NOTICE OF BOARD OF REGENTS’ MEETING

Date: April 16, 2009

Board business not completed on this day will be taken up on another day and time announced at the conclusion of the meeting.

Time: 9:00 a.m.

Place: University of Hawai‘i – West O‘ahu
Kapolei Hale, Conference Room A
City and County of Honolulu
1000 Ulu‘ohi‘a Street
Kapolei, HI 96707

AGENDA

I. Call Meeting to Order

II. Approval of Meeting Minutes of March 20, 2009

III. Public Comment Period: Individuals may orally testify on items on this agenda either during the Public Comment Period or when the agenda item is taken up by the Board. Please call the Board Office prior to the meeting or notify the Secretary of the Board at the meeting site. Written testimony is also accepted.

IV. Report of the President

V. Items for Board Action:

UH Mānoa
1. Approval to Establish the Hawai‘i Center for AIDS within JABSOM Department of Medicine
2. Approval to Amend BOR Policy, Chapter 6-8(b)(4) on UH Library External Services Program Fee Schedule and to Amend the UH Library Fees Charged for External Services Program
3. Approval of Honorary Degree to Albert Wendt
4. Approval of Honorary Degree to Agnes Cope

UH Hilo
5. Approval of Honorary Degree to Jerry Yang
6. Approval to Amend BOR Policy, Chapter 9-2, Intercollegiate Sports, to Establish an Appropriate Salary Range for the Women’s Basketball Head Coach Position
7. Affirmation of University of Hawai‘i Commitment to the Financing and Implementation of the Mauna Kea Comprehensive Management Plan

UH Community Colleges
8. Bachelor of Applied Science Degree in Applied Engineering Technology – Maui Community College (information only)
9. Approval of a Provisional Certificate of Achievement in Veterinary Assisting – Windward Community College
10. Approval of the Creation and Authorization to the President to Establish a Federal Trade Commission (FTC) Red Flags Rule Identity Theft Prevention Program
11. Approval to Amend BOR Policy, Chapter 9-14, Part II, Related to Appointments and Re-Appointments of Executive Personnel
12. Approval to Establish Systemwide Owner-Controlled Insurance Program for New Construction Projects

Board Business
14. Update by the Public/Private Task Group on the Cancer Research Center of Hawai‘i Research Facility

VI. Acceptance and Approval of Gifts, Grants and Contracts [Attachments A1, A2, A3, A4, A5]

VII. Approval of Personnel Actions [Attachment B]

VIII. Announcements

a. Next Meeting of the Board:
   Date: May 29, 2009
   Place: University of Hawai‘i at Hilo

IX. Executive Session (closed to the public):

Personnel Actions Related to the Following Positions: (To discuss the following personnel matters pursuant to HRS §92-5(a)(2))
   a. Update on Executive Searches, including Presidential Selection

Legal and Real Estate Matters: (To consult with attorneys on powers, immunities, and liabilities pursuant to HRS §92-5(a)(4); To consider negotiations concerning acquisition of public property pursuant to HRS §92-5(a)(3))
   b. Legal Implications Regarding Affirmation of University of Hawai‘i Commitment to the Financing and Implementation of the Mauna Kea Comprehensive Management Plan
   c. Update by the Public/Private Task Group on the Cancer Research Center of Hawai‘i Research Facility
   d. Status Report on Campus Developments (information only)
   e. Potential Litigation Claims

Collective Bargaining: (To discuss authority of persons conducting labor negotiations and conducting negotiations pursuant to HRS §92-5(a)(3))
   f. Collective Bargaining

X. Adjournment
Gifts, Grants, and Contracts for December 2008

The following gifts, grants and contracts received by all campuses during the period December 1, 2008 through December 31, 2008 total $40,950,961. This report is also available for viewing at: http://www.hawaii.edu/ors/Board_Reports.htm

Research

DA-Dept of Agriculture

Center for Tropical and Subtropical Aquaculture (CTSA) $24,000

Improving the Hatchery Output of the Hawaiian Pink Snapper, Pristipomoides filamentosus to Meet Stock Enhancement and Open Ocean Expectations

Clyde S Tamaru Hawaii Institute of Marine Biology

Conduct a series of laboratory scale experiments designed to assess the feeding behavior of opakapaka larvae that will be presented a variety of live food organisms at varying densities. The approach is to define an optimal feeding strategy for hatchery production of opakapaka.

Department of Agriculture $110,309

Survival of Escherichia coli on Soil Particle Surface in Opaeka‘a Watershed of Oahu, Hawaii

Tao Yan Department of Civil and Environmental Engineering

The project seeks to understand how changes in soil properties and conditions by agricultural practices affect the survival of E. coli in soils. The soil parameters to be investigated include pH, organic carbon, N and P availability, and protozoan activities. Both field samplings and lab experiments will be performed.

DHHS-Dept of Health and Human Services

National Heart, Lung, and Blood Institute/NIH/DHHS $903,615

Role of Oxidative Stress and Inflammation in Cardiovascular Risk

Cecilia M Shikuma Department of Medicine

This project will study the increased CV risk in the HIV population on HAART and statins which may have efficacy in reducing inflammation.

National Institutes of Health/DHHS $183,952

Institute for Biogenesis Research: COBRE

William S Ward Dept Anatomy, Biochemistry, Physiology and Reproductive Biology

Develop the existing Institute for Biogenesis Research into a multi-disciplinary research center for reproductive biology research.

DOD-Department of Defense

Air Force Office of Scientific Research $224,946

Low Light Adaptive Contraction in Support of the Space Situational Awareness Mission

Mark R Chun Institute for Astronomy

Conduct research to address fundamental issues outlined in the solicitation to improve Air Force faint object capabilities.

Air Force Office of Scientific Research $586,663

Coherence-based Modeling of Cultural Change and Political Violence

Sunki Chai Department of Sociology

Building simulation environment that will allow policy-makers to analyze long-term effects of various policy interventions on configurations of culture (ideologies, values, and beliefs) in different parts of the world, and also predict the effect of cultural change, in interaction with economic and political structural conditions, upon violent collective action.
Gifts, Grants, and Contracts for December 2008

Research

DOD-Department of Defense

Department of Defense

Managing Partner of Pacific Disaster Center
James R Gaines, 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.

Department of the Air Force
Operations and Management of the Maui Supercomputing Center
David K Lassner, Information Technology Services
Cost reimbursement award term contract for research, development, operations and management of the Maui Supercomputing Center.

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Department of the Air Force
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Department of the Navy
Sea-salt Aerosol in Hawaii and the Influence of Large Organized Structures (LOS) or Rolls on Fluxes and Visibility
Antony D Clarke, Department of Oceanography
Gifts, Grants, and Contracts for December 2008

Research

DOD-Department of Defense

Investigate the marine aerosol properties including their evolution in the boundary layer and coastal regions in Hawaii.

Department of the Navy
Low Cost High Performance Phased Array Antennas with Beam Steering Capabilities Using an Integrated CTS and Ferroelectric Materials Technologies
Magdy F. Iskander Hawaii Center for Advanced Communications
The proposed project involves the design, fabrication, and testing of an innovative low cost phased antenna arrays with beam steering capabilities for use in UAV to UAV and UAV to surface communications. The requested funds will be used to support graduate students working on the project.

Department of the Navy
Acoustic Seaglider: Planning for the Philippine Sea Experiment 2010 - 2011
Bruce M Howe Department of Ocean and Resources Engineering
Planning for the use of acoustic Seagliders as mobile tomography receivers in the Philippine Sea Experiment will be undertaken.

Office of Naval Research
Remote Monitoring of Dolphins and Whales in the High Naval Activity Areas in Hawaiian Waters
Whitlow W L Au Hawaii Institute of Marine Biology
Use remote ecological acoustic recorders (EARs) to determine the presence of dolphins and whale in high naval activity area of the main Hawaiian Islands.

Office of Naval Research
Long-Range Lightning Detection over the Western Pacific Ocean
Steven Businger Department of Meteorology
The goals of this proposal are: (I) to expand PacNet long-range lightning detection coverage to the Western Pacific Ocean, (ii) to calibrate the extended network (Cummins 2006), (iii) establish relationships between lightning rates and rainfall rates, (iv) investigate the morphology of lightning in storms systems, and (v) assimilate the data into numerical models.

Office of Naval Research
Multiple Approaches for Testing Novel Coatings in the Laboratory and in Pearl Harbor, Hawaii. Investigations at the Microbial and Macrofouler Levels
Michael G Hadfield Pacific Biosciences Research Center
Testing of fouling organisms on experimental marine coatings.

DOE-Dept of Energy

Department of Energy
Research on Distributed Electricity Systems Resources
Terrance Surles Hawaii Natural Energy Institute
Managing distribution system resources for improved service quality and reliability, transmission congestion relief, and grid support functions.
Gifts, Grants, and Contracts for December 2008

Research

DOE-Dept of Energy

Department of Energy

Hawaii Distributed Energy Resource Technologies for Energy Security - Phase 3

Richard E Rocheleau Hawaii Natural Energy Institute

This phase of the project will assess the electric and transportation infrastructure for the islands of Oahu and Kauai, identify sites for electric microgrid studies, test and evaluate distributed generation and storage technologies, and address policy issues to accelerate implementation of renewable technologies.

DOI-Dept of Interior

U.S. Geological Survey/Department of the Interior

National Assessment: Historical Shoreline Changes and Associated Coastal Land Loss Along Sandy Shorelines of the Islands Oahu, Maui, and Kauai

Charles H Fletcher Department of Geology and Geophysics

Analyze statistical techniques for determining long-term shoreline change rates and work with the national assessment co-op in statistical tool development for application to DSAS.

Federal Agencies

USDA Forest Service

The Invasive Species/Wildfire Cycle: Fuel Loads, Microclimate, Fire Potential, and Fire Behavior in Dominant Grasslands and Adjacent Forests

Creighton Litton Department of Natural Resources and Environmental Management

This research will directly address knowledge gaps in tropical fire ecology by sampling fuels and microclimate regularly across a wide range of sites on Oahu. Integration of this baseline information into existing management scenarios will be crucial for validating and implementing the real-time fire potential and behavior models currently in use in Hawaii.

Foreign

BAE Systems

Data Analysis and Algorithm Support for BAE Systems

Paul Lucey Hawaii Institute of Geophysics and Planetology

UH Personnel will analyze data provided by BAE Systems and develop scientific algorithms to improve usability of scientific data provided by BAE Systems.

St. Thomas University (STU)

Influence of Demographic and Economic Changes on the Development of Private Universities in the Osaka and Hyogo Prefectures

Peter A.J. Englert Hawaii Institute of Geophysics and Planetology

The influence of the falling number of eligible students and the changing economic basis in the Hyogo and Osaka prefectures of Japan on the development of private higher education institutions will be investigated.
Gifts, Grants, and Contracts for December 2008

Research

Hawaii- Business and Other

Oceanic Institute-Ctr for Trop & Subtrop Aqua  $12,839
Adapting Aquaponics Systems for Use in the American Pacific Islands
Kent D Kobayashi  Department of Tropical Plant and Soil Sciences
We believe that the co-culture of fish and plants has certain desirable characteristics for Pacific island farmers. We wish to adapt current techniques to the Pacific islands by understanding the underlying chemistry of the system.

Pukoa Scientific LLC  $10,000
Acoustic Fiber Sensor Array Algorithms
John S Allen  Department of Mechanical Engineering
Develop algorithms for detection, classification, and tracking of closed circuit drivers in a harbor environment.

Hawaii- Government Agencies

City and County of Honolulu  $458,359
Biological and Sediment Monitoring Program with Supplemental Studies
James E Moncur  Water Resources Research Center
The fundamental objective of the program is to assess the chronic effects of ocean outfall discharges of treated sewage on the marine communities and sediments.

DLNR-Division of Aquatic Resources  $49,768
Integrated Ecosystem Management: Baseline Analysis and Survey Development
Celia M Smith  Department of Botany
Specific goals of this proposal are to provide additional support for DAR to maximize success of the Kahekili Herbivore Enhancement Area. Funds will be used to for a thorough baseline analysis of the reef and nearby control sites, to establish detailed survey activities and protocols to measure the effectiveness of the proposed FRA, and develop a volunteer program.

DLNR-Division of Aquatic Resources  $29,719
Black Coral Density and Uncertain Taxonomy: What are the implications for the black coral fishery?
John C Wiltshire  Hawaii Undersea Research Laboratory
These dives will allow resource manager to measure black coral species densities with a better understanding of species identification.

DLNR-Division of Forestry & Wildlife  $47,498
Human Impact Evaluation, Biological Inventory and Assessment, and Information Synthesis of the Ahihi Kinau, Maui Area Reserve
Paul L Jokiel  Hawaii Institute of Marine Biology
This project will conduct and compare baseline surveys in 3 management regimes: closed and open areas within the NAR, and areas outside the NAR boundaries of Ahihi Kinau Natural Area Reserve, Maui. We will design methods to detect changes in urchin and seastar populations, fish density and behavior, and benthic cover and create a baseline for impacts to near-shore areas.

DLNR-Division of Forestry & Wildlife  $803,816
Natural Area Reserves Management
David C Duffy  Department of Botany
Research and manage endangered species in their protected habitats in the state's natural area reserves.
Gifts, Grants, and Contracts for December 2008

Research

Hawaii-Government Agencies

Hawaii-Dept of Health

**Hawaii Tumor Registry**
Marc T Goodman  Cancer Research Center
Hawaii Tumor Registry will maintain a state cancer registry for identification and follow up of all cancer diagnosed in Hawaii as sponsored by the NCI Surveillance Epidemiology and End Results (SEER) program.

Hawaii-Dept of Health

**Data Analysis of Hawaii's Uninsured Population**
Gerard G Russo  Department of Economics
Funds will be used to collect data from survey based estimated of number and characteristics of the uninsured population uninsured by age, gender, federal poverty level, race/ethnicity, employment status and country for calendar years 2005, 2006, and 2007 using specified data sources which will facilitate informed decision-making in the near future.

Hawaii-Dept of Health

**Three Site Evaluation of Cultural Projects Part II**
Hamilton I. McCubbin  School of Social Work
Conduct evaluations of three cultural projects to determine impact and basis for improvement, run data analysis, report implications and recommendations of the study, and publish findings.

Hawaii-Dept of Health

**Hair Analysis for Mercury and Arsenic Exposure**
Qingxiao Li  Department of Molecular Biosciences and Bioengineering
To assist the Hazard Evaluation and Emergency Response Office, Hawaii Department of Health in establishing a biomonitoring project to assess exposure to hazardous substances in the environment. Mercury and arsenic will be measured in hair collected from Women, Infant and Child participants.

Hawaii-Dept of Health

**Evaluation of the Healthy Hawaii Initiative Nutrition Education Network (FSNE 2)**
Katie Heinrich  Office of Public Health Studies
Improve existing data resources and surveillance matrix, and identify, track and evaluate nutrition behaviors for Hawaii's food stamp eligible population. Provide outcome and process evaluation for FSNE programs, including quarterly progress evaluation reports, and provide technical assistance for evaluation.

Hawaii-Dept of Human Services

**Juvenile Justice System Crime Analysis**
Meripa T. Godinet  School of Social Work
Perform secondary data analysis of the entire Juvenile Justice Systems data.

Hawaii-Dept of Land & Natural Resources

**Growth, Mortality and Reproduction of Kole, Ctenochaetus Strigosus**
Ross C Langston  Chancellor, Windward Community College
This study will examine the growth, reproduction, and mortality of a Hawaiian reef fish, Ctenochaetus strigosus.
Gifts, Grants, and Contracts for December 2008

Research

Hawaii- Government Agencies

Hawaii-Dept of Land & Natural Resources  $90,179
Threatened and Endangered Species Recovery: Kauai
David C Duffy  Department of Botany
Conduct applied field research to promote recovery of Kauai’s threatened and endangered plants.

Hawaii-Dept of Land & Natural Resources  $310,373
Three Mountain Alliance Planning and Management
Clifford W Morden  Department of Botany
Coordinate the watershed protection plan of the Three Mountain Alliance and address priority objectives of the management plan.

Hawaii-Dept of Land & Natural Resources  $577,020
Detection & Control of Invasive Species in Maui County
David C Duffy  Department of Botany
Implement a county-wide strategy for early detection and control of invasive species in Maui county.

Hawaii-Dept of Land & Natural Resources  $58,500
Proposal for the Implementation of a Recreational Impacts to Reefs Local Action Strategy Coordinator
David C Duffy  Department of Botany
Facilitate the implementation of Hawaii’s Recreational Impacts to Reefs and Lack of Awareness Local Action Strategies.

Hawaii-Dept of Land & Natural Resources  $462,452
Detection and Control of Invasive Species on the Island of Kaua’i
David C Duffy  Department of Botany
Control and eradicate invasive species on Kauai, with an emphasis on early detection and rapid response.

Hawaii-Dept of Land & Natural Resources  $20,000
Assessment of Acacia Koa Forest cover and Productivity Across Environmental Gradients in Hawaii Using Fine Resolution Remote Sensing
Travis W Idol  Department of Natural Resources and Environmental Management
Fine-resolution satellite images will be used to assess Acacia koa forest cover, productivity, and health in Kokee State Park and surrounding areas on the Island of Kauai.

Hawaii-Dept of Land & Natural Resources  $57,900
APHIS/WS Avian Influenza Surveillance Implementation Plan
David C Duffy  Department of Botany
Work collaboratively with multiple partners to sample bird populations for avian influenza.

Hawaii-Dept of Land & Natural Resources  $40,500
Quantifying Causes of Coral Decline Around Maui Island
Paul L Jokiel  Hawaii Institute of Marine Biology
Gifts, Grants, and Contracts for December 2008

Research

Hawaii- Government Agencies

This project will focus on identifying and quantifying the relative importance of a range of factors contributing to decline of Maui reefs so that natural resource managers in Hawaii will have improved capacity to develop appropriately targeted management strategies.

Hawaii-Dept of Land & Natural Resources $34,000
Mauna Kea Watershed Planning and Management
Clifford W Morden Department of Botany
Coordinate the creation of a Mauna Kea Watershed Partnership, including the establishment of a partnership of landowners and development of a conservation plan.

Hawaii-Dept of Land & Natural Resources $500,552
Detection and Control of Invasive Species on Oahu
David C Duffy Department of Botany
Implement an effective invasive species prevention and control program on Oahu.

Hawaii-Dept of Land & Natural Resources $227,514
Ko'olau Mountains Watershed Partnership Management Plan Implementation, FY 09
Clifford W Morden Department of Botany
Research and manage watershed conservation on the Koolau Mountains on Oahu.

Hawaii-Dept of Land & Natural Resources $248,550
State West Maui Mountains Watershed Partnership
Clifford W Morden Department of Botany
Conduct adaptive resource management and forest restoration in West Maui Mountains watershed.

Hawaii-Dept of Land & Natural Resources $135,000
Maui District Endangered Species Research
David C Duffy Department of Botany
Research and monitor endangered seabirds on Lanai and Maui.

Hawaii-Dept of Land & Natural Resources $34,000
Waianae Mountains Planning and Management
Clifford W Morden Department of Botany
Coordinate the creation of a Waianae watershed partnership, including the establishment of a partnership of landowners and development of a conservation plan.

Hawaii-Dept of Land & Natural Resources $4,485
Black Coral Density and Uncertain Taxonomy: What are the Implication for the Black Coral Fishery?
John C Wiltshire Hawaii Undersea Research Laboratory
These dives will allow resource manager to measure black coral species densities with a better understanding of species identification.
Gifts, Grants, and Contracts for December 2008

Research

Hawaii- Government Agencies

Hawaii-Dept of Land & Natural Resources
Arthropod Prey Availability FY 09
Sharon Ziegler-Chong Pacific Aquaculture-UHH
$15,000

Hawaii-Dept of Land & Natural Resources
Watershed Protection in East Maui
Clifford W Morden Department of Botany
Conduct adaptive resource management of the East Maui Watershed.
$315,837

Hawaii-Dept of Land & Natural Resources
USGS Avian Influenza Surveillance Implementation Plan
David C Duffy Department of Botany
Work collaboratively with multiple partners to sample bird populations for avian influenza.
$22,500

Hawaii-Dept of Land & Natural Resources
The CGAPS Project: FY 08
David C Duffy Department of Botany
Continue coordination of Coordinating Group on Alien Pest Species projects, specifically education and public outreach.
$40,000

Hawaii-Dept of Land & Natural Resources
Size-Dependent and Age-Based Female Fecundity and Reproductive Output for Three Hawaiian Goatfish Species (Family Mullidae)
Kathleen Sabina Cole Department of Zoology
This project is to determine size-dependent and age-based female fecundity and reproductive output for three Hawaiian goatfish species, the yellowstripe goatfish, the yellowfin goatfish and the whitesaddle goatfish, in order to aid the development of successful management and conservation policies designed to protect existing populations of these three species.
$29,990

Hawaii-Dept of Transportation
State of Hawaii Vehicle Occupant Protection Studies
Karl E Kim Department of Urban and Regional Planning
Observational studies of seat belt use, child safety restraints, truck beds and helmet use. Also, use of hand held cellular phone by drivers.
$80,000

Hawaii- Non-Profit Organizations

HCF-G.F. Straub Trust
WNV NS4B as a Novel Target for Generating a Live Attenuated WNV Vaccine
Vivek R Nerurkar Dept of Trop Med, Medical Microbiology and Pharmacology
To identify West Nile Virus NS4B region responsible for the formation of the membranous web and to create infectious virus with impaired replication which does not inhibit IN alpha/beta pathway.
$50,000
Gifts, Grants, and Contracts for December 2008

Research

Hawaii- Non-Profit Organizations

HCF-Geist Foundation  
**R-Ras Regulation of Vascular Permeability**  
Michelle L Matter  Cancer Research Center  
We will investigate the role of R-Ras in regulating integrin activity in the vasculature.

HCF-Medical Research Funds  
**Contribution of Sperm Nucleus to Paternal DNA Replication**  
William S Ward  Dept Anatomy, Biochemistry, Physiology and Reproductive Biol  
We will test our hypothesis that the sperm cell provides origin recognition sites for DNA replication in the one cell embryo.

HCF-Medical Research Funds  
**Functional Investigations of Early Neurogenesis**  
Elaine C Seaver  Pacific Biosciences Research Center  
The project will characterize early stages of nervous system development in the annelid Capitella sp. I.

HCF-Medical Research Funds  
**A Glucose-Regulated Selenoprotein in Alzheimer's and Type II Diabetes**  
Frederick P Bellinger  Department of Cell and Molecular Biology  
Oxidative stress causes tissue damage in many disorders including Alzheimer's and type II diabetes. Selenoproteins may help prevent neurodegeneration in the early stages of certain diseases. The overall goal of this study is to determine if a glucose-regulated selenoprotein is associated with plaques of Alzheimer's disease.

HCF-Medical Research Funds  
**Morphogenetic Potential of the Gene Six2 in Renal Nephron Regeneration.**  
Jack Somponpun  Dept Anatomy, Biochemistry, Physiology and Reproductive Biol  
The purpose of this research is to determine whether kidney nephrons can be regenerated following injury.

HCF-Medical Research Funds  
**Tuft, A New Mouse Model for Apoptotic Signaling Pathways in Neural Tube Defects**  
Keith S.K. Fong  John A. Burns School of Medicine  
This research is aimed at mapping a gene that causes a neural tube defect (brain tumor) in a mouse model.

Hawaiian Silversword Foundation  
**Lupea Habitat Restoration: Phase 1**  
Clifford W Morden  Department of Botany  
Restore and protect native mamane forest in North Kona to support habitat for the endangered palila and other native bird species.

University of Hawaii Foundation  
**Pew Marine Conservation Fellowship**  
Robert H Richmond  Pacific Biosciences Research Center  
Conduct research in coral bio-marker development and applications through field and laboratory studies in Guam, Palau and Hawaii. This bio marker research will provide a valuable tool for coral reef conservation efforts via data that will demonstrate cause and effect and the underlying mechanism for damage to corals.
Gifts, Grants, and Contracts for December 2008

Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation
Real Time, Non-Invasive Lung Water Monitoring
Claude Le Saux
Dept Anatomy, Biochemistry, Physiology and Reproductive Biol
To develop a fundamental understanding of the microwave method for measuring changes in lung water content by pursuing both the clinical/physiological and engineering advances of this technology with was originally by the Hawaii Center for Advanced Communications - Engineering group.

Mainland- Business and Other

AmericaView
State View Program Development and Support for the State of Hawaii
Robert Wright
Hawaii Institute of Geophysics and Planetology
Promoting the use of satellite remote sensing in the State of Hawaii through education, research, outreach and technology transfer; archive satellite data relevant to the State of Hawaii.

Battelle Columbus Division
Pacific Disaster Center Geospatial Data Expertise for Disaster Management Exercises
James R Gaines
Vice President for Research
The Pacific Disaster Center Geospatial Data Expertise for Disaster Management Exercises

PPD Development, LP
AVX-303: A Phase 3, Extension Study of the Safety of Apricitabine in Treatment-Experienced HIV-1 Infected Patients Who Have Completed Protocol AVX-301
Cecilia M Shikuma
Department of Medicine
To test experimental HIV drug therapy on HIV-infected individuals.

Smithsonian Astrophysical Observatory
The Non-Potential Structure of Active Regions
Jing Li
Institute for Astronomy
Data taken at the Mees Solar Observatory on the Imaging Vector Magnetograph will be reduced by the PI and shared with the other project members to refine the modeling methods to construct Nonlinear Force Free Fields (NLFFF). This in turn will improve the understanding of the solar magnetic field.

Mainland- Health Organizations

Children's Hospital Los Angeles
Kids Seek Cure for Kids
Vivek R Nerurkar
Dept of Trop Med, Medical Microbiology and Pharmacology
The goal of this project is to train Chihui Yuan in conducting research in the John A. Burns School of Medicine.

Riverside Research Institute - NY
Acoustic Contrast Agents for Use with High-Frequency Ultrasound
John S Allen
Department of Mechanical Engineering
High frequency ultrasound with contrast agents offers potential for improved imaging and perfusion measurements
## Gifts, Grants, and Contracts for December 2008

### Research

**Mainland- Non-Profit Organizations**

<table>
<thead>
<tr>
<th>Organization</th>
<th>Support</th>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cades Fund</td>
<td>Support of Biosciences Research and Training at the Bekesy Laboratory</td>
<td>$40,000</td>
<td>Support of training and basic biomedical research in molecular and cellular neurophysiology.</td>
</tr>
<tr>
<td>Daniel K Hartline</td>
<td>Pacific Biosciences Research Center</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Employee Ownership Foundation</td>
<td>Impact of ESOPS on Hawaii Firm Productivity and Employee Satisfaction</td>
<td>$15,000</td>
<td>Conduct a review of the relevant professional and academic research regarding the use of Employee Stock Ownership Plans in the U.S. and Abroad. The field study component will include a qualitative examination of two in-depth case studies of Hawaii ESPO firms. A Survey will collect data from ESOP and non-ESOP firms in Hawaii.</td>
</tr>
<tr>
<td>Shirley June Daniel</td>
<td>Shidler College of Business</td>
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<tr>
<td>U.S. - Japan Cooperative Program in High Energy Physics</td>
<td>JFY 2008 US/Japan Program for Cooperation in High Energy Physics for High Luminosity R&amp;D</td>
<td>$5,190</td>
<td>Fabrication of a high speed STURM chip from MOSIS to be used in the accelerator beam diagnostics at the accelerator at KEK, Tsukuba, Japan.</td>
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<tr>
<td>Gary S Varner</td>
<td>Department of Physics and Astronomy</td>
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### Miscellaneous

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<thead>
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</tr>
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<tbody>
<tr>
<td>'Ohu 'Ohu Ko'olau, Inc.</td>
<td>Ko`olau Mountains Watershed Partnership Incipient Ungulate Control</td>
<td>$43,349</td>
<td>Prevent the establishment of feral goats in the upper portions of the Ko`olau Mountains on Oahu.</td>
</tr>
<tr>
<td>Clifford W Morden</td>
<td>Department of Botany</td>
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</tr>
<tr>
<td>'Ohu 'Ohu Ko'olau, Inc.</td>
<td>Oahu Forest National Wildlife Refuge - Eradication of Incipient Populations of Invasive Plants</td>
<td>$59,542</td>
<td>Remove incipient weeds from Oahu Forest National Wildlife Refuge and collect GIS data on their locations.</td>
</tr>
<tr>
<td>Clifford W Morden</td>
<td>Department of Botany</td>
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</table>

### National Aeronautics and Space Administration

<table>
<thead>
<tr>
<th>Organization</th>
<th>Support</th>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Aeronautics &amp; Space Administration</td>
<td>Combined Raman, Fluorescence, and Lidar Multi-Sensors (RFLMS) for Remote Mineralogical, Biological and Planetary Atmospheric Exploration</td>
<td>$80,000</td>
<td>This project is focused on developing a combined Raman and laser-induced native fluorescence spectrometer and lidar instrument for robotic and lander based exploration of Mars.</td>
</tr>
<tr>
<td>Shiv K Sharma</td>
<td>Hawaii Institute of Geophysics and Planetology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>National Aeronautics &amp; Space Administration</td>
<td>Characterization of Hg:Cd:Te Avalanche Photo Diode Arrays: a Path to an Infrared Photon Counting Array</td>
<td>$299,806</td>
<td>The objective of this proposed research is to completely bypass the voltage read noise in conventional charge integrating arrays by demonstrating noiseless infrared photon counting detector arrays limited only by natural background. We propose to demonstrate this for the near infrared utilizing existing, space qualified components.</td>
</tr>
<tr>
<td>Donald N Hall</td>
<td>Institute for Astronomy</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Gifts, Grants, and Contracts for December 2008

Research

National Aeronautics and Space Administration

National Aeronautics & Space Administration $24,946
Morphometry of Martian Impact Crater Ejecta Deposits and its Implication
Joseph M. Boyce Hawaii Institute of Geophysics and Planetology
Proposal to use the shapes of impact crater ejecta deposits on Mars to infer the mechanisms for fluidized ejecta emplacement.

National Aeronautics & Space Administration $76,435
Using the Ion Microprobe to Determine the Abundances and Isotopic Composition of Solar Wind Elements in the Genesis Collectors
Gary Robert Huss Hawaii Institute of Geophysics and Planetology
I propose to study the solar wind collected by NASA's Genesis Mission by using the Cameca ims 1280 ion microprobe to measure the solar wind profiles in the Genesis collectors.

National Aeronautics & Space Administration $230,000
Measurement and Analysis of Aerosol Physio-chemistry and Optical Properties in Support of ARCTAS
Antony D Clarke Department of Oceanography
To support NASA's mission objectives on board the proposed aircraft P-3b, primarily airborne instrumentation.

National Aeronautics & Space Administration $105,000
Support Services, Maintenance and Calibration of the TLRS-4 System
Jeffrey R. Kuhn Institute for Astronomy
To continue the history of Haleakala as one of two fixed, well-defined geometric reference points in NASA's tectonic motion data solution.

National Science Foundation

National Science Foundation $131,761
The Application of Global Positioning System (GPS) Sondes to Hurricane Intensity Evolution
Gary M Barnes Department of Meteorology
Use the Global Positioning Sondes deployed from research aircraft in several hurricanes to understand intensity evolution and tornadogenesis within the storm.

National Science Foundation $130,000
Functional Approaches to the Origin of the Bilaterally Symmetrical Body Plan in Animal Development
Mark Q. Martindale Pacific Biosciences Research Center
To document anatomical features of bilateral symmetry in the nervous system of "simple" animals (sea anemones) and to investigate whether the molecular basis for bilaterality is the same in this group as it is in "higher" animals.

National Science Foundation $156,750
Collaborative Research: The Internal Tide and Mixing in Monterey and Ascension Canyons
Glenn S Carter Department of Oceanography
A collaborative proposal between UH and APL/UW to model and conduct intensive observations in Monterey Canyon, CA and nearby Ascension Canyon. The focus is on how internal tides propagate in canyons and are steered and focused by the topography.
Gifts, Grants, and Contracts for December 2008

Research

National Science Foundation

National Science Foundation
Collaborative Research: The Role of Viscosity Heterogeneity in Plate-Mantle Coupling
Clinton P. Conrad Department of Geology and Geophysics
Lithospheric stresses, which lead to mountain building and seismicity, are partially controlled by stresses that mantle flow exerts on the base of tectonic plates. We propose to predict these stresses using global mantle flow models, and to constrain these models using observed plate motions and observations of lithospheric deformation and stress.

US Colleges and Universities

California Institute of Technology
Detecting Transient Surface Features via Dynamic Landmarking
Norbert Schorghofer Institute for Astronomy
Dr. Norbert Schorghofer will perform analysis on Martian dark slope streaks. He will also travel to JPL to coordinate research.

Mississippi State University
Application of Multi Satellite Radiance Products to NRL NAVDAS
Tim Li Department of Meteorology
To use the community radiative transfer model (CRTM) to assimilate the radiance products from satellite sensors, SSMIS and AIRS.

Oregon Health Sciences University
A Study of Continuous Oral Contraceptives and Doxycycline
Bliss Kaneshiro Department of Obstetrics, Gynecology, and Women's Health
This study will help us examine the study drug, doxycycline and access whether the drug can decrease the amount of breakthrough bleeding that happens when a woman starts taking continuous hormonal birth control.

University of Arizona
Interpretation of Mars Odyssey GRS Data
G. Jeffrey Taylor Hawaii Institute of Geophysics and Planetology
Interpret data from Mars Odyssey Gamma-Ray Spectrometer to understand the formation of the Martian crust and the nature of weathering conditions on it.

University of California, Santa Cruz
The Roms Ias Data Assimilation and Prediction System: Quantifying Uncertainty
Brian Powell Department of Oceanography
Refine ocean model data assimilation algorithms to determine how observations assist the model, determine the final error of the model, and how to combine different models for more accurate estimations of the ocean.

University of Mississippi
Remote Infrasonic Monitoring of Natural Hazards (RIM)
Milton A Garces Hawaii Institute of Geophysics and Planetology
Develop infrasound technology to support NOAA monitoring in the US for severe weather, high surf, and tsunamis.
Gifts, Grants, and Contracts for December 2008

Research

US Colleges and Universities

Yale University $135,242
Alcohol Associated Outcomes Among HIV+/- Aging Veterans
Mariana Gerschenson John A. Burns School of Medicine
Developing mitochondrial and cytoplasmic aspartate aminotransferase antibodies.

Subcount: 98 Subtotal: $35,071,523

Non-Research

DA-Dept of Agriculture

Department of Agriculture $297,224
Extension Outreach and Assistance in Improved Pasture and Livestock Management Practices for Pacific Islanders
Mark S Thorne Department of Human Nutrition, Food and Animal Sciences
The purpose of this proposed project is to provide extension outreach and assistance to Pacific Islanders in Guam and the Commonwealth of the Northern Mariana Islands in grazing and livestock management practices, pasture improvement techniques, and integrated weed management methods.

DHHS-Dept of Health and Human Services

Department of Health & Human Services $201,250
Minority Health Youth Empowerment Grant Program
Errol Yudko Social Sciences-UHH - Division Office

National Cancer Institute/NIH/DHHS $345,555
Cancer Information Service
Carl-Wilhelm Vogel Cancer Research Center
The National Cancer Institute's cancer Information Service is a national resource for information and education about cancer, providing the latest and most accurate cancer information to patients and their families, the public, and health professionals. Hawaii's Partnership Program focuses on Native Hawaiians and other medically underserved populations in the US Pacific.

DOC-Dept of Commerce

DOC-National Marine Fisheries Service $9,980
Create an Educational Interpretive Graphic Panel on the Hawaiian Monk Seal at the Waikiki Aquarium
Andrew Rossiter Waikiki Aquarium
The Waikiki Aquarium is creating an educational graphic panel about the Hawaiian monk seal. The graphic panel will help to bring about public awareness of the threats facing Hawaiian monk seals. This federal and state partnership is an essential step in helping to protect the Hawaiian monk seal.
Gifts, Grants, and Contracts for December 2008

Non-Research

DOI-Dept of Interior

Department of Interior

University of Hawaii Participation in Vietnam PEPFAR
Cecilia M Shikuma Department of Medicine
Train Vietnamese military physicians in medical management of HIV infected patients, assist in development of in-country HIV/AIDS treatment and care.

Foreign

University of Queensland

Global Environmental Fund PhD.
Ruth D Gates Hawaii Institute of Marine Biology
This supplement will be used to support travel and miscellaneous costs incurred by the PI to attend meetings associated with the project.

Hawaii- Business and Other

Alu Like

The Po'okela Project Molokai - Maui Community College - Molokai Education Center
Clyde M Sakamoto Chancellor, Maui Community College
The Po'okela Project Molokai intends to serve 60 native Hawaiian students on Molokai in PY 2007-2009. Students will be assisted through a culturally based recruitment and retention model that provides academic and vocational activities to prepare students for today's high skills, high wage, and high demand occupations locally and globally.

Alu Like

Po'okela Project Maui Community college
Clyde M Sakamoto Chancellor, Maui Community College
Project to serve 80 Hawaiian students through cohort and summer bridge programs that focus on personal, educational, career and technical development aimed at improving student recruitment and retention.

Alu Like

Ho'oulu Project
Michael Tagawa Chancellor, Leeward Community College
To improve career and technical education services for Hawaiian natives.

Hawaii Agricultural Development Corporation

Logistics Arrangement for a Cattlemen's Trip to Australia to Learn About Leucaena
James R Hollyer Department of Plant and Environmental Protection Sciences
Coordinate the Hawaii logistics for Hawaii ranchers and their guests to travel to and partake in a 10-day educational trip to Australia.

Hawaiian Electric Co Inc

Data Acquisition System Troubleshooting, Repair, Monitoring, and Maintenance of Photovoltaic Systems* for HECO SunPower for Schools Program
Eric L Miller Hawaii Natural Energy Institute
The Hawaii Natural Energy Institute (HNEI) at the University of Hawaii at Manoa (UH) will perform consulting work for the Hawaiian Electric Company (HECO), providing recommendations for repairing, maintaining and operation data acquisition systems at HECO-specified photovoltaic installation sites in the "SunPower for Schools" program.
# Gifts, Grants, and Contracts for December 2008

## Non-Research

### Hawaii- Business and Other

<table>
<thead>
<tr>
<th>Organization</th>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
</table>
| Kamehameha Schools | $359,720 | Hookulaiwi: Aha Hoonaauao Oiwi  
| | | Department of Curriculum Studies  
| Hookulaiwi aims to offer original insights into Hawaiian knowledge and practices, as well as insights on how this information can be utilized to form the pedagogical foundations to K-12 classrooms with high numbers of Hawaiian children and graduate level education. This request is to primarily support preservice and inservice teachers. |
| Kolohala Holdings LLP | $385,000 | Renewable Hydrogen Program Management Services  
| | | Hawaii Natural Energy Institute  
| Terrance Surles | | Provide services in support of the Hawaii Renewable Hydrogen Program established under Section 196-10 of the Hawaii Revised Statutes specifically drafting a 2009 to 2010 Program Plan, a 2010 to 2020 Program Plan, provide policy recommendations, conduct quarterly progress meetings, and submit quarterly reports. |
| Moana Pa’akai Inc. | $1,000 | Dental Packets for all of Maui’s Babies  
| | | Nancy K Johnson  
| | | Chancellor, Maui Community College  
| | | Dental assisting students will assemble and distribute Baby Dental packets to newborns at Maui Memorial Medical Center. |
| Queen Emma Land Company | $491,791 | Reimbursement Agreement - FY2009, Agreement No. SF09-QMC-QELC-MED  
| | | Elizabeth K Tam  
| | | Department of Medicine  
| | | Salary, Fringe Benefit & Malpractice reimbursement agreement to provide physician and physician related services for FY 2009. |

### Hawaii- Government Agencies

<table>
<thead>
<tr>
<th>Organization</th>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
</table>
| DLNR-Division of Forestry & Wildlife | $75,000 | Wao Kele o Puna Forest Reserve Coordinator  
| | | David C Duffy  
| | | Department of Botany  
| | | Coordinate the conservation management and protection of the newly established Wao Kele o Puna Forest Reserve |
| Hawaii-Civil Defense Division | $120,000 | Disaster Public Awareness Campaign for Hawaii  
| | | Cheryl Anderson  
| | | Social Science Research Institute  
| | | The project is designed to improve hazard mitigation and risk assessment public education and awareness in the State of Hawaii. Activities include improving the mitigation website, providing links to decision-support tools, and developing materials and products that provide information that can be used by the public to reduce hazard risks. |
| Hawaii-Dept of Accounting & General Services | $47,001 | Hawaii Small Business Preference Regulations Training  
| | | Danielle Conway-Jones  
| | | William Richardson School of Law  
| | | The University of Hawaii Procurement Institute proposes to design curriculum, select qualified trainers, and teach a course titled “Successful Implementation of Small Business Preference Regulations: Policy, Practices, and Performance.” |
Gifts, Grants, and Contracts for December 2008

Non-Research

Hawaii- Government Agencies

Hawaii-Dept of Education

Teacher Training through Hands-On and Excursion-Based Activities in Aerospace Science: A Mathematics and Science Partnership between the Windward Dis
Joseph E Ciotti College of Natural Sciences
Provide series of in-service teacher training workshops in aerospace science for Windward District K-12 teachers. Workshops include: two preparatory half-day, a 7-day full-day and one follow-up full day session. On-campus resources includes WCC's Imaginarium, NASA Flight Training Aerospace Education Laboratory. Aerospace Exploration Lab and Lanihuli Observatory.

Hawaii-Dept of Health

Graduate Assistant Research and Evaluation Project
Charles Mueller Department of Psychology
Psychology Department and Department of Child and Adolescent Mental Health Division (DOH-CAMHD) collaborate to provide research and evaluation training for graduate psychology students.

Hawaii-Dept of Human Services

Partnership to Promote the Efficiency and Effectiveness of the State of Hawaii's Medicaid Program Through an Oral Health Initiative
Nancy K Johnson Chancellor, Maui Community College
Maui Community College Allied Health Department and Oral Health Professionals will provide administrative case management, intra/agency coordination, collaboration and administration, program planning and policy development, quality management and training of dental auxiliaries.

Hawaii-Dept of Human Services

Title IV-E Training Academy
Meripa T. Godinet School of Social Work
To train public child welfare workers and administrators to meet key competency areas in the public child welfare system. In addition, the project will also provide evaluation and assessment on trainings provided by the Title IV-E Training Academy.

Hawaii-Dept of Human Services

Partnership to Increase the Quality of Hawaii's Child Welfare Services
Jon K Matsuoka School of Social Work
To provide consultative services in the areas of Child Welfare policy/practice and Finance/Management.

Hawaii-Dept of Human Services

Partnership to Increase the Quality of Hawaii's Child Welfare Services
Jon K Matsuoka School of Social Work
To provide consultative services in the areas of Child Welfare policy/practice and Finance/Management.

Hawaii-Dept of Land & Natural Resources

Volcano Rare Plant Facility
Kenneth Y Kaneshiro Pacific Biosciences Research Center
Propagation and maintenance of endangered Hawaiian plant species at the Volcano Rare Plant Propagation Facility.
## Gifts, Grants, and Contracts for December 2008

### Non-Research

#### Hawaii- Health Organizations

<table>
<thead>
<tr>
<th>Organization</th>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Queen's Medical Center</td>
<td>$408,532</td>
<td>Reimbursement Agreement - FY2009, Agreement No. SF09-QMC-SURG-ORTHO (Salary, Fringe Benefit &amp; Malpractice reimbursement Agreement to provide physician and physician related services for FY 2009).</td>
</tr>
<tr>
<td>Waianae Coast Comprehensive Health Center</td>
<td>$4,508</td>
<td>Life Exploration and Planning and Job Search Skills class (Provide instruction for IS 104 Career/Life Exploration and Planning and IS105C Job Search Skills class).</td>
</tr>
</tbody>
</table>

#### Hawaii- Non-Profit Organizations

<table>
<thead>
<tr>
<th>Organization</th>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Hawaii Foundation</td>
<td>$28,163</td>
<td>East Asian Buddhism Professorship (To pay for salary and fringe of the East Asian Buddhism Professorship for the College of Arts &amp; Humanities).</td>
</tr>
<tr>
<td>University of Hawaii Foundation</td>
<td>$74,066</td>
<td>Kellogg P-3 Expenditures (To pay for payroll (salary and fringe) and non-payroll expenditures related to the Kellogg P-3 grant for the project period of July 1, 2007 through December 31, 2014).</td>
</tr>
<tr>
<td>University of Hawaii Foundation</td>
<td>$3,500</td>
<td>Manoa Journal (Funds for staff wages).</td>
</tr>
<tr>
<td>University of Hawaii Foundation</td>
<td>$56,510</td>
<td>Kellogg Interest P-20 Administration (To pay for P-20 Administrative salary and fringe charges).</td>
</tr>
</tbody>
</table>

### Mainland- Business and Other

<table>
<thead>
<tr>
<th>Organization</th>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Council for Biotechnology Information</td>
<td>$11,560</td>
<td>Tomorrow's Table Education Tour (I propose bringing Pamela Ronald and her husband Raoul Adamchak to Hawaii in February 2009 for a series of presentations and discussions regarding their book, Tomorrow's Table. Pamela is a rice geneticist and genetic engineer at UC Davis and Raoul is an organic farmer who runs the UC Davis Student Farm's Market Garden).</td>
</tr>
</tbody>
</table>
Gifts, Grants, and Contracts for December 2008

Non-Research

Mainland- Business and Other

Nature Conservancy $40,040
  Marine Biological Monitoring Assessment and Program Development
  Charles Birkeland Hawaii Cooperative Fishery Research Unit
  Provide marine survey design and analysis and data management expertise to support Nature Conservancy (TNC) monitoring programs in Hawaii. Additionally, summarize research relevant to making the case for area based management in Hawaii, and assist TNC in assessing scientifically validity of current management regulations.

Mainland- Health Organizations

American Academy of Pediatrics $10,000
  Medical/Legal Partnership for Children
  Dina M Shek William Richardson School of Law
  Train medical providers to utilize on-site lawyers and law students to address social and environmental problems that are detrimental to the health and well-being of children in low-income families.

Mainland- Non-Profit Organizations

American Meteorological Society $39,299
  Journal of Physical Oceanography
  Eric Firing Department of Oceanography
  To provide editorial assistant support for AMS journals for current editors of the Journal of Physical Oceanography (E. Firing) and Journal of Climate (S.P. Xie).

Chinese Language Teachers Association $25,000
  Chinese Language Teachers Association (CLTA)
  Cynthia Y Ning Center for Chinese Studies
  Handles accounts, records and general communication (national and international) of the Chinese Language Teachers Association.

Sidney Stern Memorial Trust $2,500
  Actors from the London Stage: A Hawaii Residency
  Timothy Roy Slaughter Outreach College
  An arts residency with theater company, Actors from the London Stage, including 1 public performance and 30 outreach activities.

Miscellaneous

International Union of Nutritional Sciences $3,800
  Financial Duties for the International Union of Nutritional Sciences (IUNS)
  Laurence N Kolonel Cancer Research Center
  Send annual dues notices to approximately 80 countries that are Adhering Bodies (ABs) of IUNS; Receive & deposit dies from ABs and sent receipts; Communicate as needed with ABs regarding overdue dues; Disperse funds as directed by Treasurer (Dr. S. Murphy); Maintain accurate financial records for IUNS & provide a final report of expenditures.
## Gifts, Grants, and Contracts for December 2008

### Non-Research

#### National Aeronautics and Space Administration

<table>
<thead>
<tr>
<th>National Aeronautics &amp; Space Administration</th>
<th>$106,978</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tour Through the Solar System: Using NASA Data Sets for Inspiring High School Level Science and Mathematics Education Through Problem-Based Learning</strong></td>
<td></td>
</tr>
<tr>
<td>Jeffrey Gillis-Davis</td>
<td>Hawaii Institute of Geophysics and Planetology</td>
</tr>
</tbody>
</table>

We will develop a high school curriculum that is comprised of (1) modular lesson plans, (2) teacher tutorials, and (3) hands-on laboratory experiments based on the latest NASA mission materials that we work with. This planetary exploration themed curriculum coherent be aligned with national and Hawaii education science standards.

#### US Colleges and Universities

<table>
<thead>
<tr>
<th>University</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mississippi State University</strong></td>
<td>$19,499</td>
</tr>
<tr>
<td>University of Hawaii Participation in MOS University Consortium PET Project</td>
<td></td>
</tr>
<tr>
<td>David K Lassner</td>
<td>Information Technology Services</td>
</tr>
</tbody>
</table>

The University of Hawaii will support the MOS University Team with the Training Coordination of the DoD PET Program. It will also respond to requests for technical training support as requested.

| Saddleback College                              | $25,000|
| "Rapid Tech" National Center for Rapid Technologies |         |
| Michael Jennings                               | Chancellor, Honolulu Community College |

Curriculum development in 3D Rapid Prototyping in architecture.

| University of Arizona                           | $9,148 |
| Water Quality Research and Extension Coordination in Hawaii |         |
| Carl I Evensen                                  | Department of Natural Resources and Environmental Management |

This revised budget is to cover expenses that will be incurred from organizing and conducting a Regional Project Review by a panel of water coordinators from USDA CSREES's Water Program on members of Region 9. This review is mandatory to fulfill our project requirements.

| University of California, Los Angeles           | $40,643|
| Pacific Public Health Training Center          |        |
| Valerie Yontz                                  | Office of Public Health Studies |

The grant's goal is to develop and support public health training opportunities that are consistent with the public health workforce development objectives in Healthy People 2010.

| University of California, San Francisco         | $8,000 |
| HIV Care Services Training & Educational Services |        |
| Cyril K Goshima                                | Department of Psychiatry |

Provide HIV/AIDS Care Services Training and Educational Services to health care providers in Hawaii and South Pacific.

| University of California, San Francisco         | $334,568|
| HIV Care Services Training & Educational Services |        |
| Cyril K Goshima                                | Department of Psychiatry |

Provide HIV/AIDS Care Services Training and Educational Services to health care providers in Hawaii and South Pacific.
Gifts, Grants, and Contracts for December 2008

Non-Research

US Colleges and Universities

University of Melbourne $198,865

Relating to Malaria in Pregnancy, Major Activity 13: Pathogenesis, Immunity and Burden of Disease, (Placental Malaria Workshop and Ultrasound Study)

Diane W. Taylor Dept of Trop Med, Medical Microbiology and Pharmacology

The goal of this subcontract agreement is to: 1) organize and conduct a workshop on Placental Malaria in Cameroon, March 2008 and 2) conduct studies using ultrasound to examine the importance of timing of malaria infection to pregnancy outcome.

Subcount: 46 Subtotal: $5,879,438

Count: 144 Total: $40,950,961
Funds Received from UH Foundation for 12/01/2008 - 12/31/2008

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation $56,510
"Kellogg Interest P-20 Administration"
Johnsrud, Linda K Vice President for Academic Planning and Policy
To pay for P-20 Administrative salary and fringe charges.

University of Hawaii Foundation $74,066
"Kellogg P-3 Expenditures"
Johnsrud, Linda K College of Education
To pay for payroll (salary and fringe) and non-payroll expenditures related to the Kellogg P-3 grant for the project period of July 1, 2007 through December 31, 2014.

University of Hawaii Foundation $3,500
"Manoa Journal"
Stewart, R F Department of English
Funds for staff wages.

University of Hawaii Foundation $28,163
"East Asian Buddhism Professorship"
Tiles, Mary Elizabeth Department of Philosophy
To pay for salary and fringe of the East Asian Buddhism Professorship for the College of Arts & Humanities.

Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation $12,676
"Real Time, Non-Invasive Lung Water Monitoring"
Le Saux, Claude Dept Anatomy, Biochemistry, Physiology and Reproductive Biol
To develop a fundamental understanding of the microwave method for measuring changes in lung water content by pursuing both the clinical/physiological and engineering advances of this technology with was originally by the Hawaii Center for Advanced Communications - Engineering group.

University of Hawaii Foundation $48,250
"Pew Marine Conservation Fellowship"
Richmond, Robert H Pacific Biosciences Research Center
Conduct research in coral bio-marker development and applications through field and laboratory studies in Guam, Palau and Hawaii. This bio marker research will provide a valuable tool for coral reef conservation efforts via data that will demonstrate cause and effect and the underlying mechanism for damage to corals.

Count: 6 Total: $223,165
## Extramural Research Awards
### for the Month of December 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>$134,309</td>
<td>0.38%</td>
</tr>
<tr>
<td>DHHS-Dept of Health and Human Services</td>
<td>2</td>
<td>$1,087,567</td>
<td>3.10%</td>
</tr>
<tr>
<td>DOD-Department of Defense</td>
<td>15</td>
<td>$21,532,640</td>
<td>61.40%</td>
</tr>
<tr>
<td>DOE-Dept of Energy</td>
<td>2</td>
<td>$4,014,395</td>
<td>11.45%</td>
</tr>
<tr>
<td>DOI-Dept of Interior</td>
<td>1</td>
<td>$9,375</td>
<td>0.03%</td>
</tr>
<tr>
<td>Federal Agencies</td>
<td>1</td>
<td>$69,001</td>
<td>0.20%</td>
</tr>
<tr>
<td>Foreign</td>
<td>2</td>
<td>$70,209</td>
<td>0.20%</td>
</tr>
<tr>
<td>Hawaii- Business and Other</td>
<td>2</td>
<td>$22,839</td>
<td>0.07%</td>
</tr>
<tr>
<td>Hawaii- Government Agencies</td>
<td>33</td>
<td>$5,220,143</td>
<td>14.88%</td>
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<tr>
<td>Hawaii- Non-Profit Organizations</td>
<td>10</td>
<td>$470,915</td>
<td>1.34%</td>
</tr>
<tr>
<td>Mainland- Business and Other</td>
<td>4</td>
<td>$164,593</td>
<td>0.47%</td>
</tr>
<tr>
<td>Mainland- Health Organizations</td>
<td>2</td>
<td>$29,540</td>
<td>0.08%</td>
</tr>
<tr>
<td>Mainland- Non-Profit Organizations</td>
<td>3</td>
<td>$60,190</td>
<td>0.17%</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>2</td>
<td>$102,891</td>
<td>0.29%</td>
</tr>
<tr>
<td>National Aeronautics and Space Administration</td>
<td>6</td>
<td>$816,187</td>
<td>2.33%</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>4</td>
<td>$564,072</td>
<td>1.61%</td>
</tr>
<tr>
<td>US Colleges and Universities</td>
<td>7</td>
<td>$702,657</td>
<td>2.00%</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>98</strong></td>
<td><strong>$35,071,523</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>
Extramural Non-Research Awards
for the Month of
December 2008
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<tbody>
<tr>
<td>DA-Dept of Agriculture</td>
<td>1</td>
<td>$297,224</td>
<td>5.06%</td>
</tr>
<tr>
<td>DHHS-Dept of Health and Human Services</td>
<td>2</td>
<td>$546,805</td>
<td>9.30%</td>
</tr>
<tr>
<td>DOC-Dept of Commerce</td>
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<tr>
<td>DOI-Dept of Interior</td>
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<tr>
<td>Hawaii- Business and Other</td>
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<tr>
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<td>Hawaii- Non-Profit Organizations</td>
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<tr>
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<tr>
<td>US Colleges and Universities</td>
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<tr>
<td><strong>Total:</strong></td>
<td><strong>46</strong></td>
<td><strong>$5,879,438</strong></td>
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</tbody>
</table>
Extramural Research Awards  
Year to Date: 07/01/08 - 12/31/08  
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>61</td>
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</tr>
<tr>
<td>DHHS-Dept of Health and Human Services</td>
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<td>$39,254,557</td>
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<td>DOD-Department of Defense</td>
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<td><strong>648</strong></td>
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</table>
Extramural Non-Research Awards
Year to Date: 07/01/08 - 12/31/08
Distribution by Sponsors

<table>
<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
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<td>DOI-Dept of Interior</td>
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<tr>
<td>ED-Dept of Education</td>
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<td>Federal Agencies</td>
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<tr>
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<td>Hawaii- Health Organizations</td>
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<tr>
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<td>Mainland- Non-Profit Organizations</td>
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<tr>
<td>Miscellaneous</td>
<td>2</td>
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<tr>
<td>National Aeronautics and Space Admin</td>
<td>5</td>
<td>$2,005,005</td>
<td>2.14%</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>10</td>
<td>$4,939,724</td>
<td>5.26%</td>
</tr>
<tr>
<td>US Colleges and Universities</td>
<td>21</td>
<td>$2,310,423</td>
<td>2.46%</td>
</tr>
</tbody>
</table>

Total: 448 $93,873,371 100%
Gifts, Grants, and Contracts for January 2009

The following gifts, grants and contracts received by all campuses during the period January 1, 2009 through January 31, 2009 total $16,921,864.

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

Research

DHHS-Dept of Health and Human Services

- National Institute of Allergy and Infectious Diseases/NIH/DHHS
  Global HIV Drug Therapies and Mitochondrial Complications and Mechanisms
  Mariana Gerschenson  John A. Burns School of Medicine
  39 million people are living with HIV and when they are treated with drugs like d4T or ZDV this can cause side-effects like fat loss that we are trying to understand and prevent.

- National Institutes of Health/DHHS
  Institute for Biogenesis Research: COBRE
  William S Ward  Dept Anatomy, Biochemistry, Physiology and Reproductive Biol
  Develop the existing Institute for Biogenesis Research into a multi-disciplinary research center for reproductive biology research.

DOC-Dept of Commerce

- National Oceanic & Atmospheric Administration/Department of Commerce
  Reducing Shark Bycatch with Electropositive Metals
  Thomas A Schroeder  Joint Institute for Marine and Atmospheric Research
  To conduct experimental longline trials field-testing the effects of E+metals on the catch rates of sharks and other fish species.

- National Oceanic & Atmospheric Administration/Department of Commerce
  Field & Household Assessment of Non-Commercial Fishing - Pohnpei
  Kevin D Hopkins  Pacific Aquaculture-UHH
  Conduct surveys to determine the total amount of reef fish being extracted from Pohnpei’s surrounding reef and lagoon by the non-commercial (subsistence) fishing sector and to document per capita consumption values

DOD-Department of Defense

- DOD-U.S. Army Medical Research & Material Command
  ICU Multipoint Military Pacific Consultation Using Telehealth II (IMMPACT II)
  Benjamin W Berg  John A. Burns School of Medicine
  Conduct research to evaluate the ability of a specialist physician located at Tripler Army Medical Center to provide team leadership for a team of doctors and nurses in Korea using a remote telemedicine system. The team in Korea practices on mannequin that simulates a medical crisis, and the specialist in Hawaii advises during the crisis simulation.

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

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  Operations and Management of the Maui Supercomputing Center
  David K Lassner  Information Technology Services
  Cost reimbursement award term contract for research, development, operations and management of the Maui Supercomputing Center.
Gifts, Grants, and Contracts for January 2009

Research

**DOD-Department of Defense**

- Department of the Air Force
  - 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 Supercomputing Center.
    - $25,300

- Department of the Air Force
  - 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 Supercomputing Center.
    - $34,092

- Department of the Air Force
  - Operations and Management of the Maui Supercomputing Center
    - David K Lassner
    - Information Technology Services
    - Cost reimbursement award term contract for research, development, operations and management of the Maui Supercomputing Center.
    - $83,550

- Office of Naval Research
  - Ion Tiger UAV
    - Richard E Rocheleau
    - Hawaii Natural Energy Institute
    - Conduct research for the improvements of power sources for small military systems via material and systems development.
    - $250,000

**DOE-Dept of Energy**

- Department of Energy
    - Stephen L Olsen
    - Department of Physics and Astronomy
    - Primary purpose of this research is the understanding of the properties of the elementary constituents of matter and the nature of the fundamental forces between them.
    - $690,833

- Department of Energy
    - Richard E Rocheleau
    - Hawaii Natural Energy Institute
    - This phase of the project will assess the electric and transportation infrastructure for the islands of Oahu and Kauai, identify sites for electric microgrid studies, test and evaluate distributed generation and storage technologies, and address policy issues to accelerate implementation of renewable technologies.
    - $100,000

**DOI-Dept of Interior**

- U.S. Fish & Wildlife Service/Department of the Interior
  - Spit Islet Ant Project and Hawaiian Islands Offshore Islet Surveys
    - Kenneth Y Kaneshiro
    - Pacific Biosciences Research Center
    - Summary and analysis of 2001 ant eradication attempt on Spit Islet, Midway Atoll. Summary, analysis and creation of data source of Hawaii offshore islet arthropod survey findings and highlight islets with native arthropods.
    - $17,000
Gifts, Grants, and Contracts for January 2009

Research

DOI-Dept of Interior

U.S. Geological Survey/Department of the Interior $15,000
Hawaiian Vegetation Mapping Project: Digital Database
Sharon Ziegler-Chong Pacific Aquaculture-UHH
Enter plant data from approximately 4,000 additional stations sampled during the HFBS into the plant database

Foreign

Ludwig-Maximilians-University Munich $243,000
Procurement of Infrared Detector Arrays
Klaus W Hodapp Institute for Astronomy
UH offers to purchase focal plane arrays and application specific integrated circuits from Teledyne, obtain licenses, and store devices on behalf of sponsor, and in anticipation of subsequent contract to test devices, and develop an infrared camera for sponsor.

Trojan Technologies, Inc $86,202
Ultraviolet Radiation Technology Investigation
Victor D Moreland Water Resources Research Center
Provide assistance in testing protocols for various ultraviolet system components and full-scale systems testing and provide training materials to improve water and wastewater treatment knowledge to company personnel focusing on up-stream treatment processes that influence ultraviolet systems.

Hawaii- Business and Other

Sea Engineering, Inc $160,400
Real Time Monitoring and Establishment of an "Early Warning System" for the Sand Island Ocean Outfall Effluent Plume
Eugene R. Pawlak Department of Ocean and Resources Engineering
This project will make use of the Kilo Nalu Observatory array to collect and distribute ocean data in support of development of an early warning system to report when conditions exist that can lead to surfacing of the Sand Island ocean outfall plume.

Hawaii- Government Agencies

Hawaii-Dept of Land & Natural Resources $29,976
Growth and Reproduction of Hawaiian kala (naso unicornis)
Brian R Bowen Hawaii Institute of Marine Biology
The purpose of this study is to identify size at age, growth rates, longevity, and reproductive potential of Hawaiian unicorn fish (Naso unicornis).

Hawaii-Dept of Land & Natural Resources $15,000
Arthropod Prey Availability 2008-2009
Sharon Ziegler-Chong Pacific Aquaculture-UHH
Study the feeding ecology of the endantered 'akiapola'au (and possibly other associated speices) in old growth and managed stands of koa to help natural are managers and silviculturalists maintain high native bird diversity
Gifts, Grants, and Contracts for January 2009

Research

Hawaii- Government Agencies

Hawaii-Dept of Land & Natural Resources

Dermal Toxicity of Aqueous Solutes in Coqui Frogs
William Mautz  Natural Sciences-UHH
Experiments for an improved spray to be designed that is not as caustic as citric acid or hydrated lime but is effective on coqui frogs at lower concentrations and less damaging to sensitive plants

Hawaii-Dept of Land & Natural Resources

Marine Biological Monitoring Assessment of the Program Development
Charles Birkeland  Hawaii Cooperative Fishery Research Unit
Provide marine survey design and analysis and data management expertise to support the Division of Aquatic Resources (DAR) monitoring programs in Hawaii. Additionally, summarized research relevant to making the case for area-based management in Hawaii, and assist DAR in assessing the scientific validity of current management regulations.

Hawaii-Dept of Land & Natural Resources

Support for the HISC Program
David C Duffy  Department of Botany
Coordinate invasive species management, assess new invasive species risks, ensure good science is applied to management plans, and implement a public outreach program.

Hawaii-Dept of Land & Natural Resources

State of Hawai’i’s Plant Extinction Prevention Program
Clifford W Morden  Department of Botany
Prevent the extinction of critically endangered native plants through collection of genetic materials for future use in propagation and reintroduced into the wild.

Hawaii-High Technology Development Corp

Data Collection and Analysis to Support HCATT Electric and Hybrid Vehicle Demonstration Program
Bor Yann Liaw  Hawaii Natural Energy Institute
HNEI will utilize the utility and capability developed in the previous project activities to continue this service to HCATT and Air Force APTO to facilitate the evaluation of the fleet operations and the vehicle performance of hybrid vehicles in the Hickam Air Force base.

Maui-Off of Economic Development

Evaluation of Jatropha as a Biofuel Crop in Maui County
Harold H Keyser  College of Tropical Agriculture and Human Resources
Multiply seed and cuttings of Jatropha for distribution and evaluation as a biofuel crop, and establishment of long term productivity trials in different environments in Maui County.

Hawaii- Health Organizations

Kapiolani Medical Center

$326,902
Cooperative Research Agreement between Kapiolani Medical Center for Women & Children and University of Hawaii Cancer Research Center of Hawaii
Robert W Wilkinson  Cancer Research Center
Clinical Research Associate screens all patients, determines eligibility, assists with consent process, registers
Gifts, Grants, and Contracts for January 2009

Research

Hawaii- Health Organizations

patients on study, performs study data / specimens collection for submission to the Children's Oncology Group (COG). Other staff personnel prepares all regulatory paperwork required for the group between Cancer Center, institutional review board and COG.

Kuakini Medical Center
Epidemiology of Aging and Dementia Autopsy Research
Jane H Uyehara-Lock Department of Pathology
To provide pathology services and analysis of autopsy results as part of the ongoing Honolulu Asia Aging Study. This award is a subcontract from Kuakini Medical Center to the University of Hawaii.

Kuakini Medical Center
Epidemiology of Aging and Dementia Autopsy Research
Jane H Uyehara-Lock Department of Pathology
To provide pathology services and analysis of autopsy results as part of the ongoing Honolulu Asia Aging Study. This award is a subcontract from Kuakini Medical Center to the University of Hawaii.

Hawaiian- Non-Profit Organizations

HCF-Hawaii Community Foundation- General $50,000
Regulation of Developmental Signaling Pathways by the Actin-severing Protein Fli I
Heinz Gert De Couet Department of Zoology
The project proposes to investigate in more detail the proposed involvement of the Fli-I gene in ERK signaling, and the molecular targets of regulation. The proposal focuses on known components of the MAPK signaling pathway and will involve the vinegar fly Drosophila as an established model system, as well as cell culture approaches to the problem.

University of Hawaii Foundation $2,500
Landscape Research
Robert E Paull Department of Tropical Plant and Soil Sciences
Assist in landscape program outreach in developing educational materials.

University of Hawaii Foundation $7,500
Real Time, Non-Invasive Lung Water Monitoring
Magdy F. Iskander Hawaii Center for Advanced Communications
To develop a fundamental understanding of the microwave method for measuring changes in lung water content by pursuing both the clinical/physiological and engineering advances of this technology which was originally developed by our group.

University of Hawaii Foundation $598,425
DNA Barcoding of Endemic Hawaiian Species
Donald Price Biology-UHH
Validity of DNA barcoding of recently derived species is understood based on the testing of endemic species in the Hawaiian archipelago and especially the young Hawaii Island

University of Hawaii Foundation $35,000
Preserving Hawaii's Culturally Significant Native Plants
Christopher Dunn Lyon Aboretum
To preserve Hawaii's Culturally Significant Native Plants.
Gifts, Grants, and Contracts for January 2009

Research

Mainland- Business and Other

Aura, Inc

**Advanced Technology Solar Telescope Site Survey Instruments Operations**
Jeffrey R. Kuhn  Institute for Astronomy
To continue to oversee the operation and preventive maintenance of the STST Site Survey Instruments and collect the data CDs.

Brookhaven National Laboratory

**US ATLAS Research Program Office for Upgrade R&D**
Sherwood I Parker  Department of Physics and Astronomy
Continuation of the development of silicon pixel radiation sensors designed for the innermost layers of the ATLAS silicon tracking system.

Consortium for Plant Biotechnology Research, Inc

**Energy Efficient Biomass Refining into Fuel Ethanol and Bioplastics**
Jian Yu  Hawaii Natural Energy Institute
This project is to develop a new technology for conversion of cellulosic biomass into fuel ethanol with reduced energy consumption and waste generation. It investigates biological detoxification of organic inhibitors for reusing process water as well as formation of biopolymesters on the organic residues left from ethanol fermentation.

Health Research, Inc

**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.

Space Telescope Science Institute

**Cycle 16: Resolving Ultracool Astrophysics with Brown Dwarf Binaries**
Michael C Liu  Institute for Astronomy
Measure 14 brown dwarf stars with infra-red and near infrared photometry.

Mainland- Health Organizations

Riverside Research Institute - NY

**Advanced Ultrasonic Evaluation of Sentinel Lymph Nodes**
Junji Machi  Department of Surgery
Using special advanced ultrasound techniques, we are trying to make a diagnosis of cancer in lymph nodes, which will help pathologists. We focus on sentinel lymph nodes of breast cancer so that diagnosis of lymph node metastasis will be improved in a non-invasive way.

Mainland- Non-Profit Organizations

Save the Waves Coalition

**Wave Valuation Study**
Makena Coffman  Department of Urban and Regional Planning
Develop a methodology and assess the economic benefits of the Maverick's Surf Contest in Half Moon Bay, California.
Gifts, Grants, and Contracts for January 2009

Research

National Aeronautics and Space Administration

National Aeronautics & Space Administration
Regional Planetary Image Center
Bernard Ray Hawke Hawaii Institute of Geophysics and Planetology
This is a proposal for the continued support of the Pacific Regional Image Facility at University of Hawaii campus in Honolulu.

National Aeronautics & Space Administration $44,200

The NASA Infrared Telescope Facility: Mission Support and Solar System Observations
Alan Tokunaga Institute for Astronomy
We propose to provide NASA with observations and research data aimed at providing support of spacecraft missions and basic research in support of the Planetary Astronomy program.

National Aeronautics & Space Administration $2,000,000

Recruiting Undergraduates to Space Science Through the Wonders of Cosmochemistry
G Jeffrey Taylor Hawaii Institute of Geophysics and Planetology
We will create new course materials covering cosmochemistry and planetary science for geochemistry instructors to use in their upper-level undergraduate courses. The materials will include PowerPoint lecture slides and an online searchable database of graphics and illustrations pertinent to cosmochemistry.

National Science Foundation

National Science Foundation $183,953

Dynamics and Moist Thermodynamics of Boreal Summer Intraseasonal Oscillation
Bin Wang Department of Meteorology
This work investigate physical processes governing boreal summer intraseasonal variation of the tropical atmosphere.

National Science Foundation $297,682

Rates, Sources and Magmagenesis of Alkalic Lavas at the Edge of an Intraplate Hotspot: A Multi-tracer Study of the Youngest Volcanics on Oahu, Hawaii
Kenneth H Rubin Department of Geology and Geophysics
Geochemical studies of young volcanism on Oahu to understand how it happens.

National Science Foundation $48,021

Collaborative Research: Towards a Quaternary Spatial and Temporal Deformation History at the Central Andean Thrust Front
Benjamin A Brooks Hawaii Institute of Geophysics and Planetology
Further GPS deformation research in Argentina.

National Science Foundation $196,606

VOCALS: Airborne Measurements of Aerosol Dynamics and Evolution
Antony D Clarke Department of Oceanography
Understanding the role of aerosol properties in cloud and drizzle formation.
Gifts, Grants, and Contracts for January 2009

Research

National Science Foundation

National Science Foundation $137,788
CAREER: High Fidelity Haptic Interaction using Large Range of Motion Magnetic Levitation Systems for Medical Applications
Peter John Berkelman Department of Mechanical Engineering
(1) Developing novel magnetic levitation with large ranges of motion, and fast and accurate position and force control, (2) developing interactive simulations with the maglev systems for surgical simulation and physical rehabilitation, (3) evaluating the realism and effectiveness of the interactive systems.

US Colleges and Universities

Oregon State University $150,000
Customizing Biodiesel Derived from Tropical Trees
Richard Ogoshi Department of Tropical Plant and Soil Sciences
Collection of oil seeds from different tropical crops at different elevations and environments; extraction of oil; conversion of oil into biodiesel; and testing biodiesel emissions.

University of California, Berkeley $169,260
Collaborative Research with the SuperNova Integral Field Spectrograph (SNIFS) and the University of Hawaii 2.2 Meter Telescope
Colin Aspin Institute for Astronomy
To continue collaboration with the Nearby Supernova Factory and the University of California in providing telescope time for the SNIFS instrument to conduct supernova studies.

University of California, San Diego $169,999
Pacific Islands Land-Ocean Typhoon (PILOT) Experiment: Coastal Run-up and Fringing Reefs
Mark A Merrifield Department of Oceanography
Field observations of shoaling surface gravity waves, sea level, and nearshore currents over fringing reefs will be made to estimate the coastal-run that occurs during energetic, storm-generated wave events. The results will be compared to numerical models and used for emergency management purposes.

University of Washington $30,748
The HOT Profiler: Supporting Activities at the University of Hawaii
Bruce M Howe Department of Ocean and Resources Engineering
For the NSF-funded HOT Profiler mooring project, Bruce Howe will assist APL-UW in mooring design, logistics associated with deploying and recovering the mooring system at Station ALOHA north of Oahu, and data analysis, interpretation and publication.

University of Washington $5,948
The ALOHA-MARS Mooring: Supporting Activities at the University of Hawaii
Bruce M Howe Department of Ocean and Resources Engineering
Bruce Howe will continue as project PI after moving to UH. Tasks will include final work at Seahurst Observatory, engineering documentation of the system, a summary publication describing the system, the small mooring system being installed at the ALOHA Cabled Observatory (JACO), and the NSF project final report.

Subcount: 53 Subtotal: $8,890,366
Gifts, Grants, and Contracts for January 2009

Non-Research

DA-Dept of Agriculture

Department of Agriculture
Strengthening Extension Network
Maria C. Haws Pacific Aquaculture-UHH

Forest Service/Department of Agriculture
Bringing Science and Management Together
Kenneth Y Kaneshiro Pacific Biosciences Research Center
Organize and carry out the annual Hawaii Conservation Conference. Organize, carry out, and publish the results of workshops on the highest priority topics to utilize research resources available to Hawaii most efficiently. Develop, carry out efficient communication of relevant research findings to the managers of Hawaii’s natural resources.

DOC-Dept of Commerce

Department of Commerce
MOBY Shore Support at UH Marine Center
Provide outdoor storage area, utilities, & other support services to MOBY at the UH Marine Center.

Minority Business Development Agency/Department of Commerce
Honolulu Minority Business Enterprise Center
John F Morton Vice President for Community Colleges
The Minority Business Development Agency Award supports the Honolulu Minority Business Enterprise Center that will provide economic development and technical assistance work to minority business enterprises located in Hawaii.

DOI-Dept of Interior

DOI-Off of Insular Affairs
UH-PBCP AAPI Student Internship Program
John F Morton Vice President for Community Colleges
This grant will be used to continue to expand its student internship program to support PBCP’s work in economic development, diversification, and infrastructure building in the American Affiliated Pacific Islands (AAPI).

DOI-Off of Insular Affairs
2008 DOI Island Fellowship Program
John F Morton Vice President for Community Colleges
The Pacific Business Center Program will provide technical and administrative assistance to the DOI in administering the 2008 DOI Island Fellowship Program.
Gifts, Grants, and Contracts for January 2009

Non-Research

Federal Agencies

National Endowment for the Arts/National Fndn. on the Arts & Humanities
MANOA: A Pacific Journal of International Writing $12,500
R F Stewart Department of English
Production of two issues of an international literary journal.

Foreign

Ministry of Commerce and Trade $20,000
PBCP-AAPI Support 2008-Palau
John F Morton Vice President for Community Colleges
This award supports the economic development and technical assistance work of the Pacific Business Center Program under the University Center grant from the Economic Development Administration, US Department of Commerce.

Niels Bohr Institute $9,000
Guest Professor at the Niels Bohr Institute
Bo Reipurth Institute for Astronomy
The Principal Investigator will spend four months as a guest professor at the Niels Bohr International Academy in order to do research and interact with faculty, including giving seminars and presentations.

Hawaii- Business and Other

Hawaii Council for the Humanities $2,500
Key Ingredients: America by Food Implementation
Douglas Dykstra Chancellor, Hawaii Community College
Hawaii Community College will sponsor three ethnic luncheon/lectures and a film festival featuring three films moderated by film professors in support of a Smithsonian Museum Traveling Exhibit at the Lyman Museum in Hilo.

Kamehameha Schools $90,000
'Owi Ake Akamia: Native Hawaiian Doctoral Fellowship Program - Kamehameha Schools
Gary Kent Ostrander Vice Chancellor for Research and Graduate Education
Provide funding to doctoral students for the completion of dissertations that further the University's commitment to Native Hawaiians and Native Hawaiian research.

Kamehameha Schools $1,335,308
Kahuawaiola - Kamehameha Schools
Keiki K Kawaiaea Ka Haka'Ula O Ke'Elikolani-UHH
Prepare teachers to teach in Hawaiian language medium schools, Hawaiian language and culture in English medium schools
## Gifts, Grants, and Contracts for January 2009

### Non-Research

#### Hawaii- Government Agencies

<table>
<thead>
<tr>
<th>Agency</th>
<th>Amount</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>County of Hawaii</td>
<td>$5,000</td>
<td>Developing Interactive Economic Feasibility for Coffee Industry&lt;br&gt; Investigate the economic feasibility of coffee production in Hawaii and to develop software for growers to estimate production cost</td>
</tr>
<tr>
<td>County of Maui</td>
<td>$60,000</td>
<td>Maui County Aquaculture Extension Program&lt;br&gt; Robert D Howerton, Sea Grant College Program&lt;br&gt; The Maui County Aquaculture Extension Program acts as a conduit between aquaculture researchers and commercial producers. Community outreach and public education are also integral components of the Maui County aquaculture extension program. These activities are focused on developing the aquaculture industry to become a significant contributor to Maui County's economy.</td>
</tr>
<tr>
<td>County of Maui</td>
<td>$50,000</td>
<td>County of Maui-Maui Community College Cooperative Education Internship Partnership Providing Relevant Field Experience for MCC Students&lt;br&gt; Clyde M Sakamoto, Chancellor, Maui Community College&lt;br&gt; Maui Community College students will intern in various County of Maui departments and select not-for-profits through the Cooperative Education Program and will be awarded credits and stipends.</td>
</tr>
<tr>
<td>County of Maui</td>
<td>$121,953</td>
<td>Year-Round Youth Services and Training Program under the Workforce Investment Act of 1998 for the County of Maui&lt;br&gt; Alvin R Tagomori, Chancellor, Maui Community College</td>
</tr>
<tr>
<td>DLNR-Division of Aquatic Resources</td>
<td>$47,000</td>
<td>Coordination and Implementation of Hawaii's Local Action Strategy to Address Land-based Pollution Threats to Coral Reefs&lt;br&gt; Carl I Evensen, Department of Natural Resources and Environmental Management&lt;br&gt; The University of Hawaii's Dept of Natural Resources and Environmental management shall assist the Coral Reef Land-Based Pollution Steering Committee to coordinate the implementation of Hawaii's Local Action Strategy to Address Land-Based Pollution Threats to Coral Reef and provide technical assistance to stakeholders on coral reef protection issues.</td>
</tr>
<tr>
<td>Hawaii Tourism Authority</td>
<td>$44,997</td>
<td>Reef Watch Waikiki&lt;br&gt; Jennifer Barrett, Sea Grant College Program&lt;br&gt; To develop a community-based education and coastal monitoring program that inspires and facilitates community stewardship of Mamala Bay and leads to improved vitality of Waikiki's coastal and marine environment. The project is also expected to enhance marine recreation opportunities and visitor experiences.</td>
</tr>
<tr>
<td>Hawaii-Civil Defense Division</td>
<td>$200,000</td>
<td>Pacific Emergency Management, Preparedness and Response Information Network and Training Services&lt;br&gt; Ann M Sakaguchi, Department of Anthropology&lt;br&gt; Develop training programs and conferences and purchase training equipment.</td>
</tr>
</tbody>
</table>
Gifts, Grants, and Contracts for January 2009

Non-Research

Hawaii- Government Agencies

Hawaii-Dept of Education $30,000
Terry Ann Higa Curriculum Research and Development Group
The evaluators will develop a draft evaluation design and data-collection instruments for feedback from the project staff. These documents will be revised based on the feedback. The evaluators will provide copies of the data-collection instruments according to the evaluation design schedule, collect and analyze the data, and write the evaluation report.

Hawaii-Dept of Education $2,598,830
Felix Consent Decree Recruitment and Retention Personnel Plan
Christine Sorensen College of Education
A recruitment and retention personnel plan designed to build a sustained in-state capacity to produce additional Special Education teachers eligible for initial teaching licensure each year by the College of Education, specifically and deliberately prepared for career employment in the Hawaii Public Schools. Also, mentor program is used to help with retention of teachers.

Hawaii-Dept of Health $363
HIV Care Services Training and Education
Cyril K Goshima Department of Psychiatry

Hawaii-Dept of Health $58,000
State of Hawaii Department of Health Family Health Services Division Maternal & Child Health Grant Women's Health Section-Family Planning Program
Denise Cohen Chancellor, Maui Community College
To provide subsidized family planning services for women and men, as well as additional training for staff with regards to family planning.

Hawaii-Dept of Health $4,000
Family Planning Services FY 09
Carolyn Lesnett Vice Chancellor for Student Affairs-UHH
Provide family planning services/health services to the students at UH Hilo

Hawaii-Dept of Labor & Industrial Relations $230,000
Hawaii Family Support 360 Project
Rebecca S Ozaki Center on Disability Studies
To address the issue of access to appropriate and available services within our community for transitioning students 16 years of age and older and their family members on the island of Oahu County of Honolulu, Windward District.

Hawaii-Dept of Labor & Industrial Relations $233,365
Training Services for the Employment and Training Fund Program (ETF)
Pamela Fujita-Starck Outreach College
To provide workforce training to provide and/or enhance the occupational knowledge skills of incumbent workers and others eligible for ETF-funded training services.
### Gifts, Grants, and Contracts for January 2009

#### Non-Research

**Hawaii- Government Agencies**

<table>
<thead>
<tr>
<th>Agency</th>
<th>Contract Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hawaii-Dept of Labor &amp; Industrial Relations</td>
<td>Procurement of Various Training Services Pursuant to RFP No. DLIR/WDD 2009-01.</td>
<td>$4,500</td>
</tr>
<tr>
<td>Carol A Hoshiko</td>
<td>Chancellor, Kapiolani Community College</td>
<td></td>
</tr>
<tr>
<td></td>
<td>To provide various training services pursuant to RFP No. DLIR/WDD 2009-01 for greater education and training program opportunities to employers and participants to enable proficiency in the workplace and to become competitive in the global market.</td>
<td></td>
</tr>
<tr>
<td>Hawaii-Dept of Labor &amp; Industrial Relations</td>
<td>Training Services for the Employment and Training Fund Program</td>
<td>$10,056</td>
</tr>
<tr>
<td>Suzette T Robinson</td>
<td>Chancellor, Maui Community College</td>
<td></td>
</tr>
<tr>
<td></td>
<td>To assist employers and workers (ETF participants) by providing them with opportunities such as: business-specific training, upgrade training, new occupational skills, and management skills to improve long-term employability of Hawaii's people.</td>
<td></td>
</tr>
<tr>
<td>Hawaii-Dept of Labor &amp; Industrial Relations</td>
<td>HawCC Employment &amp; Training (RFP No. DLIRWDD 2009-01, ETF #14)</td>
<td>$15,034</td>
</tr>
<tr>
<td>Sara Narimatsu</td>
<td>Chancellor, Hawaii Community College</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HawCC OCET will provide DLIR approved workforce training classes for incumbent workers.</td>
<td></td>
</tr>
<tr>
<td>Hawaii-Dept of Labor &amp; Industrial Relations</td>
<td>State of Hawaii Dept. of Labor and Industrial Relations, Workforce Development DivisionRFP DLIR/WDD 2009-01, ETF #15</td>
<td>$21,300</td>
</tr>
<tr>
<td>Beryl Morimoto</td>
<td>Chancellor, Honolulu Community College</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Honolulu Community College will provide training for employers on Oahu who need to upgrade the skills of their current workforce so they can meet the demands of the changing work environment.</td>
<td></td>
</tr>
<tr>
<td>Hawaii-Dept of Labor &amp; Industrial Relations</td>
<td>Employment &amp; Training Fund Approved Training Site</td>
<td>$10,000</td>
</tr>
<tr>
<td>M Bernadette Howard</td>
<td>Chancellor, Windward Community College</td>
<td></td>
</tr>
<tr>
<td></td>
<td>To provide education and training opportunities for State of Hawaii Employment Training Fund eligible students.</td>
<td></td>
</tr>
<tr>
<td>Hawaii-Dept of Labor &amp; Industrial Relations</td>
<td>Kauai Community College, Proposal to Provide Training Services for the Employment &amp; Training Fund Program, RFP No. DLIR/WDD 2009-01</td>
<td>$9,933</td>
</tr>
<tr>
<td>Helen A Cox</td>
<td>Chancellor, Kauai Community College</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kauai Community College approves the scope of work as indicated in the proposal to become and an eligible training provider for the Employment Training Fund.</td>
<td></td>
</tr>
<tr>
<td>Hawaii-Dept of Labor &amp; Industrial Relations</td>
<td>Tourism Workforce Coordination Project</td>
<td>$85,000</td>
</tr>
<tr>
<td>Russell K Uyeno</td>
<td>School of Travel Industry Management</td>
<td></td>
</tr>
<tr>
<td></td>
<td>To provide staff and support services for tourism workforce coordination initiatives of the Tourism Workforce Development Master Plan for Implementation: 2007-2015 of the Hawaii Tourism Authority (HTA).</td>
<td></td>
</tr>
</tbody>
</table>
Gifts, Grants, and Contracts for January 2009

Non-Research

Hawaii- Government Agencies

Hawaii-Dept of Land & Natural Resources
Maintenance of Research and Services by the Hawaii Cooperative Fishery Research Unit
Charles Birkeland Department of Zoology
Hawaii Cooperative Fishery Research Unit will administer and advise graduate student research, teach graduate courses, and do research on topics of importance to the State of Hawaii.

Hawaii-Dept of Land & Natural Resources
Management of Invasive Species Data, Phase II
Kevin D Hopkins Pacific Aquaculture-UHH
Technical support and database development to the invasive species community in Hawaii

Hawaii-Dept of Transportation
Hawaii Community College Court Monitoring Program
Douglas Dykstra Chancellor, Hawaii Community College
Court Monitoring Program 3rd year grant renewal application to gather and evaluate OVUII/DUI cases in the Third Circuit Court - Kona Division to improve the way the Hawaii County criminal justice system processes and adjudicates defendants and affecting change to decrease the number of OVUII/DUI arrests, traffic crashes and fatalities in the County of Hawaii.

Hawaii-Executive Office on Aging
Caregiver's Resource Initiative
Wesley L W Lum School of Social Work
To be the Caregiver's Resource Initiative state level project leader.

Hawaii-State Foundation on Culture & the Arts
Manoa: A Pacific Journal of International Writing - 2009
R F Stewart Department of English
Publication of four issues of international literary journal.

Hawaii-State Foundation on Culture & the Arts
Growing Interest - 2009
Joseph S Patti Chancellor, Leeward Community College
Present performances and workshops/lectures for public.

Hawaii-State Foundation on Culture & the Arts
Pacific New Media-2009
Susan I Horowitz Outreach College
Workshops and public talks on film/video, photography, digital imaging, and web design.

Hawaii-State Foundation on Culture & the Arts
Special Exhibitions Program 2009
Lisa Yoshihara Department of Art and Art History
Two exhibitions and catalogs for: "Writing with Thread: Traditional Textiles of Southwest Chinese Minorities" and "The 10th International Shoebox Sculpture Exhibition."
Gifts, Grants, and Contracts for January 2009

Non-Research

Hawaii- Government Agencies

Hawaii-State Foundation on Culture & the Arts
World Performance Series - 2009
Timothy Roy Slaughter Outreach College
Presentation of performances, workshops and outreach activities by touring artists.

Hawaii-State Foundation on Culture & the Arts
Intersections Visiting Artist and Scholar Program - 2009
Jaimey Hamilton College of Arts and Humanities
Funding for a lecture and residency series of visiting artists and scholars.

Hawaii- Health Organizations

Kalihi-Palama Health Center
Reimbursement Agreement - FY2009, Agreement No. SF09-KPHC-OB-GYN
Lynnae K Millar Department of Obstetrics, Gynecology, and Women's Health
Salary, Fringe Benefit & Malpractice reimbursement agreement to provide physician and physician related services for FY 2009.

Kuakini Medical Center
Salary Fringe Benefit & Malpractice Insurance Agreement - FY2008, Agreement No. SF08-KUAKINI-SURG
Danny M Takanishi Department of Surgery
Salary, Fringe Benefit & Malpractice reimbursement agreement to provided physician and physician related services for FY 2008.

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

Maui PACE
Service Contract Between Hale Makua/Maui Pace and Maui Oral Health Center.
Nancy K Johnson Chancellor, Maui Community College
Provide dental services to the individuals enrolled in the Maui PACE community health care program on a fee for service basis using Medicaid fee schedule.

Waianae Coast Comprehensive Health Center
Waianae Health Academy--Ola Loa Ka Naauao
David A Ringuette Chancellor, Windward Community College
Offer agriculture classes leading to a Certificate of Completion --Agricultural Technology at Waianae Coast Comprehensive Health Center.

<table>
<thead>
<tr>
<th>Organization</th>
<th>Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>$14,628</td>
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<td>$6,298</td>
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<td>$236,761</td>
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<td>$37,500</td>
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<tr>
<td>$59,163</td>
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</tbody>
</table>
Gifts, Grants, and Contracts for January 2009

Non-Research

Hawaii- Non-Profit Organizations

Institute for Native Pacific Education & Culture
  Coordination of the Evaluation of SPARK-Hawaii Year 5
  Morris K Lai  Curriculum Research and Development Group
  Coordinate the evaluation of the project's fifth year. Work includes data collection, analysis, development of database programs, and evaluation report writing.

University of Hawaii Foundation
  Myron Pinky Thompson Chair
  Marjorie K H Mau  Department of Native Hawaiian Health
  To develop a research and training program on health disparities in Native Hawaiian and other underserved populations.

University of Hawaii Foundation
  Maunalua Bay Coastal and Watershed Coordinator
  Darren T Lerner  Sea Grant College Program
  This project will complement and expand upon the ongoing work by Malama Maunalua and its partners in restoring a healthy, sustainable, and resilient ecosystem in the bay and the watersheds that support it.

University of Hawaii Foundation
  GIS S&F Agreement
  Patricia Blanchette  Department of Geriatric Medicine
  Salary and Fringe Benefit Expenses for Geriatric Inpatient Teaching Services.

University of Hawaii Foundation
  ADRC S&F Agreement
  Patricia Blanchette  Department of Geriatric Medicine
  Salary and Fringe Benefit Expenses for Alzheimer's Disease Referral Clinic (ADRC) Services.

University of Hawaii Foundation
  Sumida River Production Project
  W Dennis Carroll  Department of Theatre and Dance
  To pay for hiring of student assistants to help with building of the set for the production of “Sumida River.”

University of Hawaii Foundation
  International Longevity Center
  Cullen Hayashida  Chancellor, Kapiolani Community College
  Expand gerontology program by creating an entry level paraprof training.

Mainland- Business and Other

Pacific Radiation Oncology, Inc
  Reimbursement Agreement - FY2009, Agreement No. SF09-PRO-SURG
  Danny M Takanishi  Department of Surgery
  Salary, Fringe Benefit & Malpractice reimbursement agreement to provide physician and physician related services for FY 2009.
Gifts, Grants, and Contracts for January 2009

Non-Research

Mainland- Non-Profit Organizations

Consortium for Oceanographic Rsrch & Educ (CORE) $7,500
Hawaii Regional Ocean Sciences Bowl 2008
Tara Hicks Johnson School of Ocean and Earth Science and Technology
Organize and host the 2008 Hawaii Regional Ocean Sciences Bowl in Honolulu.

Ocean Conservancy $14,150
Larval Response to Forecast Climate Change
Ruth D Gates Hawaii Institute of Marine Biology
This study will examine the effects of climate change (increased temperature and ocean acidification) on coral larvae.

National Science Foundation $499,999
Roots, Resilience, and Reach: Strengthening the STEM Infrastructure at Kapiolani Community College, University of Hawaii
Leon Richards Chancellor, Kapiolani Community College
To develop a Science, Technology, Engineering and Math (STEM) Pipeline of support services, faculty and curriculum development so that a growing number of Hawaiian and underrepresented students can successfully pursue STEM majors and careers.

US Colleges and Universities $75,000
Operation Military Kids
Claire M Nakatsuka College of Tropical Agriculture and Human Resources
Supplemental funds specifically for camp activities for military families affected by deployment.

University of Rhode Island $26,052
Pearl Farming in East Africa: an End to Poverty
Maria C. Haws Pacific Aquaculture-UHH
Assist in the development of an ecological and economically sustainable small enterprise system for half-pearls in Tanzania

Subcount: 61 Subtotal: $8,031,498
Count: 114 Total: $16,921,864
# Funds Received from UH Foundation for 01/01/2009 - 01/31/2009

## Non-Research

### Hawaii- Non-Profit Organizations

<table>
<thead>
<tr>
<th>University of Hawaii Foundation</th>
<th>$16,025</th>
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<tbody>
<tr>
<td>&quot;ADRC S&amp;F Agreement&quot;</td>
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<tr>
<td>Blanchette, Patricia</td>
<td>Department of Geriatric Medicine</td>
</tr>
<tr>
<td>Salary and Fringe Benefit Expenses for Alzheimer's Disease Referral Clinic (ADRC) Services.</td>
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<table>
<thead>
<tr>
<th>University of Hawaii Foundation</th>
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<tbody>
<tr>
<td>&quot;GIS S&amp;F Agreement&quot;</td>
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<tr>
<td>Blanchette, Patricia</td>
<td>Department of Geriatric Medicine</td>
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<tr>
<td>Salary and Fringe Benefit Expenses for Geriatric Inpatient Teaching Services.</td>
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</table>

<table>
<thead>
<tr>
<th>University of Hawaii Foundation</th>
<th>$4,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Sumida River Production Project&quot;</td>
<td></td>
</tr>
<tr>
<td>Carroll, W Dennis</td>
<td>Department of Theatre and Dance</td>
</tr>
<tr>
<td>To pay for hiring of student assistants to help with building of the set for the production of &quot;Sumida River.&quot;</td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>University of Hawaii Foundation</th>
<th>$11,000</th>
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</thead>
<tbody>
<tr>
<td>&quot;International Longevity Center&quot;</td>
<td></td>
</tr>
<tr>
<td>Hayashida, Cullen</td>
<td>Chancellor, Kapiolani Community College</td>
</tr>
<tr>
<td>Expand gerontology program by creating an entry level paraprof training.</td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>University of Hawaii Foundation</th>
<th>$30,000</th>
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</thead>
<tbody>
<tr>
<td>&quot;Maunalua Bay Coastal and Watershed Coordinator&quot;</td>
<td></td>
</tr>
<tr>
<td>Lerner, Darren T</td>
<td>Sea Grant College Program</td>
</tr>
<tr>
<td>This project will complement and expand upon the ongoing work by Malama Maunalua and its partners in restoring a healthy, sustainable, and resilient ecosystem in the bay and the watersheds that support it.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>University of Hawaii Foundation</th>
<th>$440,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Myron Pinky Thompson Chair&quot;</td>
<td></td>
</tr>
<tr>
<td>Mau, Marjorie K H</td>
<td>Department of Native Hawaiian Health</td>
</tr>
<tr>
<td>To develop a research and training program on health disparities in Native Hawaiian and other underserved populations.</td>
<td></td>
</tr>
</tbody>
</table>

## Research

### Hawaii- Non-Profit Organizations

<table>
<thead>
<tr>
<th>University of Hawaii Foundation</th>
<th>$35,000</th>
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</thead>
<tbody>
<tr>
<td>&quot;Preserving Hawaii's Culturally Significant Native Plants&quot;</td>
<td></td>
</tr>
<tr>
<td>Dunn, Christopher</td>
<td>Lyon Aboretum</td>
</tr>
<tr>
<td>To preserve Hawaii's Culturally Significant Native Plants.</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>University of Hawaii Foundation</th>
<th>$7,500</th>
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<tbody>
<tr>
<td>&quot;Real Time, Non-Invasive Lung Water Monitoring&quot;</td>
<td></td>
</tr>
<tr>
<td>Iskander, Magdy F.</td>
<td>Hawaii Center for Advanced Communications</td>
</tr>
<tr>
<td>To develop a fundamental understanding of the microwave method for measuring changes in lung water content by pursuing both the clinical/physiological and engineering advances of this technology which was originally developed by our group.</td>
<td></td>
</tr>
</tbody>
</table>
Funds Received from UH Foundation for 01/01/2009 - 01/31/2009

Research

Hawaii- Non-Profit Organizations

<table>
<thead>
<tr>
<th>University of Hawaii Foundation</th>
<th>$2,500</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Landscape Research&quot;</td>
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</tr>
<tr>
<td>Paull, Robert E</td>
<td></td>
</tr>
<tr>
<td>Department of Tropical Plant and Soil Sciences</td>
<td></td>
</tr>
<tr>
<td>Assist in landscape program outreach in developing educational materials.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>University of Hawaii Foundation</th>
<th>$598,425</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;DNA Barcoding of Endemic Hawaiian Species&quot;</td>
<td></td>
</tr>
<tr>
<td>Price, Donald</td>
<td>Biology-UHH</td>
</tr>
<tr>
<td>Validity of DNA barcoding of recently derived species is understood based on the testing of endemic species in the Hawaiian archipelago and especially the young Hawaii Island</td>
<td></td>
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</tbody>
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Count: 10

Total: $1,162,602
Extramural Research Awards
for the Month of
January 2009
Distribution by Sponsors

<table>
<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
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<tr>
<td>DHHS-Dept of Health and Human Services</td>
<td>2</td>
<td>$764,409</td>
<td>8.60%</td>
</tr>
<tr>
<td>DOC-Dept of Commerce</td>
<td>2</td>
<td>$54,988</td>
<td>0.62%</td>
</tr>
<tr>
<td>DOD-Department of Defense</td>
<td>7</td>
<td>$563,208</td>
<td>6.34%</td>
</tr>
<tr>
<td>DOE-Dept of Energy</td>
<td>2</td>
<td>$790,833</td>
<td>8.90%</td>
</tr>
<tr>
<td>DOI-Dept of Interior</td>
<td>2</td>
<td>$32,000</td>
<td>0.36%</td>
</tr>
<tr>
<td>Foreign</td>
<td>2</td>
<td>$329,202</td>
<td>3.70%</td>
</tr>
<tr>
<td>Hawaii- Business and Other</td>
<td>1</td>
<td>$160,400</td>
<td>1.80%</td>
</tr>
<tr>
<td>Hawaii- Government Agencies</td>
<td>8</td>
<td>$1,256,220</td>
<td>14.13%</td>
</tr>
<tr>
<td>Hawaii- Health Organizations</td>
<td>2</td>
<td>$349,824</td>
<td>3.93%</td>
</tr>
<tr>
<td>Hawaii- Non-Profit Organizations</td>
<td>5</td>
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<tr>
<td>Mainland- Business and Other</td>
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<td>$310,672</td>
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<tr>
<td>Mainland- Health Organizations</td>
<td>1</td>
<td>$84,000</td>
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<tr>
<td>Mainland- Non-Profit Organizations</td>
<td>1</td>
<td>$17,996</td>
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</tr>
<tr>
<td>National Aeronautics and Space Administration</td>
<td>3</td>
<td>$2,093,184</td>
<td>23.54%</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>5</td>
<td>$864,050</td>
<td>9.72%</td>
</tr>
<tr>
<td>US Colleges and Universities</td>
<td>5</td>
<td>$525,955</td>
<td>5.92%</td>
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<tr>
<td><strong>Total:</strong></td>
<td><strong>53</strong></td>
<td><strong>$8,890,366</strong></td>
<td><strong>100%</strong></td>
</tr>
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</table>
Extramural Non-Research Awards for the Month of January 2009
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>$316,000</td>
<td>3.93%</td>
</tr>
<tr>
<td>DOC-Dept of Commerce</td>
<td>2</td>
<td>$163,825</td>
<td>2.04%</td>
</tr>
<tr>
<td>DOI-Dept of Interior</td>
<td>2</td>
<td>$277,364</td>
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</tr>
<tr>
<td>Federal Agencies</td>
<td>1</td>
<td>$12,500</td>
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</tr>
<tr>
<td>Foreign</td>
<td>2</td>
<td>$29,000</td>
<td>0.36%</td>
</tr>
<tr>
<td>Hawaii- Business and Other</td>
<td>3</td>
<td>$1,427,808</td>
<td>17.78%</td>
</tr>
<tr>
<td>Hawaii- Government Agencies</td>
<td>31</td>
<td>$4,234,599</td>
<td>52.72%</td>
</tr>
<tr>
<td>Hawaii- Health Organizations</td>
<td>5</td>
<td>$350,289</td>
<td>4.36%</td>
</tr>
<tr>
<td>Hawaii- Non-Profit Organizations</td>
<td>7</td>
<td>$555,877</td>
<td>6.92%</td>
</tr>
<tr>
<td>Mainland- Business and Other</td>
<td>1</td>
<td>$41,535</td>
<td>0.52%</td>
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<tr>
<td>Mainland- Non-Profit Organizations</td>
<td>2</td>
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<td>0.27%</td>
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<tr>
<td>National Science Foundation</td>
<td>1</td>
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<td>6.23%</td>
</tr>
<tr>
<td>US Colleges and Universities</td>
<td>2</td>
<td>$101,052</td>
<td>1.26%</td>
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</table>

Total: 61 $8,031,498 100%
Extramural Research Awards
Year to Date: 07/01/08 - 01/31/09
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>61</td>
<td>$6,798,696</td>
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<tr>
<td>DHHS-Dept of Health and Human Services</td>
<td>65</td>
<td>$40,018,966</td>
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<tr>
<td>DOC-Dept of Commerce</td>
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<td>DOD-Department of Defense</td>
<td>49</td>
<td>$28,387,762</td>
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<tr>
<td>DOE-Dept of Energy</td>
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<td>DOI-Dept of Interior</td>
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<tr>
<td>Hawaii- Business and Other</td>
<td>23</td>
<td>$3,352,429</td>
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<tr>
<td>Hawaii- Government Agencies</td>
<td>103</td>
<td>$14,753,050</td>
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<td>Hawaii- Health Organizations</td>
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<tr>
<td>Hawaii- Non-Profit Organizations</td>
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<td>Mainland- Business and Other</td>
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<td>$472,578</td>
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<tr>
<td>Mainland- Non-Profit Organizations</td>
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<tr>
<td>Miscellaneous</td>
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<tr>
<td>National Aeronautics and Space Administration</td>
<td>46</td>
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<tr>
<td>National Science Foundation</td>
<td>69</td>
<td>$18,478,240</td>
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<tr>
<td>US Colleges and Universities</td>
<td>43</td>
<td>$3,844,096</td>
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<tr>
<td><strong>Total:</strong></td>
<td><strong>701</strong></td>
<td><strong>$170,947,163</strong></td>
<td><strong>100%</strong></td>
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</tbody>
</table>
Extramural Non-Research Awards
Year to Date: 07/01/08 - 01/31/09
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>16</td>
<td>$4,237,277</td>
<td>4.16%</td>
</tr>
<tr>
<td>DHHS-Dept of Health and Human Services</td>
<td>27</td>
<td>$8,067,030</td>
<td>7.92%</td>
</tr>
<tr>
<td>DOC-Dept of Commerce</td>
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<td>$1,502,530</td>
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<tr>
<td>DOD-Department of Defense</td>
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<tr>
<td>DOI-Dept of Interior</td>
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<td>$1,746,864</td>
<td>1.71%</td>
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<tr>
<td>ED-Dept of Education</td>
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<td>$27,744,169</td>
<td>27.23%</td>
</tr>
<tr>
<td>Federal Agencies</td>
<td>18</td>
<td>$4,811,507</td>
<td>4.72%</td>
</tr>
<tr>
<td>Foreign</td>
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<tr>
<td>Hawaii- Business and Other</td>
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<td>Hawaii- Government Agencies</td>
<td>122</td>
<td>$21,048,135</td>
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<tr>
<td>Hawaii- Health Organizations</td>
<td>30</td>
<td>$6,521,081</td>
<td>6.40%</td>
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<tr>
<td>Hawaii- Non-Profit Organizations</td>
<td>58</td>
<td>$3,348,625</td>
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<tr>
<td>Mainland- Business and Other</td>
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<td>Mainland- Health Organizations</td>
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<tr>
<td>Mainland- Non-Profit Organizations</td>
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<td>1.97%</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>11</td>
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<tr>
<td>US Colleges and Universities</td>
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<td>$2,411,475</td>
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<tr>
<td><strong>Total:</strong></td>
<td><strong>509</strong></td>
<td><strong>$101,904,869</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>
Gifts, Grants, and Contracts for February 2009

The following gifts, grants and contracts received by all campuses during the period February 1, 2009 through February 28, 2009 total $15,582,841.

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

Research

DHHS-Dept of Health and Human Services

National Cancer Institute/NIH/DHHS $2,098,591
   Multiethnic Cohort Study of Diet and Cancer (VDPP: Rarer Cancers)
   Laurence N Kolonel Cancer Research Center
   The goal of this supplemental project is to examine the relationship of vitamin D to the risk of several less common cancers.

National Cancer Institute/NIH/DHHS $236,555
   Role of Cell Mediators in Asbestos - SV40 Carcinogenesis
   Michele Carbone Cancer Research Center
   This proposal will be studying the hypothesis that asbestos and SV40 are co-carcinogens in causing malignant mesothelioma.

National Institutes of Health/DHHS $78,826
   A Pooled Analysis of Mammographic Density and Breast Cancer Risk
   Gertraud Maskarinec Cancer Research Center
   This project will provide new information on how body weight affects breast cancer risk related to breast density. These findings will be useful for breast cancer risk estimation and breast cancer prevention.

National Institutes of Health/DHHS $297,781
   Effects of Soy on Estrogens in Breast Fluid and Urine
   Gertraud Maskarinec Cancer Research Center
   Examine two alternate hormonal mechanisms of action for soy: modification of estrogen levels and epithelial cells directly in the breast and modulation of urinary estrogen metabolite patterns.

DOD-Department of Defense

Department of the Air Force $5,695
   Operations and Management of the Maui Supercomputing Center
   David K Lassner Information Technology Services
   Cost reimbursement award term contract for research, development, operations and management of the Maui Supercomputing Center.

Department of the Air Force $92,000
   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 Supercomputing Center.

Department of the Air Force $2,530
   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 Supercomputing Center.

Department of the Air Force $489,775
   Operations and Management of the Maui Supercomputing Center
   David K Lassner Information Technology Services
Gifts, Grants, and Contracts for February 2009

Research

DOD-Department of Defense

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

<table>
<thead>
<tr>
<th>Department of the Navy</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantification of the Interacting Physical, Biological, Optical and Chemical Properties of Thin Layers in the Sea</td>
<td>$16,527</td>
</tr>
<tr>
<td>Margaret Anne McManus</td>
<td>Department of Oceanography</td>
</tr>
<tr>
<td>To continue and achieve the goals set forth in our funded proposal, &quot;Quantification of the Interacting Physical, Biological, Optical and Chemical Properties of Thin Layers in the Sea.&quot;</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Department of the Navy</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tropical Cyclone Genesis and Sudden Changes of Trade and Intensity in the Western Pacific</td>
<td>$10,000</td>
</tr>
<tr>
<td>Bin Wang</td>
<td>Department of Meteorology</td>
</tr>
<tr>
<td>This proposal addresses a number of important issues relating to sudden changes in the track, storm scale structure, and intensity of the tropical cyclones in the western Pacific.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department of the Navy</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment supplement to Project Remote Monitoring of Dolphins and Whales in the High Naval Activity Areas in Hawaiian Waters</td>
<td>$28,216</td>
</tr>
<tr>
<td>Whitlow W L Au</td>
<td>Hawaii Institute of Marine Biology</td>
</tr>
<tr>
<td>Procure acoustic releases for 1,000 m depth.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department of the Navy</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Tropical Cyclone Genesis Forecast Model</td>
<td>$58,800</td>
</tr>
<tr>
<td>Tim Li</td>
<td>Department of Meteorology</td>
</tr>
<tr>
<td>To construct a tropical cyclone genesis model based on a nonlinear logistic method with the use of NOGAPS analysis and forecast fields.</td>
<td></td>
</tr>
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</table>

DOE-Dept of Energy

<table>
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<tr>
<th>Department of Energy</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Marine Renewable Energy Center in Hawaii</td>
<td>$978,048</td>
</tr>
<tr>
<td>Richard E Rocheleau</td>
<td>Hawaii Natural Energy Institute</td>
</tr>
<tr>
<td>Conduct RD&amp;D to promote the demonstration and commercialization of wave and other ocean power systems in Hawaii.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department of Energy</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>Development of new Biomarkers for Surficial Earth Processes</td>
<td>$107,428</td>
</tr>
<tr>
<td>Hope Jahren</td>
<td>Department of Geology and Geophysics</td>
</tr>
<tr>
<td>To investigate: the stable isotope signature of terrestrial biomarkers, when contextualized according to the composition of whole organism and fortified with knowledge about general biochemistry, comprises a chemical signature that integrates over the lifetime of the organism, or the pedogenic development of the soil.</td>
<td></td>
</tr>
</tbody>
</table>
Gifts, Grants, and Contracts for February 2009

Research

DOI-Dept of Interior

Department of Interior $15,000
Hawaiian Forest Bird Research (Fed)
Sharon Ziegler-Chong Pacific Aquaculture-UHH
Research focusing on changes in the abundance and distribution of forest birds

U.S. Fish & Wildlife Service/Department of the Interior $4,320
Impact of Invasive Ants on Biota of Hawaiian Coastal Communities
Kenneth Y Kaneshiro Pacific Biosciences Research Center
To provide services for wildlife management and to enhance the survivorship and productivity of seabirds on Oahu offshore island seabird sanctuaries.

U.S. Geological Survey/Department of the Interior $70,000
Palila Restoration Research 2009
Sharon Ziegler-Chong Pacific Aquaculture-UHH
Continue to analyze data, write reports, and monitor the palila population

U.S. Geological Survey/Department of the Interior $15,000
Hawaiian Forest Bird Research: Publishing Bird Trends
Sharon Ziegler-Chong Pacific Aquaculture-UHH
Complete data analysis and production of reports on the status and distribution of Hawn forest birds, including population estimates, distribution maps, and trends analysis

U.S. Geological Survey/Department of the Interior $147,299
HCSU Unit Support & General Activities 2009
Sharon Ziegler-Chong 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

U.S. Geological Survey/Department of the Interior $10,000
Koa Ohia Community Ecology: Food Webs
Sharon Ziegler-Chong Pacific Aquaculture-UHH
Identify major arthropod prey of forest birds, including their young and the bat using microscopic examination of stomach lavage (birds) and fecal samples (birds and bat)

Hawaii- Business and Other

Hawaii Council for the Humanities $9,749
Ha Kam Wi Tawk Pidgin Yet? Researching Local Identity Through Language
Christina M Higgins Department of Second Language Studies
This project will research the learning experiences of Oahu high school students as they research local identity by investigating how Hawai’i Creole (Pidgin) is used in their communities. The research will involve interviews and monitoring of students’ learning journals as they participate in a classroom project together.
Gifts, Grants, and Contracts for February 2009

Research

Hawaii- Business and Other

Hawaii Ocean Technologies, Inc. $30,096
Development of Hatchery Stock in Bigeye Tuna
Kevin D Hopkins Pacific Aquaculture-UHH
Creation of hatchery stock in bigeye tuna

Hawaiian Shellfish, LLC $256,850
Development of Bivalve Hatchery Methods for Hawaii
Maria C. Haws Pacific Aquaculture-UHH

Hawaii- Government Agencies

DLNR-Division of Aquatic Resources $29,979
Grazer Impacts on Invasive Algae
Celia M Smith Department of Botany
This proposal will aid the Division of Aquaculture Resources, Department of Land and Natural Resources manage invasive alien algae by providing information on which algae particular fish species eat.

Hawaii-Dept of Health $299,980
State Prevention Framework State Incentive Grant Evaluation
Sylvia H L Yuen Center on the Family
Conduct evaluation of key processes and outcomes of the Hawaii State Prevention Framework State Incentive Grant Project (SPF-SIG) at the state, community, and program levels.

Hawaii-Dept of Health $59,160
State Prevention Framework State Incentive Grant (SPF SIG) Epidemiology
Claudio R Nigg Office of Public Health Studies
The contract will be with the State of Hawaii, Department of Health, Alcohol and Drug Abuse Division, to provide epidemiological support for the Hawaii Strategic Prevention Framework State Incentive Grant (HI SPF-SIG) project, which is designed to reduce substance abuse in Hawaii.

Hawaii-Dept of Land & Natural Resources $15,000
Hawaiian Forest Bird Publishing
Sharon Ziegler-Chong Pacific Aquaculture-UHH
Research focusing on changes in the abundance and distribution of forest birds

Hawaii-Dept of Land & Natural Resources $113,255
Kauai Endangered Forest Bird Conservation Research and Management
David C Duffy Department of Botany
Continue research and field management to restore the endangered Puaiohi and other endangered native Kauai forest birds.
Gifts, Grants, and Contracts for February 2009

Research

Hawaii- Government Agencies

Hawaii-Dept of Land & Natural Resources
  Coordination of the Ko’olau Mountains Watershed Partnership, FY 09
  Clifford W Morden  Department of Botany
  Coordinate the research and management of watershed conservation in the Koolau Mountains on Oahu.

Hawaii- Health Organizations

University Clinical, Education & Research Assoc. (UCERA)  $81,000
  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.

University Clinical, Education & Research Assoc. (UCERA)  $91,279
  UCERA - Telehealth Development
  Lawrence P A Burgess  John A. Burns School of Medicine
  Provide administrative direction and general support for development of research activities for the Telehealth Research Institute’s projects.

Hawaii- Non-Profit Organizations

Big Island RC&D Council, Inc  $15,950
  Korean Natural Farming: A New Waste Management System for Small Swine Farms
  Michael W Duponte  Department of Human Nutrition, Food and Animal Sciences
  Study of a waste management system for swine.

HCF-Medical Research Funds  $50,000
  Impedance Cardiography Versus Echocardiography to Monitor Cardiac Function Before, During and After Labor
  Janet Burlingame  Department of Obstetrics, Gynecology, and Women’s Health
  Significant maternal structural/physiological changes occur during pregnancy, but have been mostly studied using invasive or echo-based techniques. Measurements of cardiac function at three times points during pregnancy, namely, prior to labor, during labor, and postpartum, will be statistically similar whether they are read using impedance cardiography or echocardiography.

Learning Disabilities Association of Hawaii (LDAH)  $30,000
  LDAH Preschool Screening Project
  Jean Lee Johnson  Center on Disability Studies
  Analyze data provided by the LDAH Project “Ekolu Eha Ike Pono“ to assess short-term outcomes and project outcomes, which shall include the following measurement indicators.

University of Hawaii Foundation  $2,000
  Seafloor Hydrothermal Research
  Fernando Martinez  Hawaii Institute of Geophysics and Planetology
  Further the instructional and research objectives of the University of Hawaii with the study of seafloor hydrothermal systems including sea-going expeditions, student training, and research into the formation, nature and evolution of seafloor hydrothermal systems.
Gifts, Grants, and Contracts for February 2009

Research

Mainland- Business and Other

AmericaView $23,989

StateView Program Development and Support for the State of Hawaii
Robert Wright
Hawaii Institute of Geophysics and Planetology
Promoting the use of satellite remote sensing in the State of Hawaii through education, outreach and research.
Archive satellite data relevant to the State of Hawaii.

Black and Veatch $8,000

Island of Hawaii Wood Resource Assessment for HELCO
Charles M Kinoshita College of Tropical Agriculture and Human Resources
Estimate the sustainable wood supply on the Big Island that could be used as a fuel source by Hawaii Electric Company for the generation of electric power.

Genzyme Corporation $25,214

TGF Beta Investigation in Mesothelioma Specimens
Michele Carbone Cancer Research Center
The purpose of this investigation is to access the presence of TGF beta and its receptor in different mesothelioma specimens obtained from humans, hamster, and mice.

Incode Biopharmaceuticals $135,691

Experimental and Preclinical Evaluation of HC3-1496
Carl-Wilhelm Vogel Cancer Research Center
The human C3/cobra venom factor hybrid protein, HC3-1496 is able to exhaustively activate serum complement in vitro and in vivo in primates with no harm to the animal. The goal of this work is to examine different expression systems for the production of the protein, and to examine efficacy in disease models. The ultimate goal is to start clinical trials of the protein as a therapeutic.

Novo Nordisk, Inc $109,147

(LEAD-3):Effect on Glycemic Control of Two Doses of Liraglutide versus Glimepiride in Type 2 Diabetes [A 52-Weekly (with 52-Week Open-Label ¿
Richard F Arakaki Department of Medicine
To assess and compare the efficacy of Liraglutide monotherapy versus glimepiride monotherapy on glycemic control in subjects with Type 2 diabetes previously treated with diet and exercise or single oral antidiabetic agent at not more than half-maximum recommended dosage for at least two months.

Pfizer Inc., U.S. Pharmaceuticals Group $13,810

An Observational Follow-up Study of Patients Previously Enrolled in Exubera Controlled Clinical Trials
Richard F Arakaki Department of Medicine
This is a non-interventional, data collection study that will follow-up with patients previously participating in controlled clinical trials of the Pfizer product Exubera.

Seagate Technology LLC $62,256

Burst-Error-Correcting Codes for Data Storage Channels
Aleksandar Kavcic Department of Electrical Engineering
Develop burst error correcting capabilities for quasi-cyclic LDPC codes for use in data storage channels.
Generalize the approach to guarantee not only correction of a single long error burst, but also that of multiple short bursts. Evaluate all performances on intersymbol interference channels representative of realistic data storage systems.
Gifts, Grants, and Contracts for February 2009

Research

Mainland- Business and Other

Seagate Technology LLC $48,612
Burst-Error-Correcting Codes for Data Storage Channels
Aleksandar Kavcic Department of Electrical Engineering
Develop burst error correcting capabilities for quasi-cyclic LDPC codes for use in data storage channels. Generalize the approach to guarantee not only correction of a single long error burst, but also that of multiple short bursts. Evaluate all performances on intersymbol interference channels representative of realistic data storage systems.

Mainland- Non-Profit Organizations

Alzheimer's Drug Discovery Foundation $85,000
New Methods to Explore Marine Resources for Alzheimer's Disease Drug Leads
Philip Williams Department of Chemistry
Development of an Alzheimer's screening assay.

Broad Medical Research Program $109,423
The Relationship of a "Crohn's Disease Diet" in Reducing Symptoms of Crohn's Disease, Improving Quality of Life, and Decreasing Health Care Costs
Amy C. Brown Department of Human Nutrition, Food and Animal Sciences
This pilot clinical trial will determine whether a newly developed "Crohn's disease diet" derived from evidence-based medline research is an effective complementary treatment for Crohn's disease.

National Aeronautics and Space Administration

National Aeronautics & Space Administration $78,375
Mineralogical Mapping of the Moon
Paul Lucey Hawaii Institute of Geophysics and Planetology
Use remote sensing to study the composition of the lunar surface.

National Aeronautics & Space Administration $215,000
Support Services, Maintenance and Calibration of the TLRS-4 System
Jeffrey R. Kuhn Institute for Astronomy
To continue the history of Haleakala as one of two fixed, well-defined geometric reference points in NASA's tectonic motion data solution.

National Aeronautics & Space Administration $3,700,000
The NASA IRTF: Solar Systems Observations and Mission Support
Rolf-Peter Kudritzki Institute for Astronomy
To collaborate with the National Aeronautics and Space Administration in providing the necessary engineering, operations, maintenance and administrative services to operate and support the Infrared Telescope Facility at Mauna Kea, Hawaii including improvements to the instrumentation and the telescope optical and mechanical systems.

National Aeronautics & Space Administration $267,724
The NASA Infrared Telescope Facility: Mission Support and Solar System Observations
Alan Tokunaga Institute for Astronomy
Gifts, Grants, and Contracts for February 2009

Research

National Aeronautics and Space Administration

We propose to provide NASA with observations and research data aimed at providing support of spacecraft missions and basic research in support of the Planetary Astronomy program.

National Science Foundation

National Science Foundation

Collaborative Research: Biodiversity Survey of Freshwater Algae of the Hawaiian Islands
Alison Ruth Sherwood Department of Botany
We propose to document the biodiversity of freshwater and subaerial algae in the main Hawaiian Islands through a combination of collecting expeditions, morphological and molecular characterization of samples. We will organize and disseminate our data through a specially designed internet-accessible database.

National Science Foundation

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

National Science Foundation

Functional Approaches to the Origin of the Bilaterally Symmetrical Body Plan in Animal Development
Mark Q. Martindale Pacific Biosciences Research Center
To document anatomical features of bilateral symmetry in the nervous system of "simple" animals (sea anemones) and to investigate whether the molecular basis for bilaterality is the same in this group as it is in "higher" animals.

National Science Foundation

CAREER: Secure Communication via Source and Channel Randomness
Yingbin Liang Department of Electrical Engineering
Theoretical research in information security.

National Science Foundation

A Comparison of Aerosol Organic Carbon Measurements and Models in the Free Troposphere at MLO
Barry J Huebert Department of Oceanography
We are proposing to measure carbon-containing aerosol particles (OC) at the Mauna Loa Observatory, to determine how important these particles are for radiative forcing of climate. We will also conduct a comparison between the OC we measure and the OC predicted by several numerical aerosol models.

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.
Gifts, Grants, and Contracts for February 2009

Research

US Colleges and Universities

University of Louisiana $89,702

Seamount Octocoral Taxonomy: Subcontract to U Louisiana - Lafayette
Les Watling Department of Zoology
Identify and describe all species of octocorals collected on NOAA OE sponsored cruises and new material collected during Bahamas cruise in 2009.

University of New Mexico $29,059

Direct and In Situ Determination of Immobilized Activity and Loading
Michael J Cooney Hawaii Natural Energy Institute
In this work it is proposed to use 1) quantitative fluorescence and 2) imaging ellipsometry coupled to quartz crystal microbalance to quantify immobilized enzyme and loading.

Subcount: 57 Subtotal: $11,849,056

Non-Research

DHHS-Dept of Health and Human Services

DOH-Public Health Service $86,000
Family Planning Services at UH Hilo (Fed)
Carolyn Lesnett Vice Chancellor for Student Affairs-UHH
Provide family planning services to students/faculty at UH Hilo

DOD-Department of Defense

Air Force Office of Scientific Research $55,000
A Radar Calibration Nanosatellite
Wayne Akira Shiroma Department of Electrical Engineering
Train undergraduate students through design and build of a radar calibration nanosatellite.

Federal Agencies

NOAA-National Ocean Service (NOS) $87,000
Dean John A. Knauss Marine Policy Fellowship
Darren K Okimoto Sea Grant College Program
Provide educational experience in the policies and processes of the legislative and executive branches of the federal government to graduate students in marine and aquatic-related fields.

Foreign

CNMI Governor's Council on DD (Northern Marianas) $28,000
CNMI Family Service Center (FSC)
Robert A Stodden Center on Disability Studies
Provide training and support for staff, family members, and local service providers. Develop FSC publications. Plan annual family support conferences. Evaluate family services and training, Disseminate information about CNMI FSC. Develop local financial and systems supports.
Gifts, Grants, and Contracts for February 2009

Non-Research

Foreign

KEK High Energy Accelerator Research Organization
TARGET: Next Generation Readout ASIC: High Performance Waveform Sampling
Gary S Varner Department of Physics and Astronomy
Supply TARGET ASIC, a 17 channel waveform sampler (16 channels + 1 reference), including testing, documentation and extensive engineering application support.

Western Indian Ocean Marine Science Association
Pearl Farming & Jewelry Making in Zanzibar: Empowering Women Economically
Maria C. Haws Pacific Aquaculture-UHH
Build capacity among women pearl farmers and jewelry makers and the technical assistance providers that support their efforts

Hawaii- Business and Other

Kamehameha Schools
Provide Academic and Skill Training Support for CNA to LPN to RN Pathway
Jamie A. Boyd Chancellor, Windward Community College
Providing training, classroom instruction and internships in the field of Certified Nurse Aide.

Kamehameha Schools
Provide Academic and Skill Training Support for CNA to LPN to RN Pathway
Jamie A. Boyd Chancellor, Windward Community College
Providing training, classroom instruction and internships in the field of Certified Nurse Aide.

Kamehameha Schools
Provide Academic and Skill Training Support for CNA to LPN to RN Pathway
Jamie A. Boyd Chancellor, Windward Community College
Providing training, classroom instruction and internships in the field of Certified Nurse Aide.

Malama Kahalawai Inc
Habitat Protection and Restoration of the West Maui Mountains: Kapilau Ridge
Clifford W Morden Department of Botany
Complete ungulate proof fences to protect endangered critical habitats on Kapilau ridge in west Maui.

Research Corp, University of Hawaii
Triple Helix Online Community Support
Daniel D Suthers Department of Information and Computer Sciences
Provide software development, hosting and support for Triple Helix online community.

Resource Mapping, LLC
Weed Mapping Image Interpretation
Gail M Makuakane-Lundin Vice Chancellor for Student Affairs-UHH
Training Native Hawaiian students at UHH and HawCC to analyze aerial imagery for invasive plant species mapping

$70,000
$20,520
$163,907
$177,028
$187,785
$25,000
$27,992
$6,000
Gifts, Grants, and Contracts for February 2009

Non-Research

Hawaii- Business and Other

Resource Mapping, LLC
  Weed Mapping Image Interpretation
  Gail M Makuakane-Lundin  Vice Chancellor for Student Affairs-UHH
  Training Native Hawaiian students at UHH and HawCC to analyze aerial imagery for invasive plant species mapping

Hawaii- Government Agencies

County of Maui
  Expansion of Allied Health Programs at Maui Community College.
  Nancy K Johnson  Chancellor, Maui Community College
  Continue expanded enrollments in Allied Health Department nursing and dental assisting program and admit students to new AS Dental Hygiene Program.

County of Maui
  Maui Community Care Corps
  Clyde M Sakamoto  Chancellor, Maui Community College
  Implement activities to increase workforce and promote a home and community based services system for older persons and people with disabilities.

Hawaii-Dept of Health
  HTH-560-CW-002, Title X Family Planning Services University of Hawaii-Kauai Community College Campus Wellness Center
  Charlene Ono  Chancellor, Kauai Community College
  Expand family planning services to high-risk populations and community education through outreach.

Hawaii-Dept of Health
  Family Planning Services at UH Hilo
  Carolyn Lesnett  Vice Chancellor for Student Affairs-UHH
  Provide family planning services to students/faculty at UH Hilo

Hawaii-Dept of Human Services
  Divert At-Risk Youth from Incarceration
  Marilyn Brown  Social Sciences-UHH - Division Office
  Provide evaluation services for Ke Kama Pono Safe House Program

Hawaii-Dept of Land & Natural Resources
  Hawaii Shoreline Specialist Position
  E Gordon Grau  Sea Grant College Program
  Provide technical assistance on shoreline location criteria around the state in collaboration with the State Dept. of Land & Natural Resources and the Dept. of Accounting & General Services.

Hawaii-Dept of Land & Natural Resources
  Assistant Extension Agent/Coastal Lands Specialist
  E Gordon Grau  Sea Grant College Program
Gifts, Grants, and Contracts for February 2009

Non-Research

Hawaii- Government Agencies

Provide assistance on important issues of coastal hazards, mapping, beach nourishment, coastal erosion mitigation and coastal dependent development utilizing traditional extension methods.

Hawaii-Dept of Land & Natural Resources

Assistant Extension Agent/Coastal Lands Specialist

E Gordon Grau, Sea Grant College Program

Provide assistance on important issues of coastal hazards, mapping, beach nourishment, coastal erosion mitigation and coastal dependent development utilizing traditional extension methods.

Hawaii-Dept of Land & Natural Resources

Supersucker Technologies and Kaneohe Bay Restoration

Celia M Smith, Department of Botany

This proposal will aid the Division of Aquatic Resources, Department of Land and Natural Resources by allowing presentation of collaborative research at a national meeting.

Hawaii-Dept of Land & Natural Resources

Conservation Management for Rare Plant Species within Kauai Hunting Units

David C Duffy, Department of Botany

Support maintenance of ungulate-proof fences in state natural area reserves hunting units, and outplant endangered native plants and control invasive plants.

Hawaii-Dept of Land & Natural Resources

GIS Assessment of Forest Conditions and Long-term Resource Strategy

Tomoaki Miura, Department of Natural Resources and Environmental Management

The Department of Natural Resources and Environmental Management (NREM) at the University of Hawaii at Manoa will assist DLNR by assigning part-time research intern to conduct research, geographic information system (GIS) analysis, and technical writing for the Assessment and Strategy.

Hawaii-Dept of Transportation

Historic Report on Kawaiii Bridge

Spencer Leineweber, School of Architecture

Historic report concerning the eligibility of Kawaiii Bridge to the National Register of Historic Places.

Hawaii-State Foundation on Culture & the Arts

ARTS FIRST Evaluation for the SFCA

Paul R Brandon, Curriculum Research and Development Group

Evaluate the Artists in the Schools and the Artistic Teaching Partners programs for the ARTS FIRST Partners.

Maui-Off of Economic Development

Maui Island Sustainable Living Exposition (Maui ISLExpo)

Clyde M Sakamoto, Chancellor, Maui Community College

The 1st Annual Maui ISLExpo will offer: a variety of presentations and panel discussions from leading
Gifts, Grants, and Contracts for February 2009

Non-Research

Hawaii- Government Agencies

- sustainability experts; eco-documentary screenings; edutainment and sustainability-related exhibits; and healthy, local foods and Hawaiian cultural learning opportunities. This event will be open to the public. A significant attendance from a diverse audience is expected.

Maui-Off of Economic Development

UH-CTAHR Extension and Research Projects in Maui County FY2009

- Harold H Keyser, College of Tropical Agriculture and Human Resources
- Conduct extension and research activities in Maui County by CTAHR faculty that benefit the agricultural community, enhance the environment, and promotes healthy communities.

Hawaii- Health Organizations

- Hawaii Medical Service Assoc Foundation
- Epocrates/PDA Grant Proposal
- Ronald Taniguchi, Chancellor, University of Hawaii at Hilo-UHH
- Provide hardware and software tools to pharmacy students during their formative educational phase.

Hawaii- Non-Profit Organizations

- Hawaii Hotel & Restaurant Industry Empl & Trng Trst (HARIETT)
- Hotel and Restaurant Industry Training
- Carol A Hoshiko, Chancellor, Kapiolani Community College
- The HARIETT program is tasked to coordinate with DLIR Apprenticeship Division to ensure proper registration and standards are met. The program provides pre-apprenticeship, post-apprenticeship and related instructions. The two main responsibilities of the office is to monitor Daily Progress Reports and provide the proper developmental on-the-job training hours and classes.

- Tri-Isle Resource Conservation & Development Council
- Expanding Forest Recovery Project to Upper Hana Forest Reserve: Phase 1, Initiation of Upper Hana Forest Reserve Fence Background and Project Overview
- Clifford W Morden, Department of Botany
- Protect upper Hana Forest Reserve from ungulate damage.

- University of Hawaii Foundation
- Contemporary Challenges in Microbial Oceanography
- David M Karl, Department of Oceanography
- To train the next generation of scientists in the discipline of microbial oceanography.

- University of Hawaii Foundation
- Confucius Institute Support
- Rosita Ping-Hwa Chang, Center for Chinese Studies
- Provides salaries and fringe benefits for Confucius Institute support personnel, and misc. office expenses and express mail payments for CI office operations.
Gifts, Grants, and Contracts for February 2009

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation

Teaching Korean Pronunciation
Mee Jeong Park
Department of East Asian Languages and Literatures
Pay for Graduate Research assistant salary.

$1,000

University of Hawaii Foundation

Osher Lifelong Learning Institute
Richard A Dubanoski
College of Social Sciences
To provide partial funding for Director of the Osher Lifelong Learning Institute for the period 04/01/08 - 03/31/09.

$49,795

University of Hawaii Foundation

Teaching Korean Pronunciation
Mee Jeong Park
Department of East Asian Languages and Literatures
Pay for Graduate Research assistant salary.

$2,000

University of Hawaii Foundation

English Language Training Capacity at Hanoi University, Vietnam Fund
Tung X Bui
Shidler College of Business
Strengthen English language pedagogy & capacity in Vietnam.

$58,000

University of Hawaii Foundation

Journal of Natural Resources Policy Research
Chennat Gopalakrishnan
Department of Natural Resources and Environmental Management
To launch a new journal in the field of natural resources and environmental policy, "Journal of Natural Resources Policy Research", to be edited by Professor Chennat Gopalakrishnan of the Department of Natural Resources and Environmental Management at UH Manoa. Work will involve a variety of editorial activities connected with journal publication.

$5,000

University of Hawaii Foundation

UH Sea Grant College Program Extension Coordinator
E Gordon Grau
Sea Grant College Program
To establish a position for a UH Sea Grant College Program Extension Coordinator to be primarily dedicated to the Waikiki Ecosystem Restoration Project.

$52,307

University of Hawaii Foundation

Hawaii Family Support Institute
Jon K Matsuoka
School of Social Work
To provide support of Hawaii Family Support Institute projects.

$21,870
Gifts, Grants, and Contracts for February 2009

Non-Research

Mainland- Business and Other

Boeing Laser Technical Services

NFIRE Lasercom

Daniel Ogara Institute for Astronomy

Provide electrical and computer cables to Maui facility. Provide access to 2 technicians to Maui facility.

Mainland- Non-Profit Organizations

Lawrence University, ArtsBridge America

University of Hawaii at Manoa ArtsBridge America Teaching Internship

Amy Schiffner Art Dept-UHH

UHM students will partake in pre-service teaching internships at local elementary schools. The focus of the internship is to bring arts education back into classroom curriculum. Intern teachers will work side by side with experienced classroom teachers and ArtsBridge mentors to develop and implement highly effective arts integrated lessons.

National Aeronautics and Space Administration

National Aeronautics & Space Administration

Lunar Analog Field Demonstration

Franklin Schowengerdt Natural Sciences-UHH

National Science Foundation

National Science Foundation

Invention Factory

Thomas W Speitel Curriculum Research and Development Group

CRDG with Archimedes Hawaii will establish a three-year workshop and summer training program for teenagers to participate in hands-on production of accessible electronics and Information Technology for the handicapped and elderly. The goal is to encourage the pursuit of careers in science and engineering by students who are underrepresented in those fields.

US Colleges and Universities

Jackson State University

C-More Stars Internship Program

Barbara Bruno Department of Oceanography

This internship program aims at promoting diversity in the geosciences, particularly among Native Hawaiians, Pacific Islanders and other students from under-represented groups. The content focus is microbial oceanography. Students will be closely supervised by faculty mentors.

Kirkwood Community College

Community College Summit Initiative Program (CCSIP)

Leon Richards Chancellor, Kapiolani Community College

Provide quality educational programs, professional development, employment skills and first-hand understanding of American society to underserved, non-elite international students to enable them to contribute to their home nation’s future economic and democratic development.
Gifts, Grants, and Contracts for February 2009

Non-Research

US Colleges and Universities

Kirkwood Community College

Community College Summit Initiative Program (EGYPT)

Leon Richards
Chancellor, Kapiolani Community College

Provide quality educational programs, professional development, employment skills and first-hand understanding of American society to underserved, non-elite international students to enable them to contribute to their home nation's future economic and democratic development.

University of Rhode Island

Sustainable Coastal Communities

Maria C. Haws
College of Agriculture, Forestry-UHH

University of Wyoming

SARE Professional Development Program Plan for Hawaii - Annual Budget Request

Jonathan L Deenik
Department of Tropical Plant and Soil Sciences

To provide workshops, demonstrations, and educational materials about soil quality, cover cropping and alternative marketing for CES and NRCS training.

Subcount: 49
Subtotal: $3,733,785

Count: 106
Total: $15,582,841
Funds Received from UH Foundation for 02/01/2009 - 02/28/2009

Non-Research

Hawaii- Non-Profit Organizations

University of Hawaii Foundation $58,000
"English Language Training Capacity at Hanoi University, Vietnam Fund"
Bui, Tung X Shidler College of Business
Strengthen English language pedagogy & capacity in Vietnam.

University of Hawaii Foundation $10,000
"Confucius Institute Support"
Chang, Rosita Ping-Hwa Center for Chinese Studies
Provides salaries and fringe benefits for Confucius Institute support personnel, and misc. office expenses and express mail payments for CI office operations.

University of Hawaii Foundation $49,795
"Osher Lifelong Learning Institute"
Dubanoski, Richard A College of Social Sciences
To provide partial funding for Director of the Osher Lifelong Learning Institute for the period 04/01/08 - 03/31/09.

University of Hawaii Foundation $5,000
"Journal of Natural Resources Policy Research"
Gopalakrishnan, Chennat Department of Natural Resources and Environmental Management
To launch a new journal in the field of natural resources and environmental policy, "Journal of Natural Resources Policy Research", to be edited by Professor Chennat Gopalakrishnan of the Department of Natural Resources and Environmental Management at UH Manoa. Work will involve a variety of editorial activities connected with journal publication.

University of Hawaii Foundation $52,307
"UH Sea Grant College Program Extension Coordinator"
Grau, E Gordon Sea Grant College Program
To establish a position for a UH Sea Grant College Program Extension Coordinator to be primarily dedicated to the Waikiki Ecosystem Restoration Project.

University of Hawaii Foundation $25,000
"Contemporary Challenges in Microbial Oceanography"
Karl, David M Department of Oceanography
To train the next generation of scientists in the discipline of microbial oceanography.

University of Hawaii Foundation $21,870
"Hawaii Family Support Institute"
Matsuoka, Jon K School of Social Work
To provide support of Hawaii Family Support Institute projects.

University of Hawaii Foundation $2,000
"Teaching Korean Pronunciation"
Park, Mee Jeong Department of East Asian Languages and Literatures
Pay for Graduate Research assistant salary.
Funds Received from UH Foundation for 02/01/2009 - 02/28/2009

Non-Research

Hawaii- Non-Profit Organizations

<table>
<thead>
<tr>
<th>University of Hawaii Foundation</th>
<th>$1,000</th>
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<tbody>
<tr>
<td>&quot;Teaching Korean Pronunciation&quot;</td>
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<tr>
<td>Park, Mee Jeong</td>
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</tr>
<tr>
<td>Department of East Asian Languages and Literatures</td>
<td></td>
</tr>
<tr>
<td>Pay for Graduate Research assistant salary.</td>
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</table>

Research

Hawaii- Non-Profit Organizations

<table>
<thead>
<tr>
<th>University of Hawaii Foundation</th>
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<tbody>
<tr>
<td>&quot;Seafloor Hydrothermal Research&quot;</td>
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<tr>
<td>Martinez, Fernando</td>
<td></td>
</tr>
<tr>
<td>Hawaii Institute of Geophysics and Planetology</td>
<td></td>
</tr>
<tr>
<td>Further the instructional and research objectives of the University of Hawaii with the study of seafloor hydrothermal systems including sea-going expeditions, student training, and research into the formation, nature and evolution of seafloor hydrothermal systems.</td>
<td></td>
</tr>
<tr>
<td>Count: 10</td>
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<tr>
<td>Total: $226,972</td>
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Extramural Research Awards
for the Month of
February 2009
Distribution by Sponsors

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<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHHS-Dept of Health and Human Services</td>
<td>4</td>
<td>$2,711,753</td>
<td>22.89%</td>
</tr>
<tr>
<td>DOD-Department of Defense</td>
<td>8</td>
<td>$703,543</td>
<td>5.94%</td>
</tr>
<tr>
<td>DOE-Dept of Energy</td>
<td>2</td>
<td>$1,085,476</td>
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<tr>
<td>DOI-Dept of Interior</td>
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<td>$261,619</td>
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</tr>
<tr>
<td>Hawaii- Business and Other</td>
<td>3</td>
<td>$296,695</td>
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</tr>
<tr>
<td>Hawaii- Government Agencies</td>
<td>6</td>
<td>$598,374</td>
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<tr>
<td>Hawaii- Health Organizations</td>
<td>2</td>
<td>$223,660</td>
<td>1.89%</td>
</tr>
<tr>
<td>Hawaii- Non-Profit Organizations</td>
<td>4</td>
<td>$97,950</td>
<td>0.83%</td>
</tr>
<tr>
<td>Mainland- Business and Other</td>
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<td>$426,719</td>
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<tr>
<td>Mainland- Non-Profit Organizations</td>
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<tr>
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<tr>
<td>National Science Foundation</td>
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<tr>
<td>US Colleges and Universities</td>
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<td>$118,761</td>
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</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>57</strong></td>
<td><strong>$11,849,056</strong></td>
<td><strong>100%</strong></td>
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Extramural Non-Research Awards for the Month of February 2009 Distribution by Sponsors

<table>
<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHHS-Dept of Health and Human Services</td>
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<td>$86,000</td>
<td>2.30%</td>
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<tr>
<td>DOD-Department of Defense</td>
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<td>$55,000</td>
<td>1.47%</td>
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<tr>
<td>Federal Agencies</td>
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<td>$87,000</td>
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</tr>
<tr>
<td>Foreign</td>
<td>3</td>
<td>$118,520</td>
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<tr>
<td>Hawaii- Business and Other</td>
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<td>$593,712</td>
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<tr>
<td>Hawaii- Government Agencies</td>
<td>15</td>
<td>$1,510,800</td>
<td>40.46%</td>
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<tr>
<td>Hawaii- Health Organizations</td>
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<td>2.02%</td>
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<tr>
<td>Hawaii- Non-Profit Organizations</td>
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<td>$367,009</td>
<td>9.83%</td>
</tr>
<tr>
<td>Mainland- Business and Other</td>
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<td>$15,000</td>
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<tr>
<td>Mainland- Non-Profit Organizations</td>
<td>1</td>
<td>$8,000</td>
<td>0.21%</td>
</tr>
<tr>
<td>National Aeronautics and Space Administration</td>
<td>1</td>
<td>$40,000</td>
<td>1.07%</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>1</td>
<td>$179,838</td>
<td>4.82%</td>
</tr>
<tr>
<td>US Colleges and Universities</td>
<td>5</td>
<td>$597,400</td>
<td>16.00%</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>49</strong></td>
<td><strong>$3,733,785</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>


Extramural Research Awards  
Year to Date: 07/01/08 - 02/28/09  
Distribution by Sponsors

<table>
<thead>
<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
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</thead>
<tbody>
<tr>
<td>DA-Dept of Agriculture</td>
<td>61</td>
<td>$6,798,696</td>
<td>3.72%</td>
</tr>
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<td>DHHS-Dept of Health and Human Services</td>
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<td>$42,730,719</td>
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<td>DOC-Dept of Commerce</td>
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<td>DOD-Department of Defense</td>
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<tr>
<td>DOE-Dept of Energy</td>
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<td>DOI-Dept of Interior</td>
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<td>Hawaii- Government Agencies</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>Mainland- Non-Profit Organizations</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>Total:</strong></td>
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<td><strong>$182,796,219</strong></td>
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## Extramural Non-Research Awards

**Year to Date: 07/01/08 - 02/28/09**

**Distribution by Sponsors**

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<tr>
<th>AGENCY-UNIT</th>
<th>NO. OF AWARDS</th>
<th>AMOUNT</th>
<th>PERCENT</th>
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<tr>
<td>DA-Dept of Agriculture</td>
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<tr>
<td>DHHS-Dept of Health and Human Services</td>
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<tr>
<td>ED-Dept of Education</td>
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<td>Hawaii- Non-Profit Organizations</td>
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<td>Mainland- Non-Profit Organizations</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>Total:</strong></td>
<td><strong>558</strong></td>
<td><strong>$105,638,654</strong></td>
<td><strong>100%</strong></td>
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</table>
Consent Agenda for Indemnity Provisions
Attachment

Indemnity Provision – University of Hawai‘i (UH) and the Smithsonian Astrophysical Observatory – Agreement #1

The Smithsonian Astrophysical Observatory (SAO) has issued a subaward to UH in the amount of $52,839.00 from its prime agreement with the National Aeronautics and Space Administration (NASA) to conduct a study entitled, "The Distribution and Interaction of Luminous and Dark Matter in Strong-Lensing Clusters at z>0.3" (hereafter referred to as "Project"). The SAO is a research institute of the Smithsonian Institution.

The current period of performance of the Project is from January 6, 2009 to July 31, 2010. However, if NASA extends the period of performance on its prime award to SAO, SAO plans to extend the period of performance on the UH subaward to January 5, 2011.

Dr. Harald Ebeling (hereafter "PI"), a member of the UH graduate faculty affiliated with the UH Institute for Astronomy (IfA), will lead the Project. Under the Project, the PI plans to analyze and develop data that will enable researchers to better understand the evolutionary history and dynamic state of galaxy clusters.

Under this award, the PI will analyze data provided by SAO. This data will be transmitted over the Internet from an orbiting x-ray telescope on a space-borne observatory, traveling about a thousand miles above the earth.

The PI or his graduate assistant may travel to the Big Island for the purpose of conducting observations with telescopes on Mauna Kea. These observations need to be planned and proposed to the UH Telescope Time Allocation Committee. The PI will decide whether to initiate this process after he completes the analysis of data provided by SAO.

If observation time on the Mauna Kea telescope is applied for and approved, the PI's primary role will be to determine and control the observational parameters that will maximize the scientific usefulness of the data to be obtained from the observation. The PI will not operate the telescope. A trained technician will perform this task. Interactions between the PI and the technician and other staff supporting the telescopes are limited to oral and electronic communications. According to the IfA, no technician or other staff supporting the telescopes at Mauna Kea has ever suffered any harm or injury from the types of interactions anticipated in the performance of this Project.

The subaward agreement between UH and SAO contains a provision which reads as follows:

D. General Release

Award Recipients are responsible for all actions taken or not taken in the performance of the activities under this Award, and the Smithsonian Institution and NASA expressly disclaim any responsibility to any third party therefor. Further, to the extent allowable by law, the Award Recipient agrees to hold both the Smithsonian and NASA harmless from, and to accept all responsibility for, any harm suffered by anyone arising out of actions of the Award Recipient or its employees, agents, and representatives if visiting SAO.
As stated in the contract, UH will be undertaking the work under this award as an independent contractor, not as an employee of the Smithsonian Institution or NASA. In addition, UH is insured against the types of risk that might be incurred under this award, such as an accident while traveling to Mauna Kea.

As described, the PI or his graduate assistant paid under the award may travel to Mauna Kea observatories to acquire data for the Project. All other work will be performed at the Institute for Astronomy, located at 2680 Woodlawn Drive and part of the UH Manoa Campus. No employee, agent or representative of the award recipient (UH) will travel to SAO in Cambridge, Massachusetts under this award. Thus, "harm" suffered during such visits will not occur.

Another provision in the subaward agreement between UH and SAO states:

B. Indemnification

The Award Recipient agrees not to make any claim against the U.S. Government, NASA, or the Smithsonian Institution, its Regents, directors, officers, employees, volunteers, licensees, representatives and agents, with respect to activities under this Award for the injury or death of its employees or of contractor or subcontractor employees, or to the loss of its property or that of its contractors and subcontractors, whether such injury, death, damage or loss arises through negligence or otherwise, except in the case of willful misconduct.

Although the title of this clause is "indemnification," this provision is an agreement not to file a claim against the U.S. Government, NASA, or the Smithsonian Institute. Since, with respect to the activities to be performed under this award, UH does not envision a circumstance under which it would want to bring a claim against any of these entities for the injury or death of UH employees or to the loss of its property, and since UH will not hire contractors or subcontractors under this award, we do not believe that this provision is problematic.

If a Mauna Kea telescope technician files a claim against the U.S. Government, NASA, or the Smithsonian Institution, then under this provision, UH might be required to indemnify the U.S. Government, NASA, or the Smithsonian Institution. However, for reasons detailed above, it is extremely unlikely that a technician or other support staff will incur injury or death from any activities performed under this award, or that a claim would be filed against the U.S. Government, NASA, or the Smithsonian Institution. According to the IFA, no such claim has ever been filed against a Mauna Kea observer. For this award, it is highly unlikely that the indemnity clause will be invoked.

For these reasons, it is requested that the Board of Regents approve the acceptance of the two provisions in the subaward agreement between UH and SAO.
Consent Agenda for Indemnity Provisions
Attachment

Indemnity Provision – University of Hawai‘i (UH) and the Smithsonian Astrophysical Observatory – Agreement #2

The Smithsonian Astrophysical Observatory (SAO) has issued a subaward to UH in the amount of $28,281.00 from its prime agreement with the National Aeronautics and Space Administration (NASA) to conduct a study entitled, "MACSJ1147.3-1252: An Extremely X-ray Luminous Cluster at z=0.58?" (hereafter referred to as "Project"). The SAO is a research institute of the Smithsonian Institution.

The current period of performance of the Project is from February 19, 2009 to July 31, 2010. However, if NASA extends the period of performance on its prime award to SAO, SAO plans to extend the period of performance on the UH subaward to February 18, 2011.

Dr. Harald Ebeling (hereafter “PI”), a member of the UH graduate faculty affiliated with the UH Institute for Astronomy (IfA), will lead the Project. Under the Project, the PI plans to explore a potentially luminous galaxy cluster, which appears to be one of only a handful of extremely massive galaxy clusters, in an attempt to confirm its importance as a prime target for future in-depth cosmological and cluster evolution research. This study will contribute to the understanding of the evolutionary history and dynamic state of galaxy clusters.

Under this award, the PI will analyze data provided by SAO. This data will be transmitted over the Internet from an orbiting x-ray telescope on a space-borne observatory, traveling about a thousand miles above the earth.

The PI or his graduate assistant may travel to the Big Island for the purpose of conducting observations with telescopes on Mauna Kea. These observations need to be planned and proposed to the UH Telescope Time Allocation Committee. The PI will decide whether to initiate this process after he completes the analysis of data provided by SAO.

If observation time on the Mauna Kea telescope is applied for and approved, the PI’s primary role will be to determine and control the observational parameters that will maximize the scientific usefulness of the data to be obtained from the observation. The PI will not operate the telescope. A trained technician will perform this task. Interactions between the PI and the technician and other staff supporting the telescopes are limited to oral and electronic communications. According to the IfA, no technician or other staff supporting the telescopes at Mauna Kea has ever suffered any harm or injury from the types of interactions anticipated in the performance of this Project.

The subaward agreement between UH and SAO contains a provision which reads as follows:

D. General Release

Award Recipients are responsible for all actions taken or not taken in the performance of the activities under this Award, and the Smithsonian Institution and NASA expressly disclaim any responsibility to any third party therefor. Further, to the extent allowable by law, the Award Recipient agrees to hold both the Smithsonian and NASA harmless from, and to accept all responsibility for,
any harm suffered by anyone arising out of actions of the Award Recipient or its employees, agents, and representatives if visiting SAO.

As stated in the contract, UH will be undertaking the work under this award as an independent contractor, not as an employee of the Smithsonian Institution or NASA. In addition, UH is insured against the types of risk that might be incurred under this award, such as an accident while traveling to Mauna Kea.

As described, the PI or his graduate assistant paid under the award may travel to Mauna Kea observatories to acquire data for the Project. All other work will be performed at the Institute for Astronomy, located at 2680 Woodlawn Drive and part of the UH Manoa Campus. No employee, agent or representative of the award recipient (UH) will travel to SAO in Cambridge, Massachusetts under this award. Thus, "harm" suffered during such visits will not occur.

Another provision in the subaward agreement between UH and SAO states:

B. Indemnification

The Award Recipient agrees not to make any claim against the U.S. Government, NASA, or the Smithsonian Institution, its Regents, directors, officers, employees, volunteers, licensees, representatives and agents, with respect to activities under this Award for the injury or death of its employees or of contractor or subcontractor employees, or to the loss of its property or that of its contractors and subcontractors, whether such injury, death, damage or loss arises through negligence or otherwise, except in the case of willful misconduct.

Although the title of this clause is "indemnification," this provision is an agreement not to file a claim against the U.S. Government, NASA, or the Smithsonian Institute. Since, with respect to the activities to be performed under this award, UH does not envision a circumstance under which it would want to bring a claim against any of these entities for the injury or death of UH employees or to the loss of its property, and since UH will not hire contractors or subcontractors under this award, we do not believe that this provision is problematic.

If a Mauna Kea telescope technician files a claim against the U.S. Government, NASA, or the Smithsonian Institution, then under this provision, UH might be required to indemnify the U.S. Government, NASA, or the Smithsonian Institution. However, for reasons detailed above, it is extremely unlikely that a technician or other support staff will incur injury or death from any activities performed under this award, or that a claim would be filed against the U.S. Government, NASA, or the Smithsonian Institution. According to the IfA, no such claim has ever been filed against a Mauna Kea observer. For this award, it is highly unlikely that the indemnity clause will be invoked.

For these reasons, it is requested that the Board of Regents approve the acceptance of the two provisions in the subaward agreement between UH and SAO.
B Personnel Actions.

SYSTEM

Executive

MEIXELL, ANGELA C.
Interim State Director for Career and Technical Education
Reassignment
$9,834 per month
July 1, 2009 – June 30, 2010

UNIVERSITY OF HAWAI'I AT MĀNOA

Executive

BOLAND, MARY G.
Dean
School of Nursing and Dental Hygiene
Multi-Year Reappointment
$21,688 per month
April 17, 2009 – April 16, 2014

SOIFER, AVIAM
Dean
William S. Richardson School of Law
Multi-Year Reappointment
$33,594 per month
April 17, 2009 – April 16, 2014

Recommendation: That the Board approve the personnel actions as recommended.

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David McClain
President