportation

- Five Year Monitoring of Corrosion Field Specimens
  Ian N Robertson
  Department of Civil and Environmental Engineering
  This project involves monitoring the performance of reinforcing steel in concrete panels exposed to marine environments. Various corrosion inhibiting measures will be evaluated.

$24,237

Hawaii- Health Organizations

Kuakini Medical Cntr

- Kuakini Medical Center Subaward for Research Grant: Epidemiology of Brain Aging in the Very Old, NIH Grant No: 2UCAC019349-06A1
  Elizabeth K Tam
  Department of Medicine
  Dr. McMurtray will be performing neurological examinations of cohort members on the "Epidemiolog of Brain Aging in the Very Old" Project.

$75,389
Gifts, Grants, and Contracts for November 2008

Research

Hawaii- Health Organizations

Univ. Clinical, Education & Research Assoc. (UCERA) $77,358
  UCERA - Hoana Medical
  Lawrence P A Burgess  John A. Burns School of Medicine
  Provide general support for evaluation and development of research and development activities for Hoana Medical, Inc.

Univ. Clinical, Education & Research Assoc. (UCERA) $4,195
  UCERA-BIOSEN 2 (Patterns of Psychophysiologic Response in Technology-Enabled Learning and Intervention Systems)
  Lawrence P A Burgess  John A. Burns School of Medicine
  Onsite supervision; Responsible for assisting subject recruitment; Provide consultation on stress and post traumatic stress disorder (PTSD) during the data analysis stage of the research; General support for the development and implementation of the research project.

Univ. Clinical, Education & Research Assoc. (UCERA) $73,405
  UCERA-SimCenter 2 (SimCenter Hawaii: Virtual Reality Applications for Health Care Education and Training)
  Benjamin W Berg  John A. Burns School of Medicine
  Support for virtual reality development, application, and measurement.

Waianae Coast Comprehensive Health Center $20,000
  Program Evaluations - Waianae Coast Comprehensive Health Care Center
  Hamilton I. McCubbin  School of Social Work
  Conduct evaluation (qualitative and quantitative) of the impact of the Waianae community health program in Waianae, Hawaii.

Hawaii- Non-Profit Organizations

HCF-Leahi Trust $60,000
  Caveolin-1 is a Key Mediator for the Development and Progression of Lung Fibrosis
  Claude Le Saux  Department of Cell and Molecular Biology
  Five million people worldwide are affected by lung fibrosis with currently no effective treatments of a cure. The aim of this proposal is to study the role of caveolin-1, a potential inhibitor of the development and progression of this disease, to direct novel therapeutic strategies to control lung fibrosis.

Hawai`i Community Foundation $49,330
  Novel Genetic Predisposing Factor for Skin Ulcer
  Katalin Csizsar  Department of Complementary and Alternative Medicine
  The proposal will investigate a new model for skin ulcers with mutation in the MPZL3 gene and human mutations in this gene associated with diabetic ulcer development.

Univ of Hawaii Foundation $5,000
  The Primal Quest
  Louis G Herman  Chancellor, University of Hawaii at West Oahu
  Salary of lecturer replacement for Louis Herman to continue work on his Primal Quest book, manuscript, and multimedia project. Money received from Doran Foundation.
Gifts, Grants, and Contracts for November 2008

Research

Hawaii- Non-Profit Organizations

Univ of Hawaii Foundation
  Collaborative Software Development Laboratory Fund
  Philip M Johnson  Department of Information and Computer Sciences
  Perform research on automated software engineering process and product collection, analysis, interpretation, and dissemination using the Hackystat Framework.

Univ of Hawaii Foundation
  W.M. Keck Research Center in Astrochemistry at UHM
  Ralf Ingo Kaiser  Department of Chemistry
  To set up a laboratory in astrochemistry.

Univ of Hawaii Foundation
  Japanese Language Socialization in Homestay Context
  Haruko Minegishi Cook  Department of East Asian Languages and Literatures
  Transcriptions of video-recorded conservations between learners of Japanese and their host families.

Mainland- Business and Other

Algenol Biofuels, Inc.
  Collaborative Services Plan: Cyanobacteria for Commercial Ethanol Production
  Charles O'Kelly  Department of Botany
  Screen the 2000-plus cyanobacteria collection of the Hawaii Microbial Culture Center for (a) strains that are promising for use in ethanol production, and (b) strains with physiological characteristics that may enhance the productivity of strains used in commercial ethanol production

Allergan Inc
  Biophysical Studies on Botulinum Neurotoxin based on Fluorescence Correlation Spectroscopy
  David M Jameson  Dept Anatomy, Biochemistry, Physiology and Reproductive Biol
  Biophysical characterization of the botulinum toxin protein using advanced fluorescence methods

American Biodiesel
  Efficient Processing of Algal Bio-oils for Biodiesel Production
  Michael J Cooney  Department of Ocean and Resources Engineering
  Evaluation of new processes to produce biodiesel from microalgal lipids to determine an energy-efficient process microalgae grown on sugar waste

Cellana LLC
  Pre-Screening of Algal Strains for Optimal Biomass and Lipid Potential: Selection of Viable Candidates for High-Throughput Screening
  Zackary I Johnson  Department of Oceanography
  Review and selection of candidate species of algal strains with the greatest potential for high biomass and lipid production

Total

$4,600
$112,000
$4,370
$303,340
$450,000
$36,286
$430,251
Gifts, Grants, and Contracts for November 2008

Research

Mainland- Business and Other

Cellana LLC $2,527,665
  High Throughput Screening (HTS) of Algal Strains for Optimal Biomass and Lipid Production
  Zackary I Johnson Department of Oceanography
  High Throughput Screening of preselected algal strains for commercial lipid production

Cellana LLC $535,122
  Biochemical Characterization of Marine Microalgae for Optimal Biomass and Lipid Production
  Robert R Bidigare Hawaii Institute of Marine Biology
  Isolation and identification of novel microalgae aimed at enhancing lipid content

Dow AgroSciences $17,500
  Evaluation of Subterranean Termite Behavior and Control
  Jack Kenneth Grace Department of Plant and Environmental Protection Sciences
  Evaluation of behaviorally-based methods of subterranean termite control

Eli Lilly & Co $33,425
  A Randomized Trial Comparing Exenatide with Placebo in Subjects with Type 2 Diabetes on Insulin Glargine w/or Without oral Antihyperglycemic Medication
  Richard F Arakaki Department of Medicine
  Eli Lilly H80-US-GWCO: The purpose of this study is to help determine whether the drug exenatide, when added to a treatment regimen of insulin glargine (alone or in combination w/metformin and/or pioglitazone), will improve blood sugar levels in patients with type 2 diabetes.

Expert Microsystems Inc $23,367
  Prognostic Battery Remaining Life Model
  Bor Yann Liaw Hawaii Natural Energy Institute
  Development of a prognostic battery remaining life model for autonomic logistics in distributed information systems

Gilead Sciences, Inc $101,401
  A Multi-center, Randomized, Double-Blind, Double-Dummy, Phase 3 Study of the Safety and Efficacy of Ritonavir-Boosted Elvitegravir (EVG/r) Versus Ralte
  Cecilia M Shikuma Department of Medicine
  To test experimental HIV drug therapy on human subjects.

Health Research, Inc $185,220
  Chemical Markers of Heterocyclic Aromatic Amines for Human Biomonitoring
  Loic Le Marchand Cancer Research Center
  Establish noninvasive chemical markers of heterocyclic aromatic amines (HAAs) to allow for an assessment of long-term HAA exposure through the diet to determine cancer risk.

Indigo Seafood $1,677
  Infauna of Subtidal Sands off the Kona Coast, Hawaii
  Julie H Bailey-Brock Department of Zoology
  Provide an analysis of the sand-dwelling fauna at a location being considered for cage aquaculture
Gifts, Grants, and Contracts for November 2008

Research

Mainland- Business and Other

Lightspin Technologies

Time Resolved Spectrometer FPA Readout

Gary S Varner  
Department of Physics and Astronomy

Design and characterize CMOS ASIC and supporting interface electronics

$150,000

Malin Space Science Systems

University of Hawai`i Participation in: MAHLI - MArs HandLens Imager for the Mars Science Laboratory

Scott K Rowland  
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.

$27,712

Nature Conservancy

Direct ULV herbicide applications for controlling Australian Tree Fern in native watersheds on the island of Kauai

James Leary  
College of Tropical Agriculture and Human Resources

Determine chemical combinations effective in controlling Australian Tree Fern minimal environmental impact to the surrounding environment

$8,430

Novartis Pharmaceuticals Corp

Novartis Pharmaceuticals Corporation CLAF237A23138E1 - ‘A 28-Week Extension to a 24-Week Multi-Center, Randomized, Double-Blind, Active-Controlled¿’

Richard F Arakaki  
Department of Medicine

This study will determine the safety and efficacy of the study drug, vildagliptin, in patients with type 2 diabetes and severe kidney damage.

$8,860

Rockwell Scientific Company LLC

Repeat Testing of Banded Arrays

Donald N Hall  
Institute for Astronomy

Performance testing of banded arrays for use with the James Webb Space Telescope project.

-$176

Space Telescope Science Institute

Comprehensive Theoretical UV-optical Diagnostics for STIS and COS

Lisa J Kewley  
Institute for Astronomy

We propose to exploit the recent major advances in theoretical stellar atmospheres, stellar population synthesis, and photoionization models to create the first consistent theoretical suite of UV-optical emission and absorption diagnostics.

$81,599

Williamson and Associates, Inc

Trans-Pacific Mapping of the Great Circle Route

Margaret H Edwards  
Hawaii Institute of Geophysics and Planetology

MR1 mapping of the deep ocean sea floor across the Northern Pacific Ocean for general reconnaissance.

$507,083
Gifts, Grants, and Contracts for November 2008

Research

Mainland- Health Organizations

Women & Infants Hospital of Rhode Island $289,588
  Prenatal Methamphetamine Exposure and School Aged Outcome (IDEAL II)
  Donald C Derauf Department of Pediatrics
  The major goal of this project is to study the effects of prenatal methamphetamine exposure on child outcomes.

Mainland- Non-Profit Organizations

Kellogg (W. K.) Foundation $375,000
  KLCC Longitudinal Evaluation
  Maenette KP Benham Hawai‘inuikea School of Hawaiian Knowledge
  The Kellogg Leadership for Community Change series provides a unique opportunity to assess how a group leadership development experience can contribute to improving conditions in communities.

National Urban and Community Forestry Advisory Council $112,577
  Beyond the Tropical and the Quaint: People's Psychophysiological Responses to the Urban Forest
  Andrew J Kaufman College of Tropical Agriculture and Human Resources
  This project's purpose is to increase our understanding of the psychological benefits of trees using psychophysiological measures to reveal positive and negative relationships between people and the urban forest. Results will be targeted for educational programs, and assisting policy makers and developers attitudes about the importance of the urban forest.

National Aeronautics and Space Administration

National Aeronautics & Space Administration $101,005
  Investing Midlatitude Ocean and Climate Dynamics using Satellite Altimetry and Modeling Analysis
  Bo Qiu Department of Oceanography
  Characterize and understand the nature and causes of the large-scale fluctuations in the midlatitude North and South Pacific Oceans on time scales from interannual to decadal.

National Aeronautics & Space Administration $119,771
  Dynamics of Anisotropic Mean and Time-varying Structures of Ocean Circulation
  Nikolai A Maximenko Department of Oceanography
  Satellite data, in situ observations, and outputs of advanced numerical models will be used jointly to study the dynamics of anisotropic mesoscale stationary and propagating jet-like structures recently discovered in the upper ocean.

National Aeronautics & Space Administration $400,000
  Origin and Evolution of the Solar System Through the Study of Extraterrestrial Materials
  Klaus Keil Hawaii Institute of Geophysics and Planetology
  Study of extraterrestrial materials such as meteorites from asteroids, Moon and Mars and returned lunar samples to understand the history of solid materials in the first few million years of Solar System history, and the formation of planetesimals, asteroids and planets.

National Aeronautics & Space Administration $97,255
  Using the Near-Sun Neutral Helium to Probe the Corona
  Elena Moise Institute for Astronomy
  Cool neutral Helium (He I) is being observed near the Sun. Sensitive IR spectropolarimetry data using an off-axis
Gifts, Grants, and Contracts for November 2008

Research

National Aeronautics and Space Administration

reflecting coronagraph (SOLARC) from Haleakala reveal scattered photospheric light at 1083nm from HE I far above the solar limb. This project will support extended analysis and interpretation of this transient coronal constituent.

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

National Science Foundation

National Science Foundation
CAREER: Crystallization Kinetics in Volcanology
Julia Eve Hammer Department of Geology and Geophysics
Experimental study of crystal nucleation, growth, and textural evolution in silicate magma.

National Science Foundation
Collaborative Research: Hawaiian Plume Heterogeneity Revealed by Kilauea's Ongoing Eruption, Prehistoric Lavas and Olivine-hosted Melt Inclusions
Michael O Garcia Department of Geology and Geophysics
To analyze historical lavas from Kilauea volcano to evaluate the heterogeneity and melting processes in the Hawaiian plume.

National Science Foundation
Graduate Research Fellowship Program
Rose Tseng Chancellor, University of Hawaii at Hilo-UHH

National Science Foundation
NSWP: Tomographic Reconstruction of the 3-D Coronal Magnetic Field from Space- and Ground-Based Intensity and Polarimetry Data
Haosheng Lin Institute for Astronomy
A direct observational study of the 3-D magnetic field structure of the solar corona with the development of scalar and vector tomography tools for the reconstruction of the 3-D coronal magnetic field structure.

National Science Foundation
CAREER: Bridging Modern Computational Capabilities and Observations of Solar Magnetic Fields with Expanding Solar Physics Education at the University of Hawaii
Ilia I Roussev Institute for Astronomy
Gifts, Grants, and Contracts for November 2008

Research

National Science Foundation

National Science Foundation

Collaborative Research: Eclipse Observations of Heavy Ions, Neutrals and Dust Grains in the Solar Corona
Shadia R Habbal Institute for Astronomy
Observations of the total solar eclipses in 2008, 2009, and 2010 will study the coronal magnetic field and the underlying physical processes shaping the solar corona. The resulting data should provide powerful diagnostic tools for the exploring the physics of the corona and the acceleration region of the solar wind.

National Science Foundation

CAREER: Bridging Modern Computational Capabilities and Observations of Solar Magnetic Fields with Expanding Solar Physics Education at the University of Hawaii
Ilia I Roussev Institute for Astronomy
We propose to combine recent theories and modern computational capabilities with advanced magnetic observations at the Sun's visible surface to improve present knowledge of coronal magnetic fields in coordination with existing observational solar research.

US Colleges and Universities

Hawaii Pacific University

Ecological Factors and Drug Use of Native Hawaiian Youth
Susana Helm Department of Psychiatry
Examine the ecological risk and protective factors relevant to youth of Hawaiian ancestry in Hawaii.

Johns Hopkins University

Modifying the Food Environment to Prevent Obesity Among Low Income Urban African American Children by Working in Food Stores, Schools and Community
Sangita Sharma Cancer Research Center
To develop, implement and evaluate a food and store based intervention program aimed to improve food consumption and reduce risk of obesity in African American children.

Johns Hopkins University

Sustaining and Scaling Up a Successful Food-Store Based Program to Improve Diet and Reduce Risk for Obesity and Other Chronic Disease in Amer. Indians
Sangita Sharma Cancer Research Center
Develop and analyze a food frequency questionnaire to assess food and nutrient intake for the Navajo and Apache tribes in Arizona.

Northeastern University

Endocannabinoid Active Sites as Therapeutic Targets
Marcus A Tius Department of Chemistry
Preparation through chemical synthesis of a series of organic small molecules to use as probes for biological function.

University of Arizona

Vegetation Phenology and Vegetation Index Products from Multiple Missions and Satellite Sensors
Tomoaki Miura Department of Natural Resources and Environmental Management
Characterize the potential impacts of spectral bandpass differences across multi-sensors (AVHRR, MODIS, and VEGETATION) on the derived phenology and EVI/EVI-2 products, and derive spectral transformation equations accompanied with associated uncertainties. Assemble and stage 1 km daily MODIS data and limited sets of daily
Gifts, Grants, and Contracts for November 2008

Research

US Colleges and Universities

University of California, Irvine
Immunodominance in Dengue-Specific T Cell Responses
Allison Imrie Office of Public Health Studies
We aim to understand mechanisms determining memory and recall responses in secondary dengue virus infection. These findings are directly applicable to dengue vaccine design that may improve safety by avoiding potential cross-reactivity in T cell responses.

University of California, Santa Cruz
Partnership for Interdisciplinary Studies of the Coastal Ocean (PISCO)
Margaret Anne McManus Department of Oceanography
The object of this activity is to bring specialists together across disciplines; analyze subtidal, intertidal, and oceanographic findings collectively; and develop a more synthetic view of the processes that occur in coastal waters. Our ultimate aim is to move toward a capability for forecasting the effects of climate change on the ecology of coastal waters.

University of Georgia
Functional Genomics of Maize Centromeres
Gernot G E Presting Department of Molecular Biosciences and Bioengineering
Chromosome movement during cell division is controlled by the centromere. The proper segregation of chromosomes into the two daughter cells during cell division is required for survival, making the centromere an extremely important chromosomal region. The DNA and protein components of corn centromeres will be studied with the intent of identifying the critical components for making an artificial chromosome.

University of Southern California
Characterizing Genetic Susceptibility to Breast and Prostate Cancer: the BPC3
Loic Le Marchand Cancer Research Center
The major goal of this project, which is part of the "Cohort Consortium," is to allow for large-scale analyses of breast and prostate cancer risk in relation to genetic polymorphisms and gene-environment interactions that affect hormone metabolism.

University of Vermont
Sex Chromosomes in Fetal Programming of Susceptibility to EAE
Monika Anna Ward Dept Anatomy, Biochemistry, Physiology and Reproductive Biol
The objective of this collaborative project is to define how the organizational masculinization of experimental allergic encephalomyelitis (EAE) in female mice by action of the Y chromosome-encoded susceptibility locus (Yeae) is achieved during gestation, and to identify the mechanism of action of Yeae that is mechanistically most relevant to multiple sclerosis (MS).

Utah State University
Enhancing Phyto-nutrient Content, Yield and Quality of Vegetables with Compost Tea in the Tropics
Theodore J. Radovich Department of Tropical Plant and Soil Sciences
This project includes research and educational activities to improve the efficacy of compost tea and increase the role of renewable resources in Hawaii agriculture.
Gifts, Grants, and Contracts for November 2008

Research

| Subcount: 99 | Subtotal: $17,778,598 |

Non-Research

**DA-Dept of Agriculture**

Department of Agriculture

4-H Navy Youth Development Partnership Project

Carol S Ikeda

Department of Family and Consumer Sciences

To establish 4-H clubs and projects for Navy children and youth on and away from installations by providing Navy Child and Youth Program staff with the tools needed to organize 4-H clubs/programs.

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

Department of Health & Human Services

JOB'S MED: Hire Abilities - Hawaii

Robert A Stodden

Center on Disability Studies

Conduct study of employment supports health-care coverage delivered by DHHS, Vocational Rehabilitation. Project will build an analysis on creative industries & cultural tourism to expand career opportunities.

Health Resources and Services Administration/DHHS

Pacific Island Geriatric Education Center

Patricia Blanchette

Department of Geriatric Medicine

Health care professionals training in Geriatrics.

National Heart, Lung, and Blood Institute/NII/DHHS

Cardiovascular Autonomic Function in HIV Virologic Failure

Dominic Cheung Chow

Pacific Biosciences Research Center

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

National Institute of Mental Health/NII/DHHS

Outreach Partnership Program

Alexander M Wylie

Social Science Research Institute

To be the state-wide representative for the NIMH outreach partner activities. Promote mental health awareness.

National Institutes of Health/DHHS

2008 National Nutrient Databank Conference Proceedings

Suzanne P. Murphy

Cancer Research Center

Publication of the proceedings of the 32nd National Nutrient Databank Conference held in Ottawa, Canada on May 13-14, 2008.

National Institutes of Health/DHHS

Model State-Supported Area Health Education Center

Kelley Marie Withy

Department of Complementary and Alternative Medicine

Improve diversity, distribution, and quality of the health professions workforce.
Gifts, Grants, and Contracts for November 2008

Non-Research

DOD-Department of Defense

DOD-Army National Guard $25,000

Team PLUS: Hawaii Enforcement Underage Drinking Laws (EUDL)
Cheryl L. Albright Cancer Research Center
Conduct a survey to determine the rate of alcohol sales to underage youth who order alcohol in on-premise liquor establishments on and around Hickam AFB.

DOD-Naval Research Laboratory $139,466

Supplement to: R/V KILO MOANA Ship Operations and Technical Support Services
Brian Taylor School of Ocean and Earth Science and Technology
The present request is for funds to overhaul the #4 Main Engine.

Office of Naval Research $39,000

Aha Hulikoa Workshop Series
Peter Muller Department of Oceanography
Proposal is for funding the 15th 'Aha Hulikoa Hawaiian Winter Workshop, to be held in January of 2007, at the East West Center Asia Room.

DOI-Dept of Interior

U.S. Geological Survey/Department of the Interior $43,946

Biodiversity Research Program
Clyde M Sakamoto Chancellor, Maui Community College
This cooperative agreement will allow USGS to co-locate at Maui Community College and involve students, faculty and staff to participate in biodiversity research and fieldwork including the modeling of spatial data.

ED-Dept of Education

ED-Dept of Education $132,438

Improving Student Success, Transition and Retention
Peggy T Cha Chancellor, Kauai Community College
The purpose of this grant is to strengthen the retention, graduation and success rates for the under-prepared student population at Kauai Community College by implementing a campus-wide College Success program which is modeled on the already successful case management pilot program and the EPSCoR funded Academy for Future Nurses.

ED-Dept of Education $77,491

Hawaii Project for Children and Young Adults who are Deaf-Blind
Kelly D Roberts Center on Disability Studies
Provide Technical Assistance and Training to service providers, families, and youth in the state of Hawaii - associated with Deaf-Blindness.

ED-Dept of Education $405,463

Improve Success of Pacific Islander
Luoluo Hong Vice Chancellor for Student Affairs-UHH
 Gifts, Grants, and Contracts for November 2008

Non-Research

ED-Dept of Education

ED-Dept of Education  $250,000
Upward Bound Rural Program
Leonard Woods, Vice Chancellor for Student Affairs-UHH
Matriculation of high school seniors from selected high schools to enter post secondary institutions

ED-Dept of Education  $132,402
Creating Purposeful and Sustainable Pathways in Student Services, Professional Development, and 21st Century Career Programs for Improved Student Outcomes
Leonard Richards, Chancellor, Kapiolani Community College
Kapiolani Community College’s goal in this Title III undertaking is to create three learning support pathways across the First-Year and Second-Year Experience, and into transforming marketplace, to support greater academic and career achievements for Native Hawaiian and other pathways students.

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

Federal Agencies

Department of Justice  $226,106
Hawaii Innocence Project
Aviam Soifer, William Richardson School of Law
Provide legal assistance, free of charge, to prisoners who have credible claim of actual innocence of the crime(s) for which they are imprisoned.

General Services Administration  $229,102
University of Hawaii Participation in PEPFAR HIV/AIDS/STI Peer Education Program for the Vietnamese Military
Cathy Nguyen, Department of Medicine
To support and scale up HIV/AIDS/STI prevention and peer education activities targeting the Vietnamese military.

General Services Administration  $597,574
University of Hawaii Participation in PEPFAR Prevention and System Strengthening Programs, for Vietnamese Military
Cathy Nguyen, Department of Medicine
To support peer-based prevention activities targeting the Vietnamese military, and to foster an environment for progressive HIV/AIDS policies within the Vietnamese military.

Peace Corps  $2,990
Collaboration for Peace Corps Recruiting Activities at the University of Hawaii Campuses
Rosemary Casey, College of Education
Provide continuous local recruitment activities to students/faculty/staff at the UH's 10 campuses with the goal of increasing the number of applications sent to the U.S. Peace Corps San Francisco Regional Office from UH and by Hawaii residents.
Gifts, Grants, and Contracts for November 2008

Non-Research

Foreign

Endangered Language Documentation Programme

Documentation of Inati, and Endangered Negrito Language of the Central Philippines
Kenneth L Rehg College of Languages, Linguistics, and Literature

This project aims to create archive-quality audio and video recordings of Inati, an endangered Negrito language on Panay Island in the Philippines. Audio and video data will be recorded, transcribed, glossed, and translated for further analytical use. Survey work will also be done to identical dialect variation within Inati.

Subaru Telescope

HiCIAO Performance Evaluation with AO
Klaus W Hodapp Institute for Astronomy

Fabricate interface module, install the interface in preparation of observing with the new instrumentation and evaluation of the performance of the instrumentation.

The German Institute for Geosciences & Natural Resources

RV Kilo Moana MANGAN 2009 Cruise
Brian Taylor School of Ocean and Earth Science and Technology

Support for vessel operations on a 36-day research cruise on R/V Kilo Moana for German Federal Institute of Geosciences & Natural Resources.

Hawaii- Business and Other

Alu Like

Oihana, Native Hawaiian Career & Technical Education Project
Earl K Nishiguchi Chancellor, Kauai Community College

The project will provide students internship opportunities and course work.

Alu Like

Native Hawaiian Digital Arts Project
Violet S Murakami Chancellor, Hawaii Community College

The project proposes to teach digital arts courses to Native Hawaiian students for the recruitment, retention and completion of Native Hawaiian students into the DMA program at Hawaii CC.

Alu Like

Alu Like FY2009, Naative Hawaiian Career and Technical Education, Kulia Ma Kapioi in Project (Year 2)
Mona Lee Chancellor, Kapioi in Community College

Offer a suite of culturally-based services to students that recruit, enroll, and support academic completion of career and technical education degrees and certificates. Partner with Castle High Schools Health Career Academy Project to create a clearly defined pathway from high school to college and to related employment in the career pathway.

Hawaii Farm Bureau Federation

2008 Hawaii Tea Educational Outreach Program
Stuart T Nakamoto College of Tropical Agriculture and Human Resources

To conduct extension-outreach for Hawaii Tea Program.
Gifts, Grants, and Contracts for November 2008

Non-Research

Hawaii- Business and Other

Hawaiian Electric Co Inc  
**Oahu Electrical System Analysis**  
Richard E Rocheleau  
School of Architecture  
Collect data and perform preliminary analysis of the suitability of this data for future model (MAPS and PSLF models) development of the Oahu Electric Company (HECO) grid. These models will provide valuable insights.

Hawaii- Government Agencies

County of Hawaii  
**Imiloa Marketing Program 2008-2009**  
Rose Tseng  
Chancellor, University of Hawaii at Hilo-UHH  
Expand Imiloa’s marketing capabilities and to build its base for tourists

DLNR-Division of Aquatic Resources  
**Development and Training of a Local Team for Rapid Response of Events of Coral Bleaching or Disease on the Reefs of Hawaii**  
Greta S Aeby  
Hawaii Institute of Marine Biology  
The goal of the project is to assemble, train and equip a local team for rapid response for events of coral bleaching or disease in Hawaii. A response team is needed to provide assessments regarding the extent and impact of events and recommendations for mitigation.

DLNR-Division of Aquatic Resources  
**IYOR Maui Event: Invasion of the Reef Snatchers**  
Michael P Hamnett  
Social Science Research Institute  
HCRI will be hosting a family outreach event at the Kaahumanu Shopping Center on Maui. The theme is invasion of the Reef Snatchers. The public will learn about Maui's special near shore ecosystems, things affecting the waters, and what they can do to become good stewards of the land and sea.

Hawaii-Dept of Education  
**Providing Certified Speech Pathologist Professionals for the DOE**  
Dorothy Craven  
Division of Speech Pathology and Audiology  
To expand the capacity of the Speech Pathology and Audiology program to provide appropriately educated and trained speech-language pathologists in Hawaii's schools.

Hawaii-Dept of Education  
**P-20 Initiative Memorandum of Agreement with Hawaii Department of Education**  
Linda K Johnsrud  
College of Education  
Facilitate, coordinate, implement and support the P-20 Strategic Plan through regional participation; marketing and communications; data analyses and technical assistance for schools to meet American Diploma Project-related activities; and operational and administrative support work.

Hawaii-Dept of Education  
**UH Masters of Education in Teaching Program**  
Joseph T Zilliox  
Department of Curriculum Studies  
To provide teaching interns for the Department of Education’s Master’s of Education in Teaching Program and in-service professional development and school renewal.
Gifts, Grants, and Contracts for November 2008

Non-Research

Hawaii- Government Agencies

Hawaii-Dept of Education

- **An Evaluation of the Kahuku 21st Century Community Learning Centers Project in 2007-08**
  
  Terry Ann Higa, Curriculum Research and Development Group
  
  The evaluation will study the implementation of 21st Century project activities and outcomes. The data will include student attendance demographics, staff questionnaires, teacher questionnaires about student academic behaviors, Language Arts and Mathematics course grades, and school-based pre-post test scores, School

Hawaii-Dept of Health

- **Kahuku-Laie Nutrition Education Project**
  
  Alethea Kuulei Serna, Institute for Teacher Education
  
  PI will conduct a needs assessment to plan and implement a culturally relevant nutrition education program or curriculum for Native Hawaiian and other Pacific Islander students and their families utilizing "garden to table" strategies at Laie Elementary School. Other ethnic populations will also be included.

Hawaii-State Foundation on Culture & the Arts

- **SCEP Presenting & Touring Outreach**
  
  Timothy Roy Slaughter, Outreach Community Programs
  
  Presentation of cultural and artistic programs in communities statewide.

Hawaii- Health Organizations

Hawaii Medical Service Association

- **Eat Healthy Community Presentations**
  
  Sylvia H Yuen, Center on the Family
  
  Center on the Family Hawaii Foods Website Coordinator will promote healthy eating and Hawaii Medical Service Association's Eat Healthy Campaign by providing healthy recipes from the Hawaii Foods Website www.hawaiifoods.hawaii.edu and a cooking demonstration of 1 to 2 recipes at 3 events - 2 on outer islands. 1 on Oahu.

Kuakini Medical Cntr

- **Reimbursement Agreement - FY2009, Agreement No. SF09-Kuakini-SURG**
  
  Danny M Takanishi, Department of Surgery
  
  Salary, Fringe Benefit & Malpractice reimbursement agreement to provide physician and physician related services for FY 2009.

Queen Emma Clinic

- **Reimbursement Agreement - FY2009, Agreement No. SF09-QEC-PEDS**
  
  Raul C Rudoy, Department of Pediatrics
  
  Salary, Fringe Benefit & Malpractice reimbursement agreement to provide physician and physician related services for FY 2009.
Gifts, Grants, and Contracts for November 2008

Non-Research

Hawaii- Health Organizations

Queen Emma Clinic $359,794

Reimbursement Agreement - FY2009, Agreement No. SF09-QEC-MED
Elizabeth K Tam Department of Medicine
Salary, Fringe Benefit & Malpractice reimbursement agreement to provide physician and physician related services for FY 2009.

Rehabilitation Hospital of the Pacific $-3,356

Salary, Fringe Benefit & Malpractice Insurance Reimbursement Agreement - FY08, Agreement No. SF08-REHAB-MED
Elizabeth K Tam Department of Medicine
Salary, Fringe Benefit & Malpractice reimbursement agreement to provide physician and physician related services for FY2008.

Univ. Clinical, Education & Research Assoc. (UCERA) $4,243

UCERA - Hilo Medical Center
Benjamin W Berg John A. Burns School of Medicine
Implement technical, education, and research activities at the Hilo Medical Center's Simulation Center; provide project management and technical oversight for design and installation of a simulation based education center; provide on-site training.

Univ. Clinical, Education & Research Assoc. (UCERA) $4,243

UCERA - UPMC Fort Sam
Benjamin W Berg John A. Burns School of Medicine
Provide consulting, analysis, and reporting support to the University of Pittsburgh Medical Center's medical simulation training integration research project.

Hawaii- Non-Profit Organizations

Univ of Hawaii Foundation $55

Center of Excellence in Geriatrics
Patricia Blanchette Department of Geriatric Medicine
To attract additional outstanding faculty to academic careers in Geriatric medicine and to facilitate in their career development.

Univ of Hawaii Foundation $55,219

Luce Foundation East Asian Archeology and Early History Initiative
Miriam T Stark Department of Anthropology
This agreement between University of Hawaii Foundation [via Luce Foundation] and University of Hawaii shall be initiated from UHF Account # 125-0030-4 to accommodate salary and fringe benefit expenses for University of Hawaii employee, Tianlong Jiao, whose job description is Assistant Professor (0.25% Asian Archeologist).

Univ of Hawaii Foundation $1,500

International Auto/Biography Association 2008 Conference
Craig Howes College of Languages, Linguistics, and Literature
Gifts, Grants, and Contracts for November 2008

Non-Research

Hawaii- Non-Profit Organizations

Univ of Hawaii Foundation $20,000
MANOA: A Pacific Journal of International Writing
R F Stewart Department of English
Support for production editor's position

Univ of Hawaii Foundation $89,431
Kudo Chair of Law
Aviam Soifer William Richardson School of Law
Faculty Salary and Fringe Benefits - Kudo Chair of Law.

Mainland- Business and Other

Freeman Foundation $196,000
Asian Medical Exchange and Outreach Program
Richard T Kasuya John A. Burns School of Medicine
Fostering development and innovation in medical schools in East Asia through exchange of faculty and students with training in medicine and educational methods.

Mainland- Non-Profit Organizations

Creative Interventions $5,121
Program Evaluation of Creative Interventions, Oakland, CA
Valli Kanuha Department of Sociology
Assist in design and implementation of program evaluation for community-based alternative domestic and sexual violence project in Oakland, CA.

Miscellaneous

Center for Tropical and Subtropical Aquaculture (CTSA) $25,000
Pacific Regional Aquaculture Information Service for Education (PRAISE)-Yr 21
Kristen L Anderson Library
Promote transfer of information within the Pacific aquaculture community including creating business and technical digitized collections, promoting communications, and ongoing information delivery services.

Subcount: 54 Subtotal: $11,211,783
Count: 153 Total: $28,990,381
Funds Received from UH Foundation for 11/01/2008 - 11/30/2008

Non-Research

Hawaii- Non-Profit Organizations

Univ of Hawaii Foundation
"Center of Excellence in Geriatrics"
Blanchette, Patricia Department of Geriatric Medicine
To attract additional outstanding faculty to academic careers in Geriatric medicine and to facilitate in their career development.

Univ of Hawaii Foundation $1,500
"International Auto/Biography Association 2008 Conference"
Howes, Craig College of Languages, Linguistics, and Literature

Univ of Hawaii Foundation $89,431
"Kudo Chair of Law"
Soifer, Aviam William Richardson School of Law
Faculty Salary and Fringe Benefits - Kudo Chair of Law.

Univ of Hawaii Foundation $55,219
"Luce Foundation East Asian Archeology and Early History Initiative"
Stark, Miriam T Department of Anthropology
This agreement between University of Hawaii Foundation [via Luce Foundation] and University of Hawaii shall be initiated from UHF Account # 125-0030-4 to accommodate salary and fringe benefit expenses for University of Hawaii employee, Tianlong Jiao, whose job description is Assistant Professor (0.25% Asian Archeologist).

Univ of Hawaii Foundation $20,000
"MANOA: A Pacific Journal of International Writing"
Stewart, R F Department of English
Support for production editor’s position

Research

Hawaii- Non-Profit Organizations

Univ of Hawaii Foundation $4,370
"Japanese Language Socialization in Homestay Context"
Cook, Haruko Minegishi Department of East Asian Languages and Literatures
Transcriptions of video-recorded conservations between learners of Japanese and their host families.

Univ of Hawaii Foundation $5,000
"The Primal Quest"
Herman, Louis G Chancellor, University of Hawaii at West Oahu
Salary of lecturer replacement for Louis Herman to continue work on his Primal Quest book, manuscript, and multimedia project. Money received from Doran Foundation.
Funds Received from UH Foundation for 11/01/2008 - 11/30/2008

Research

Hawaii- Non-Profit Organizations

Univ of Hawaii Foundation
"Collaborative Software Development Laboratory Fund"
Johnson, Philip M Department of Information and Computer Sciences
Perform research on automated software engineering process and product collection, analysis, interpretation, and dissemination using the Hackystat Framework.

Univ of Hawaii Foundation
"W.M. Keck Research Center in Astrochemistry at UHM"
Kaiser, Ralf Ingo Department of Chemistry
To set up a laboratory in astrochemistry.

Count: 9  Total: $292,175
Extramural Research Awards  
for the Month of  
November 2008  
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>2</td>
<td>$268,103</td>
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<tr>
<td>DHHS-Dept of Health and Human Services</td>
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<td>$3,138,863</td>
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<tr>
<td>DOD-Department of Defense</td>
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<td>DOE-Dept of Energy</td>
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<td>Hawaii- Non-Profit Organizations</td>
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<td>Mainland- Business and Other</td>
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<td>National Science Foundation</td>
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<td>US Colleges and Universities</td>
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Total: 99  $17,778,598  100%
## Extramural Non-Research Awards for the Month of November 2008

### Distribution by Sponsors

<table>
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<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
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<td>DA-Dept of Agriculture</td>
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<tr>
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<td>DOD-Department of Defense</td>
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<td><strong>54</strong></td>
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*Percentages are calculated based on the total of $11,211,783.*
Extramural Research Awards  
Year to Date: 07/01/08 - 11/30/08  
Distribution by Sponsors

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<td>DOC-Dept of Commerce</td>
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<td>DOD-Department of Defense</td>
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<td>Hawaii- Non-Profit Organizations</td>
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<td>Mainland- Associations, Foundations, Societies, etc.</td>
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<td>National Science Foundation</td>
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<td>US Colleges and Universities</td>
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<td><strong>100%</strong></td>
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</tbody>
</table>
Extramural Non-Research Awards  
Year to Date: 07/01/08 - 11/30/08  
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>11</td>
<td>$3,590,553</td>
<td>4.13%</td>
</tr>
<tr>
<td>DHHS-Dept of Health and Human Services</td>
<td>26</td>
<td>$6,675,941</td>
<td>7.67%</td>
</tr>
<tr>
<td>DOC-Dept of Commerce</td>
<td>8</td>
<td>$1,328,725</td>
<td>1.53%</td>
</tr>
<tr>
<td>DOD-Department of Defense</td>
<td>12</td>
<td>$2,912,734</td>
<td>3.35%</td>
</tr>
<tr>
<td>DOI-Dept of Interior</td>
<td>27</td>
<td>$1,238,758</td>
<td>1.42%</td>
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<tr>
<td>ED-Dept of Education</td>
<td>68</td>
<td>$27,744,169</td>
<td>31.90%</td>
</tr>
<tr>
<td>Federal Agencies</td>
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<td>$4,775,747</td>
<td>5.49%</td>
</tr>
<tr>
<td>Foreign</td>
<td>10</td>
<td>$2,748,730</td>
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</tr>
<tr>
<td>Hawaii- Business and Other</td>
<td>29</td>
<td>$3,029,254</td>
<td>3.48%</td>
</tr>
<tr>
<td>Hawaii- Government Agencies</td>
<td>83</td>
<td>$15,331,603</td>
<td>17.63%</td>
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<tr>
<td>Hawaii- Health Organizations</td>
<td>26</td>
<td>$5,750,304</td>
<td>6.61%</td>
</tr>
<tr>
<td>Hawaii- Non-Profit Organizations</td>
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<td>$2,625,509</td>
<td>3.02%</td>
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<tr>
<td>Mainland- Business and Other</td>
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<tr>
<td>Mainland- Health Organizations</td>
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<tr>
<td>Mainland- Non-Profit Organizations</td>
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<tr>
<td>Miscellaneous</td>
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<td>$34,500</td>
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<tr>
<td>National Aeronautics and Space Administration</td>
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<td>$1,898,027</td>
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<td>National Science Foundation</td>
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<tr>
<td>Non-Profit Organizations</td>
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<tr>
<td>US Colleges and Universities</td>
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<td>$1,658,378</td>
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</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>412</strong></td>
<td><strong>$86,985,357</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>