Janice Uchida stands with colleague Chris Kadooka in the anthurium greenhouse.

Protecting Hawaii’s ecosystem

New faces at CTAHR

UHM’s Institutional Research Board
Spring is here! After a long cold and wet winter, warmer weather finally returns to the islands. I am not so sure I can say the same thing for our ailing economy. On the bright side, after 162 days since the federal fiscal year began, the USDA finally got its budget for FY 2009 on March 11. The availability of federal funds is even more important to our programs with the state budget in decline. The University is going through a campus-wide prioritization process during which individual departments submitted their results to the Office of the Vice Chancellor for Academic Affairs (VCAA) in late February. The College submitted our level two assessment earlier this month and most of our programs are listed under the “maintain” category. However, Dean Hashimoto recently received a request from the VCAA office to further prioritize our academic programs into high, middle and low maintain categories. We were asked to “Apply the following criteria in deciding which programs fit into the Lower grouping: average high cost per SSH, weak demand on enrollment, 2 or fewer faculty FTE, lecturer dependent, and whether the program is considered an appendage to the “primary” program of the department.” Undoubtedly, this exercise will continue to demand our attention in the coming months.

Several bills in the state Senate and House have direct impacts on CTAHR. HB-1663 and SB-709 both prohibit any taro research using transgenic techniques. The official UH position opposes both bills, and proposes an amendment to allow non-Hawaiian taro research to proceed in controlled environments such as laboratories and greenhouses. HB-1226, a potentially more friendly bill, prohibits the state or any county from passing any new restrictions on research using transgenic technology except taro. However, this means our faculty cannot conduct research on any taro and this bill also allows the Hawaii County’s ban on taro and coffee research to stand if it passes. The official UH position opposes HB-1226 because of the ban on research of all taro, not just Hawaiian taro. Both HB-1663 and HB-1226 have passed the House Agriculture Committee with the amendment to place restriction on only Hawaiian taro, which would allow our faculty to conduct research on non-Hawaiian taro in a controlled environment. All bills are going back to the Senate for further deliberation. Stay tuned!

We have several plant pathologists in CTAHR, which may give the false impression that we have depth in this particular discipline. However, besides insects, plant diseases can be transmitted by bacteria, virus, or fungi and we usually only have one-person in each of these areas. In prior issues of the CRN we introduced our bacteriologist, Dr. Anne Alvarez (January 2007), and Dr. John Hu, a virologist (July 2008), so in this issue we would like to introduce you to Dr. Janice Uchida, our mycologist who specializes in fungal diseases. Janice is also our florist-in-residence and has contributed her artistic talent to our annual award banquet flower arrangements, among others. We are fortunate to have Dr. Janice Uchida as our colleague. Until next month, enjoy your spring!
Protecting our ecosystem and rare paradise

By Janice Uchida, Associate Plant Pathologist
Department of Plant and Environmental Protection Sciences

In April of 2005, CTAHR and the Hawaii Department of Agriculture, discovered a new rust disease, *Puccinia psidii*, attacking potted ohia plants (*Metrosideros polymorpha*). This rust, originally discovered on guava in Brazil, is known as the guava rust and devastates eucalyptus plantations in Brazil. It has also caused severe disease on paper bark or *Melaleuca quinquenervia* in Florida, killing some plants and defoliating allspice or *Pimento dioica* in other countries.

My Plant Pathology program has two major objectives: (1) determine the causal agents of new diseases in Hawaii and the tropics and (2) educate students and growers about important tropical pathogens for the Pacific region. We also develop methods to control these diseases.

*Puccinia psidii* is extremely important to our ecosystem as it attacks ohia, a tree which comprises as much as 75% of some of our remaining native forests. Thus, this pathogen has received major research efforts in my program. To date over 20 species of plants in the myrtle family have been found as hosts of this new rust in Hawaii, including mountain apple, paper bark, myrtle, brush cherry, Java plum, wax flower, *Eugenia reinwardtiana*, and the endangered *Eugenia koolauensis*. The most devastated plants have been rose apple, *Syzygium jambos*, which are dying on Maui, Hawaii, and Oahu. *Eugenia koolauensis* has been heavily diseased also. These rare plants, already endangered by habitat destruction and feral animals, are now more severely impacted. For all hosts, the young leaves are the most susceptible. As young leaves...
Vanilla flowers require hand pollination before the seeds, or “bean,” is formed.

Chris Kadooka tends his vanilla plants

Scot Nelson, Jeri Ooka, J.B. Friday and Norman Nagata are also involved with the rust and koa wilt diseases.

Thus, this program to identify new diseases, document their occurrence and the development of control procedures have been the basis of our work for the past 28 years. We have extensive experience with orchid pathogens and we worked with Big Island Dendrobium Growers Association (BIDGA), the Hawaii Orchid Growers Association (HOGA), and many orchid societies. With the aid of my research assistant Chris Kadooka, many new causal organisms of orchid and foliage/landscape plant diseases have been identified. We are also developing control measures for these diseases.
Since 2004 we have worked on *Fusarium* diseases of field orchids and other potted orchids. In a state survey, over 8 species of *Fusarium* were discovered on orchids along with several others that need to be identified. Four of these species are pathogenic and testing of others is continuing. The diseases they caused included root rots, shoot and leaf rots, and flower blights. Over 35 different orchid genera had diseases associated with *Fusarium* species and it was the top cause of diseases at many nurseries. The cause of mysterious symptoms, such as the occurrence of yellow leaves at the tip of the plant or the death of young shoots, were found to be caused by *Fusarium* infections. The sales of floriculture and nursery products is one of the strongest sectors of the agricultural community in Hawaii, valued at $105 million in 2007.

We have spent many years working with diseases of ornamental and landscape crops. In the U.S., the massive movement of ornamentals is believed to be the major pathway for the interstate movement of insects and diseases. In our island ecosystem, new destructive pathogenic fungi are constantly arriving on imported plants and plant products. These pathogens become established in the moist tropical environment and are extremely difficult to eradicate. The State has made tremendous efforts to restrict entry of pathogens, but many have entered the State. In addition to the rust, *P. psidii*, and the large numbers of *Fusarium* species entering the State from South East Asia, many other pathogens have entered the state from the U.S. mainland, Canada, Central America, South America, Africa, and Europe. This includes devastating pathogens such as the soybean rust, bacterial blight of anthurium, *Alternaria* on *Panex* and other aralias, *Phytophthora katsurae* on coconut, *Phytophthora palmivora* on cacao, *Phytophthora meadii* on *Leea* or Hawaiian holly, *Pseudocercospora* on *Rhapis* palm, bacterial stem rot
on aroids, *Ceratocystis* on *Syngonium*, *Alternaria* on poinsettia, *Cylindrocladium* on *Spathiphyllum*, *Asperisporium* on papaya, *Pythium graminicola* on dracaena, *Cylindrocladium* on *Heliconia*, *Fusarium subglutinans* on aroids, *Calonectria* on palms, *Athelia* on hiscus, *Cylindrocladium* on fern, *Bipolaris* on corn, *Levillula* on peppers and many other hosts, *Oidium* on tomato, onion, and numerous other hosts and many other causal organisms. Almost all of those listed above and a sizable number of other pathogens have been discovered by my lab. Each has been pure cultured and pathogenicity tests have confirmed these new pathogens as the causal agent of disease. The tropics are largely unstudied and many pathogens need to be cultured and tested on the hosts on which they are associated.

As a mycologist, or a person trained in the taxonomy and biology of fungi, my lab has identified many new pathogens. We described *Phytophthora tropicalis*, a new species that causes severe disease on ornamental crops, macadamia, papaya, carnation, palms, cacao, eggplant, and numerous other crops in the tropics. We also discovered a new *Phytophthora* species in taro corm, causing the mysterious pocket rot symptom. As part of my commitment to educate students and growers I conducted interdepartmental research projects with James Silva to find the most favorable level for taro

Sean Tomas (Pearl City) holds one of his ohia plants.

Ayami Shiraishi (Japan) checks her Koa seedlings.

Taakena Redfern (Kiribati) displays breadfruit.

David Bishaw (Hilo/Molokai) compares infected papaya fruits.
nutrients in wetland culture. A major objective was to aid growers in determining the optimal levels of nitrogen, potassium, phosphorus, and calcium for best yield. Especially for nitrogen, determining this level was important to prevent excess nutrients from being lost to the ecosystem and to save growers the added cost of unnecessary fertilizer applications. Total nitrogen level for the crop was about 300 lb. The interrelationship between nutrient level and disease incidence was also monitored, with higher levels of fertilizer with slightly more disease and sustainable practices to improve taro paddy culture were tested. Agents Roy Yamakawa, Steve Fukuda, Randy Hamasaki, Robin Shimabuku and others actively helped with demonstration trials in local farms. My commitment has been to find disease control options for local farmers with sustainable cultural practices and application of reduced risk fungicides for use in the tropics.

Whenever possible I have graduate students from the Pacific and Asian Countries. Currently Taakena Redfern, from Kiribati, is conducting research on breadfruit diseases. Ayami Shiraishi, from Japan, is working hard on the molecular biology of koa plants and the pathogen Fusarium oxysporum. Ms Shiraishi will develop an assay to identify resistant koa genotypes and also help to isolate F. oxysporum to develop a method for growers to use to screen their soil for pathogenic F. oxysporum. I also have two other students, Salid Ismael from Iraq, who is studying tropical plant pathogens and investigating orchid diseases. Robert Anderson is studying the distribution of P. psidii in Hawaii and characteristics of disease spread. I enjoy mentoring undergraduates as well as graduate students and presently, I have David Bishaw working on papaya fruit pathogens and Sean Tomas working on Ohia and other diseases.

For management systems to control diseases, I have been a strong proponent of cultural methods and other sustainable approaches to control diseases. At times chemical controls are needed and for these we have been testing lower risk or environmentally friendly chemicals. We have just completed a preliminary study on the control of plumeria rust working with Michael Kawate. For field crops we recommend crop rotation, cover cropping, use of green manure and the addition of compost. These practices aid the health of the soil that reduces the pathogen load in the soil.

Hawaii is an island ecosystem and the absence of many pests and pathogens make this a true paradise. This valuable asset must be protected.
How do you know if you need to get University of Hawaii (UH) Internal Review Board (IRB) approval when human subjects are involved? The short answer to this question is that the determination needs to be made by the UH Committee on Human Studies (CHS) Compliance Office and the IRB, and cannot be made by individual investigators or faculty members. Therefore, the following information is provided to assist you with the process of presenting your project to the UH CHS to determine if IRB review is necessary, if your project qualifies for an exception, or if an Informed Consent is required. Once you feel that you have determined where your research, study, or project fits into the Human Use regulations, you then need to receive confirmation from the UH CHS office. Requiring all projects that use human subjects in any way to be cleared by a single office protects both you and the UH, as well as any human subjects that might be involved. See the following flow chart and reference information for more guidance.

### UH IRB Information
Answers to FAQ can be found at the UH IRB website @ http://www.hawaii.edu/irb/html/gi_over.htm.

For example:
- What qualifies as “Research” requiring IRB review?
- What is the definition of “Human Subject”?
- What about research conducted as a class project?
- Is there someone I can call if I need assistance or have questions?

### When in doubt, contact Bill Dendle, Compliance Officer, UH Committee on Human Studies, Phone: 808.956.8287, e-mail: dendle@hawaii.edu

### US HHS OHRP Information
The US Health and Human Services (HHS) Office for Human Research Protection (OHRP) has also provided graphic aids (flow charts) for IRBs, investigators, and others to decide if an activity is research involving human subjects that must be reviewed by an IRB. These flow charts address:
- whether an activity is research that must be reviewed by an IRB,
- whether the review may be performed by expedited procedures, and
- whether informed consent or its documentation may be waived.

Please go to the following OHRP URL for these flow charts: [http://www.hhs.gov/ohrp/humansubjects/guidance/decisioncharts.htm#c1](http://www.hhs.gov/ohrp/humansubjects/guidance/decisioncharts.htm#c1)

### 3. NIH IRB Training course
**UH Institutional Review Board (IRB) Decision Flow Chart***

Is it research defined as: A systematic investigation which includes research development, testing and evaluation, designed to contribute to generalizable knowledge?

Yes → Are you using data or specimens from humans?

No → No IRB Review Needed

Yes → Use useful Definitions.

**Useful Definitions**

(A) Existing – Collected (i.e., on the shelf) prior to the research for a purpose other than the proposed research, includes data or specimens collected in research and non-research activities.

(B) Special Populations – Minors, incarcerated individuals or institutionalized mentally disabled persons (individuals residing as patients in an institution who are mentally ill or retarded; emotionally disturbed; psychotic; or senile).

(C) Sensitive Topics – Any topic that has the potential to make the subject uncomfortable, e.g., sexual behavior, racial biases, illegal activities, etc.

(D) Exemption Criteria

1) Normal educational practices and settings; 2) Anonymous educational tests, surveys, interviews, or observations; 3) identifiable subjects in special circumstances; 4) Collection or study of existing data; 5) Public benefit or service program (only for Federal Agencies), or 6) taste and food evaluation and acceptance studies.

For additional details, see OHRP URL.

* The following Flow Chart is intended for general guidance only and the UH Committee on Human Studies must make all final determinations regarding IRB review requirements.
The research calabash

By Doug Vincent
Special Program Director for Grants and Contracts

Ron Mau featured on USDA ARS Agricultural Research Magazine
Extension Specialist Ron Mau (PEPS) is featured on the cover of the March 2009 edition of USDA Agricultural Research Service Magazine. In a feature story about partnerships between USDA ARS with other institutions. The award winning HAW-FLYPM is held out as an example of strong partnering for success. HAW-FLYPM is an acronym for the Hawaii Area wide Fruit Fly Pest Management Program and is a collaborative project between CTAHR, USDA ARS Pacific Basin Agricultural Research Center (PBARC) and the Hawaii Department of Agriculture (HDOA). Among the awards won, in 2004, the HAW-FLYPM won the USDA Secretary’s Honor Award for creating an effective area-wide suppression program for fruit flies which provides the basis for a sustainable rural economy. Pictured (l-r) – Roger Vargas (PBARC), Eric Jang (PBARC), Ron Mau (PEPS) and Lyle Wong (HDOA). Congratulations to Ron and his colleagues for the recognition and continued exemplary work in helping Hawaii agriculture succeed.

Seeking your Kokua when submitting grant proposals
With the passage of the America Recovery and Reinvestment Act, otherwise known as the “Stimulus Package,” and finally, the FY 2009 federal budget, there may be new or unanticipated funding opportunities. Some programs may have additional funding, some programs may finally receive their funding or there may be new RFA’s be released. Regardless, there may be greater traffic through your Department offices, the CTAHR fiscal office, the UH Office of Research Services (ORS) and through Grants.gov. Please work closely with your Department fiscal APT to assist with budgeting and preparation of the final paper work to help lessen the load on CTAHR administrative staff. One way to make things move more quickly is to give people as much advance time to review your proposal. ORS is again asking for your kokua and requesting that you email ORS in advance of your proposal submission. They are requesting, via email to hello@ors.hawaii.edu, the following information:

1. Principal Investigator and PI’s Contact Information
2. PI’s Campus and School
3. Funding Agency (Sponsor) Information and Submission Deadline
4. Link to RFP and/or project announcement or attach the RFP to the email.

Kiss PureEdge Viewer Goodbye – Grants.gov converts to Adobe Acrobat
Go ahead you can un-install your PureEdge Viewer for submitting your proposals to Grants.gov. As of March 4, 2009, Grants.gov has transitioned away from PureEdge Viewer to Adobe Acrobat Systems. Now and forever more (or until they change their minds), you must use Adobe Acrobat Reader or Adobe Acrobat Professional to prepare your grant proposals forms for Grants.gov submissions. In the past when you clicked on the “Download Application Package” the executable file would load up PureEdge Viewer, now that same process should open up one sort of Adobe Acrobat system automatically. But not all versions of Adobe Acrobat Reader works but it now appears that Grants.gov has sorted out issues with Microsoft Vista and Mac users. See the Grants.gov web site for more information and to download compatible Grants.gov Adobe Acrobat software for free. There have been problems with something called a “Broken Pipe Error” with some of the Adobe Acrobat software – currently Adobe Acrobat Reader 8.1.3 and 9.1 do not have this problem. A reminder that any thing appended to your Grants.gov application must be in .PDF format – the proposal narrative, budget narrative, CVs and other...
appendages. If you do not have software to convert document files (.doc, .txt, .rtf) to .PDF format, you can also download conversion software. From Grants.gov:

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2009 CTAHR Award Winners Named
Join us at the 21st Annual CTAHR Awards Banquet on April 30, 2009 to honor CTAHR’s outstanding award winners. The 2009 Ka Lei Hano Heritage Award goes to Ms. Susan Doyle. Susan is the President and Chief Professional Officer for United Way and a member of CTAHR’s Board of Advisors. The Outstanding Alumnus of the Year is Dr. Suresh Rao, Lee A. Rieth Distinguished Professor of Civil Engineering and Agronomy at Purdue University. Dr. Rao earned a Ph.D. from CTAHR in 1974 and is an expert in environmental engineering and remediation. The Dean’s Award for Excellence in Teaching will be given to Dr. Michael Dunn of HNFAS. For Research Excellence, Dr. Chennat Gopalakrishnan of NREM will receive the award. For Excellence in Extension, Mr. Andrew Kawabata of TPSS and Hawaii County, Dr. Mary Martini of FCS will receive the Ka Pouhana (Mentor) Award. See the CTAHR Awards Banquet web site for more information.

CTAHR Grad Crews Hokulea
CTAHR graduate Elisha Witt (M.S. Animal Sciences) is currently crewing on the Polynesian voyaging canoe Hokulea on its March 2009 training voyage to Palmyra. Hokulea and its crew are preparing for a world wide voyage. Eli teaches Oceanography and coordinates Marine Education at the Myron B. Thompson Academy. You can read more about Eli Witt on his crew profile and more about the current voyage to Palmyra.

Attend the 21st Annual CTAHR Student Research Symposium
The 21st Annual CTAHR Student Research Symposium will take place on April 3-4, 2009 in the Agricultural Sciences Building. The Symposium is open to graduate and undergraduate students conducting scholarly work under the supervision of faculty in UH Manoa’s College of Tropical Agriculture and Human Resources and UH Hilo’s College of Agriculture, Forestry and Natural Resource Management. The web site includes Symposium guidelines, information on preparing abstracts, instructions for oral presentations and poster presentations. Abstracts were due on March 6, 2009. Download the abstract form here. For more information contact Symposium program coordinator, Traci Sylva by e-mail at tsylva@hawaii.edu. Posters submitted to the CTAHR Computer Lab for printing before March 28, 2009 will receive a 10% discount on printing. Posters printed on April 1-2, 2009 will be assessed an additional $20 “Rush Fee. For information about large format printing (PC only) contact Wayne Toma, HNFAS at toma@hawaii.edu or call 956-7857.

We are seeking proposals for the USDA CSREES Special Research Grant “Agricultural Diversification: Hawaii Tropical Specialty Fruit Research and Development.” We will have limited funds for new projects. Download the RFP. The deadline for new proposals is 4:30 pm, Monday, March 30, 2009. We recommend that you review the recent CTAHR paper by Mike Nagao Industry Analysis: Identifying Research and Extension Priorities for Hawaii’s Avocado, Banana, Citrus and Specialty Fruits.”
available on-line. This paper provides recent industry stakeholder input on the research and needs for these crops. If you have questions, contact Doug Vincent at vincent@hawaii.edu.

**New USDA CSREES Requests for Applications**

Two recent USDA CSREES RFA’s bare special attention. The USDA CSREES Beginning Farmer and Rancher Development Program has released it’s RFA with a due date of May 13, 2009. There is no letter of intent required but there is a 25% cost sharing requirement. [Download the Request for Applications](#).

Also recently released is the Food and Agricultural Sciences National Needs Graduate and Postgraduate Fellowship Programs. There is no cost sharing or LOI required and the proposals are due May 8, 2009. [Download the Request for Applications](#).

**Recent changes to two current USDA CSREES grants programs**

With the passage of the FY 2009 budget, came two changes in existing programs. First, the final RFA for the USDA CSREES Agriculture and Food Research Initiative (AFRI) was released. Remember that this program replaced the National Research Initiative. Secondly, an adjustment was made to the rules relative to the cost sharing requirement in the USDA CSREES Specialty Crop Research Initiative. This program requires 100% cost sharing. In the previous year, the difference between the capped indirect costs and fully negotiated institutional indirect cost rates could not be used as a cost share. When the budget bill was passed, the rules were changed to indicate that this difference may be used as part of the cost sharing. [Read more here](#).

USDA CSREES has also created a SCRI Matching Funds FAQ.

**CTAHR on YouTube – YouBet!!**

CTAHR has a “growing” presence on [YouTube](#). Several CTAHR faculty have created “Virtual Field Days” on YouTube. Go to the [Hawaii Sustainable Agriculture Channel](#) on YouTube to find these efforts. There you’ll find Ted Radovich’s (TPSS) Vermicompost in Hawaii; Koon-Hui Wang’s (PEPS) Sunnhemp for Soil Health and three videos by James Leary (PEPS) on evaluating Native Hawaiian Groundcovers. For those of you interested in Invasive Weed Management – see the [HawaiiRREA channel](#) – there you’ll find a collection of a dozen videos on weed management – including videos featuring CTAHR’s Herbicide Commando, James Leary on his [Herbicide Ballistic Technology](#). A tip of cap to CTAHR’s Jody Smith (NREM) who helped craft many of these videos.

**UH Office of Research Services March 2009 Newsletter**

See the [March 2009 issue of the UH Office of Research Services Newsletter](#). This month there is information about changes to the NSF Proposal & Award Policies Guide. There is also information about the Fly America Act and Open Skies Agreements about foreign air travel. Download it and take a look.

**Fall 2009 Graduate Assistant Contract Renewals**

Graduate Division has notified Graduate Chairs and Directors that it is now time to notify Graduate Division of continuations, and terminations for Fall Semester 2009. Graduate Division also reminds us to advise ALL Graduate Assistants of the following:

- Graduate Assistants must carry a minimum of 6 credits while employed as a Graduate Assistant unless approved and enrolled in 700F or 800 and in good academic standing.
- Graduate Assistants are responsible for paying their student fees; failure to do so will result in a Financial Obligation inhibiting their usage of services on campus such as: borrowing books at any UH System library, gym usage, etc.
- The tuition exemption takes 2 to 3 days to appear in their MyUH Portal account after input. Please refrain from excessive inquiries on the inputs; this does slow down the process.

Mark your calendar – USDA CSREES to visit CTAHR

Our primary federal partner, USDA Cooperative State Research, Education and Extension Service, will be visiting CTAHR on April 15 and 16. USDA CSREES assigned to staff members to serve as our state liaisons. Dr. Peter Burfenning and Dr. Louie Tupas are ours. Dr. Burfenning, from Competitive Programs, will be visiting CTAHR on Wednesday, April 15 and Thursday, April 16, 2009. On Wednesday, Dr. Burfenning will be making a presentation to the CTAHR Leadership at our monthly meeting. On Wednesday afternoon, we will have him available to meet with us about various CSREES program, either in groups or as individual faculty. On Thursday morning Dr. Burfenning will be visiting the Waimanalo Experiment Station. If you would like to meet with Dr. Burfenning, please let me know and we’ll try to schedule you. Sorry no neighbor island visits.
Deadline for GATEX submission for all **continuing** Graduate Students – **April 24, 2009**.
Deadline for GATEX submission for all **new hires** and **newly admitted** Graduate Students – **July 31, 2009**.

**Download the memo and other information about these deadlines.**

**Facilitation Training Offered in April, 2009 – reprise**

The Agricultural Leadership Training Program of Hawaii will be offering two courses in April, 2009. **Advanced Facilitation** will be offered from April 6-7, 2009. **Facilitative Skills for Collaborative Leaders** will be held on April 28-29, 2009. For more information and/or to register see the specific websites or contact Dr. Donna Ching of the Department of Family and Consumer Sciences.

**Maui Master Gardener Training Course Set - reprise**

Maui County Cooperative Extension will be offer a 13 week training course for those interested in becoming Certified Master Gardeners. The course will run every Wednesday from 9:00 am – 3:30 pm, starting on **April 1, 2009 through June 24, 2009** at the Kahului CES office on the MCC campus. For more information contact, Anne Gachuhi on Maui at 808-244-3242 x232 or by e-mail at gachuhia@ctahr.hawaii.edu.

**Hamilton Library EndNote Workshops for Graduate Students**

Due to popular demand the Hamilton Library Science and Technology Reference Librarians are continuing their workshops in April 2009 on how to use **EndNote** – the industry standard bibliographic software; ideal for tracking cited reference in theses or dissertations. I guess I can now dispose of my 3 x 5 card files! Space is limited and the workshop fill up fast – See the EndNote Workshop web page for dates and times, to register and for more information.

**Dry Ice Availability during Extended Power Outages -reprise**

The recent campus wide power outage on December 26-27, 2008, temperatures were elevated in -80° and other ultra-low temperature freezers. The Office of the Vice Chancellor for Research and Graduate Education has established new policies regarding the making available of dry ice from the Chemistry Stockroom during periods of extended power outages. After power has been off for 10 continuous hours, the Chemistry Stockroom in Bilger 112 will open and dry ice will be made available to help maintain critical temperatures. You can read more about the policy here.

**CTAHR Research Portfolio Available for Download - reprise**

The CTAHR Office of Research has produced a 2009 **CTAHR Research Portfolio**. Over the last year, Associate Director C.Y. Hu requested “one-pagers” outlining the research expertise of the CTAHR Faculty with research appointments. Originally, these were prepared to share with Chinese institutions with interests in sending students to CTAHR. The “one-pagers” have been compiled into the **2009 CTAHR Research Portfolio**. This 123 page .pdf file is sorted by Department and each one pager has contact information, research interests and recent publications of CTAHR faculty with research appointments. If you have any questions about the portfolio or need to update information, contact Dr. Hu at 956-8131.

**Need help with making that grant perfect? See CTAHR’s Grant Coach.**

The CTAHR Office of Research is offering grant coaching support 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 coach, Sharee Pepper at 956-8140 or by e-mail at spepper@hawaii.edu.

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

**CTAHR Student Research Symposium – April 3, 4, 2009**

Plan now to attend the **21st Annual CTAHR Student Research Symposium** will be Friday and Saturday, April 3-4, 2009 in the Agricultural Sciences Bldg. The Symposium brings out the best research our students – both graduates and undergraduates. Over
100 abstracts have been submitted this year. In addition, Chef Mark Segobiano, HNFAS, has plans for delightful “grinds” on Friday and Saturday. See the CTAHR Student Symposium’s web site for more information.

**First Saturday at the Kanewai Lo‘i – April 4, 2009**
Everyone is invited to attend the monthly community clean up event at the Ka Papa Lo‘i o Kanewai Cultural Garden. The garden provides experiential learning opportunities to school and community groups in the traditional farming practices and culture of Native Hawaiians. Come dressed to do yard work and get muddy. Light refreshments will be provided but donations of food and drink are always welcome. Contact the garden at 945-1562 or kanewai@hawaii.edu for more information.

**Hawaii State Science and Engineering Fair – April 6-9, 2009**
The Hawaii State Science and Engineering Fair may still be seeking science fair judges for its annual state fair on: April 7, 2009. Contact the Hawaii Academy of Science here: acadsci@hawaii.edu to find out if they are still looking for judges. There are two rounds of judging on April 7, 2009; from 8:00 am – 11:30 am is the Interview section. From 1:00 pm – 4:45 pm is the Interviews and Final Selection for projects. Download the judges reply form here and fax it to 956-5183, or e-mail the completed form to acadsci@hawaii.edu. CTAHR has a strong history of support of the Hawaii State Science and Engineering Fair.

**Organic Gardening at OUGC – Saturday, April 11, 2009**
Join the Oahu Master Gardeners at the Oahu Urban Garden Center for information about organic home gardening. On Saturday, April 11, 2009 from 9:00 am to 12:00 noon to see the organic herb garden. Come learn about organic weed control, organic soil amendments, nitrogen-fixing plants and soil testing. Like worms? We got ‘em – come see the vermicomposting demonstration. See the Oahu Urban Garden web site for more information and directions to the UGC.

**14th Annual Kauai Garden Fair – Saturday, April 18, 2009**
The Kauai Garden Fair is a popular “one-stop-shop” event for gardener and garden lovers. Join us at the Kauai Community College on Saturday, April 18, 2009 from 9:00 am – 4:00 pm. The expanded fair not only provides information about plants, flowers and gardening supplies but also features Kauai-grown fresh produce and other ingredients for a healthy lifestyle. Lectures, information booths and 4-H activities for the kids.

**Sew’d Out – APDM’s Annual Fashion Show and Luncheon – Sunday, April 26, 2009**
What? In an Ag School? Of course!! Please join us for “Sew’d Out” – CTAHR’s Annual Fashion Show and Luncheon on Sunday, April 26, 2009 at the Pacific Beach Hotel, 2490 Kalakaua Ave in Waikiki. Talk about workforce development? CTAHR’s Apparel Product Design and Merchandising program, out of the Department of Family and Consumer Sciences, is the backbone of Hawaii’s apparel industry. Come see the future of this important value-added industry to Hawaii and the hard work of 11 senior and 11 junior designers. Doors open at 11:00 am, lunch is at noon, with the show following! Cost is $40.00 per person. For more information contact Andy Reilly, FCS, at areilly@hawaii.edu.

**CTAHR Awards Banquet – April 30, 2009**
This year’s big event is, and I’m not referring to President Barack Obama’s inaugural ball, our annual CTAHR Awards Banquet will be held on Thursday, April 30, 2009 at the Hilton Hawaiian Village Coral Ballrooms. See the Award’s Banquet web site for more information. Please RSVP by April 14, 2009.

**14th Annual Mealani’s A Taste of the Hawaiian Range – Friday, September 18, 2009.**
Mark your calendars for Hawaii’s foodie event of the year! The 14th Annual “Mealani’s A Taste of the Hawaiian Range” will be held again at the Hilton Waikoloa Village on the Kohala Coast of the Island of Hawaii on Friday, September 18, 2009. See the Taste’s web site for more information.
New faces in the Dean’s office

We are pleased to introduce several new faces in Gilmore 202. Although not really “new,” Eunice Morisaki was recruited to serve as Dean Andrew Hashimoto’s Executive Assistant. Eunice assists the Dean in a wide variety of activities but is considerably busy these days coordinating testimonies and tracking bills in the legislature. Eunice is originally from Kahului, Maui, got a BS from Purdue University, and most recently was with DAGS. Assisting Eunice is our new Office Assistant, Caren Char. Caren joined CTAHR in November, 2008, holds a BA in Biology from UH-M and is originally from Wailuku, Maui. Finally, Associate Dean and Associate Director C.Y. Hu has a new Secretary, Roxanne Yee. Roxanne joined CTAHR in February, 2009 after working in the Department of Education, Department of Public Safety and Del Monte. Roxanne is from Kaimuki and has a BA in Psychology from UH-M. So if you stop by the Dean’s office and see new faces, welcome them to our CTAHR ohana.

ADAP and CTAHR’s Jim Hollyer honored

Jim Hollyer, Program Manager of CTAHR’s Agricultural Development in the American Pacific was honored for his 10 years of service as an RCUH employee. Jim was recognized by Dean Andrew Hashimoto at the March 18, 2009 meeting of the Dean’s Cabinet. The “old-timers” in CTAHR know that Jim has been with CTAHR for a long time, considerably more than 10 years, but for the last 10 years, Jim’s funding has gone through RCUH. Not only does Jim ably lead the ADAP program, but he’s active in other projects in support of Hawaii Agriculture – such as the On-Farm Food Safety Program. Jim’s also responsible for putting the CTAHR Research News together every month. An agricultural economist by training, Jim’s also a trained facilitator and uses his skills in support of CTAHR and other organizations across the State. Congratulations and Mahalo nui loa to Jim for his hard work and dedication to agriculture in Hawaii and across the Pacific.
Forget what the pundits say, there is money out there for our work - go for it!

By Doug Vincent
Special Program Director for Grants and Contracts

No one can predict that when we will reach the bottom. Earlier this month the Hawaii Council on Revenues revised their projections for revenue this fiscal year from -3% to -5%. We don’t see a return to strong growth until 2011. Already the budget ax has hit many Hawaii programs. For example, even though several grant proposals to HDOA were approved by the agency, Budget and Finance won’t release the funds because of the short fall. On the plus side – the federal government is dumping lots of funds into the American Recovery and Revitalization Act – ARRA or the “stimulus package”. There are not a lot of opportunities for agricultural grants but agencies such as NSF and NIH have received a significant boost in their budgets. The government has opened a new website: www.recovery.gov on the recovery for transparency purposes. Each federal agency receiving the funds must also have a site explain how their agency is distributing the funding. USDA, NSF, Health and Human Services, NIH, EPA, Commerce, Energy all have sites up. Whether these opportunities will pertain directly to you is, in part, up to you. Some reports have indicated that the agencies are looking for ways to spend the money. So we can be creative and seek out opportunities where we can find them. A proverb I learned from CTAHR’s East Tennessee Good ol’ Boy Charlie Weems is “The answer’s no, unless you ask.” If you’ve got a good idea – ask. But don’t wait too long. This money is FY 2009 funding and must in the hands of the recipients by September 30, 2009. So if you find an opportunity – go for it. Once again, Dr. Sharee Pepper has compiled for you a list of funding opportunities that might work for you. Take a look and if we can help make that proposal better or help move things along – just ask us. But I must add a cautionary note, please don’t be a procrastinator – the staff in the CTAHR fiscal office is short. Grants.gov is overloaded – we’d all hate for you to write a fundable proposal and have it be lost due to delays in processing. Give it as much time as possible. Thanks and happy grant writing.

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.

Agriculture

$ - USDA, CSREES - Agriculture and Food Research Initiative (AFRI) Competitive Grants Program (Note: includes prior NRI grants)
Deadline: See Table on last page for revised LOI and application deadlines

$ - USDA, CSREES - Critical Issues: Emerging and New Plant and Animal Pests and Diseases
Deadline: April 3, 2009

$ - USDA, CREES - Special Research Grants Program: Pest Management Alternatives Research
Deadline: April 7, 2009
http://www.csrees.usda.gov/funding/rfas/pmap.html

$ - USDA, CSREES - Specialty Crop Research Initiative (SCRI)
Deadline: April 15, 2009
http://www.csrees.usda.gov/funding/rfas/specialty_crop.html

$ - USDA, CSREES - Integrated Research, Education, and Extension Competitive Grant Program National Integrated Food Safety Initiative (NFIS)
Deadline: April 15, 2009
$ - EPA, Office of Pesticide Programs (OPP)
Initial proposals due April 15th.
http://www.epa.gov/pesp/PRIA2_Announcement_FY09.pdf

$ - EPA - Quantifying Soil Carbon Sequestration Potential Through Improved Pasture Management
Deadline: April 20, 2009
http://www.epa.gov/air/grants/09-07.pdf

$ - USDA Farmers Market Promotion Program (FMPP)
Deadline: April 27, 2009
http://www.ams.usda.gov/AMSv1.0/getfile?dDocName=STELPRDC5075760&acct=fmpp

$ - USDA, CSREES – Beginning Farmer and Rancher Development Program
Deadline: May 13, 2009
http://www.csrees.usda.gov/funding/rfas/bfrdp.html

$ - USDA & EPA - Enhancing Ecosystem Services From Agricultural Lands: Management, Quantification, And Developing Decision Support Tools
Deadline: May 26, 2009

$ - USDA & EPA - Agriculture and Food Research Initiative - Global and Climate Change
Deadline: May 26, 2009

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

Education

$ - NOAA - Dr. Nancy Foster Scholarship Program
Due March 31, 2009

$ - USDA, CSREES - Resident Instruction Grants for Institutions of Higher Education in Insular Areas
Deadline: April 10, 2009
http://www.csrees.usda.gov/funding/rfas/resident_insular.html

$ - USDA, CSREES - Food and Agricultural Sciences National Needs Graduate and Postgraduate Fellowship Grants Program
Deadline: May 8, 2009
http://www.csrees.usda.gov/funding/rfas/national_needs.html

$ - NSF - Research Experiences for Undergraduates
Deadline: June 5, 2009

$ - National Education Association (NEA) Foundation - Foundation Supports Professional Development for Educators
Deadline: June 6
Link to Funder Profile

Environment, Water, Energy, Invasive Species Grants

$ - Wildlife Conservation Society Accepting Applications for State Wildlife Action Plans Funding
Deadline: March 27, 2009 (Pre-proposals)
http://fconline.foundationcenter.org/pnd/15017255/globalconserve

$ - NOAA Coastal and Estuarine Land Conservation Program FY 2010 Competition (may need to partner with state agency)
Due March 31, 2009

$ - NIH - Research to Action: Assessing and Addressing Community Exposures to Environmental Contaminants (R21)
Deadline: April 1, 2009

$ - USDA, RAC - The Center for Tropical and Subtropical Aquaculture (CTSA)
Deadline for two-page pre-proposal: April 7, 2009
http://www.ctsa.org
$ - USDA, Rural Development - Energy Audits and Renewable Energy Development Assistance Grant
Deadline: June 9, 2009

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

$ - NOAA Broad Agency Announcement (for special projects)
Due September 30, 2009 (closes but applications accepted on a rolling basis)
NOAA Office of Education:
National Marine Fisheries Service
National Environmental Satellite Data Information Service
National Ocean Service

$ - U.S. Fish and Wildlife Service - Coastal Programs
Deadline: September 30, 2009

$ - 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

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

Financial Grants

$ - Department of Commerce, Economic Development Administration - FY 09 University Center Economic Development Program Grant
Deadline: April 21, 2009
http://www07.grants.gov/search/search.do?&mode=VIEW&flag2006=false&oppId=45417

Deadline: rolling – applications accepted year round
http://www.mmifoundation.org/GrantSeekers.asp

Health, Nutrition, Food & Biomedical Grants

$ - USDA, CSREES - Grant Program: National Integrated Food Safety Initiative
Deadline: April 15, 2009
http://www07.grants.gov/search/announce.do;jsessionid=3lM2J5bTZnwwknbZWithnLkps6HzsZ8x6fKQG1FJph3Mf333CqQ1677821819

$ - NIH - Challenge Grants in Health and Science Research (RC1)
Deadline: April 27, 2009

$ - NIH - Improving Diet and Physical Activity Assessment (R21)
Deadline: 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=LH3flHFS14pBXG0Dtb7PpzdDBMHJS6vhyGyQ1tpTngcSJJ2W1D488375993?oppId=8805&flag2006=true&mode=VIEW

$ - CDC, NIOSH - Exploratory and/or Developmental Grant Program (R21) (Focus: Reducing Occupational Disease & Injury)
Deadline: May 8, 2009

$ - NIH – Pre-Application for Dietary Supplement Research Centers: Botanicals (X02)
Deadline: April 30, 2009

$ - NIH - Exploratory/Developmental Clinical Research Grants in Obesity (R21)
Deadline: May 7, 2009
$ - NIH – Improving Diet and Physical Activity Assessment (R21)
  **Deadline: May 7, 2009**

$ - USDA, CSREES - Agriculture and Food Research Initiative - Human Nutrition and Obesity
  **Deadline: June 15, 2009**

**Humanities Grants**

$ - Hitachi Foundation: Business and Communities Grants Program
  Grants Address Economically Isolated Communities
  Interested organizations may submit an online inquiry to provide information about project ideas **at any time** and the Foundation’s will determine if it fits their priorities.

**Rural and Community Development Grants**

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

$ - Farm Foundation Grants
  **Deadline: Applications accepted on an ongoing basis**

**Science Grants**

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

**UH, Hawaii and Regional Grants**

$ - 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](http://www.hawaii.edu/urc/pdf/factravel_g.pdf)

**USDA, CSREES - Agriculture and Food Research Initiative (AFRI) Competitive Grants Program Contacts (Note: replacing NRI grants)**


<table>
<thead>
<tr>
<th>USDA CSREES Agriculture and Food Research Initiative (AFRI) Competitive Grants</th>
<th>LOI Due</th>
<th>Deadline</th>
<th>National Program Leader</th>
<th>e-mail address</th>
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<tbody>
<tr>
<td>Animal Genome, Genetics and Breeding</td>
<td>3/5/2009</td>
<td>5/14/2009</td>
<td>Peter Burfening</td>
<td><a href="mailto:pburfening@csrees.usda.gov">pburfening@csrees.usda.gov</a></td>
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<tr>
<td>Animal Growth and Nutrient Utilization</td>
<td>none</td>
<td>7/8/2009</td>
<td>Mark A. Miranda</td>
<td><a href="mailto:mmirando@csrees.usda.gov">mmirando@csrees.usda.gov</a></td>
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<tr>
<td>Animal Reproduction</td>
<td>none</td>
<td>3/3/2009</td>
<td>Mark A. Miranda</td>
<td><a href="mailto:mmirando@csrees.usda.gov">mmirando@csrees.usda.gov</a></td>
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<tr>
<td>Arthropod and Nematode Biology and Management: Organismal and Population Biology</td>
<td>none</td>
<td>3/9/2009</td>
<td>Mary Purcell-Miramontes</td>
<td><a href="mailto:mpurcell@csrees.usda.gov">mpurcell@csrees.usda.gov</a></td>
</tr>
<tr>
<td>Topic</td>
<td>Start Date</td>
<td>End Date</td>
<td>Contact</td>
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<td>Arthropod and Nematode Biology and Management: Suborganismal Biology</td>
<td>4/1/2009</td>
<td>6/24/2009</td>
<td>Mary Purcell-Miramontes</td>
<td><a href="mailto:mpurcell@csrees.usda.gov">mpurcell@csrees.usda.gov</a></td>
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<tr>
<td>Arthropod and Nematode Biology and Management: Tools, Resources and Genomics</td>
<td>4/1/2009</td>
<td>6/24/2009</td>
<td>Mary Purcell-Miramontes</td>
<td><a href="mailto:mpurcell@csrees.usda.gov">mpurcell@csrees.usda.gov</a></td>
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<td>Bioactive Food Components</td>
<td>1/22/2009</td>
<td>4/13/2009</td>
<td>Etta Saltos</td>
<td><a href="mailto:esaltos@csrees.usda.gov">esaltos@csrees.usda.gov</a></td>
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<tr>
<td>Improving Food Quality and Value</td>
<td>1/21/2009</td>
<td>4/10/2009</td>
<td>D. Ramkishan Rao</td>
<td><a href="mailto:rao@csrees.usda.gov">rao@csrees.usda.gov</a></td>
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<tr>
<td>Food Safety and Epidemiology - Biological Approaches to Food Safety</td>
<td>3/4/2009</td>
<td>5/6/2009</td>
<td>Nancy Cavallaro</td>
<td><a href="mailto:ncvallaro@csrees.usda.gov">ncvallaro@csrees.usda.gov</a></td>
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<tr>
<td>Food Safety and Epidemiology - Epidemiological Approaches to Food Safety</td>
<td>3/4/2009</td>
<td>5/6/2009</td>
<td>Nancy Cavallaro</td>
<td><a href="mailto:ncvallaro@csrees.usda.gov">ncvallaro@csrees.usda.gov</a></td>
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<td>Human Nutrition and Obesity</td>
<td>none</td>
<td>6/15/2009</td>
<td>Etta Saltos</td>
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<td>Markets and Trade</td>
<td>none</td>
<td>5/15/2009</td>
<td>Siva Sureshwaran</td>
<td><a href="mailto:ssureshwaran@csrees.usda.gov">ssureshwaran@csrees.usda.gov</a></td>
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<td>Microbial Biology: Microbial Associations with Plants</td>
<td>2/16/2009</td>
<td>4/30/2009</td>
<td>Ann Lichens-Park</td>
<td><a href="mailto:apark@csrees.usda.gov">apark@csrees.usda.gov</a></td>
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<td>Microbial Genomics: Genomic Sequencing</td>
<td>none</td>
<td>3/2/2009</td>
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<td>Plant Genome, Genetics and Breeding</td>
<td>1/16/2009</td>
<td>3/11/2009</td>
<td>Ed Kaleikau</td>
<td><a href="mailto:ekaleikau@csrees.usda.gov">ekaleikau@csrees.usda.gov</a></td>
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<td>Protection of Managed Bees</td>
<td>3/2/2009</td>
<td>5/1/2009</td>
<td>Mary Purcell-Miramontes</td>
<td><a href="mailto:mpurcell@csrees.usda.gov">mpurcell@csrees.usda.gov</a></td>
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<td>Rapid Response</td>
<td>7/30/2009</td>
<td>7/30/2009</td>
<td>Mark Poth</td>
<td><a href="mailto:mpoth@csrees.usda.gov">mpoth@csrees.usda.gov</a></td>
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<td>Soil Processes</td>
<td>1/16/2009</td>
<td>3/17/2009</td>
<td>Nancy Cavallaro</td>
<td><a href="mailto:ncvallaro@csrees.usda.gov">ncvallaro@csrees.usda.gov</a></td>
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<td>Sustainable Agroecosystems Science</td>
<td>none</td>
<td>3/2/2009</td>
<td>Michael A. Bowers</td>
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<td>Water and Watersheds</td>
<td>None</td>
<td>4/15/2009</td>
<td>James P Dobrowolski</td>
<td><a href="mailto:jdobrowolski@csrees.usda.gov">jdobrowolski@csrees.usda.gov</a></td>
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<td>Weedy and Invasive Species</td>
<td>4/20/2009</td>
<td>6/19/2009</td>
<td>Michael A. Bowers</td>
<td><a href="mailto:mbowers@csrees.usda.gov">mbowers@csrees.usda.gov</a></td>
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</tbody>
</table>
Successful grants since January - yea!

## Competitive Grants and Contracts

<table>
<thead>
<tr>
<th>First name</th>
<th>Last name / Dept</th>
<th>Project Name</th>
<th>Funder</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Jonathan</td>
<td>Deenik / TPSS</td>
<td>SARE Professional Development Program Plan for Hawaii - Annual Budget Request</td>
<td>University of Wyoming</td>
<td>$15,000</td>
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<td>Michael</td>
<td>DuPonte / HNFAS</td>
<td>Korean Natural Farming* A New Waste Management System for Small Swine Farmers</td>
<td>Big Island RC&amp;D Council, Inc</td>
<td>15,950</td>
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<td>Carl</td>
<td>Evensen / NREM</td>
<td>Coordination and Implementation of Hawaii’s Local Action Strategy to Address Land-based Pollution</td>
<td>DLNR-Division of Aquatic Resources</td>
<td>47,000</td>
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<td>Chennat</td>
<td>Gopalakrishnan / NREM</td>
<td>Journal of Natural Resources Policy Research</td>
<td>University of Hawaii Foundation</td>
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<td>Harold</td>
<td>Keyser / Maui</td>
<td>Evaluation of Jatropha as a Biofuel Crop in Maui County</td>
<td>Maui Office of Economic Development</td>
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<td>Harold</td>
<td>Keyser / Maui</td>
<td>UH-CTAHR Extension and Research Projects in Maui County FY 2009</td>
<td>Maui Office of Economic Development</td>
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<td>Kinoshita</td>
<td>Charles / Admin</td>
<td>Island of Hawaii Wood Resource Assessment for HELCO</td>
<td>Black and Veatch</td>
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<td>James</td>
<td>Leary / PEPS</td>
<td>Reducing Colonization of Schoenoplectus californicus (California bulrush) for Native and Migratory Birds</td>
<td>U.S. Fish and Wildlife Service / Department of Interior</td>
<td>5,959</td>
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<td>Tomoaki</td>
<td>Miura / NREM</td>
<td>GIS Assessment of Forest Conditions and Long Term Resource Strategy</td>
<td>Hawaii-Department of Land and Natural Resources</td>
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<td>Rachel</td>
<td>Novotny / HNFAS</td>
<td>Cardiovascular Research Network</td>
<td>Kaiser Permanente - HI</td>
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<td>Rachel</td>
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<td>Pacific Kids DASH for Health (PacDash)</td>
<td>Kaiser Permanente - HI</td>
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<td>Richard</td>
<td>Ogoshi / TPSS</td>
<td>Customizing Biodiesel Derived from Tropical Trees</td>
<td>Oregon State University</td>
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<td>Sylvia</td>
<td>Yuen / COF</td>
<td>State Prevention Framework State Incentive Grant Evaluation</td>
<td>Hawaii-Department of Health</td>
<td>299,980</td>
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<td>Sylvia</td>
<td>Yuen / COF</td>
<td>2008 Hawaii Kids Count Plan Guidelines</td>
<td>Annie E. Casey Foundation</td>
<td>75,000</td>
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### 14 grants for a total of: $814,380

| FY 2009 YTD Competitive Grants | 96 | $10,646,842 |
| FY 2009 YTD Earmark-Funded Grants | 47 | $5,698,584 |

### FY 2009 YTD

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<th>FY 2009 YTD</th>
<th>FY 2008 Total</th>
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<th>FY 2009 YTD</th>
<th>FY 2008 Total</th>
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<td>16,345,426</td>
<td>11,101,686</td>
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Faculty publications

Jim Brewbaker (TPSS)

Ken Grace (PEPS)

John Griffis (TPSS)

C.N. Lee (HNFAS)

Christopher Lepczyk (NREM)


Russell Messing (PEPS)