Sarah Yuan shows the projected shift in the age distribution of Hawaii's population toward older ages, 2000-2030. Green outline represents Hawaii’s population distribution in 2000.

Research on the edge of aging

Western SARE meets in Hawaii

Tropical fruit growers set priorities
Although Congress has passed a bailout bill to prop up a beleaguered financial industry, stock markets continue to slide. Forecasts of state economy continue to decline. The Chancellor’s office has asked us to prepare for plans for a 2%, 3% and 5% budget reduction for this fiscal year. Some state agencies are planning for a 20% budget reduction. We have been through several years of expansion in our state’s economy and our college budget; unfortunately, life goes on in cycles. Global economy has reached the point of crisis. In Chinese, crisis is represented by two characters: danger and opportunity. It describes the state we are in: a dangerous time, and yet, it also presents us with an opportunity for a transformation for the future.

CTAHR was in good shape financially entering this year’s budget reduction. Next year will be more difficult. But we remain optimistic. Better days are still ahead of us! Dean Hashimoto convened three listening sessions to discuss the budget on September 29, 30 and October 2, 2008. Over 40 CTAHR faculty and staff attended to share the latest information and provide input to CTAHR’s leadership on the upcoming budget cuts. In addition to the Manoa faculty and staff, the sessions were sent to Maui, Kauai, Hilo and Kona through the Polycom. Questions and comments were recorded and will be released later on CTAHR eXchange. Please contact us if you have questions or comments regarding budget issues.

Although CTAHR is known for our agriculture roots, we do have a social science side in our college. We are pleased to introduce to you Dr. Sarah Yuan, of the Center on the Family. Dr. Yuan’s specialty is the demography of aging, and long-term care for the elderly. Her expertise is truly needed for us to serve our state’s aging population. Although new to CTAHR, Sarah has already established an active research and extension program in collaboration with other faculty and staff in the Center on the Family. We anticipate good outcomes from her team in this important area.

Lots of activities took place during the past month, including the Western SARE subregional meeting, Hawaii Tropical Fruit Growers annual meeting, as well as the Taste of Hawaiian Range, all on the Island of Hawaii. Doug Vincent has prepared separate briefings for you, in addition to his regular Calabash column. ORS has changed their grants database reporting system, from grants received to grant start dates. So we will wait for one month before we resume reporting new CTAHR grants, however, we are making good progress with grants this year.

We have been busy interviewing candidates lately. Several departments are in the final stages of recruiting new faculty. I am confident that we will have a strong cohort of new faculty soon. CTAHR continues to do great work and contributes to our community. Keep your chin up, and we will see you here again next month.
Taking a proactive approach to aging issues in Hawaiʻi

By Sarah Yuan
Assistant Specialist
UHM Center on the Family

Nurture our keiki and respect our kūpuna are cultural values that are shared by the various cultural groups residing in Hawaiʻi. However, like other states across the nation, our state faces many challenges that come with the graying of the population. In 15 years, every fifth person (approximately 300,000 people) in Hawaiʻi will be 65 years or older—an increase of 60% from the current elderly cohort. Unlike many other states, the tsunami of aging will hit our state sooner and with greater impact due to our fast growing oldest-old population. From 2000 to 2030, people 85 years old and above will increase by 175% in Hawaiʻi (versus 127% in the nation)—a projected growth rate ranks 9th among the states.

The Center on the Family takes a proactive approach to the issue of aging. Through our research on social indicators and intergenerational relationships, we contribute to the understanding of the situation that Hawaiʻi faces or will face due to population aging. We provide data and information to policymakers, program administrators, service providers, educators, and advocates to support their work that aims to improve the conditions for Hawaiʻi’s older adults and their families. We view aging as a lifelong process in which each individual actively constructs his or her life course through the choices and actions taken in a given social-historical context. Older adults are a diverse group of individuals, accumulating varying kinds and amounts of social capital and disadvantages throughout their lives, which are embedded in economic, political, social, cultural, and person-specific contexts.
Issues in aging

Is our state prepared for the challenges that an aging population will bring? The need for social and health services is likely to exceed our current capacity as the number of elderly people increases. Economic security in old age is threatened by the accelerating financial problems faced by the Social Security Administration as the ratio of workers to beneficiaries continues to drop. The long-standing affordable housing shortage will escalate if the current trend of rising poverty among older adults persists. Will our state develop in the direction that supports healthy and independent living and promotes civic engagement among older adults?

Population aging does not only concern the welfare of older adults but also affects all facets of people’s lives, whatever their ages. Family members are the major care providers for the frail elderly, but too often their unpaid caregiving is invisible in our society. Many family caregivers themselves have chronic illnesses to cope with, young children to care for, and/or need to juggle employment and caregiving responsibilities. Lacking adequate and affordable support services, many family caregivers experience physical, emotional, and financial stresses. The Medicaid program has been the major payer of costly nursing home services. While long-term care is only one of the many health services needing public funding, it consumes one-third of Medicaid expenditure, leaving the remaining two thirds for other competing needs, such as prescription drugs and out-patient, emergency, and hospital services. In the same way, the demand for a stronger social safety net for older adults competes with other demands for scarce societal resources, such as better education for children, economic diversification, and environmental sustainability.

How is an optimal allocation of scarce resources across life stages—children, young and middle adults, and the elderly—to be achieved? Will Hawai‘i be able to maintain and improve the quality of life for future generations?

Research on social indicators

Good information is the basis for sound planning and effective advocacy. Without valid and reliable data, the issues related to aging would go unnoticed or be distorted. The Center on the Family conducts social indicators research to monitor and analyze changes
in demographic, social, and economic structures that affect the quality of life of people at different life stages. My current foci in this area include: social indicators on population aging, quality of life, and community population estimation.

**Social indicators on population aging**

Building on our work related to the Data Center on Children and Families, we expanded our social indicators research to include later life. We launched a web-based Data Center on Hawai‘i’s Aging in 2006 and published Hawai‘i’s Older Adults: Demographic Profile in 2007. These were accomplished by our team, which I led, that included Director Sylvia Yuen and Program Specialist Harumi Karel, as well as eight support staff in research and information technology. Our work was supported by the Hawai‘i State Executive Office on Aging through an extramural contract.

The web-based Data Center on Hawai‘i’s Aging contains the most comprehensive collection of statistics and publications focused on the older population in our state and is the only resource of its kind in the nation (see www.uhfamily.hawaii.edu/datacenter/aging/). We report on the well-being of Hawai‘i’s older adults by collecting and analyzing indicator data across multiple domains including, demography, health, family, economic security, labor force participation, and housing. Users of our website can access trend data for these indicators from the year 2000 onward, at the national, state, and county levels. To facilitate research on local aging issues, our Data Center also includes bibliographies and abstracts of more than 600 publications related to Hawai‘i’s aging that were published since the mid-1950s. About one-third of these publications are available in printable full-text files. The website has received extremely positive reviews from users, who appreciate the comprehensive collection of information and user-friendly features, and have utilized the data in developing proposals to secure grant funds, planning curriculum and instructional assignments, and preparing legislative, accreditation, and other reports.

Our research on the characteristics and changes in Hawai‘i’s older adults was published in Hawai‘i’s Older Adults: Demographic Profile. This publication was disseminated and used throughout the state. Reporters use this report as a reference resource and have used the
data and information in articles which have appeared in the Honolulu Star-Bulletin, Honolulu Advertiser, Hawaii Business Magazine, and other media sources. The publicity has drawn public attention to the issues of aging and the needs of older adults in Hawai‘i.

**Quality of life**

Our report on Quality of Life in Hawai‘i was published in 2005 and benchmarked key economic, social, educational, health, safety, and environmental indicators for the state and four counties. The report was developed in collaboration with Aloha United Way for the purpose of informing discussions and inspiring actions among citizens, business owners, government agencies, and community and faith-based organizations to address the conditions that impact quality of life.

Since our inaugural report, interest in monitoring Hawai‘i’s quality of life has increased among state agencies and nonprofit organizations. There was unanimity among key stakeholders on the need to develop a common framework that would address the basic needs of people. Recently, the Hawaii State Department of Business, Economic Development and Tourism (DBED&T) contracted the Center on the Family to update the definitions, measures, and data that assess the quality of life in Hawai‘i. This new effort will expand our previous work by including more stakeholders in the development process and new measures that will promote economic development, enhance state and county planning, and enable social programs to assess trends in the quality of life. Our project team, which I lead, includes Director Sylvia Yuen, Assistant Specialist Shi-Jen He, and Project Specialist Prabodh Illukpitiya.

**Community population estimation**

There has been substantial demand for timely and reliable sub-county level population figures and trends from both the public and private sectors. The Center on the Family developed the first Community Profiles in 2003 that presented data on key indicators relating to population, community, family, children, and elderly for the 43 school complex areas in the state. These publications have been widely used by lawmakers, state agencies, community organizations, neighborhood boards, and others, and there is great interest among these groups in updates to the profiles. However, updating the Community Profiles more frequently than every ten years is not currently feasible because the majority of demographic data at lower than county-level geographic areas rely on the decennial censuses. Without up-to-date data at the community level,
planning, evaluation, and resource allocation decisions are often based on poor, faulty, or missing information. The challenge is to develop a feasible and cost-effective method to produce a community population estimation system that provides valid and timely data.

Recently, a research team consisting of Assistant Specialists Hosik Min, Shi-Jen He, and I received a Hatch formula research grant to develop a sustainable infrastructure for community population estimation. Our objective is to produce estimates that are precise enough to validly describe community characteristics, adaptable to changes in community boundaries, and useful to stakeholders. We will use state-of-art applied demography, social science, information technology, geographic information system, and a synergetic approach to build a small area population estimation system.

Research on intergenerational relationships
Family intergenerational relationships have been evolving over time. There is a need to better understand these changes to ensure that family support systems remain strong and healthy. My research in this area focuses on the solidarity between adult children and their aging parents. Our team, which I lead, includes Director Sylvia Yuen and Program Specialist Harumi Karel. We conducted a benchmark study in 2006 investigating the intergenerational relationships in ethnically diverse Hawai‘i. A statewide representative sample of 2,600 adult residents was interviewed via telephone survey. This was the first large-scale study in Hawai‘i that collected comprehensive information on adult child-parent relationships. The sample design enabled us to analyze selected ethnic subpopulations with good statistical precision. We also investigated patterns of intergenerational co-residence using multiple national datasets. Some of our findings were presented at national and local conferences.

Conclusion
Population aging has a profound impact on our nation and state and all facets of people’s lives. We need to prepare now for the tsunami of aging that is soon approaching. The Center on the Family takes a proactive approach to issues of aging by producing and disseminating empirically-based data and information that is needed for informed decision-making, planning, and advocacy. The synergy of working together with other stakeholders will bring us closer to realizing a better quality of life in Hawai‘i for generations to come.

Sarah C.W. Yuan
Hometown: Hong Kong
Joined CTAHR: January, 2006
Educational History: M.Sc., Applied Social Research, University of Stirling, United Kingdom, 1991; M.A., Sociology, University of Hawai‘i at Mānoa, 1998; Ph.D., Sociology, University of Hawai‘i at Mānoa, 2006.
Specialization: Demography of Aging, long-term care for the elderly, survey methods and statistics
Current Work: Social indicators research and intergenerational relationships
Languages Spoken: English, Mandarin, and Cantonese
Recent Grants: Data center on Hawai‘i’s elderly, funded by Hawai‘i State Executive Office on Aging, 2005-2006 (Co-PI).
Developing indicators for Quality of Life in Hawai‘i Report, funded by Hawai‘i State Department of Business, Economic Development and Tourism, 2008-2009 (PI).
Developing a sustainable infrastructure for community population estimation in Hawai‘i, funded by Hatch Grant, 2008-2009 (Co-PI).
The Hawaii Tropical Fruit Growers (HTFG) Association hosted its 18th Annual Meeting, September 25 – 27, 2008 in Kailua-Kona at the Outrigger Keauhou Beach Resort. CTAHR was an active participant in the meeting in support of Hawaii tropical specialty fruit growers. Two keynote speakers, Dr. Jerry DeWitt, Director, Leopold Center for Sustainable Agriculture, Iowa State University speaking on sustainable agriculture and Dr. Ed Stover, USDA ARS U.S. Horticultural Research Laboratory, Ft. Pierce, FL spoke on fig and citrus varieties. Research presentations were made on mangos by Dr. Wayne Nishijima, CTAHR; on current quarantine issues by Dr. Peter Follett, USDA ARS PBARC; by Dr. Francis Zee, USDA ARS PBARC on ohelo berry; by Drs. Mike Nagao, CTAHR TPSS, Tracie Matsumoto and Lisa Keith, USDA ARS PBARC on longan, rambutan and lychee and by Dr. Mark Wright, CTAHR PEPS, on honey bees and varroa mites. Much of the research in support of Hawaii tropical specialty fruits comes is funded by a USDA CSREES Special Research Grant to CTAHR entitled “Agricultural Diversification: Hawaii Tropical Specialty Fruit Research and Development”. Although relatively small in dollar amount, this grant provides important support for Hawaii’s specialty fruit growers. As part of the program, breakout sessions were done to identify important priorities for research and outreach for tropical specialty fruits. CTAHR faculty served as facilitators in obtaining stakeholder input, including Wayne Nishijima (CTAHR Admin), Mike Nagao (TPSS), Virginia Easton-Smith (TPSS), Cathy Chan-Halbrendt (NREM), Scot Nelson (PEPS) and Richard Manshardt (TPSS). Mike Nagao will provide more detailed summaries of the industry priorities later. Among the top priorities listed by stakeholders were:

- **Avocado**: marketing Hawaii avocados locally and expanding access to mainland market; quarantine issues; shelf life.
- **Banana**: bunchy top disease including development of a transgenic BBTV-resistant banana; need to put Hawaiian varieties into tissue culture; and to put more exotic cultivars to expand Hawaii’s market.
- **Cacao**: pest control; how to value output of crops (wet vs. dry beans); costs of production; marketing.
- **Citrus**: marketing local citrus; education for farmers, especially new farmers; new varieties for Hawaii.
- **Mango**: extending the mango season; pests and diseases; keeping tree size small; irrigation issues.
- **Moraceae (e.g. Fig, Breadfruit, Jackfruit)**: new products for Hawaii, need new cultivars and data about cultivar suitability in different environments; marketing, shelf-life and post-harvest processing.
- **Other Fruits (e.g. Dragon fruit, Guava)**: suitable cultivars for our microclimates, market development; lack of information; no central location for information.
- **Sapindaceae (e.g. Longan, Lychee, Rambutan)**: marketing and expanding markets; improved production practices; costs of production; post harvest issues of shelf life and packaging.

These priorities provide necessary stakeholder input and direction for researchers, specialists and agents working in these growers.

Thanks to Richard Johnson, President of HTFG, Ken Love, Executive Director, HTFG, Chef William Trask and his staff at the Outrigger Keauhou Beach Resort for organizing and making the meeting so successful.
Organic papaya seed production to begin at Waimanalo station

By Doug Vincent
Special Program Director for Grants and Contracts

Continuing with its efforts to support all of Hawaii agriculture, the College of Tropical Agriculture and Human Resources (CTAHR), entered a memorandum of agreement with Hawaii Cooperative of Organic Farmers (HICOF) [http://hicof.org] to produce organic papaya seed for sale to Hawaii papaya growers. The agreement was signed on September 30, 2008 by Dean Andrew Hashimoto and Mr. Al Santoro, President of HICOF and owner of Poamoho Organic Produce [http://www.poamoho-organic.com], a USDA certified organic farm on Oahu. Organic papaya seeds will be obtained from papaya trees on Mr. Santoro’s farm and grown on certified organic plots on CTAHR’s Waimanalo Experiment Station. Organic papaya seed will be then made available for sale via the Seed Program of the CTAHR Agricultural Diagnostic Service Center (ADSC) Seed Program. A training video on how to ensure purity of the organic papaya seed will be created to assist farmers who wish to grow organic papaya and minimize the risk of cross pollination with conventionally grown papaya. Present at the signing were Al and Joan Santoro, Dean Andrew Hashimoto, Associate Dean and Associate Director for Cooperative Extension Dr. Wayne Nishijima, Oahu County Administrator and ADSC Director, Mr. Ray Uchida, Dr. Richard Manshardt, Papaya Researcher and Dr. Ted Radovich, Sustainable Farming Systems Researcher, both of the Department of Tropical Plant and Soil Sciences. It will take a while to produce the seeds but once they become available, another announcement will be made.
CTAHR hosts Western Sustainable Agriculture sub-regional conference

By Doug Vincent
Special Program Director for Grants and Contracts

The USDA CSREES Sustainable Agriculture Research and Education (SARE) Program is celebrating its 20th anniversary in 2008. Emerging from the Low Input Sustainable Agriculture Program (remember LISA?), SARE was developed as a regional program [based upon USDA's four regions (West, South, Northeast, North Central)] to advance farming systems that are profitable, environmentally sound and good for communities through a research and education competitive grants program. The programs, operated regionally, but administered by USDA CSREES is under the direction of administrative councils made up of farmers and ranchers along with representatives from universities, government, agribusinesses and nonprofit organizations. The makeup of the regional administrative councils reflects SARE’s commitment to serve the broad spectrum of the agricultural community unique to that particular region. The national SARE office’s website is here: [http://www.sare.org/index.htm](http://www.sare.org/index.htm). Dr. Jill Auburn is the national SARE director and one of the functions of the national office is to operate the Sustainable Agriculture Network Discussion Group (SANET-MG) ([http://lists.sare.org/archives/sanet-mg.html](http://lists.sare.org/archives/sanet-mg.html)). The outreach arm of SARE, formerly Sustainable Agriculture Network, has transformed itself into Sustainable Agriculture Outreach. ([http://www.sare.org/about/outreach.shtml](http://www.sare.org/about/outreach.shtml)). Nationally, SARE has biennial meetings – most recently in Kansas City, MO. For more information about SARE and to see examples of SARE programs in action – download the SARE publication “Exploring Sustainability in Agriculture” ([http://www.sare.org/publications/explore/explore.pdf](http://www.sare.org/publications/explore/explore.pdf)).

In the West, the Western SARE office ([http://wsare.usu.edu/](http://wsare.usu.edu/)) is hosted by Utah State University and is directed by Dr. Phil Rasmussen. The Professional Development Program ([http://wsare.usu.edu/pdp/](http://wsare.usu.edu/pdp/)) is located at the University of Wyoming and is directed by Dr. Jim Freeburn. The Western SARE Professional Development Program was established to help agricultural professionals increase their understanding and proficiency in sustainable agriculture while encouraging cooperative learning opportunities for both producers and professionals. While there are paid staff members working in the Western SARE offices, the Western SARE Administrative Council sets guidelines, develops calls for proposals and establishes project priorities. It is the Administrative Council that...
establishes review priorities, reviews and acts on the recommendations of the technical review panels and makes recommendations to USDA CSREES on which proposals that merit funding.

In the 20th year of SARE, members of the Western SARE Administrative Council came to Hawaii along with WSARE staff came to hear from stakeholders on the impacts of the SARE program. Among the Administrative Council attending were Peg Perreault (CO); EPA representative; Cindy Lair (CO); representing the Western Association of State Directors of Agriculture; Stacie Clary (CA), Coalition for Food and Farming; non-profit representative; Rick Melnicoe (CA), Western Regional IPM Center; Chuck Boerner (HI) Farmer, ONO Organic Farm, Hana Maui; and Karl Kipers (WA), Chair of the WSARE Executive Committee and Farmer/Rancher.

Over 100 stakeholders from Hawaii and elsewhere in the Pacific were present at the Outrigger Keauhou Beach Resort on September 23-24, 2008 to provide stakeholder input. After welcomes by Phil Rasmussen and CTAHR Dean Andrew Hashimoto, Dr. Jerry DeWitt, Director of the Leopold Center for Sustainable Agriculture at Iowa State University (http://www.leopold.iastate.edu) and facilitator for the conference, gave a keynote presentation on new challenges facing sustainable agriculture.

Following were presentations from local growers involved in sustainable agriculture – Richard Ha, (Hamakua Springs Farm); Ed Boteilho (Clover Leaf Dairy) and Gary Maunakea-Forth (MA‘O Farm). Each gave their perspective on the challenges facing sustainable agriculture in Hawaii.

The participants then began their work –to brainstorm addressing six questions of concern to Western SARE. Each table had a facilitator and a recorder, and it was up to each group to address each question, have their responses recorded and to vote on the top priorities for each table. The six questions were:

1. What will be needed to create stronger local and regional food systems that are less reliant on imports from elsewhere?
2. What are the local and regional consumption and production trends in your area?
3. The SARE program was commissioned by Congress to get its research results to the farmer and rancher. Has this been a success for failure in your specific sub-region?
4. What types of research, education and development projects will be necessary over the next 10 years to help economically sustain farming and the environment?
5. If Western SARE received (from Congress) an additional $1 million per region, what types of project should be targeted or emphasized?
6. How can we (Western SARE) overcome barriers that may prevent underserved groups, including socially disadvantaged groups, from applying for and receiving SARE funding?

From every table – each response was collected, recorded and the votes counted. Find the questions and stakeholder responses here: [http://www.ctahr.hawaii.edu/vincent/WSARE_SubRegional_Question_Responses.pdf](http://www.ctahr.hawaii.edu/vincent/WSARE_SubRegional_Question_Responses.pdf). By the following day the WSARE staff had grouped and consolidated the answers to each question, established the highest priorities among the six questions. The next day, each table then voted on the consolidated priorities and reported out to the Administrative Council. Following each table’s reports, the floor was opened to all the participants to address the Council and eventually, the Council responded to the concerns raised. The stakeholder input will be combined with the other sub regional conferences (Guam, Arizona, Hawaii, Wyoming, Washington, and California) and will help establish new priorities for future Western SARE grants. Once all the sub regional priority setting conferences are completed, the new priorities will be published at the Western SARE website. The top priorities that surfaced at the Hawaii Sub regional Conference were:

- Ways of reducing on-farm inputs, fuel costs and increasing on-farm fertilizer production.
- Set up tropical sustainable demonstration farms/gardens at the community, school and family level.
- Encourage locally grown, locally marketed and locally consumed foods.
- Develop partnerships with organizations serving underserved/disadvantaged communities in regards to Western SARE grants and outreach efforts.
- On-farm education/experience of FFA, 4-H and other similar aged youth groups, dealing with sustainable agricultural techniques and practices.

Finally, thanks are in order to the following individuals and groups who helped organize the Sub regional Conference: Jonathan Deenik, TPSS, CTAHR WSARE State Coordinator; Virginia Easton-Smith, TPSS, Ty McDonald, TPSS, and Jody Smith, NREM; Jerry DeWitt for ably facilitating the conference; the Western SARE staff for their efforts to record, compile and consolidate responses and to Ron Daines of the Western SARE office for providing photographs.
Meeting participants vote on top priorities.

CTAHR Dean Andy Hashimoto, Dennis Teranishi, Hawaiian Host Chocolates, and Jerry DeWitt discussing issues related to sustainable agriculture.
## Western SARE Funding directly to CTAHR Faculty

<table>
<thead>
<tr>
<th>Year</th>
<th>PI</th>
<th>Title</th>
<th>Amount</th>
<th>Project Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>James Leary</td>
<td>Promoting adaptive management with 'Tropic Sun' sunn hemp (Crotolaria juncea) in Hawaii for ecological strategies in weed control, nematode suppression and nutrient management</td>
<td>$53,768</td>
<td>Professional Development Program</td>
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<tr>
<td>2008</td>
<td>Koon-Hui Wang</td>
<td>Sunn hemp and its allelopathic compounds for vegetable production in Hawaii and beyond</td>
<td>156,105</td>
<td>Research/Education Project</td>
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<td>2007</td>
<td>Jonathan Deenik</td>
<td>Virtual Field Days to Improve Farmer-Researcher-Extension Linkages</td>
<td>25,000</td>
<td>Research/Education Project</td>
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<td>2007</td>
<td>Ted Radovich</td>
<td>Enhancing Phytonutrient Content, Yield and Quality of Vegetables with Compost Tea in the Tropics</td>
<td>162,500</td>
<td>Research/Education Project</td>
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<td>2005</td>
<td>Cerruti Hooks</td>
<td>A Superhero without a Cape: Using the Cover Crop Sunn Hemp to Feed the Soil, Suppress Nematodes and Smother Weeds</td>
<td>7,716</td>
<td>Farmer/Rancher</td>
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<td>2004</td>
<td>Cerruti Hooks</td>
<td>Management of Banana Bunchy Tiop in Hawaii (IPM)</td>
<td>90,458</td>
<td>Research/Education Project</td>
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<td>2003</td>
<td>Samir El-Swaify</td>
<td>New Farmers: Choosing the Road Less Traveled</td>
<td>90,000</td>
<td>Professional Development Program</td>
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<td>2003</td>
<td>Richard Bowen</td>
<td>Development of a Sustainable Polyculture and Marketing System for Exotic Tropical Fruits</td>
<td>156,800</td>
<td>Research/Education Project</td>
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<td>2003</td>
<td>Susan Miyasaka</td>
<td>Cropping Systems to Control Tropical Soil-Borne Pests in Dryland-Grown Taro</td>
<td>257,827</td>
<td>Research/Education Project</td>
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<td>2000</td>
<td>Richard Bowen</td>
<td>Sustainable Pest Control for the Tropics</td>
<td>78,090</td>
<td>Professional Development Program</td>
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<td>1999</td>
<td>Janice Uchida</td>
<td>Survival of Taro: Agronomic and Pathological Research For Sustainable Production</td>
<td>148,700</td>
<td>Research/Education Project</td>
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<td>1998</td>
<td>Richard Bowen</td>
<td>Covering New Ground: Tropical Cover Crops for Improving Soil Quality</td>
<td>84,500</td>
<td>Professional Development Program</td>
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<td>1994</td>
<td>Po-Yung Lai</td>
<td>Training “Agents” in On-Farm Implementation of Sustainable Management Systems for Tropical Agriculture in Hawaii and the Pacific Region</td>
<td>89,000</td>
<td>Professional Development Program</td>
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<td>1992</td>
<td>Kent Fleming</td>
<td>Integrated Hog Farming and Market Gardening for Small Farmers in Tropical Areas of the Western Region</td>
<td>36,000</td>
<td>Research/Education Project</td>
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<td>1992</td>
<td>Kent Fleming</td>
<td>Integrated Hog Farming and Market Gardening for Small Farmers in Tropical Areas of the Western Region</td>
<td>36,000</td>
<td>Research/Education Project</td>
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16 Projects for a total: **$1,536,087**
### Western SARE Projects with CTAHR Faculty Serving as Collaborators

<table>
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<tr>
<th>Year</th>
<th>Collaborator</th>
<th>Title</th>
<th>Amount</th>
<th>Project Type</th>
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<tbody>
<tr>
<td>2007</td>
<td>Kent Fleming</td>
<td>Choosing the Best Figs for Hawaii</td>
<td>$29,704</td>
<td>Farmer/Rancher</td>
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<td>2007</td>
<td>J.B. Friday</td>
<td>New Crops for Pacific Island Agroforestry</td>
<td>80,000</td>
<td>Professional Development Program</td>
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<td>2004</td>
<td>James Szyper</td>
<td>Conversion of Fish Processing Waste to Fish/Animal Feed, Chum and Fertilizer</td>
<td>6,695</td>
<td>Farmer/Rancher</td>
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<td>2003</td>
<td>Glen Fuku-moto</td>
<td>Recovery of Tropical Pasture Systems</td>
<td>6,875</td>
<td>Farmer/Rancher</td>
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<td>2003</td>
<td>Richard Ebesu</td>
<td>DDT Removal Using Biodynamic Agricultural Records</td>
<td>6,932</td>
<td>Farmer/Rancher</td>
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<td>2003</td>
<td>Glen Fuku-moto</td>
<td>Grass-Fed Beef Education Program for Food Service Professionals</td>
<td>6,800</td>
<td>Farmer/Rancher</td>
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<td>2003</td>
<td>Roy Yamakawa</td>
<td>Neem and Papaya Fruit Extracts and Ferric Phosphate for Control of Golden Apple Snail in Wetland Taro: Efficacy Testing</td>
<td>31,831</td>
<td>Research/Education</td>
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<tr>
<td>2002</td>
<td>Richard Bowen</td>
<td>Increasing Marketable Production of Exotic Tropical Fruits with Protective Covering</td>
<td>12,500</td>
<td>Farmer/Rancher</td>
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<tr>
<td>2001</td>
<td>C.N. Lee</td>
<td>Increasing the value of products from small family farms by enriching the culinary experience of the local consumers</td>
<td>4,000</td>
<td>Farmer/Rancher</td>
</tr>
<tr>
<td>2000</td>
<td>Mike DuPonten</td>
<td>An On-Farm Educational Approach to Directly Marketing “the Other White Meat”</td>
<td>9,900</td>
<td>Farmer/Rancher</td>
</tr>
<tr>
<td>2000</td>
<td>Mike Nagao</td>
<td>Rejuvenation of a 60 Year Old Lychee Orchard by Pruning and Fertilizer Applications to Maximize Production</td>
<td>4,000</td>
<td>Farmer/Rancher</td>
</tr>
<tr>
<td>1998</td>
<td>Harry Ako</td>
<td>The Conversion of Agricultural Waste into Plant and Fish Food</td>
<td>3,400</td>
<td>Farmer/Rancher</td>
</tr>
<tr>
<td>1997</td>
<td>Kathleen Delate</td>
<td>Growing Ring-Spot Virus Free Papays Using Anti-transpirant and other Sustainable Techniques</td>
<td>4,000</td>
<td>Farmer/Rancher</td>
</tr>
<tr>
<td>1996</td>
<td>Dwight Sato</td>
<td>Sustainable Greenhouse Tomato Production: Evaluating Alternatives to Pesticide Use for Controlling Tomato Pinworm Larvae in Hawaii</td>
<td>3,520</td>
<td>Farmer/Rancher</td>
</tr>
</tbody>
</table>

**15 Projects for a total:** $213,657
The research calabash

By Doug Vincent
Special Program Director for Grants and Contracts

Budget Cuts Listening Sessions
Dean Andrew Hashimoto convened three listening sessions on September 29, 30 and on October 2, 2008 to provide information to faculty and staff about the budget cuts. Over 40 faculty and staff attended the meetings either in person or via Polycom to Maui, Kauai, Hilo and Kona. Inputs and suggestions were recorded and will be released soon.

UH Office of Research Services October Newsletter

UH ORS Offers On-Line Training for Principal Investigators
UH Office of Research Service has developed a new on-line training program for new principal investigators. (Note: “Old” investigators, current staff and even graduate students might learn a bit, too!) Provided in about 60 minutes, is an overview of the entire process for submitting, receiving and managing grants, contracts and cooperative agreements. Start here to view the on-line training: [http://www.hawaii.edu/ors/training/PI_Orientation/RM1T1P1_about_this_training.shtml](http://www.hawaii.edu/ors/training/PI_Orientation/RM1T1P1_about_this_training.shtml)

TSTAR Proposals due October 31, 2008
The TSTAR RFA for FY 2009 funding has been released. Find it here: [http://www.ctahr.hawaii.edu/vincent/RFP_TSTAR_2009_final.pdf](http://www.ctahr.hawaii.edu/vincent/RFP_TSTAR_2009_final.pdf). Proposals are due by close of business (4:30 pm HST) on Friday, October 31, 2008. We have received over 70 Letters of Intent, so it appears competition for funding will be very keen. We want one (1) paper copy and one (1) electronic version (prefer MS Word or PDF as an e-mail attachment). Review the information as there have been changes made for this funding cycle. See the TSTAR website for additional information

Two year grant proposals will be accepted from faculty in the College of Tropical Agriculture and Human Resources; UH-Manoa; College of Natural and Applied Sciences, University of Guam and from the land grant programs at the College of Micronesia; American Samoa Community College; and the Northern Marianas College. A template with instruction on how to complete the proposal is here: [http://www.ctahr.hawaii.edu/vincent/TSTAR_PacificProposal_Application_Template.dot](http://www.ctahr.hawaii.edu/vincent/TSTAR_PacificProposal_Application_Template.dot). If you have any questions about the TSTAR program, contact the Program Manager, Doug Vincent at [vincent@hawaii.edu](mailto:vincent@hawaii.edu).

USDA CRIS AD 421 Annual Reports Due Friday, November 14, 2008
A reminder that USDA CRIS AD 421 Annual Reports (progress) or Final (termination) reports must be entered on-line by November 14, 2008. If you have a USDA grant, including TSTAR or USDA Special grants, your annual accomplishment report will be due within 90 days of the anniversary date. If your grant is ending the final (termination) report is due 90 days of the termination date. You should receive notification from CSREES about these reports. Or you can view them at the USDA CRIS entry point here: [http://cwf.uvm.edu/cris/](http://cwf.uvm.edu/cris/). If you have a Hatch or McIntire-Stennis project, your annual accomplishment or final report will be due on Friday, November 14, 2008. We anticipate you being able to access the CRIS entry point for new reports by October 15, 2008. It is prudent to begin gathering information about your projects now to avoid the rush. Information on how to complete the USDA CRIS AD 421 report can be found here: [http://www.ctahr.hawaii.edu/vincent/AD_421_Instructions_FY_2008_final.pdf](http://www.ctahr.hawaii.edu/vincent/AD_421_Instructions_FY_2008_final.pdf). Contact Doug Vincent at [vincent@hawaii.edu](mailto:vincent@hawaii.edu) if you have questions.

CTAHR Receives USDA CSREES Special Needs Grant for Vog Mitigation

Photo courtesy of Kelvin Sewake.
With the opening of the new vent on Halema‘uma‘u crater on Kilauea, residents and farmers have been faced with increased impacts due to the release of sulfur dioxide and the gases that make up volcanic smog or “vog”. The damage has been particularly disastrous to growers immediately downwind of the vent. CTAHR’s Extension Director, Dr. Wayne Nishijima submitted and received USDA CSREES Smith-Lever Special Needs Grant. The grant supports initiatives to address emergency preparedness and specific responses to natural and man-made disasters. Because the vog has been particularly damaging to protea farmers in the pathway of the vog plume, CTAHR was able to shift some of its funds designated for protea work from its USDA CSREES Federal Floriculture Research Grant to CTAHR PEPS Extension Agent, Kelvin Sewake to help develop mitigation methods to assist protea growers. Sewake, along with PEPS Specialist, Dr. Scot Nelson produced a new CTAHR Publication published in August 2008 entitled “Volcanic Emissions Injury to Plant Foliage” which can be downloaded here: [link]. Working along side Kelvin and Scot are CTAHR’s Dwight Sato (PEPS), Mike DuPonte (HNFAS) and Dr. Mark Thorne (HNFAS). Because the vog can impact rainwater catchment systems, those affected are encouraged to contact CTAHR Educational Specialist Patricia Macomber (NREM) for more information, or see the web site: [link].

Beginning Farmer and Rancher Grants – Meeting November 13, 2008
Passed in the 2008 Farm Bill with up to $18 M in mandatory funding, the USDA CSREES Beginning Farmer and Rancher Development Competitive Grants Program will open its first request for applications in January 2009. Funding will provide educational, outreach and development programs for beginning farmers and ranchers. A meeting will be held on November 16, 2008 at 9:30 am in Gilmore 212 if you are interested in developing a proposal for this program. CTAHR has a significant history of providing new farmer training and this program is a great opportunity to build on past programs and help new farmers and ranchers advance their operations. If you are interested in participating, contact Doug Vincent, [email] or [email]. Polcom to neighbor islands can be arranged but contact Lynnet Higuchi at [email] by November 10, 2008 so that arrangements can be made.

Input Requested – Model Selection and Multimodel Inference Workshop
Dr. Chris Lepczyk (NREM) is seeking input to gauge interests in hosting a short course or workshop on Model Selection and Multimodal Inference. These applied statistical techniques are being used extensively in the applied sciences. The two-day course would be taught by Dr. David Anderson and cover a number of approaches and issues with model selection as well as some hands on examples. If you have interest in participating in such a course, contact Dr. Lepczyk by e-mail at [email] to express your interests in participating. Go here for more information: [link].

FCS’ Michael Cheang on the importance of saving early
Assistant Professor Michael Cheang of CTAHR’s Department of Family and Consumer Sciences has received funding from the Hawaii Community Foundation to fund a pilot program encouraging young people to save early. Working with the University of Hawaii Federal Credit Union and Kuhio Elementary School, Professor Cheang will track savings patterns of young people. Using an interactive and fun program to learn the value of saving called the Super Star Savings Account, it is hoped that young people will learn the value of saving money for the future.

UH offers free eWaste Disposal – October 20-25, 2008
The University of Hawai‘i (UH) announced a free electronic waste recycling drive, “Education & Government eWaste Disposal Days 2008.” The recycling program is open to Hawai‘i residents, all public and private schools and universities, all City, County, State or Federal/Military branches in Hawai‘i, small to medium sized businesses and non-profits. Events will be held between October 20 and October 25. Hawai‘i residents are invited to drop off their eWaste on Saturday, October 25 at one of six drop off locations on UH campuses on the Big Island, Kaua‘i, Maui or O‘ahu, plus Kealakehe High School in Kailua-Kona. Please visit [link] for more information including drop off sites, hours of operation and a list of acceptable electronics items. Public and private schools and universities, all City, County, State or Federal/Military branches in Hawai‘i, small to medium sized businesses with fewer than 100 employees and non-profit organizations are...
asked to pre-register prior to participating in the free recycling event. The institutional events will be held from October 20 to October 24.

**Writing a Grant? Need help? We have it.**
The CTAHR Office of Research is offering [grant coaching support](http://www.ctahr.hawaii.edu) for individuals or small groups who are currently writing grants that have indirect cost returns. We are using RTRF funds to pay for this pilot program; therefore, it is important that we invest in opportunities that result in a return to that investment. Indirect cost returns provides CTAHR, college units and PIs (that generate the RTRF) with additional, highly flexible funding that can be used to support and expand research programs. We hope that by increasing our success rates in obtaining competitive grants, we will have greater direct and indirect costs to support our research activities. So if you are currently writing grants (or you plan to write a proposal) and want help developing, polishing and refining your proposal to meet an upcoming deadline, contact CTAHR grants specialist, Sharee Pepper at 956-8140 or by e-mail at spepper@hawaii.edu.

**ScholarSpace at UH-Manoa**
ScholarSpace is a central repository to provide a home for digital scholarly work being created by UH-M faculty and staff. [Find ScholarSpace here](http://scholarspace.manoa.hawaii.edu). The University of Hawaii at Manoa Library is currently collecting, capturing, indexing, storing and preserving digital materials. There is a robust search engine and you can enable an RSS feed to be notified of new materials that have been placed in the collection. Through its My ScholarSpace you can customize the web site to meet your needs. Since its inception this summer over 70 articles from CTAHR have been uploaded with more added weekly. From recent extension publications to legacy publications are all being preserved in this fashion. Take advantage of this opportunity.

**Dates and Events – Mark Your Calendars Today**

**First Saturday at the Kanewai Lo‘i**
Interested in Hawaiian agricultural practices? Everyone is invited to the monthly community clean up at the Ka Papa Lo‘i o Kanewai Hawaiian Cultural Garden held the First Saturday of each month from 8:00 am – 12:00 noon. The garden, situated between the Manoa Stream and the Kamakakuokalani Bldg off of Dole Street, provides experiential learning opportunities to school and community groups in the farming practices and culture of Native Hawaiians. Come dressed to get muddy. Light refreshments are provided. For more information contact: kanewai@hawaii.edu.

**Second Saturdays at the Oahu Urban Garden Center**
The Oahu Master Gardeners and UGC Ohana open the Oahu Urban Garden Center every Second Saturday of the month. From 9:00 am – 12:00 noon, the Urban Garden Center is open to learn about gardening, and plantings. On **Saturday, November 8, 2008** – come celebrate Arbor Day at the Urban Garden Center. See the web site for more information and directions to the UGC. [http://www.ctahr.hawaii.edu/ougc](http://www.ctahr.hawaii.edu/ougc)

**CTAHR Farm Managers Meeting**
CTAHR Farm Managers will be meeting on November 6-7, 2008 at the Mealani Station in Kamuela, Big Island. Contact Susan Miyasaka for more information.
Writing grants is an active process. Time to get active!

By Doug Vincent
Special Program Director for Grants and Contracts

Don’t wait for the cow to back up to be milked! My former statistics professor always topped his homework assignments with folksy proverbs like this one. Truth be told, milking cows is an active process – you have to take the initiative because the cow won’t. So is writing grants. They won’t get written unless you do it. You have to find an opportunity that fits your program and you have to have the will to pursue it. It’s not easy, I admit. It takes time and commitment and even then, it’s a very competitive world out there. But there are many needs and CTAHR is well positioned to meet those needs – if we have the funds to do it. Given the current budget situation, we can rely less and less on state funding, formula funds are scanty and federal earmarks are at risk. The best opportunities are the ones we list for you. Dr. Sharee Pepper, CTAHR’s grant coach, has prepared the list below of new funding opportunities available. And these are hardly all of them – we’re just at beginning the 2009 “grant season” – new federal and other funding opportunities are being announced every day. Make it a habit to visit Grants.gov at www.grants.gov. In the mean time, get active and peruse these opportunities and if there programs of interest – check the web links and make an appointment to visit with Sharee to assist you along in the process. Is that the cow bell ringing?

The following list includes some current funding opportunities that may be of interest to CTAHR faculty. If the deadline is too short for this year, it is still a good indication of the likely due date for next year. Let us know if we can be of any assistance with developing and editing your grant application.

For information on submitting grants electronically on grants.gov the following publication may be useful. USDA, CSREES Grants.gov Application Guide – A guide for the preparation and submission of CSREES applications via grants.gov.

Agricultural Grants
$ - USDA, CSREES
Western Sustainable Agricultural Research and Education Program
Professional Development Program Grants
Proposal Deadline: November 3, 2008
http://wsare.usu.edu/grants/docs/RFA_PDP.pdf

$ - USDA, CSREES – Western IPM (Integrated Pest Management)
Deadline: November 17, 2008
http://www.csrees.usda.gov/funding/rfas/ipm_western.html

$ - USDA, CSREES
Western Sustainable Agricultural Research and Education Program
Farmer/Rancher Research & Education Grants
Proposal Deadline: December 5, 2008
http://wsare.usu.edu/grants/docs/RFA_FRG.pdf

$ -USDA, CSREES
Western Sustainable Agricultural Research and Education Program
Professional & Producer Grants
Proposal Deadline: December 5, 2008
http://wsare.usu.edu/grants/docs/RFA_PP.pdf

$ - USDA, CSREES
Outreach and Assistance for Socially Disadvantaged Farmers and Ranchers Competitive Grant Program
Deadline: December 12, 2008

$ -USDA, CSREES
Western Sustainable Agriculture Research and Education Program
Sustainable Agriculture Tours
Proposals: Open until funding is exhausted
http://wsare.usu.edu/grants/docs/RFA_SAT.pdf

Education Grants
$ - NSF – Tribal Colleges and Universities Program (TCUP)
Full Proposal Deadline Date: October 20, 2008
$ - U.S. Department of Education
Special Education Research CFDA 84.324A-2
Evaluation of State and District Evaluation Programs and Policies CFDA 84.305E
Education Research and Development Centers CFEA 84.305C
Education Research Training CFDA 84.305B
Special Education Research Training CFDA 84.324B
Proposal Deadlines: October 26, 2008
http://a257.g.akamaitech.net/7/257/2422/01jan20081800/edocket.access.gpo.gov/2008/pdf/08-911.pdf

$ - NSF
Graduate Research Fellowship Program (GRFP)
Deadlines: November 3-12, 2008 (depending on field of study)

$ - USDA, CSREES - Secondary Education, Two-Year Postsecondary Education, and Agriculture in the K-12 Classroom Challenge Grants Program
Deadline: December 15, 2008
http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1083

$ - National Education Association (NEA) Foundation
Foundation Supports Professional Development for Educators
Deadline for 2009 application due February 1 & June 6
Link to Funder Profile

$ - UH Sea Grant, Dean John A Knauss Marine Policy Fellowship
Deadline: Friday, February 20, 2009
http://soest.hawaii.edu/SEAGRANT/education/fellowship.html

$ - Human Frontier Science Program
Short Term Fellowship Program
Proposal Deadline: rolling – applications accepted year round
http://www.hfsp.org/how/appl_forms_STF.php

Environment, Water, Energy, Invasive Species Grants

$ - U.S. Department of Interior, FWS
Small Grant Program
Deadline: October 30, 2008

$ - SeaWorld & Busch Gardens Conservation Fund Funds for Wildlife and Habitat Protection
Deadline is December 1, 2008
http://www.swbg-conservationfund.org/get_involved.html

$ - U.S. Environmental Protection Agency
Broad Agency Announcement for Conferences, Workshops and/or Meetings
Proposal Deadlines: December 9, 2008

$ - NSF – Long Term Research in Environmental Biology (LTREB)
Deadlines: January 09 and July 9 Annually

$ - National Forest Foundation: Community Assistance Program
Local Forest Partnerships Fund
Deadline: proposals accepted on a rolling basis throughout year
http://www.natlforests.org/consp_05_cap.html

Families, Youth and Children Grants

$ - National Gardening Association
Youth Garden Grants
Proposal Deadline: November 15, 2008
http://www.kidsgardening.com/YGG.asp

$ - CHS Foundation
Rural Youth and Leadership Development
Proposal Deadline: rolling – applications accepted year round
http://www.chsfoundation.org/programs/ryld.htm

Financial Grants

$ - U.S. Department of Health and Human Services, Administration for Children and Families
Assets for Independence Demonstration Grants

Money Management International Financial Education Foundation
Financial Education Grants
Proposal Deadline: rolling – applications accepted year round
http://www.mmifoundation.org/GrantSeekers.asp

Health, Nutrition, Food, Biomedical Grants

$ - Grant Program to Fund Fresh Produce Programs at Elementary Schools
Deadline: November 7, 2008
http://www.loveyourveggiesgrants.org/apply.php

$ - PHS 2008-02 Omnibus Solicitation of the NIH, CDC, and FDA for Small Business Innovation Research Grant Applications (Parent SBIR [R43/R44])
Deadline: January 7, 2008
$ - HHS, National Institutes of Health (NIH)
Improving Diet and Physical Activity Assessment (RO1)
Letters of Intent Due: January 16, 2009 (optional)
Proposal Deadline: February 16, 2009

$ - HHS, NIH
Improving Diet and Physical Activity Assessment (R21)
Letters of Intent Due: January 16, 2009 (optional)
Proposal Deadline: February 16 & May 7, 2009

$ - NIH
Pilot and Feasibility Clinical Research Studies in Digestive Diseases and Nutrition
Deadline: May 7, 2009
http://www07.grants.gov/search/search.do;jsessionid=LHSLHFSL4pBXG0Dt7PpzkdDBMHJSl6vhyGyQ1tpTnGcSj2WfZD1488375993?oppId=8805&flag2006=true&mode=VIEW

$ - NIH
Exploratory/Developmental Clinical Research Grants in Obesity (R21)
Deadline: May 7, 2009
http://www07.grants.gov/search/search.do;jsessionid=LHSLHFSL4pBXG0Dt7PpzkdDBMHJSl6vhyGyQ1tpTnGcSj2WfZD1488375993?oppId=8875&flag2006=true&mode=VIEW

$ - NIH
Improving Diet and Physical Activity Assessment (R21)
Deadline: May 7, 2009

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Science Grants

$ - National Science Foundation (NSF) and USDA
Interagency Opportunities in Metabolic Engineering
Deadline: October 22, 2008

$ - NSF
Industry/University Cooperative Research Centers Program
Deadline: January 2, 2009 (Letter of Intent)

$ - NIH, CDC, & FDA
PHS 2008-02 Omnibus Solicitation of the NIH for Small Business Technology Transfer Grant Applications (Parent STTR [R41/R42]) & Small Business Innovation Research Grant Applications (Parent SBIR [R43/R44])
Deadline: January 7, 2009
http://www07.grants.gov/search/search.do;jsessionid=LHSLHFSL4pBXG0Dt7PpzkdDBMHJSl6vhyGyQ1tpTnGcSj2WfZD1488375993?oppId=16619&flag2006=true&mode=VIEW

$ - NSF
Science, Technology, and Society
Proposal Deadlines: February 1, 2009

$ - National Geographic Society – Waitt Grants Program
Deadline: Rolling

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UH, Hawaii and Regional Grants

$ - University of Hawaii (UH), University Research Council Faculty Travel Funds
Proposal Deadline: rolling – applications must be in >4 weeks before travel.
http://www.hawaii.edu/urc/pdf/factravel_g.pdf

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Humanities Grants

$ - National Endowment for the Humanities Collaborative Research Grants
Proposal Deadline: November 4, 2008
http://www.neh.gov/grants/guidelines/collaborative.html

Rural and Community Development Grants

$ - USDA, Rural Development
Community Facilities Loan and Grant Program
Deadline: Applications accepted on an ongoing basis
New faculty publications

Chris Lepczyk (NREM)

Gernot Presting (MBBE)

Andy Reilly (FCS)