

# CTAHR RESEARCH NEWS

March 2007  
Volume 3, Issue 3



Drs. Yoshie and Charlie Weems confer on the results of an experiment in their laboratory.

**Increasing the success of conception in animals**

**CTAHR breaks ground on expanded Hilo facility**

**Centennial, the anthurium, is released**



C.Y. Hu  
Associate Dean and  
Associate Director for  
Research

# From the Associate Dean and Associate Director for Research

Modern animal agriculture is closely associated with the availability of cheap feed sources. Since Hawaii does not have readily available grain sources, we rely heavily on imported grains and protein supplements to feed production animals. Since it is often cheaper to import these animal products than importing feeds to produce locally grown products, our animal industry is constantly being challenged to survive on a very narrow margin. CTAHR has an active animal science program to support our stakeholders in the animal industry. This month, it is my pleasure to introduce you to Dr. Charles Weems, CTAHR's Research Award winner in 2006. Dr. Weem's research in female reproduction has gained him national and international recognition in the last 20 years. Despite prevailing views at the time, Charlie theorized that Prostaglandins E and related compounds were the major signals in maternal recognition of pregnancy and pregnancy maintenance. Because of his unique view, it was an uphill struggle to win competitive grants, but his careful research has won them over. Many researchers are now embracing Charlie's hypotheses and he is gaining the recognition he so greatly deserves. Charlie is also an important mentor to many pre-veterinary students. Through his research program, Dr. Weems has nurtured many of our pre-veterinary students and provided them with essential hands-on animal work experience. Many of his students have been successful in obtaining entrance into veterinary schools. We are honored to have Dr. Charlie Weems among our faculty members.

and upgrade an existing wing, this \$14.5 million project is a significant investment. Dean Hashimoto has worked tirelessly with our stakeholders and legislators to secure the funds, but he's not stopping here. He is working to secure an additional \$6 million to upgrade the remaining two wings at Komohana. The new facility will allow CTAHR to provide better service to our stakeholders on the Big Island. During the construction, staff will relocate to the Waiakea station, using the space vacated by the USDA, until the project at Komohana is complete.

As you know, CTAHR is celebrating our centennial this year. But, do you know that March 25 marks the 100th anniversary of the signing of Act 24 by Territorial Governor George Carter? Act 24 established the College of Agriculture and Mechanic Arts, the direct predecessor of today's UH Manoa? In celebration of this occasion, the Women's Campus Club is hosting a High Tea from 2 pm on March 25 at the Hawaii Hall. Make your reservations at 956-5526 or email [uh100@hawaii.edu](mailto:uh100@hawaii.edu).

CTAHR is getting a lot of media good exposure lately. In this issue, we have provided links to several news articles, and videos, related to CTAHR activities. Please continue spreading the news about our programs. Be sure to send us your news pieces so that we can share them with others. As usual, we are rounding out this issue with the Research Calabash. Check out the grant opportunities to see if there are any opportunities that interest you. Remember to send me your papers, news, questions, and comments. Mahalo!

On February 23, CTAHR held a groundbreaking ceremony at the Komohana Agricultural Complex in Hilo. With plans to build a new wing

## In this issue

- Improving animal conception . . . . . p 3
- Research calabash . . . . . p 7
- Grant winners . . . . . p 9
- Great grant opportunities . . . . . p 10
- New publications . . . . . p 14
- End notes . . . . . p 15



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# Maximizing reproductive performance is the key to the profitability of livestock operations

By Charles Weems, Ph. D.

Professor of Animal Science, CTAHR Animal Reproduction Research Laboratory and the Department of Human Nutrition, Food and Animal Sciences

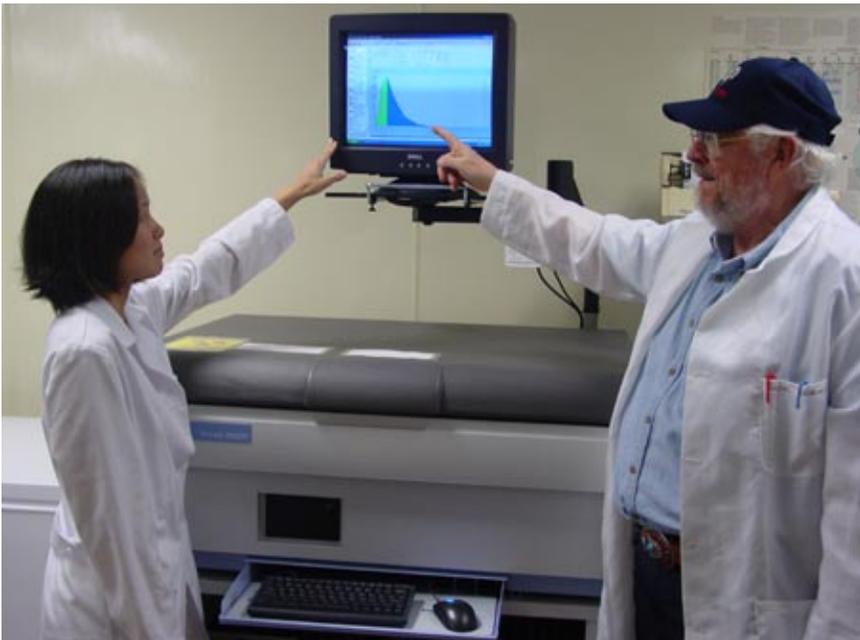


Team Weems (L-R): Kylee Goto (Honolulu), Tonya McBride (Kaneohe), Stacie Nakashima (Kaneohe), Dr. Yoshie Weems (Tokyo, Japan), Dr. Charlie Weems (Tennessee/Arizona), Elizabeth Cruz (Fort Worth, Texas), Nicole Tsutahara (Honolulu), Janelle Pang (Honolulu). Not pictured-Drew Johnson (Pennsylvania),

**Dr.** Charles Weems and his staff at the CTAHR Animal Reproduction Research Laboratory (CTAHR-ARRL) work to maximize reproductive performance through researching methods for sustaining healthy pregnancies in production animals. Healthy or normal pregnancies, resulting in more live births per production season, have the additional benefit of producing strong, healthy babies. Healthy pregnancies result in an improved and efficient growth of offspring, reduced microbial-induced or metabolic diseases/pathology in progeny, and decreased feed and management costs. These outcomes ultimately result in increased profits returned to the producer.

Sustaining healthy pregnancies is important for the ranchers' bottom line. Pregnancy loss can occur at each stage in reproduction: embryonic loss occurs during implantation (establishment of pregnancy) over the first third of pregnancy (prior to organ formation).

Fetal loss occurs during the last two thirds of pregnancy after implantation and the formation of organs. Thirty to 40% of embryos are lost in farm animals during the first third of pregnancy, resulting in hundreds of millions of dollars in lost income annually in the U.S. Further losses occur from fetal abortion during the last two thirds of pregnancy. These losses occur even when management for nutrition, vaccination, absence of disease, toxic weed problems, and reproduction is excellent. Losses occur not only from the lost pregnancy, but also through reduction in birth weight, decreased neonatal survival, reduced neonatal growth and decreased lactation performance. Most of this loss is due to failure of embryos to implant or inadequate placental function, and not to failure of the oocytes (eggs) to fertilize. Interestingly, these losses are increased in tropical and subtropical regions. Problems seen in livestock production also occur in humans. Low birth weight babies (Caucasian infants less than 6 pounds



Charlie Weems confers with Kylee Goto on the radionuclide spectrum of data coming from radioimmunoassay analysis of progesterone in samples.

at birth) have increased Type 2 diabetes (resistance to insulin that should move glucose from blood to muscle and connective tissue) and are then at higher risk of developing Type 1 diabetes (lost the ability to produce insulin); hypertension and subsequent strokes; and atherosclerosis (build up of excess cholesterol esters in the wall of arteries reducing blood flow to organs) leading to erectile dysfunction, internal blood clots, and an earlier onset of heart attacks as adults than in infants whose birth weight is six pounds or greater.

### **Lipids: Good-Bad-Ugly?**

At the CTAHR-ARRL, Drs. Charlie and Yoshie Weems have devoted their research efforts to understanding roles of lipids, especially steroids (derived from cholesterol) and prostaglandins, on female reproduction and a successful pregnancy outcome. Prostaglandins (PG), especially  $\text{PGF2}\alpha$ ,  $\text{PGE1}$ ,  $\text{PGE2}$ ,  $\text{PGI2}$ , and thromboxane  $\text{A2}$  ( $\text{TXA2}$ ), play major roles along with steroids on growth of follicles [source of oocytes (eggs) on the ovary for fertilization], ovulation, secretion of progesterone, estradiol, testosterone, cortisol, implantation (establishment of pregnancy), maintenance of pregnancy, birth, clotting of blood, and maintenance of blood plasma volume. Successful reproduction in the female is similar to an excellent symphony and involves complex interactions in the hypothalamus, pituitary gland, ovary, and uterus, and ultimately with

the interactions between the uterus and the growing embryo, through the formation of the placenta, and growth and development of the fetus. Therefore, lipids are not always BAD or UGLY.

The complex reproductive symphony is slowly giving up some of its secrets thanks to the CTAHR-ARRL. CTAHR-ARRL has shown that the steroid hormones (progesterone and estradiol) from the ovary after ovulation are not only delivered systemically, but are also delivered by local vascular pathways to the anterior one half of the uterus. This results in the anterior half of the uterus having concentrations of these steroids in the tissue 30-50% greater than the remainder of the organ. This finding

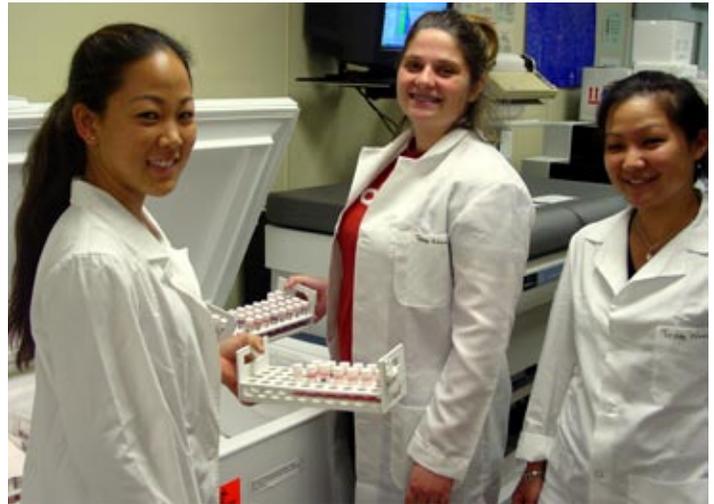
explains why embryos transferred to the anterior one third of the uterus, adjacent to the side of ovulation, results in higher pregnancy rates than when embryos are transferred further away in the uterus.



Dr. Yoshie Weems is setting up tubes for radioimmunoassay analysis for prostaglandins in samples.

## It takes a team to find a diamond

Dr. Weems and his former and current colleagues, and graduate and undergraduate students, have contributed to unraveling the further mystery of how to synchronize the breeding cycle of all the females in a herd. Using the basic concepts and pathways uncovered through their research, livestock producers in conjunction with pharmaceutical companies and researchers can now synchronize estrus in all the females in a herd, and breed all the females within a short period of time. This means that all the females in the herd will also give birth within a few days of each other. This results in reduced management costs and a group of calves growing to enter the feedlot that are uniform in size, which results in producers receiving higher prices for their calves and increase profitability of their livestock operation. Recent research by the CTAHR-ARRL has further fine-tuned this process by uncovering that when progestins are used to synchronize estrus this could result in reduced fertility. This potential negative effect



Stacie Nakashima, Elizabeth Cruz, and Janelle Pang are separating samples for extraction, chromatography, and to be analyzed by radioimmunoassay for progesterone, estradiol, and prostaglandins.

was not seen when estrous cycles were synchronized with  $\text{PGF2}\alpha$ .

Current research at the CTAHR-ARRL is focusing on the highly complex hormonal interactions between the uterus and the developing embryos. Progesterone is required throughout pregnancy in all mammalian species for a successful pregnancy. Inadequate secretion of progesterone is a major cause of embryonic and fetal loss. Embryos, themselves, prevent loss of progesterone secretion by stimulating the uterine wall to produce molecules that are delivered to the adjacent ovary. This embryo effect does not only act directly on the uterus, but also inhibits the corpus luteum (part of the ovary) from reacting to the uterine  $\text{PGF2}\alpha$  secretion, which would stimulate the ovary to decrease progesterone secretion. And if that last sentence didn't confuse you, you may want to consider working with the CTAHR-ARRL. They have been the leader in developing and documenting this scenario and how  $\text{PGE1}$  and/or  $\text{PGE2}$  inhibits  $\text{PGF2}\alpha$  actions. Additionally, Dr. Weems' laboratory has been developing and documenting other molecules that may enhance or decrease  $\text{PGE1}/\text{PGE2}$  secretion by the uterus or ovary. These include: luteinizing hormone (LH-from the pituitary), nitric oxide (active ingredient in erectile dysfunction drugs for men), endothelin-1, bradykinin, and endocannabinoids (molecules in animals similar to hallucinogenic molecules from marijuana) and their potential interaction to improve or decrease pregnancy rates. Recent studies at the CTAHR-ARRL have shown that LH (but only in the presence of the embryo), nitric oxide, endothelin-1, and bradykinin



Tonya McBride is separating different prostaglandin fractions by sephadex  $\text{Ih-20}$  chromatography for radioimmunoassay in extracted samples

all increase uterine endometrial or ovarian secretion of PGE1/PGE2 and may be important not only for the establishment, but also maintenance of pregnancy. Also, the type of lipid in the diet alters the type of prostaglandin secreted by the uterus and alters length of the reproductive cycle. Preliminary work shows the endocannabinoids probably reduces prostaglandins synthesis and reduces fertility. When Dr. Weems arrived in Hawaii 24 years ago, Monty Richards, livestock producer in Hawaii, told Dr. Weems to look for those rough cut diamonds. The CTAHR-ARRL may be getting close to finding that 10 carat diamond in the rough.



Blood plasma samples from one pregnant ewe-number 9920 stored frozen for hormone analyses.

### Now, that's hot!

The CTAHR-ARRL is doing cutting edge research. Recently, Dr. Weems was notified by the Editor of *The Veterinary Journal* that the review they were commissioned by the European Veterinary Medical Society to write was the “hottest,” i.e. most downloaded, article that was published in their research journal for 2006. The article is C. W. Weems, Yoshie S. Weems, and R. D. Randel. “Prostaglandins and Reproduction in Female Farm Animals,” *The Veterinary Journal*. 171:206-228, 2006. Be sure to check it out!



Ultimately, the goal of this research is to improve pregnancy rates and increase the number of healthy calves and lambs born to increase profitability of livestock operations.

# The research calabash

By Doug Vincent  
Special Program Director for Grants and Contracts

## Earmark impact listening sessions

Please join, Andy Hashimoto, C.Y. Hu and Doug Vincent in an open discussion on the how the impacts of the cuts in earmarks will affect CTAHR. If your project will be affected please come on **one** of the following dates: **Friday, March 30, 2007** at 1:30 pm and **Tuesday, April 3, 2007** at 11:00 am to discuss the impacts of the loss of the funding will have on your projects. The meetings will be held in Gilmore 212. For neighbor island faculty and staff, Polycom will be available but please contact Lynnet Higuchi in Gilmore 202 by **Wednesday, March 28, 2007**, so arrangements can be made.

## All proposals must go through Office of Research Services (ORS)

We all get in a rush and it is very easy to overlook certain details when sending grant proposals to a funding agency. First, **all proposals must go through ORS**. We had several recent proposals go directly to the funding agency. None of us are authorized to enter into a contract or accept a grant proposal on behalf of the University of Hawaii. Only the Director of ORS or their designee is so authorized. The funding agency in this case returned the proposals to the principal investigators and told them to submit their proposal through ORS. This created another problem for CTAHR – ORS has a Late Submission policy. If we sign and approve the ORS Form 5 for a late proposal submission, the college and department will be automatically responsible for fulfilling from its own funds all terms, conditions and obligations of any award received as a result of the late proposal, including but not limited to, cost sharing commitments and any inappropriate or unallowable commitment of University of Hawaii resources. Effective immediately, CTAHR will not process late submissions after the deadline. See the memo from Dean Hashimoto sent to CTAHR Leadership here: [http://www.ctahr.hawaii.edu/vincent/07Mar19Late\\_Grant\\_Proposal.pdf](http://www.ctahr.hawaii.edu/vincent/07Mar19Late_Grant_Proposal.pdf). Please build in sufficient time to complete the ORS form 5 to meet the deadline. ORS staff members are very helpful and can be very accommodating, provided that we follow their guidelines.

## 19th annual CTAHR Student Research Symposium

Reminder that the 19<sup>th</sup> Annual CTAHR Student Research Symposium will be held on **April 5-6, 2007** in the Agricultural Sciences Bldg. CTAHR's Office of Academic and Student Affairs sponsors this worthy event. This year, 90 abstracts were submitted by our students. The posters will be presented on Thursday, April 5, 2007 and the oral presentations will be given on Friday, April 6, 2007. Poster and oral presentations will be given by undergraduate and graduate student research projects at the Symposium. The students are competing for travel grants and monetary awards. The Symposium promotes collegiality and cooperation among CTAHR's faculty. It also provides students with the opportunity to present their research in a professional, yet friendly setting similar to what they would experience at a national or international conference. Hawaii's geographic isolation and the high costs of travel often prevent CTAHR students from having the experience in presenting their research at a professional scientific conference. The Symposium provides our student with a similar experience. For more information on the Symposium, go to this web site: <http://www.ctahr.hawaii.edu/symposium/index.asp>. Please join us for the Symposium.

## CTAHR Centennial Homecoming and Awards Celebration, April 12, 2007

Mark your calendars today. The CTAHR Centennial Homecoming and Awards Celebration is coming soon!! On **April 12, 2007** at the Hilton Hawaiian Village, we will gather to honor our 2007 CTAHR Ka Lei Hano award recipient, Dean Okimoto of Nalo Farms and President of the Hawaii Farm Bureau Federation. Another honoree is Dr. Nan-Yao Su, of the University of Florida and the 2007 CTAHR Outstanding Alumnus of the Year. Dr. Su is a Ph.D. graduate of CTAHR's Entomology Department and is the inventor of the Sentricon™ Colony Elimination System for the control of subterranean termites. Besides, these honorees, other CTAHR faculty, student and staff awards will be given. But most importantly, this year we are celebrating OURSELVES!! How many of you can

brag about being part of something that started 100 years ago? We can!! CTAHR is THE founding college of the University of Hawaii. As we embark on CTAHR's second century, we are committed to providing an excellent education for our students, fostering a diverse and vibrant economy, a healthy environment and thriving families. Proceeds from the banquet will fund the establishment of the CTAHR Centennial Scholarship Endowment. **The RSVP is due by Thursday, March 29, 2007.** For more information and to register, see the event web site: <http://www.ctahr.hawaii.edu/banquet/index.asp>

### **Earmark update, part 1.**

We are beginning to face up to the reality that the funding for USDA CSREES Special Research Grants, Federal Administration Grants, and the USDA ARS Specific Cooperative Agreements are not in the budget FY 2007 federal fiscal year. The difference in USDA (both CSREES and ARS) funding to CTAHR from FY 2006 and FY 2007 exceeds \$8.1 million. A summary of research funding to CTAHR from USDA CSREES was provided to us from the National Association of Land Grant Colleges and State Universities (NALGCSU). But because CTAHR also receives Congressional earmarks from USDA ARS, we've modified the data to include all agricultural earmarks to CTAHR. This summary can be viewed here: [http://www.ctahr.hawaii.edu/vincent/earmarks/CTAHR\\_Loss\\_of\\_Earmarks.pdf](http://www.ctahr.hawaii.edu/vincent/earmarks/CTAHR_Loss_of_Earmarks.pdf). The spreadsheet compares federal agricultural funding received in FY 2006 against estimated FY 2007 funding. We've also developed a series of "one pagers" describing the programs affected and the immediate impacts to CTAHR. They are here: [http://www.ctahr.hawaii.edu/vincent/earmarks/Earmark\\_Impacts\\_Complete.pdf](http://www.ctahr.hawaii.edu/vincent/earmarks/Earmark_Impacts_Complete.pdf). We've asked those relying on this funding to be frugal and reduce costs as much as possible. We are particularly sensitive to personnel supported on these funds. Keeping currently funded graduate students and the ability to recruit new students are front of mind with the CTAHR administration. Since most of our FY 2006 funding has come late in the federal fiscal year, the impacts on our research programs are only now beginning to be felt. CTAHR has put forth an initiative to both the Hawaii legislature and the University of Hawaii administration in an attempt to recover some funding lost.

If your projects are affected by the loss of earmark funding, **we need your action now! Please develop for your project(s), the impact of the loss of funding, especially in terms of personnel.**

### **CTAHR hosts WAASED and NCRA on the Big Island**

CTAHR is hosting the joint spring meeting of the Western Association of Agricultural Experiment Station Directors and the North Central Regional Association of Experiment Station Directors at the Hilton Waikoloa on March 19-22, 2007. The meeting will include topics such as the CREATE-21 proposal for the new farm bill; the SunGrant Initiative and other research issues of importance to the Western and North Central regions. Our visitors will also have a tour of Big Island agriculture. A more detailed summary will appear in the next edition of *CTAHR Research News*.

### **Earmark update, part 2.**

CTAHR has depended heavily upon Congressional earmarks to support its research programs. The justification for these earmarks has been largely based upon the need to support regional, tropical and subtropical agricultural, stakeholder-driven applied research. USDA competitive grant programs do not readily support the kinds of applied research we do in Hawaii, we just don't fit in well with mainland U.S., temperate zone agriculture. The agricultural earmarks to Hawaii evolved to provide funding for our needs and the needs of our stakeholders. For FY 2008, we have begun the process to restore the earmarks for CTAHR to the budget. It's a rather long and complicated process, requiring listing of projects and providing a justification for each of them. And this year, with all the political rhetoric about reducing the numbers of earmarks, the rules for submission of earmarks changed. We have submitted our programs using the new format, to Senator Inouye's office for inclusion in the Senate Agricultural Appropriations Sub-committee. That's just the beginning of the process that we hope will result in the return of our funding for the FY 2008 federal fiscal year. But we have been warned that it won't be "business as usual." Chairman David Obey of House of Representatives Appropriations Committee warns that he would like a 50% reduction in earmarks. There is more transparency required in the process on both chambers. We won't know the outcome until later this year. But as we receive news, we will share.

## An Introduction to Using FASTLANE and GRANTS.GOV

Tuesday, 3 April 2007, 1:30 – 2:45 pm, Kuykendall 106, Events Room and Gallery

NSF is slowly transitioning from Fast lane to Grants.gov for the proposal submission process. This session will give you a general overview of using Grants.gov and processing your proposals through the University system. The presenters will also demonstrate the NSF Fast lane site and review the pre-and post-award functions in Fast lane that PI's need to be aware of in managing their NSF grants. The presenters are: Georgette Sakumoto, Administrative Officer, ORS and Kathy Yoshinaga, Administrative Officer, ORS. Please register on line at: <http://www.cte.hawaii.edu/OnlineReg.html>

# Additional funds for CTAHR research

By Doug Vincent  
Special Program Director for Grants and Contracts

Since the last issue of the CTAHR Research News, we have received ten (10) new grants for an additional \$602,490. One of the very special things about CTAHR is the diversity of expertise we can bring to our stakeholders. The types of work to be done with these grants illustrates the point – on one hand, we've been funded to provide evaluation services for a social services agency; on the other hand, we've been tasked to survey wildfire fuel loads on West Hawaii and on the third hand, we've received funding from the County of Hawaii to assist with rainwater catchments system on Hawaii – from families to communities to our environment. Congratulations to this month's grant recipients. And

Dulal Borthakur (MBBE)  
Analysis of a Hybrid Recombinant Protein to Increase the Specificity and Coverage of In Vitro Diagnostic Kits for Mycobacterium Tuberculosis.  
*HCF-Leahi Trust* (\$29,815)

Barbara D DeBaryshe (CoF)  
Evaluation Contract with Na Kamalei K.E.E.P.  
*Na Kamalei-KEEP* (\$18,000).

Carl I Evensen (NREM)  
Water Quality Research and Extension  
Coordination in Hawaii  
*Univ of Arizona* (\$53,725).

Chin Nyeon Lee (HNFAS)  
A Review and Assessment of Some Issues in the Milk Act - Hawaii Revised Statutes: Chapter 157  
*Hawaii-Dept of Agriculture* (\$5,692)

Qing Li (MBBE)  
2005 Minor Use Pesticide Research  
*Univ of California-Davis* (\$15,000)

congratulations to us all. As of March 19, 2007 and for the FY 2007 fiscal year, CTAHR has received 140 awards for \$20,030,473. We have just surpassed the total amount received for the entire FY 2006 with one quarter of the fiscal year to go! This amount is the second highest total in CTAHR's history. Well done! BUT there is no time to rest; the loss of the Congressional earmarks will not show up until the next state fiscal year. So we hope you will continue to seek extramural funding whenever and wherever you see opportunities. As you can see, your colleagues have done so. Give it a shot and please call on our office if you need assistance!

Qing Li (MBBE)  
Minor Use Pesticide Research  
*Univ of California-Davis* (\$30,000)

Patricia Macomber (NREM)  
Assisting Rainwater Catchment System  
Users in Hawaii County  
*County of Hawaii* (\$100,000)

Mark Thorne (HNFAS)  
A Survey of the Natural Resources, Fine-Fuel Loads, and Extent of Fountain Grass Invasion on Rangelands in the Puu Waawaa Area of West Hawaii  
*West Hawaii Wildfire Management Org* (\$86,241)

Sylvia H L Yuen (CoF)  
2006 Hawaii Kids Count Plan Guidelines  
*Casey Foundation (Annie E Casey)* (\$75,000)

Sylvia H L Yuen (CoF)  
Data Collection and Analysis of Substance Abuse Prevention Services  
*DOH-Alcohol & Drug Abuse Division* (\$189,017)

# More funding opportunities

By Doug Vincent  
Special Program Director for Grants and Contracts

There are many new funding opportunities listed below. Although the academic year is nearing its completion, the grants “season” isn’t over yet. For instance, new funding is available from a not-so-common source – USDA Risk Management Agency has funding for two types of crop risk management training programs – due April 23, 2007. There are a whole series of USDA CSREES National Research Initiative – Competitive Grants – all due

Hawaii Community Foundation  
The Rev. Takie Okumura Family Fund  
Young Children and Youth Grant Making Program

**Proposal Deadline: March 30, 2007**

[http://www.hawaiicommunityfoundation.org/doc\\_bin/grant\\_rfps/RFP-Okumura\\_2007.pdf](http://www.hawaiicommunityfoundation.org/doc_bin/grant_rfps/RFP-Okumura_2007.pdf)

U.S. Department of Agriculture  
Regional Integrated Pest Management Centers

**Proposal Deadline: March 30, 2007**

<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1640>

U.S. Department of Health and Human Services  
National Institutes of Health  
Integration of Food and Nutrition into Prevention, Care and Treatment of HIV Infection and AIDS (RO3)

**Proposal Deadline: March 30, 2007**

<http://grants.nih.gov/grants/guide/rfa-files/RFA-HD-07-001.html>

U.S. Department of Agriculture  
Rural Development – Rural Business Opportunity Grants

**Proposal Deadline: March 30, 2007**

<http://www.rurdev.usda.gov/rbs/buspr/rbog.htm>

U.S. Environmental Protection Agency  
National Community-Based Lead Outreach and Training Grant Program

**Proposal Deadline: April 2, 2007**

<http://www.epa.gov/lead/pubs/outreach-traininggrant.pdf>

U.S. Environmental Protection Agency  
Pollution Prevention Grants

**Proposal Deadline: April 2, 2007**

<http://www.epa.gov/p2/pubs/grants/ppis/2007fpp2grant.htm>

in early June. The National Science Foundation have programs for Environmental Engineering, Environmental Sustainability, Environmental Technology and Energy for Sustainability all due on September 15, 2007. Many, many opportunities to seek funding for your programs. Take advantage of these opportunities. Good luck. As always, if our office can assist you in the grant seeking process, please ask us.

U.S. Department of Agriculture  
Food and Nutrition Service  
FY 2007 Women, Infant and Children Special Project Grants

**Proposal Deadline: April 2, 2007**

<http://www.fns.usda.gov/oane/menu/DemoProjects/WICSPG/WICSPG.htm>

U.S. Department of Agriculture  
CSREES – Integrated Research, Education and Extension Competitive Grant Program National Water Quality Program

**Proposal Deadline: April 4, 2007**

<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1134>

National Science Foundation  
Integrated Graduate Education and Research Traineeship Program (IGERT)

**Preliminary Proposal Due: April 5, 2007**

**Proposal Deadline: October 5, 2007**

[http://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=nsf07540](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf07540)

U.S. Department of Agriculture  
CSREES – Youth Farm Safety Education and Certification Program

**Proposal Deadline: April 6, 2007**

<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1093>

U.S. Environmental Protection Agency  
Community Action for a Renewed Environment (CARE) Program

**Proposal Deadline: April 9, 2007**

<http://www.epa.gov/air/grants/07-02.pdf>

Department of Health and Human Services  
Administration for Children and Families  
Compassion Capital Fund Targeted Capacity Building Program

**Proposal Deadline: April 10, 2007**

<http://www.acf.hhs.gov/grants/pdf/HHS-2007-ACF-OCS-IJ-0036.pdf>

National Science Foundation  
Ethics Education in Science and Engineering  
**Proposal Deadline: April 10, 2007**  
[http://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=nsf07541](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf07541)

U.S. Department of Energy – Chicago Service Center  
Office of Biological and Environmental Research  
Program for Ecosystem Research  
**Proposal Deadline: April 10, 2007**  
<https://e-center.doe.gov/iips/faopor.nsf/UNID/03958C13FC1D4E8F8525722E005A6739?OpenDocument>

Hawaii Community Foundation  
Hawaii Children's Trust Fund Community Awareness  
Events  
**Proposal Deadline: April 13, 2007**  
[http://www.hawaiicommunityfoundation.org/doc\\_bin/grant\\_rfps/RFP-HCTF\\_CommunityAwareness2007\\_RFP.pdf](http://www.hawaiicommunityfoundation.org/doc_bin/grant_rfps/RFP-HCTF_CommunityAwareness2007_RFP.pdf)

U.S. Department of Agriculture  
Agricultural Marketing Service  
Farmers Market Promotion Program  
**Proposal Deadline: April 13, 2007**  
<http://www.ams.usda.gov/fmpp/>

U.S. Department of Agriculture  
CSREES – New Technologies for Ag Extension  
**Proposal Deadline: April 16, 2007**  
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1560>  
[http://www.csrees.usda.gov/funding/rfas/pdfs/07\\_new\\_technologies.doc](http://www.csrees.usda.gov/funding/rfas/pdfs/07_new_technologies.doc)

U.S. Department of Education  
Alaska Native and Native Hawaiian Serving Institutions  
(OPE) CFDA 84.03.031N  
**Proposal Deadline: April 16, 2007**  
<http://a257.g.akamaitech.net/7/257/2422/01jan20071800/edocket.access.gpo.gov/2007/pdf/E7-3612.pdf>

U.S. Agency for International Development  
Collaborative Research Support Program  
Sorghum, Millet and Other Grains CRSP  
**Proposal Deadline: April 16, 2007**  
<http://intsormil.org/smrfp.htm>

U.S. Department of Education  
Alaska Native and Native Hawaiian Serving Institutions  
(OPE) CFDA 84.031W  
**Proposal Deadline: April 16, 2007**  
<http://a257.g.akamaitech.net/7/257/2422/01jan20071800/edocket.access.gpo.gov/2007/pdf/E7-3612.pdf>

U.S. Department of Health and Human Services  
Substance Abuse & Mental Health Services Administration  
Drug Free Communities Support Program  
**Proposal Deadline: April 17, 2007**  
[http://www.samhsa.gov/Grants/2007/sp\\_07\\_001.aspx](http://www.samhsa.gov/Grants/2007/sp_07_001.aspx)

U.S. Environmental Protection Agency (Region 9)  
Resource Conservation Funds 2007: Requests for initial  
proposals.  
**Proposal Deadline: April 18, 2007**  
<http://www.epa.gov/region09/funding/pdfs/rcra-2007.pdf>

U.S. Environmental Protection Agency  
Science to Achieve Results (STAR) Program  
An Interdisciplinary Approach to Examining the Links  
between Social Stressors, Biodiversity and Human Health  
**Proposal Deadline: April 19, 2007**  
[http://es.epa.gov/ncer/rfa/2007/2007\\_biodiversity\\_health.html](http://es.epa.gov/ncer/rfa/2007/2007_biodiversity_health.html)

U.S. Department of Education  
Early Childhood Educator Professional Development  
Program CFDA 84.349A  
**Proposal Deadline: April 20, 2007**  
<http://a257.g.akamaitech.net/7/257/2422/01jan20071800/edocket.access.gpo.gov/2007/pdf/E7-2964.pdf>

Hawaii Community Foundation  
Group 70 Foundation Fund  
**Proposal Deadline: April 20, 2007**  
[http://www.hawaiicommunityfoundation.org/doc\\_bin/grant\\_rfps/RFP-Group70\\_RFP\\_2007.pdf](http://www.hawaiicommunityfoundation.org/doc_bin/grant_rfps/RFP-Group70_RFP_2007.pdf)

U.S. Department of Agriculture  
Risk Management Agency  
Commodity Partnership Small Sessions Program  
**Proposal Deadline: April 23, 2007**  
<http://www.rma.usda.gov/aboutrma/agreements/>

U.S. Department of Agriculture  
Risk Management Agency  
Commodity Partnership Program  
**Proposal Deadline: April 23, 2007**  
<http://www.rma.usda.gov/aboutrma/agreements/>

U.S. Department of Health and Human Services  
National Institutes of Health  
Understanding and Promoting Health Literacy (R01)  
**Letters of Intent Due: April 24, 2007, December 24, 2007**  
**Proposal Due: May 24, 2007, January 24, 2008**  
<http://grants.nih.gov/grants/guide/pa-files/PAR-07-020.html>

U.S. Department of Agriculture  
Natural Resources Conservation Service  
Farm and Ranch Lands Protection Program  
**Proposal Due: April 27, 2007**  
<http://www.nrcs.usda.gov/programs/frpp/>

U.S. Department of Energy  
Office of Basic Energy Sciences – Chicago Service Center  
Experimental Program to Stimulate Competitive Research  
(EPSCoR) Building EPSCoR – State/National Laboratory  
Partnerships

**Pre-Application due: April 30, 2007**

**Proposal Deadline: July 16, 2007**

<https://e-center.doe.gov/iips/faopor.nsf/UNID/A616F4E02E82F5868525724A0071740C?OpenDocument>U.S.

Environmental Protection Agency

Nutrients Benefits Valuation

**Proposal Deadline: May 2, 2007**

<http://www.epa.gov/waterscience/criteria/nutrient/grants/nutrients-rfp.pdf>

U.S. Department of Health and Human Services  
Administration for Children and Families  
Head Start Graduate Student Research Grants

**Proposal Due: May 1, 2007**

<http://www.acf.hhs.gov/grants/open/HHS-2007-ACF-OPRE-YR-0068.html>

U.S. Department of Agriculture  
CSREES – Resident Instruction Grants Program for  
Institutions of Higher Education in Insular Areas

**Proposal Deadline: May 2, 2007**

[http://www.csrees.usda.gov/funding/rfas/pdfs/07\\_resident\\_insular.doc](http://www.csrees.usda.gov/funding/rfas/pdfs/07_resident_insular.doc)

<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1401>

U.S. Department of Health and Human Services  
Administration for Children and Families  
Head Start University Partnership Research Grants:  
English Language Learners (ELLs) in Head Start and Early  
Head Start Programs

**Proposal Deadline: May 3, 2007**

<http://www.acf.hhs.gov/grants/open/HHS-2007-ACF-OPRE-YF-0070.html>

U.S. Department of Energy  
Office of Science – Chicago Service Center  
Environmental Remediation Science Program

**Letter of Intent due: February 20, 2007**

**Proposal Deadline: May 3, 2007**

<https://e-center.doe.gov/iips/faopor.nsf/UNID/C2C9FB96CB266CA685257265006DCC61?OpenDocument>

U.S. Department of Health and Human Services  
Administration for Children and Families  
Refugee Agricultural Partnership Program

**Proposal Deadline: May 7, 2007**

<http://www.acf.hhs.gov/grants/open/HHS-2007-ACF-ORR-ZR-0118.html>

U.S. Department of Agriculture  
Economic Research Service  
Program of Research on the Economics of Invasive  
Species Management

**Proposal Deadline: May 7, 2007**

<http://www.ers.usda.gov/Briefing/InvasiveSpecies/invasivespecies2007.pdf>

<http://www.ers.usda.gov/Briefing/InvasiveSpecies/whatis.htm>

U.S. Department of Health and Human Services  
Centers for Disease Control and Prevention  
Racial and Ethnic Approaches to Community Health  
Across the U.S. (REACH US)

**Proposal Deadline: May 7, 2007**

<http://www.cdc.gov/od/pgo/funding/DP07-707.htm>

U.S. Department of Health and Human Services  
Administration for Children and Families  
Transitional Living Program and Maternity Group Homes

**Proposal Deadline: May 8, 2007**

<http://www.acf.hhs.gov/grants/open/HHS-2007-ACF-ACYF-CX-0111.html>

U.S. Department of Agriculture  
CSREES – Agriculture Risk Management Education  
Competitive Grants Program

**Proposal Deadline: May 17, 2007**

[http://www.csrees.usda.gov/funding/rfas/pdfs/07\\_ag\\_risk\\_mgt.doc](http://www.csrees.usda.gov/funding/rfas/pdfs/07_ag_risk_mgt.doc)

<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1260>

U.S. Department of Housing and Urban Development  
Alaska Native and Native Hawaiian Institutions Assisting  
Communities.

**Proposal Deadline: May 23, 2007**

<http://www.grants.gov/search/search.do?oppld=12960&mode=VIEW>

U.S. Department of Agriculture  
CSREES – Conservation Effects Assessment Project  
(CEAP)

**Proposal Deadline: May 22, 2007**

[http://www.csrees.usda.gov/funding/rfas/pdfs/07\\_conservation\\_effects.pdf](http://www.csrees.usda.gov/funding/rfas/pdfs/07_conservation_effects.pdf)

U.S. Department of Agriculture  
CSREES – National Needs Graduate Fellowship Grants  
Program

**Proposal Deadline: June 1, 2007**

[http://www.csrees.usda.gov/funding/rfas/pdfs/07\\_national\\_needs.doc](http://www.csrees.usda.gov/funding/rfas/pdfs/07_national_needs.doc)

<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1280>

U.S. Department of Agriculture  
CSREES – National Research Initiative-Competitive Grants Program  
Microbial Genomics (B): Functional Genomics of Microorganisms  
**Proposal Deadline: June 5, 2007**  
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1091>

U.S. Department of Agriculture  
CSREES – National Research Initiative-Competitive Grants Program  
Arthropod and Nematode Biology and Management (B) and (C): Suborganismic Biology and Tools, Resources and Genomics  
**Proposal Deadline: June 5, 2007**  
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1602>

U.S. Department of Agriculture  
CSREES – National Research Initiative-Competitive Grants Program  
Agricultural Markets and Trade  
**Proposal Deadline: June 5, 2007**  
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1106>

U.S. Department of Agriculture  
CSREES – National Research Initiative-Competitive Grants Program  
Animal Growth and Nutrient Utilization  
**Proposal Deadline: June 5, 2007**  
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1067>

U.S. Department of Agriculture  
CSREES – National Research Initiative-Competitive Grants Program  
Animal Genome  
**Proposal Deadline: June 5, 2007**  
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1066>

U.S. Department of Agriculture  
CSREES – National Research Initiative-Competitive Grants Program  
Air Quality  
**Proposal Deadline: June 5, 2007**  
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1062>

U.S. Department of Agriculture  
CSREES – National Research Initiative-Competitive Grants Program  
Human Nutrition and Obesity  
**Proposal Deadline: June 5, 2007**  
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1095>

U.S. Department of Agriculture  
CSREES – National Research Initiative-Competitive Grants Program  
Plant Biosecurity  
**Proposal Deadline: June 5, 2007**  
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1521>

U.S. Department of Agriculture  
CSREES – National Research Initiative-Competitive Grants Program  
Agricultural Markets and Trade  
**Proposal Deadline: June 5, 2007**  
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1106>

U.S. Department of Agriculture  
CSREES – National Research Initiative-Competitive Grants Program  
Arthropod and Nematode Biology and Management (B) and (C): Suborganismic Biology and Tools, Resources and Genomics.  
**Proposal Deadline: June 5, 2007**  
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1602>

U.S. Department of Agriculture  
CSREES – National Research Initiative-Competitive Grants Program  
Animal Genome  
**Proposal Deadline: June 5, 2007**  
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1066>

U.S. Department of Agriculture  
CSREES – National Research Initiative-Competitive Grants Program  
Animal Growth and Nutrient Utilization  
**Proposal Deadline: June 5, 2007**  
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1067>

U.S. Department of Agriculture  
CSREES – National Research Initiative-Competitive Grants Program  
Air Quality  
**Proposal Deadline: June 5, 2007**  
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1062>

U.S. Department of the Interior  
U.S. Fish and Wildlife Service  
National Coastal Wetlands Conservation Grant Program  
**Proposal Deadline: June 29, 2007**  
[http://www.ctahr.hawaii.edu/vincent/National\\_Coastal\\_Wetlands\\_Conservation\\_Grant\\_Program.pdf](http://www.ctahr.hawaii.edu/vincent/National_Coastal_Wetlands_Conservation_Grant_Program.pdf)

U.S. Department of Agriculture  
CSREES – Higher Education Multicultural Scholars Program  
**Proposal Deadline: June 29, 2007**  
[http://www.csrees.usda.gov/funding/rfas/pdfs/07\\_multicultural\\_selg.doc](http://www.csrees.usda.gov/funding/rfas/pdfs/07_multicultural_selg.doc)  
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1110>

Hawaii Community Foundation  
Fred Baldwin Memorial Foundation (funds Maui projects)  
**Proposal Deadline: July 2, 2007**  
[http://www.hawaiicommunityfoundation.org/doc\\_bin/grant\\_rfps/2007/Baldwin\\_2007\\_guidelines.pdf](http://www.hawaiicommunityfoundation.org/doc_bin/grant_rfps/2007/Baldwin_2007_guidelines.pdf)

Department of Health and Human Services  
National Institute of Health  
Long-Term Weight Maintenance: Basic and Clinical Studies (R01)  
**Proposal Deadline: July 5, 2007, November 5, 2007**  
<http://grants.nih.gov/grants/guide/pa-files/PA-07-053.html>

Department of Health and Human Services  
National Institute of Health  
Retirement Economics (R01)  
**Proposal Deadline: July 5, 2007, November 5, 2007**  
<http://grants.nih.gov/grants/guide/pa-files/PA-07-075.html>

Department of Health and Human Services  
National Institute of Health  
Parenting Capacities and Health Outcomes in Youth and Adolescents (R01)  
**Proposal Deadline: July 5, 2007, November 5, 2007**  
<http://grants.nih.gov/grants/guide/pa-files/PA-07-061.html>

Hawaii Community Foundation  
Annie Sinclair Knudsen Memorial Fund/Kauai Community Grants Program  
**Proposal Deadline: July 16, 2007**  
[http://www.hawaiicommunityfoundation.org/doc\\_bin/grant\\_rfps/2007/Knudsen\\_2007\\_RFP.pdf](http://www.hawaiicommunityfoundation.org/doc_bin/grant_rfps/2007/Knudsen_2007_RFP.pdf)

U.S. Department of Agriculture  
CSREES – National Research Initiative-Competitive Grants Program  
Animal Protection and Biosecurity (C): Animal Biosecurity Coordinated Agricultural Products (CAP)  
**Proposal Deadline: August 14, 2007**  
<http://www.csrees.usda.gov/fo/fundview.cfm?fonum=1522>

Open Meadows Foundation  
Projects Benefitting Women and Girls  
**Proposal Deadline: August 15, 2007**  
<http://www.openmeadows.org/>

National Science Foundation  
Environmental Engineering  
**Proposal Deadlines: September 15, 2007**  
[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=501029](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501029)

National Science Foundation  
Environmental Sustainability  
**Proposal Deadlines: September 15, 2007**  
[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=501027](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501027)

National Science Foundation  
Environmental Technology  
**Proposal Deadlines: September 15, 2007**  
[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=501030](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501030)

National Science Foundation  
Energy for Sustainability  
**Proposal Deadlines: September 15, 2007**  
[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=501026](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501026)

National Science Foundation  
Biotechnology (BTEC)  
**Proposal Deadlines: September 15, 2007**  
[http://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=501029](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501029)

U.S. Department of Defense  
United States Army Medical Research & Materiel Command  
Broad Agency Announcement  
**Proposal Deadline: September 30, 2007**  
<http://www.usamraa.army.mil/pages/index.cfm>

U.S. Department of Health and Human Services  
National Institutes of Health  
Improving Diet and Physical Activity Assessment (RO1)  
**Letters of Intent Due: September 5, 2007; May 5, 2008**  
**Proposal Deadline: October 5, 2007; June 5, 2008**  
<http://grants.nih.gov/grants/guide/pa-files/PAR-07-259.html>

U.S. Department of Interior  
U.S. Fish and Wildlife Service  
Coastal Program  
**Proposal Deadline: September 30, 2007**  
<http://www.fws.gov/coastal/CoastalProgram/>  
[http://www.fws.gov/pacificislands/worg/orghc\\_coastal.html](http://www.fws.gov/pacificislands/worg/orghc_coastal.html)

U.S. Department of Defense  
National Biodefense Analysis and Countermeasures Center  
Broad Agency Announcement  
**Proposal Deadline: September 30, 2007**  
<http://www.usamraa.army.mil/pages/index.cfm>

U.S. Department of Agriculture  
Agricultural Marketing Service  
Specialty Crop Block Grant Program  
**Proposal Deadline: October 11, 2007**  
<http://www.ams.usda.gov/fv/scbgp.html>

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## New faculty publications

### **Russell Messing (PEPS)**

Mondor, E. B. & R. H. Messing. Direct vs. inclusive fitness in the evolution of aphid cornicle length. *Journal of Evolutionary Biology* 20: 807-812. Hawaiian adolescents living in poverty. *Hulili: Multidisciplinary Research on Hawaiian Well-Being*, 3, 103-125.

# End notes . . .

**February 23, 2007 – Hilo, Hawaii**

## **CTAHR breaks ground on an expanded Komohana facility**

(L to R) Kahu Danny Kaniela Akaka; Representative Clift Tsuji Representative Clifton Tsuji (chair of the House Agriculture committee, representing Senator Russell Kobubun); Kelvin Sewake, Interim CTAHR County Administrator; John Hara, Architect; Wendy and Gerald Yamada, GW Construction; Dr. Dennis Gonsalves, USDA Pacific Basin Agriculture



Research Center Director; Sandra Lee Kunimoto (representing Governor Lingle), Chair of Hawaii Department of Agriculture; Dr. James R. Gaines, UH Interim Vice President of Research; Dr. Andrew Hashimoto, CTAHR Dean; Jane Testa, Hawaii County Research and Development Director (representing Hawaii mayor, Harry Kim); and Dr. Wayne Nishijima, CTAHR Associate Dean and Director of Extension.

**The University of Hawai'i System**  
Ma luna a'e o na lahui a pau ke ola o ke kanaka

Directory · Calendar

## UH News

### College of Tropical Agriculture and Human Resources introduce new anthurium in honor of UH Centennial celebration

**External Affairs & University Relations**  
Public Relations  
Honolulu, HI 96822  
(808) 956-6934 Telephone  
(808) 956-6087 Facsimile  
newsroom@hawaii.edu E-Mail

**University of Hawaii at Manoa**  
Contact: Miles Hakoda, (808) 956-3093  
College of Tropical Agriculture and Human Resources, UH Manoa  
Posted: March 01, 2007

HONOLULU – The College of Tropical Agriculture and Human Resources (CTAHR), the founding college of the University of Hawai'i, has named a new anthurium in celebration of the university's 100th anniversary. The dual-purpose cut flower and potted plant selection is named 'Centennial' and commemorates a century of educational achievements arising from a foundation built on the study of the agricultural sciences.

"We're very pleased that we can celebrate the college's and university's centennial with this beautiful anthurium, and at the same time create a new future product for Hawai'i's anthurium growers," said CTAHR Dean Andrew Hashimoto.

The 'Centennial' anthurium is a tulip-type spathe, about 4.75" long and 2.5" wide that is colored white with green stripes (veins) where the green coloration is expected to become more prominent as the flower matures.

According to CTAHR researchers, the green and white coloration in 'Centennial' is representative of the university's colors. They describe the green stripes that come together to form one flower a symbol of the diverse cultures that represent the life-

**March 1, 2007 – Honolulu, Hawaii**

## **CTAHR scientists release new anthurium for UH's centennial**

Read all about this exciting plant release with the UH press release (<http://www.hawaii.edu/cgi-bin/uhnews?20070301112117>) and article in the Honolulu Advertiser (<http://www.honoluluadvertiser.com/apps/pbcs.dll/article?AID=200703180358>). And, for a real treat, see the story at KITV (<http://www.thehawaiichannel.com/video/11146662/index.html>)

**LOCAL TOP STORIES**



**Kids Get Their First Glimpse at Campus Life**

By Manolo Morales

It's never too early to think about college.

It's one reason why some third graders spent the day at the University of Hawaii at Manoa — to get a glimpse of campus life.

They can't be mistaken for big men or women on campus, but third graders from Fern Elementary School did get some VIP treatment with an escorted tour.

And that includes a visit to the college of tropical agriculture's insect museum. The kids were fascinated and walked away learning quite a bit.

**March 10, 2007 – Honolulu, Hawaii**

**Students from Fern Elementary visit CTAHR's Insect Museum**

Luc Leblanc and Dan Rubinoff introduce students to the world of insects and got them thinking about what they need to do to prepare for college on this KHON story: <http://www.khon2.com/news/local/6413517.html> and then again in this story in the Honolulu Advertiser:

<http://www.honoluluadvertiser.com/apps/pbcs.dll/article?AID=/20070310/NEWS07/703100333/1012/EDUCATION>



Posted on: Saturday, March 10, 2007

**From 3rd grade to college, for a day**

[Fern Elementary students gallery](#)

By [Catherine E. Toth](#)  
 Advertiser Urban Honolulu Writer

MANOA — Dressed in a homemade fruit fly costume and an aloha shirt, Luc Leblanc held out his hand. In it was a black-and-yellow-striped caterpillar.

"Touch it," said Leblanc, a junior researcher in entomology at the University of Hawai'i-Manoa, to a group of third-graders from Fern Elementary School yesterday. "Go ahead and touch it."



Luc Leblanc, a junior researcher in entomology at the University of Hawai'i-Manoa, greets Fern Elementary third-graders and their parents in his fruit fly costume.

Photos by JEFF WIDENER | The Honolulu Advertiser

February 27, 2007 – Honolulu, Hawaii

CTAHR researcher John Griffis talks cherry with Wanda Adams.

Story here: <http://the.honoluluadvertiser.com/article/2007/Feb/28/il/FP702280355.html>

and here: <http://the.honoluluadvertiser.com/article/2007/Feb/28/il/FP702280358.html>



Posted on: Wednesday, February 28, 2007

TASTE

## Tart cherries put exotic spin on sweets

- [A curious crop](#)

By [Wanda A. Adams](#)  
Advertiser Food Editor

You don't need to cook with Surinam cherries to enjoy them; they're fine fresh, seeded, macerated with a little sugar and added to a fruit salad. If the dark purple ones ever become available here, you won't even need to add sugar because they're sweeter.



Surinam cherries, which originated in South America, make tasty juice, jellies and jams. They're also yummy in cakes and as pies.

GREGORY YAMAMOTO | The Honolulu Advertiser

"Top Chef" Ilan Hall made a sorbet with Surinam cherries, but he didn't share the recipe on the "Top Chef" Web site; it's likely what he did was boil the cherries with water to make a juice, then sweeten the juice as needed, possibly adding other flavorings, then freezing the sorbet in an ice-cream maker.

Researcher John Griffis says Surinam cherries can be used pretty much anywhere sour pie cherries are called for — in pies, or in a sauce-based dessert such as cherries jubilee. Here's his pie recipe.



Posted on: Wednesday, February 28, 2007

TASTE

## A curious crop

 Video: [How to make upside down cake](#)

- [Tart cherries put exotic spin on sweets](#)
- [Foil packets give you no-mess stir-fry](#)
- [Zucchini bread gets drastic cut in fat](#)
- [Culinary calendar](#)
- [Wild about versatile rice dish](#)
- [Double-lever wine opener a favorite](#)
- [Palolo Chinese Home-made mango butter](#)

By [Wanda A. Adams](#)  
Advertiser Food Editor

When TV "Top Chef" winner Ilan Hall made a dessert of tropical fruits with a Surinam cherry sorbet for the show's Season 2 January finale, he started something.

Within days, The New York Times had run a story on the fruit, which Hall had found at a Big Island farmers' market. And the questions were popping up on blogs: What IS a Surinam cherry? And where can you get them?



Surinam cherries come in various colors, ranging from red to black. The red ones are most common in Hawai'i.

Malcolm Manners photos

**GROWING, USING  
SURINAM CHERRY**