

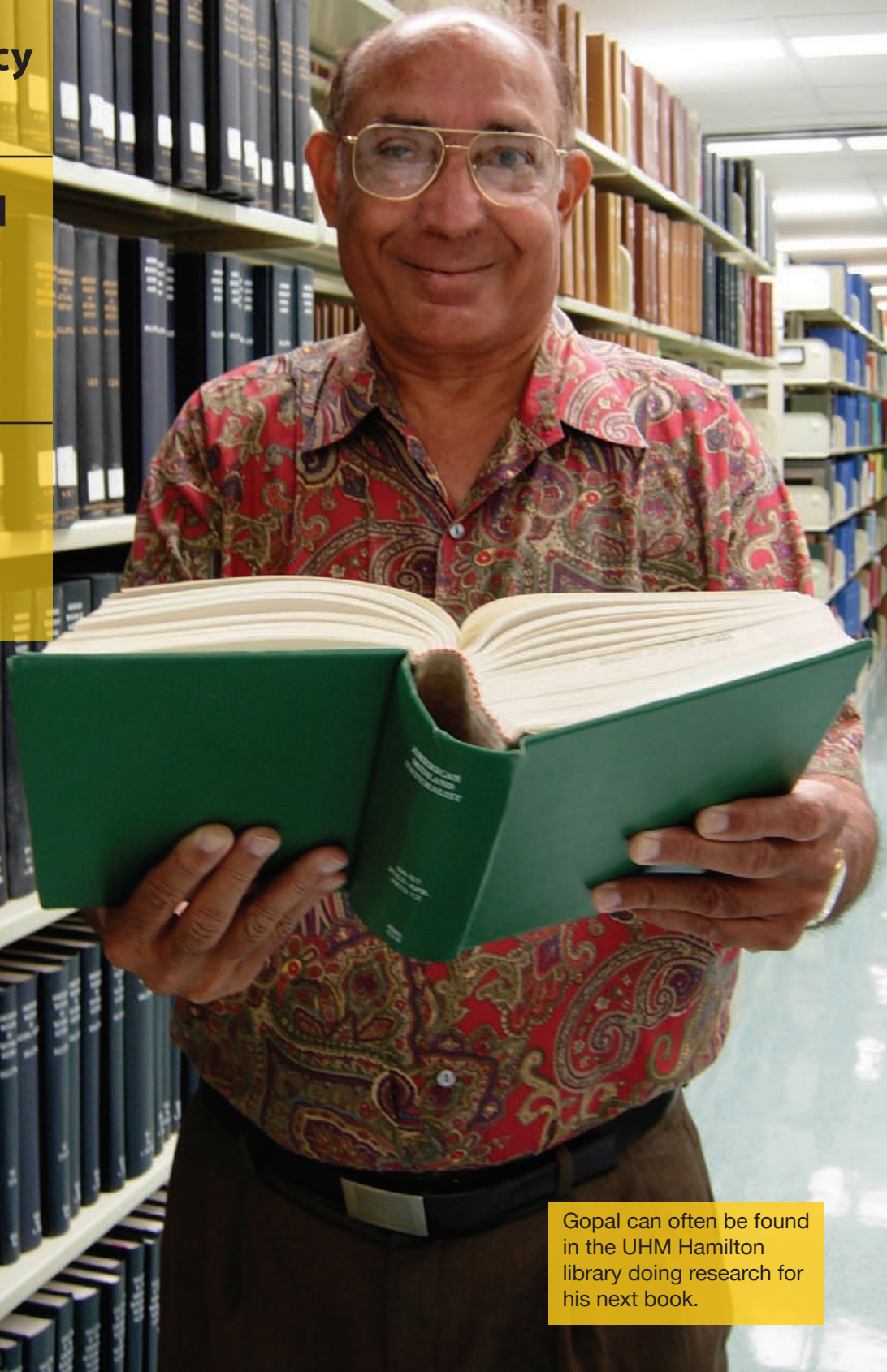
CTAHR RESEARCH NEWS

September 2007
Volume 3, Issue 7

**Natural
resource policy
for Hawaii**

**MOU's extend
the global
impact of
CTAHR**

**Grants are
abundant in
this season**



Gopal can often be found in the UHM Hamilton library doing research for his next book.



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

From the Associate Dean and Associate Director for Research

With publication of this issue CTAHR Research News celebrates its second anniversary. (A little late, but we'll be catching up soon.) The quick passing of the second year certainly reminds me of the widely used cliché "time flies while having fun." Although I may not agree completely about the fun part, I have to admit it is indeed true that time flies. The inspiration behind creating *CRN* was the exciting work done by our faculty, coupled with not many people – sometimes in the same building – knowing about it. Therefore, we have embarked the mission of sharing our successful stories. We are still a long way from reach our goal of telling all our stories, but we are doing it one at the time. I would like to acknowledge our staff, in particular, Jim Hollyer, Doug Vincent, and Jackie Tani whose contributions made *CRN* a reality.

from his research are relevant and valuable to the state agencies and policy makers dealing with water resource issues in Hawaii.

International students play an important role in our graduate programs, and are one of the keys to the success of our research programs. International students also enrich our community with their cultures. Therefore, UH Manoa strategic plan clearly indicates the importance of a vibrant international program on campus. One indicator for success of the international program is the number of memorandum of understanding of international exchange we have with institutions in other countries. CTAHR currently has active MOU's with 14 institutions. Dean Hashimoto signed five of these MOU's recently, and additional details on these newly signed MOU's are in this issue.

Dr. Brian Turano, our grant specialist, has accepted a new position as the bioenergy specialist effective October 1. As we say goodbye to Brian we need your inputs on drafting a revised position description for recruitment of the vacancy. Please contribute your inputs through our CTAHR eXchange website. You can also provide your thoughts on any issues you wish to share at this new site.

As usual, Doug Vincent has provided another edition of the research calabash. More grants received, paper published, and funding opportunities are listed for your perusal. Please keep sending your items to me when they are available.

Although CTAHR no longer has an Agricultural and Resource Economics department, we continue to conduct research in resource economics. One example is the cover story of this issue: Dr. Chennat Gopalakrishnan from the Department of Natural Resource and Environmental Management. Gopal is another old guard in CTAHR (since 1969). Although his specialty is in water resources, he has also engaged in many other areas, including energy. Water is considered the most important natural resource in many parts of world, including Hawaii. Gopal's research contributes to one of our college's strategic goals: Protect and Enhance the Environment and Hawaii's Resources. The outputs generated

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Natural resources policy for Hawaii: CTAHR's cutting-edge research

By Chennat Gopalakrishnan
Professor

Department of Natural Resources and Environmental Management



Gopal and Lukas Sheild (Minnesota) are studying the use of Hawaii water.

Natural resources play a pivotal role in Hawaii's economy. Given this fact, crafting a workable, effective, and sustainable natural resources policy for the state is of the highest importance on the research agenda of CTAHR, especially the Department of Natural Resources and Environmental Management (NREM). It has been my privilege to contribute to this effort as a member of the NREM faculty. The research goals that have guided my work here at the University of Hawaii are:

1. To undertake original research in natural resource and environmental economics and policy, in collaboration with my colleagues from other relevant disciplines, with a view to help develop innovative policies to address and solve major problems;
2. To focus a significant part of my research, in the spirit of the land grant philosophy, on issues of pressing concern to agriculture and natural resources in the State of Hawaii;
3. To communicate my research findings to professional colleagues, policy makers and other relevant constituencies through books, journal articles, technical reports, policy papers and other appropriate outlets; and
4. To provide rigorous training to both graduate and undergraduate students in natural resource and environmental economics and policy through academic courses, research projects, directing thesis and dissertation research and other activities.

I have done extensive research in the natural resources field, especially in water resources, ocean resources, and energy. Research on issues of pressing concern to Hawaii's natural resources accounts for over 75% of my work. This includes my studies on Hawaii's water laws and institutions, analysis of the changing configuration of water demand in Hawaii, including projections of water demand for individual sectors of the economy, Hawaii's coastal zone management, and alternative energy sources, especially biomass. My current research focuses on the political economy of water, water institutions and policy, conflict resolution, and water and disasters. I will discuss below selectively some of my current and past research activities.

My recent work includes a comprehensive study of the evolution of Hawaii's water institutions, a review and critique of the factors that have stymied their optimal functioning, and a case study of the Waiahole project and the water allocation conflicts surrounding

it. Several papers and book chapters have been published based on this research. These publications have examined comprehensively the interconnections between water and power in Hawaii, identifying several aspects of Hawaii's water institutions that needed to be modified in order to ensure optimal allocation of the state's freshwater supply. Among them are changes in the legal doctrine governing water allocation and transfer in Hawaii, specific mechanisms to resolve increasingly recurring conflicts among water uses and users, incorporation of water banking features to effectively address drought conditions, and measures to safeguard Native Hawaiian water rights.

Conceptual issues in the optimal management of water resources constitute an area of special interest in my research portfolio. An important recent work on these issues is Phuong M. Dang's dissertation on "Optimal Management of Renewable Resources: A Dynamic Model of Surface Water Contamination from



Graduate student, Lara Kozloff (Illinois), discusses the finer points of water research with Gopal.

Pesticide Use in Rice Production in the Mekong Delta, Vietnam” done under my supervision. Further research using Dang’s dynamic model to study water quality issues in Hawaii and elsewhere is planned.

In the course of my research on water institutions, I developed the concept of “institutional entropy” in an attempt to explain the decline and fall of water institutions over a relatively long period of time. In the

context of institutions, the idea of entropy, as I envision it, refers to a progressive decrease in effectiveness and efficiency in performing the goals and objectives as originally envisioned and set forth. I have examined this concept in relation to Hawaii’s water institutions and found it valid. My former graduate student, Usukh Batsaikhan, studied Mongolia’s water institutions and found substantial supportive evidence for this concept. Caleb O’Kray (Michigan), a Ph.D. student in our graduate program, is currently doing a comparative study of the evolution, structure, and performance of water institutions in the US and China and as part of his research is examining the role of institutional entropy in these two disparate settings.



Caleb O’Kray
(Michigan)

Another important study that was recently completed provides an overview and analysis of water conservation in Hawaii. One of my former students, Greg Grigson, took the lead in this research effort. Policy improvements were found most effective in the residential and visitor sectors. Recycling wastewater could save 6.4 mgd of freshwater resources. Conservation pricing using increasing-block rates is recommended for all sectors to achieve economic efficiency.



Greg Grigson
(Pennsylvania)

Two of my graduate students, Lara Kozloff (Illinois) and Lukas Sheild (Minnesota), are currently at work on research dealing with political externalities in water resources management and the political economy of water in Hawaii, in that order. The first project examines congressional earmarks and pork-barrel politics that have played and continue to play a major role in the selection and funding of water projects and the impacts of such funding on optimal resource allocation. The second focuses on water and power in Hawaii based on a historical survey and analysis of the evolution of water laws and policies in order to gain insights into the workings of the current water policies of the state.

The changing configuration of agricultural and non-agricultural water use in Hawaii was studied in the 1990s by Parashar B. Malla and myself. Estimates of water demand in the agricultural, industrial-commercial, residential, and the visitor industry sectors



Gopal’s contribution to the area of resource economics includes these five books.

were developed and analyzed and projections for future demand were made. Linda J. Cox and I examined Hawaii's visitor industry and projected that its water consumption would go up markedly in the years ahead, due to an expected 50% increase in golf courses and further expansion of hotels and resorts. The analysis showed that pricing and substitution of non-potable water for potable water could effectively reduce fresh water consumption by the golf courses.

Perhaps the paramount resource problem facing Hawaii is the issue of affordable energy and energy independence. The state has been importing virtually all its energy for the last 100 years by way of oil and oil-based products costing the state over \$1 billion annually. My former graduate students and I have studied in detail the energy situation in Hawaii and suggested viable energy options for the state such as biomass and solar power. In the 1980s, Gholam H. Khaleghi, Prahlad Kasturi, Egnonto N. Koffi-Tessio, and Rajendra B. Shrestha studied energy-nonenergy input substitution in the western United States agriculture, including Hawaii. John F. Yanagida, NREM colleague, also assisted with part of this research. Our findings have pointed to the possibility for input (e.g. labor, land, energy) substitution in times of energy scarcity and also the incentive for conservation that arises when supply is curtailed and prices escalate. I also conducted a study of the impacts of oil price shocks on Hawaii's economy and their policy implications in collaboration with Xijun Tian and Duke Tran using econometric modeling.

Research on management policies related to Hawaii's critical coastal zone dates back to the early 1970s. Our work in this field has been widely used in formulating coastal zone legislation nationally. Jack R. Davidson (former AREC chair) and I identified institutional constraints to coastal zone management and proposed a series of measures to rectify these constraints. John Sisson and I conducted a study to assess the economic impact of additional funding for ocean research as the basis for a more effective ocean policy for the state. I have also done some research on the economic value of non-timber forest products, assisted by Prabodh Illukpitiya.

I am currently collaborating with Professor Norio Okada of Kyoto University on a study of institutional design for integrated disaster risk management and also on the impacts and implications of natural disasters on multiple natural resources. I am also working



Chennat Gopalakrishnan

Hometown: Elankunnapuzha, Kerala, India

Joined CTAHR: 1969

Educational History: Ph.D., Agricultural Economics, Montana State University; B.A. and M.A., Kerala University, India

Specialization: Natural Resource and Environmental Economics and Policy

Current Work: Research in applied natural resource economics and policy, with special reference to water resources. Specific areas of research include institutional entropy, political externalities, and integrated disaster risk management.

Languages Spoken: English, Malayalam

closely with the members of a western-region multi-state project on "Interfacing Technological, Economic, and Institutional Principles for Managing Inter-sector Mobilization of Water". Furthermore, I am working jointly with Professor Asit K. Biswas of the Third World Centre for Water Management in Mexico and Dr. Cecilia Tortajada of the International Centre of Water in Spain on water institutions and policy.

The impact of my work on the field of natural resource economics and policy can be gauged by my publications (five books, 60+ peer-reviewed journal articles, many research reports, and 25 invited conference presentations) and honors and awards I have received. Examples include my selection as a Fellow of the American Water Resources Association, CTAHR Ka Pouhana Mentor Award, Law of the Sea Institute Professor of Social Sciences, reviewer for NSF and USDA, editorial activities for major professional journals and books, service on important scientific advisory committees, and extensive use of my books and research papers by my peers.

It has been a great pleasure working with graduate students and colleagues on many challenging issues of major relevance in the natural resources policy field. Aside from technical papers and publications, such interaction has emboldened me to try my hands at creative forms of communication in the study of natural resources policy, including poetry. A case in point is my poem, "A Coasean Solution," recently published in "The American Economist" (Spring 2007).

The research calabash

By Doug Vincent
Special Program Director for Grants and Contracts

Update on Funding

There is no news about our proposed Congressional earmarks. The Congress is back in session but there has been no progress on completion of the spending bills for the FY 2008 fiscal year that begins on October 1, 2007. The House of Representatives has passed all 12 of the spending bills for FY 2008. The Senate has passed only 4 of the 12 spending bills and HR3161, the Agriculture appropriations bill, is not among the bills passed. Once both bodies pass the appropriations bills, the House of Representatives convene a "Conference" committee to work out details in the bill. The final version is then voted on in both chambers before going to the President, to be signed and to become law. On September 29, 2007, the President signed into law a Continuing Resolution (CR) to keep the federal government operating until the Congress complete its work on the appropriations bills. The CR provides funding at FY 2007 levels through November 16, 2007. The latest rumor is that the new spending bills will be combined into an omnibus spending bill but the details are not expected to be worked out until December 2007 or January 2008.

CTAHR eXchange seeks your input

Besides the continuing information on CTAHR eXchange (www.ctahr.hawaii.edu/cs), we are seeking your input. In the Forums section, we've started a forum on rethinking and reshaping the CTAHR Grants Specialist's position. Go to <http://www.ctahr.hawaii.edu/CS/forums/>. As noted elsewhere in the CTAHR Research News, the current Grants Specialist, Brian Turano, is leaving the CTAHR administration to take a position in the CTAHR Strategic Bioenergy Initiative. We'd like input from the CTAHR community on how this position should be re-advertised. Should it continue as it is? Or should we include new duties and responsibilities? Please log in to CTAHR eXchange to provide input.

In addition to our other forums, we have set up a new forum: "On the Record. CTAHR's On-line Suggestion Box". If you have a question or concern that you wish to raise to the CTAHR administration, this is a

mechanism to do so. Questions or concerns posted on the forum will be distributed to the appropriate CTAHR administrator for a response and the response will be posted.

Changes to USDA CRIS AD-421 Annual Progress / Termination Reports

With the new federal fiscal year, the USDA CRIS system has instituted changes to its AD-421 Annual Progress (Accomplishment) / Termination Report. These reports are required for persons with Hatch, McIntire-Stennis, Animal Health projects and those with special or competitive grants or cooperative agreements funded by USDA. These changes will make the USDA CRIS system congruent with future reporting requirements for all federal funding. The changes will be effective beginning October 1, 2007. New instructions on how to complete the AD 421 Annual reports will be posted. The new Progress/Termination reports will be composed of several narratives called:

- Outputs
- Outcomes/Impacts
- Publications (no change)
- Participants
- Target Audiences
- Project Modifications

The content for the Outputs narrative is similar to the former Progress/Termination Report narrative except that "findings and conclusions" will now be reported in the expanded Outcomes/Impacts field.

New Biosafety Committee Requirements for HDOA Plant Quarantine Import Permits

The moratorium on the processing of new and renewal permits for importing microorganisms has been lifted. See memorandum: http://www.hawaii.edu/ehso/bio/Moratorium_Lifting.pdf. With the lifting of the moratorium, all request to import restricted

commodities into Hawaii, will complete a permit application, PQ-7 (http://www.hawaii.edu/ehso/bio/pq_7.pdf). Instructions are found here: http://www.hawaii.edu/ehso/bio/Instructions_for_Permit_Application.pdf.

Per UH EHSO, additional information should be appended as a separate sheet and include the following:

- Scientific Name:
- Synonym(s):
- Taxonomic Position: (class, order, family, genus)
- Disease Names:
- Hosts: (Scientific Name of Host- make table if necessary)
- Symptoms:
- Geographic Distribution:
- In Hawaii, where?
- Biology and Epidemiology:
- Pest Risk Potential:
 - Consequences of introduction should it be released into the environment.
 - Any treatment, control, eradication?
 - Host range
 - Dispersal potential
 - Economic impact
 - Environmental impact

Contact the Biological Safety Office for more information or go to their web site: <http://www.hawaii.edu/ehso/bio/>.

Hawaii Foods Web Site Launched

CTAHR and the Cancer Research Center of Hawaii have launched a new web site, Hawaii Foods (<http://hawaiifoods.hawaii.edu/>) to provide reliable food and nutrient information to assist Hawaii's people in making healthier dietary choices. Cyndy Kahalewale of HNFAS and COF serves as the Hawaii Foods Project Coordinator. Contact the program at: hawaiifoods@ctahr.hawaii.edu.

10th Biennial Hawaii SBIR and STTR Conference

The 10th Biennial Hawaii SBIR and STTR Conference will be held across the state on November 13-16, 2007. If you have ever been interested in the federal Small Business Innovation Research (SBIR) and the Small Business Technology Transfer (STTR) programs, this conference is for you. Every federal agency that makes grant awards must set aside funding for small businesses and these programs can provide early-stage funding for small innovation-driven U.S. companies. The conference will provide information on writing SBIR phase I and phase II grants. Other topics include information about intellectual property rights and how to attract private investments. There will also be time to network with federal SBIR program managers to learn about the individual SBIR agency funding priorities. The conference is co-sponsored by Hawaii Technology

University of Hawai'i at Mānoa · College of Tropical Agriculture and Human Resources · Cancer Research Center of Hawaii

Hawai'i Foods

Nutrition with aloha

COLLEGE OF TROPICAL AGRICULTURE AND HUMAN RESOURCES
CANCER RESEARCH CENTER OF HAWAII

Search
for a food or ingredient
 Go

Browse
by food groups to find
a food or ingredient.

Learn
about the quality of
your diet.

Discover
recipes, publications,
links

The new CTAHR and Cancer Research Center Hawai'i Foods website serves a broad audience.



ASHS HortTalk website now up!

Development Corporation (HTDC) and the HTDC-Manufacturing Extension Partnership. Other supporters are: Hawaii Strategic Development Corporation (<http://htdc.org/hsdc/index.html>); Hawaii Technology Development Venture (<http://www.hitdv.com/>); Enterprise Honolulu (<http://www.enterprisehonolulu.com/html/index.cfm>); UH Office of Technology Transfer and Economic Development (<http://www.mic.hawaii.edu/>); Maui Economic Development Board (<http://www.medb.org/>); Kauai Economic Development Board (<http://www.kedb.com/>); Hawaii Island Economic Development Board (<http://www.hiedb.org/>); and the Hawaii Small Business Development Center Network (<http://www.hawaii-sbdc.org/>).

Dates and Venues:

Oahu – Tuesday, November 13, 2007 – Sheraton Waikiki
 Maui – Wednesday, November 14, 2007 – Wailea Beach Marriott Resort
 Kauai – Thursday, November 15, 2007 – Hilton Kauai Beach Resort
 Big Island (Kona side) – Friday, November 16, 2007 – Waikoloa Beach Marriott

This is a great opportunity – for a small state, Hawaii does very well in obtaining funding through these programs. HTDC maintains an office dedicated to helping SBIR/STTR applicants. For more information and to register – see the web site: http://www.htdc.org/sbir/conference_2007/.

HortTalks now available for download.

The American Society for Horticultural Sciences (ASHS) has published multimedia podcast files of 98 horticulture presentations from the 2007 Annual Conference held recently in Scottsdale, AZ. Sessions range from “Biotechnology for Horticultural Crops” to “Vegetable Crops Culture and Management.” Presentations can be downloaded for iPods or iTunes. For more information about HortTalks, see the web site: <http://ashs.org/resources/videoworkshopseries.html>. Free iTunes software can be downloaded here: <http://www.apple.com/itunes/download/>.

CTAHR Distinguished Visiting Scholar Program Seeking Applicants, (Reprise)

The CTAHR Dean’s Office is seeking nominations of scholars to participate in the CTAHR Excellence in Science Distinguished Visiting Scholar Program. The nomination must demonstrate that the proposed visit will have a significant positive impact on the college community. The selection panel will give preference to the following types of nominees: 1) Individuals with distinguished national and international reputation or professional field; 2) individuals whose contributions have increased the significance of science education; and 3) individuals who have a broad appeal to our college and community. For more information about the program go here: http://www.ctahr.hawaii.edu/vincent/CTAHR_Visiting_Scholar_RFP.pdf. Nominations are due **November 30, 2007**.

CTAHR Pathway for Proposals (Reprise)

The CTAHR Office of Research has prepared a flowchart on how to process proposals in preparation for submission of grant proposals. It also includes information on how to process approvals for the Committee on Human Studies; Institutional Animal Care and Safety Committee, Biosafety Committee and others regulatory compliance issues. We hope you and your office staff will use this document to process the paperwork in terms. Please give it try and if you have suggestions for improvement, please let Doug Vincent know. To download the flow chart, go here: http://www.ctahr.hawaii.edu/vincent/Pathway_To_Proposals.pdf.

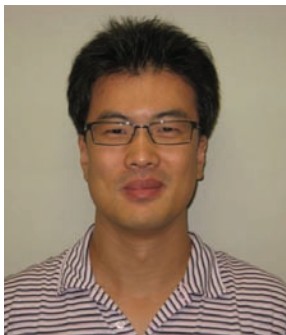
Is UH-M a Minority Serving Institution? (Reprise)

Back in May 2006, the Department of Education ruled that the University of Hawaii system was no longer qualified as a "Minority Serving Institution." Through the efforts of UH Leadership and others within UH,

an appeal was made to restore the University of Hawaii status as a Minority Serving Institution and other programs under Title III, Part A and Title V of the Higher Education Act, as amended. The appeal was granted as of April 2, 2007. Why is this important? Most federal grant funding programs provides **extra consideration** for Minority Serving Institutions. This may involve additional programs or special opportunities or funding "set-asides" for eligible institutions. Because this change occurred between periods of designation, applicants must provide documentation of eligibility with their grant proposal and for an adequate audit trail. To do so, download the document and attach this document to any proposal submission to ensure that your proposal is eligible for consideration of these programs. If you are submitting a proposal "on-line," include a copy of this document among the files uploaded with your proposal. The eligibility evidence document can be found here: http://www.ctahr.hawaii.edu/vincent/Eligibility_Certification_Approval.pdf.

CTAHR welcomes new faculty!

It is always a pleasure to welcome new people to CTAHR. Here is someone we missed in our last issue. Aloha Soojin!



Soojin Jun

Assistant Professor / HNFAS / Manoa

Hometown: Seoul, Korea

Joined CTAHR: January 1, 2006

Educational History: B.S., 1996, Food Science and Technology, Seoul National University, Seoul, Korea
M.S., 1998, Food Engineering, Seoul National University, Seoul, Korea
Ph.D., 2002, Agricultural and Biological Engineering, The Pennsylvania State University, University Park, PA

Specialization: Food processing, Computer simulation; Food safety engineering; Food properties measurements; Carbon nanotube applications; Biosensors; Food packaging

Current Work: Quantification of sweeteners in beverages and soft drinks using FTIR spectroscopy; kavalactones; Trans fat in oil and sugars in dairy products; Pouched beef products; CFD simulation of milk fouling on heat exchanger surfaces; Aligned carbon nanotube array on sensing surface of SPR biosensors.

Aloha to Brian Turano!

For over four years, Dr. Brian Turano has been CTAHR's Grant Specialist. Brian is leaving the CTAHR Administration to join CTAHR's Bioenergy Strategic Initiative as an Assistant Specialist in Bioenergy in the Department of Tropical Plant and Soil Sciences. Of late, Brian has aided multidisciplinary teams on the development and implementation of bioenergy-related grant proposals and awards, and developed an affinity for bioenergy and renewable energy issues.

As CTAHR's Grant Specialist, Brian was instrumental in the development of many large grant proposals; the first big success was the USAID Hawaii-Iraq Partnership for Revitalizing Agricultural Education and Development for over \$3.77 million (Samir El-Swaify, NREM, is the PI). This initial project has had continuing impacts with subsequent projects with the Kurdistan government and joint projects with Texas A&M, supporting Iraq agricultural redevelopment.

Besides working with multi-disciplinary teams, Brian also worked with individual faculty, held grant writing workshops for faculty, and developed training materials to assist faculty and staff



Brian Turano.

in preparing proposals. Currently, he is teaching CTAHR's Grant Writing for Graduate Students class with Doug Vincent.

Brian begins his new position on October 1, 2007. We wish Brian great success.

Aloha to Luella Costales!

Ms. Luella Costales, Director of Development for CTAHR over the last 2 ½ years is leaving us and UH-Manoa to take up an exciting new position as Director of Development for UH-West Oahu. Luella's last day was Friday, September 28, 2007. She will continue support CTAHR until the University of Hawaii Foundation assigns new development support to the College. She will still work with donors and faculty members on current or pending gifts to CTAHR until such time that the gifts are realized. We bid Luella a fond and warm aloha as she takes up these new responsibilities with the UH Foundation. She won't be a stranger and you can still reach her by e-mail at luella.costales@uhf.hawaii.edu. Good luck and thanks for your good works.



Luella Costales at the 2007 CTAHR Awards Banquet. Pictured (L-R), Eric Tanouye, Green Point Nursery, Luella Costales, Harold Tanouye, Green Point Nursery, Kathleen Yoshinaga, Stanley Ito Florists. Luella was instrumental in enhancing the Hawaii Florist and Shippers Association Scholarship to CTAHR.

Waimanalo Plant Science Field Day

By Doug Vincent
Special Program Director for Grants and Contracts

If you missed the Waimanalo Plant Science Field Day at CTAHR's Waimanalo Experiment Station (<http://www.ctahr.hawaii.edu/site/locationdetails.aspx?id=ER-OWAIM>) on Saturday, September 22, 2007, you missed a wonderful opportunity to see the diversity of work that CTAHR is doing in the plant sciences. Field trials of sweet corn, hot peppers, taro, malunggay, papaya, coffee, cacao, and kava were available. A plumeria "grove" with many varieties provided a colorful and "scentful" experience. Organic agriculture, energy crops, and "cold water agriculture" plots were displayed. Chef Alfredo and his KCC culinary students cooked up new dishes using the station's sweet corn. Dessert was chocolate mousse from CTAHR's own cacao. Booths from CTAHR supporters such as the Hawaii Agricultural Research Center and the Hawaii Crop Improvement Association provided information for the visitors. Ania Wieczorek and the staff of the CTAHR Biotechnology and Agriculture Education (<http://www.ctahr.hawaii.edu/biotech/>) program provided an interactive booth where DNA could be extracted from strawberries and where participants could learn all about different traits and genetics.

There are many to thank that made this successful field day possible, starting with Mr. Roger Corrales, farm manager, and his staff. Mr. Ray Uchida, Oahu County Administrator and Dr. Wayne Nishijima, CTAHR Associate Dean and Associate Director for Cooperative Extension also deserve mahalos for making the field day success. Many faculty and graduate students in the Departments of Tropical Plant and Soil Sciences, Plant and Environmental Protection Sciences, and Natural Resource and Environmental Management contributed time and effort to the field day.



Dr. Jim Brewbaker of the Department of Tropical Plant and Soil Sciences explaining sweet corn varieties



Dr. Anne Alvarez, PEPS, questions, Dr. Kent Fleming, TPSS, about cold water agriculture experiments conducted at Waimanalo. Kent and Ted Radovich are conducting these experiments.



Dr. Ted Radovich, TPSS, explains how they took the heat out of the jalapeno peppers grown at Waimanalo.



Cacao pods, where chocolate comes from, on CTAHR's Waimanalo Experiment Station. Dr. H.C. "Skip" Bittenbender, TPSS, works on cacao cultivation.



Future site of the student-run organic garden at Waimanalo.



Colorful plumeria varieties in field research conducted by Dr. Rich Criley, TPSS. Dr. Criley has developed methods to induce winter flowering in plumeria.



Dry land taro varieties at the Waimanalo Research Station



Organic sweet corn plots as part of CTAHR's efforts to support the organic farmers of Hawaii.



Gayle Hori of the CTAHR Biotechnology and Agriculture Education Program explains to visitors at the Waimanalo Plant Science Field Day that "tongue rolling" is an inherited trait. Not everyone can do it.

Plenty 'kine' grant funding opportunities

By Doug Vincent
Special Program Director for Grants and Contracts

Ample funding opportunities abound. Most notably USDA CSREES have just released their RFA's for the National Research Initiative Competitive Grants program (NRICG). For general information about the NRICG program, go to their web site at: <http://www.csrees.usda.gov/fo/nationalresearchinitiative.cfm>. New this year is that many programs are now requiring letters of intent (LOI). Deadlines for LOI's are included below. If you are uncertain, contact the program contact at USDA CSREES. Believe me, they are there to help you.

The other thing to keep in mind is that most, if not all, requests for funding to the federal government must be submitted via www.grants.gov. You should become familiar with the online tools for preparation of proposals via grants.gov. Grants.gov uses two methods to prepare applications: The older PureEdge reader (version 6.0.2)

and now Adobe Acrobat Reader (version 7.0.9). Both are free products available from the grants.gov web site. Grants.gov is in the process of migrating to use of Adobe Acrobat Reader. Unfortunately, in either case, if you have a Windows Vista machine, neither of these programs appears to be supported. But don't let that discourage you. Adobe is releasing a new version of their Reader product that will be compatible with Vista and Grants.gov forms. For more information about compatibility issues see this web site: http://www.grants.gov/assets/Vista_and_office_07_Compatibility.pdf.

Don't let this deter you, we can find ways to support your desire to submit a grant proposal. Let us know if you're having difficulties and our office will be supportive. Let's make this year a very productive year in extramural, competitive grant funding. Good luck.

University of Hawaii
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_f.pdf

CHS Foundation

Rural Youth and Leadership Development

Proposal Deadline: rolling – applications accepted year round

<http://www.chsfoundation.org/programs/ryld.htm>

CHS Foundation

Returning Value to Rural Communities

Proposal Deadline: rolling – applications accepted year round

<http://www.chsfoundation.org/programs/rvrc.htm>

U.S. Department of Agriculture
CSREES – NRI

Animal Protection and Biosecurity (A): Animal Disease

Letter of Intent Due: October 9, 2007

Proposal Deadline Due: December 19, 2007

<http://www.csrees.usda.gov/fo/animalprotectionandbiosecuritynri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

Hawaii Department of Agriculture
Matching Marketing Funds

Proposal Deadline: October 15, 2007

http://www.ctahr.hawaii.edu/vincent/HDOA_Matching_Marketing_Funds.pdf

U.S. Department of Commerce
National Oceanic and Atmospheric Administration

NOAA Marine Aquaculture Program

Preproposals Due: October 18, 2007

Proposal Deadline: January 24, 2008

<http://apply.grants.gov/opportunities/instructions/oppOAR-SG-2008-2001205-cfda11.417-cid2097068-instructions.pdf>

U.S. Environmental Protection Agency

Fall 2008 EPA Science to Achieve Results (STAR)

Fellowships for Graduate Environmental Study

Proposal Deadline: October 23, 2007

http://es.epa.gov/ncer/rfa/2008/2008_star_fellow.html

U.S. Environmental Protection Agency

Fall 2008 EPA Greater Research Opportunities (GRO)

Fellowships for Graduate Environmental Study

Proposal Deadline: October 23, 2007

http://es.epa.gov/ncer/rfa/2008/2008_gro_grad.html

National Institutes of Health

Institutional Clinical and Translational Science Award (U54)

Letter of Intent due: September 24, 2007

Proposal Deadline: October 24, 2007

<http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-07-007.html>

U.S. Department of Education

Fulbright-Hays Faculty Research Abroad Fellowship Program

Proposal Deadline: October 31, 2007

<http://a257.g.akamaitech.net/7/257/2422/01jan20071800/edocket.access.gpo.gov/2007/pdf/E7-17362.pdf>

University of Hawaii
University Research Council
Research Relations Fund
Proposal Deadline: October 31, 2007
http://www.hawaii.edu/urc/pdf/resrel_g.pdf
http://www.hawaii.edu/urc/pdf/resrel_f.pdf

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
FY2008 Community-based Marine Debris Prevention and Removal Grants
Proposal Deadline: October 31, 2007
<http://apply.grants.gov/opportunities/instructions/oppNMFS-HCPO-2008-2001026-cfda11.463-cid2076027-instructions.pdf>

National Science Foundation
Graduate Research Fellowship Program
Proposal Deadline: November 1, 2007
http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf07576

U.S. Department of Agriculture
Western Regional Sustainable Agriculture Research and Education
Professional Development Grants
Proposal Deadline: November 1, 2007
http://wsare.usu.edu/grants/docs/req_pd_08.pdf

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
Projects to Improve or Amend Coral Reef Fishery
Proposal Deadline: November 1, 2007
<http://apply.grants.gov/opportunities/instructions/oppNMFS-HCPO-2008-2001027-cfda11.441-cid2076034-instructions.pdf>

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Estuarine Research Reserve Graduate Research Fellowship Program FY08
Proposal Deadline: November 1, 2007
<http://apply.grants.gov/opportunities/instructions/oppNOS-OCRM-2008-2001046-cfda11.420-cid2077365-instructions.pdf>

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
General Coral Reef Conservation
Proposal Deadline: November 1, 2007
<http://apply.grants.gov/opportunities/instructions/oppNMFS-HCPO-2008-2001019-cfda11.463-cid2075859-instructions.pdf>

Fund for Wild Nature
Proposal Deadline: November 2, 2007
<http://www.fundwildnature.org/proposal.html>

U.S. Department of Agriculture
CSREES – NRI
Biobased Products and Bioenergy Production Research
Letter of Intent due: November 2, 2007
Proposal Deadline: January 17, 2008
<http://www.csrees.usda.gov/fo/biobasedproductsbioenergyinri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

National Science Foundation
Postdoctoral Research Fellowships in Biology
Proposal Deadline: November 5, 2007
http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf07580

U.S. Department of Education
Fulbright-Hays Doctoral Dissertation Research Abroad Fellowship Program
Proposal Deadline: November 5, 2007
<http://a257.g.akamaitech.net/7/257/2422/01jan20071800/edocket.access.gpo.gov/2007/pdf/E7-17526.pdf>

U.S. Department of Agriculture
CSREES – NRI
Bioactive Food Components for Optimum Health
Letter of Intent Due: November 5, 2007
Proposal Deadline: January 17, 2008
<http://www.csrees.usda.gov/fo/bioactivefoodcomponentsnri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Department of Agriculture
CSREES – NRI
Improving Food Quality and Value
Letter of Intent Due: November 5, 2007
Proposal Deadline: January 17, 2008
<http://www.csrees.usda.gov/fo/foodqualityandvaluenri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

Department of Health and Human Services
National Institute of Health
Long-Term Weight Maintenance: Basic and Clinical Studies (R01)
Proposal Deadline: 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: 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: November 5, 2007
<http://grants.nih.gov/grants/guide/pa-files/PA-07-061.html>

National Institutes of Health, National Science Foundation, U.S. Department of Agriculture, Department of Energy
International Cooperative Biodiversity Groups (ICBG)
Letter of Intent due: November 6, 2007
Proposal Deadline: December 4, 2007
<http://grants.nih.gov/grants/guide/rfa-files/RFA-TW-08-003.html>

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
CRCP-State and Territory Coral Reef Management Grants
Letter of Intent due: November 6, 2007
Proposal Deadline: February 22, 2008
<http://apply.grants.gov/opportunities/instructions/oppNOS-OCRM-2008-2001014-cfda11.419-cid2075642-instructions.pdf>

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
2008 CRCP Coral Reef Ecosystem Monitoring
Letter of Intent due: November 6, 2007
Proposal Deadline: February 22, 2008
<http://apply.grants.gov/opportunities/instructions/oppNOS-NCCOS-2008-2001069-cfda11.426-cid2077780-instructions.pdf>

U.S. Department of Agriculture
CSREES – Critical Issues: Emerging and New Plant and Animal Pests and Diseases
Proposal Deadline: November 6, 2007
<http://www.csrees.usda.gov/fo/criticalissuesplantandanimalpestsanddiseases.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_critical_issues.pdf

University of Hawaii
University Research Council
Special Fund for Innovative Scholarship and Creative Work
Proposal Deadline: November 8, 2007
http://www.hawaii.edu/urc/pdf/special_g.pdf
http://www.hawaii.edu/urc/pdf/special_f.pdf

National Institutes of Health / Environmental Protection Agency
Exploratory Investigations in Food Allergy (R21)
Letter of Intent due: November 9, 2007
Proposal Deadline: December 10, 2007
<http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-07-032.html>

U.S. Department of Agriculture
CSREES – NRI
Animal Reproduction
Proposal Deadline: November 15, 2007
<http://www.csrees.usda.gov/fo/animalreproductionnri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

American Association of University Women
American Fellowships
Proposal Deadline: November 15, 2007
http://www.aauw.org/fga/fellowships_grants/american.cfm

U.S. Department of Agriculture
Foreign Agriculture Service
International Agricultural Internship Program
Application Deadlines: November 15, 2007, April 3, 2008
<http://www.fas.usda.gov/admin/student/iaip/index.htm>

Smithsonian Tropical Research Institute
Short Term Fellowships Programs
Proposal Deadlines: November 15, 2007, February 15, 2008, May 15, 2009
http://www.stri.org/english/education_fellowships/fellowships/stri_programs.php

U.S. Department of Agriculture
CSREES – NRI
Soil Processes
Letter of Intent Due: November 19, 2007
Proposal Deadline: February 14, 2008
<http://www.csrees.usda.gov/fo/soilprocessesnri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Department of Agriculture
CSREES –NRI
Animal Genome (E): Whole Genome Enabled Animal Selection
Letter of Intent Due: November 26, 2007
Proposal Deadline: February 14, 2008
<http://www.csrees.usda.gov/fo/animalgenomegenomeenabledselectionnri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Department of Agriculture
CSREES –NRI
Arthropod and Nematode Biology and Management (D): Protection of Managed Bees Coordinated Agricultural Project (CAP)
Letter of Intent Due: November 26, 2007
Proposal Deadline: February 14, 2008
<http://www.csrees.usda.gov/fo/arthropodnematodemanagedbeescapnri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Department of Agriculture
CSREES –NRI
Arthropod and Nematode Biology and Management (B): Organismal and Population Biology
Letter of Intent Due: November 26, 2007
Proposal Deadline: February 14, 2008
<http://www.csrees.usda.gov/fo/arthropodnematodeorganismalbiologynri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Department of Agriculture
CSREES –NRI
Plant Biology (C): Biochemistry
Letter of Intent Due: November 26, 2007
Proposal Deadline: February 14, 2008
<http://www.csrees.usda.gov/fo/plantbiologybiochemistrynri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Department of Agriculture
CSREES –NRI
Plant Biology (D): Growth and Development
Letter of Intent Due: November 26, 2007
Proposal Deadline: February 14, 2008
<http://www.csrees.usda.gov/fo/plantbiologygrowthanddevelopmentnri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Department of Agriculture
CSREES –NRI
Plant Genome (D): Applied Plant Genomics CAP
Letter of Intent Due: November 26, 2007
Proposal Deadline: February 14, 2008
<http://www.csrees.usda.gov/fo/plantgenomenri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

American Association of University Women
International Fellowships
Proposal Deadline: December 1, 2007
http://www.aauw.org/fga/fellowships_grants/international.cfm

National Science Foundation
**Small Business Innovation Research – Phase I
Bio & Environmental Technologies; Components & Systems;
Software & Services**
Proposal Deadline: December 4, 2007
http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf07586

U.S. Department of Agriculture
CSREES – NRI
Biology of Weedy and Invasive Species in Agroecosystems
Letter of Intent Due: December 6, 2007
Proposal Deadline: March 5, 2008
<http://www.csrees.usda.gov/fo/weedyinvasivespeciesnri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

Staples Foundation for Learning®
Teach – Train – Inspire ®
Proposal Deadlines: December, 7, 2007
<http://www.staplesfoundation.org/foundhome.html>

U.S. Department of Agriculture
Western Regional Sustainable Agriculture Research and
Education
Professional + Producer Grants
Proposal Deadline: December 7, 2007
http://wsare.usu.edu/grants/docs/req_pp_08.pdf

U.S. Department of Agriculture
Western Regional Sustainable Agriculture Research and
Education
Farmer-Rancher Grants
Proposal Deadline: December 7, 2007
http://wsare.usu.edu/grants/docs/req_fr_08.pdf

National Science Foundation
**East Asia and Pacific Summer Institutes for U.S. Graduate
Students**
Proposal Deadline: December 12, 2007
http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf07584

American Association of University Women
Career Development Grants
Proposal Deadline: December 15, 2007
http://www.aauw.org/fga/fellowships_grants/career_development.cfm

Organic Farming Research Foundation
Research Proposals
Proposal Deadline: December 17, 2007 (firm), July 16, 2008
(estimated)
http://ofrf.org/grants/apply_research.html

U.S. Department of Agriculture
CSREES – NRI
**Animal Protection and Biosecurity (B)(C): Animal Well-Being,
Coordinated Agricultural Project (CAP)**
Proposal Deadline: December 19, 2007
<http://www.csrees.usda.gov/fo/animalprotectionandbiosecuritynri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Department of Agriculture
CSREES – NRI
**Food Safety and Epidemiology (A): Biological Approaches for
Food Safety**
Proposal Deadline: December 19, 2007
<http://www.csrees.usda.gov/fo/foodsafety/nri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Department of Agriculture
CSREES – NRI
**Food Safety and Epidemiology (B): Epidemiological
Approaches for Food Safety**
Proposal Deadline: December 19, 2007
<http://www.csrees.usda.gov/fo/foodsafety/epidemiologicalapproachesnri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Environmental Protection Agency
**Fall 2008 EPA Greater Research Opportunities (GRO)
Fellowships for Undergraduate Environmental Study**
Proposal Deadline: December 19, 2007
http://es.epa.gov/ncer/rfa/2008/2008_gro_undergrad.html

U.S. Environmental Protection Agency
**5th Annual P3 awards: A National Student Design Competition
for Sustainability Focusing on People, Prosperity and the
Plant.**
Proposal Deadline: December 20, 2007
http://es.epa.gov/ncer/rfa/2008/2008_p3.html

International Foundation for Science
**Sustainable Management, Conservation of Biological or
Water Resources**
Proposal Deadline: December 31, 2007
<http://www.ifs.se/>

American Orchid Society
Research Grants
Proposal Deadline: January 1, 2008
<http://aos.org/aos/uploadedfiles/docs/guidelinesgrants.pdf>

National Science Foundation
Long Term Research in Environmental Biology
Proposal Deadline: January 9, 2008, July 9, 2008
http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf07588

National Science Foundation
**Research Initiation Grants and Career Advancement Awards
to Broaden Participation in Biology**
Proposal Deadline: January 14, 2008
http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf07560

American Association of University Women
Community Action Grants
Proposal Deadline: January 15, 2008
http://www.aauw.org/fga/fellowships_grants/community_action.cfm

Binational Agricultural Research and Development Fund
Senior Research Fellowship Grants
Proposal Deadline: January 15, 2008
http://www.bard-isus.com/ResFellguide_07.pdf

U.S. Department of Agriculture
CSREES – NRI
Water and Watersheds
Proposal Deadline: January 17, 2008
<http://www.csrees.usda.gov/fo/waterandwatershedsnri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Department of Agriculture
CSREES – NRI
Nanoscale Science and Engineering for Agriculture and Food Systems
Proposal Deadline: January 17, 2008
<http://www.csrees.usda.gov/fo/nanoscalescienceengineeringnri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
NOAA Marine Aquaculture Program
Preproposals Due: October 18, 2007
Proposal Deadline: January 24, 2008
<http://apply.grants.gov/opportunities/instructions/oppOAR-SG-2008-2001205-cfda11.417-cid2097068-instructions.pdf>

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Marine Fisheries Service – Sea Grant Fellowships in Population Dynamics
Proposal Deadline: January 25, 2007
<http://apply.grants.gov/opportunities/instructions/oppOAR-SG-2008-2001201-cfda11.417-cid2096960-instructions.pdf>

Conservation, Food and Health Foundation
Grants directed conservation, food and health in the Developing World
Concept Applications Due: February 1, 2008
<http://www.grantsmanagement.com/cfhguide.html>

Binational Agricultural Research and Development Fund
Workshop Grants
Proposal Deadline: February 1, 2008
http://www.bard-isus.com/Workshop_07.pdf

National Science Foundation
Innovation and Organizational Change
Proposal Deadline: February 2, 2008
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5378

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
Dr. Nancy Foster Scholarship Program (for Marine biology)
Proposal Deadline: February 8, 2008
<http://apply.grants.gov/opportunities/instructions/oppNOS-NMS-2008-2001067-cfda11.429-cid2077754-instructions.pdf>

U.S. Department of Agriculture
CSREES – NRI
Plant Genome
Proposal Deadline: February 14, 2007
<http://www.csrees.usda.gov/fo/plantgenomenri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Department of Agriculture
CSREES – NRI
Rural Development
Proposal Deadline: February 14, 2007
<http://www.csrees.usda.gov/fo/ruraldevelopmentnri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Marine Fisheries Service – Sea Grant Fellowships in Marine Resource Economics
Proposal Deadline: February 22, 2008
<http://apply.grants.gov/opportunities/instructions/oppOAR-SG-2008-2001202-cfda11.417-cid2097004-instructions.pdf>

National Science Foundation
Research on Gender in Science and Engineering FY 2008
Proposal Deadline: February 25, 2008
http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf07578

University of Hawaii
University Research Council
Undergraduate Summer Research Award
Proposal Deadline: February 29, 2007
http://www.hawaii.edu/urc/pdf/uheh_g.pdf
http://www.hawaii.edu/urc/pdf/uheh_f.pdf

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
Dean John A. Knauss Marine Policy Fellowship
Proposal Deadline: February 29, 2008
<http://apply.grants.gov/opportunities/instructions/oppOAR-SG-2009-2001198-cfda11.417-cid2096905-instructions.pdf>

U.S. Department of Agriculture
CSREES – NRI
Air Quality
Letter of Intent Due: March 5, 2008
Proposal Deadline: June 5, 2008
<http://www.csrees.usda.gov/fo/airqualitynri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Department of Agriculture
CSREES – NRI
Animal Genome (D): Functional Genomics
Letter of Intent Due: March 14, 2008
Proposal Deadline: June 5, 2008
<http://www.csrees.usda.gov/fo/animalgenomefunctionalgenomicsnri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Department of Agriculture
CSREES – NRI
Animal Genome (A): Translational Animal Genomics
Letter of Intent Due: March 14, 2008
Proposal Deadline: June 5, 2008
<http://www.csrees.usda.gov/fo/animalgenometranslationalgenomicsnri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Department of Agriculture
CSREES – NRI
**Arthropod and Nematode Biology and Management (B):
Suborganismal Biology**
Letter of Intent Due: March 14, 2008
Proposal Deadline: June 5, 2008
<http://www.csrees.usda.gov/fo/arthropodnematodesuborganismalbiologynri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Department of Agriculture
CSREES – NRI
**Arthropod and Nematode Biology and Management (C):
Tools, Resources and Genomics**
Letter of Intent Due: March 14, 2008
Proposal Deadline: June 5, 2008
<http://www.csrees.usda.gov/fo/arthropodnematodetoolsresourcesgenomicsnri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Department of Agriculture
CSREES – NRI
Plant Biosecurity
Letter of Intent Due: March 14, 2008
Proposal Deadline: June 5, 2008
<http://www.csrees.usda.gov/fo/plantbiosecuritynri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

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

U.S. Department of Agriculture
CSREES – NRI
Animal Genome (C): Bioinformatics
Proposal Deadline: June 5, 2008
<http://www.csrees.usda.gov/fo/animalgenomebioinformaticsnri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Department of Agriculture
CSREES – NRI
Animal Genome (B): Tools and Resources
Proposal Deadline: June 5, 2008
<http://www.csrees.usda.gov/fo/animalgenometoolsresourcesnri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Department of Agriculture
CSREES – NRI
Animal Growth and Nutrient Utilization
Proposal Deadline: June 5, 2008
<http://www.csrees.usda.gov/fo/animalgrowthandnutrientusenri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Department of Agriculture
CSREES – NRI
Human Nutrition and Obesity
Proposal Deadline: June 5, 2008
<http://www.csrees.usda.gov/fo/humannutritionobesitynri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

U.S. Department of Agriculture
CSREES – NRI
Agricultural Prosperity for Small and Medium-Sized Farms
Proposal Deadline: June 5, 2008
<http://www.csrees.usda.gov/fo/smallfarmsagriculturalprosperitynri.cfm>
http://www.csrees.usda.gov/funding/rfas/pdfs/08_nri.pdf

New faculty publications

Loren Gautz (MBBE)

Yutaka Kitamura, Dan Paquin, Loren Gautz, and Tung Liang. 2007. A rotational hot gas heating system for bioreactors. *Biosystems Engineering*. Volume 98, Issue 2, October 2007, Pages 215-223.

Creighton Litton (NREM)

Litton, C.M., Raich, J.W., Ryan, M.G. 2007. Review: Carbon allocation in forest ecosystems. *Global Change Biology* 13:2089-2109.

Diane Masuo (FCS)

Masuo, D., Kutara, P., Wall, R., and Cheang, M. 2007. Financial Information Project: Assessing the Financial Interests of College Students. *Journal of Family & Consumer Sciences* (99:3), pp. 29-36.

Winston Su (MBBE)

Vardar-Schra, G., Krab, I.M., Yi, G., Su, W.W. 2007. A homogeneous fluorometric assay platform based on novel synthetic proteins. *Biochem. Biophys. Res. Commun.* 361, 102-108.

Su, W.W. 2007. Sensor constructs and detection methods. US patent 7247443, issued on July 24, 2007.

Great work, everyone!

Another good month for new grants!

By Doug Vincent
Special Program Director for Grants and Contracts

Since we last reported to you in the July-August edition of CTAHR Research News, we have had a pretty good month of funding. From August 21 through September 27, 2007, we have received 19 awards for \$1,293,477. The funding has been received by professors, researchers, extension specialists and extension agents. Funding sources have included USDA ARS, USDA NRCS, USDA CSREES, the Western SARE

program, National Institutes of Health, U.S. Department of Health and Human Services, National Oceanic and Atmospheric Administration, County of Hawaii, and Oregon State University. It illustrates that ANYONE can find funding to support their programs. There are many opportunities listed elsewhere in this edition of the CTAHR Research News, we encourage you to seek out the funding to support and enhance your programs.

First name	Last name/Dept	Project Name	Funder	Amount
Anne	Alvarez / PEPS	Survey for Bacterial Pests Associated with Heart Rot Disease of Pineapple and Blight Diseases of Vegetatively Propagated Ornamental Crops	DA - Dept. of Agriculture	\$28,410
Jim	Brewbaker / TPSS	Potential Productivity of Corn-based Bioethanol for Hawaii County	Hawaii County	10,000
Jonathan	Deenik / TPSS	SARE Professional Development Program Plan for Hawaii	Utah State University	15,000
Carl	Evensen / NREM	Coordination and Implementation of Hawaii's Local Action Strategy to Address Land-Based Pollution Threats to Coral Reefs	DA - Natural Resources Conservation Service (NRCS)	25,000
Ken	Grace / PEPS	2007 -- Funding for Research of Mutual Interest - Amendment #1	DA - Dept. of Agriculture	6,550
Ken	Grace / PEPS	USDA-ARS Specific Cooperative Agreement No. 58-6615-4-237, Amendment 03	DA - Dept. of Agriculture	60,500
Ken	Grace / PEPS	Management of Formosan Subterranean Termites in Hawaii Through School Campus Based Research and Suppression	DA - Dept. of Agriculture	59,463
Ken	Grace / PEPS	2007 Funding for Mutual Interest	DA - Dept. of Agriculture	22,000
Ehklass	Jarjees / NREM	Portal Program for Iraq and Afghanistan Provincial Reconstruction Teams (PRT-Portal)	DA - Dept. of Agriculture	471,646
Naomi	Kanehiro / HNFAS	Food Stamp Nutrition Education - UH/CES	DHHS- Dept of Health & Human Services	149,640
Ping Sun	Leung / MBBE	Economic Analytical Support for Fishery Management Actions	DOC - National Oceanic and Atmospheric Administration	24,000
Creighton	Litton / NREM	Relationship of an Alien Plant, Fuel Dynamics, Fire Weather and Unprecedented Wildfires in Hawaiian Rain Forest	Oregon State University	22,966
Susan	Miyasaka / TPSS	Evaluation of Sweet Potato Cultivars for Fuel Alcohol Production	Hawaii County	5,000
Pratibha	Nerurkar / MBBE	Longevity Foods, Sirt Activation and Diabetic Dyslipdemia	National Institutes of Health	173,000
Mel	Nishina / TPSS	Conversion of Invasive Species into Charcoal and Assessment of Use as Potting Media	Hawaii County	5,000
Ted	Radovich / TPSS	Enhancing Phyto-nutrient Content, Yield and Quality of Vegetables with Compost Tea in the Tropics	DA - Dept. of Agriculture	45,343
Dwight	Sato / PEPS	Evaluating Yield Potential and Quality Parameters of Taiwan and China Oolong Tea for Small Scale Production in Hawaii	Hawaii County	8,000
Paul	Singleton / TPSS	Improved Water Management Technology for Hawaii's High Value Export Crops	Hawaii County	11,959
Sabina	Swift / PEPS	A Risk Management Training Program for Socially Disadvantaged Filipino and Southeast Asian Growers of Hawaii	DA - Dept. of Agriculture	150,000
Totals			19 grants for a total of: \$1,293,477	

More MOU's the better for CTAHR

By CY Hu

Associate Dean and Associate Director for Research

International activity is an integral part of any successful academic program of a university. Because of CTAHR'S geographic location, it is imperative for us to have a closer relationship with institutions in the Pacific Rim countries. CTAHR has 14 existing international cooperative Memorandums of Understanding (MOU), which are intended to facilitate and ensure the success of faculty and student exchanges between these institutions and CTAHR. Last year, MOUs with the University of Philippine, Los Banos, Mariano Marcos State University were established, and an MOU with the National Pingtung University of Science and Technology was renewed. This year, CTAHR is expanding its ties to institutions of higher

learning in the People's Republic of China. Dean Hashimoto has signed a MOU with Shandong Academy of Agricultural Sciences and renewed MOUs with China Agricultural University, Shandong Agricultural University, Zhejiang University, and South China Agricultural University during a to China in early September. We are also discussing the development of similar MOUs with Zhongkai University in Guangzhou, the Tea Research Institute of the China Academy of Agricultural Sciences in Hangzhou, Yunnan Agricultural University in Kunming, and South China University of Tropical Agriculture in Hainan.

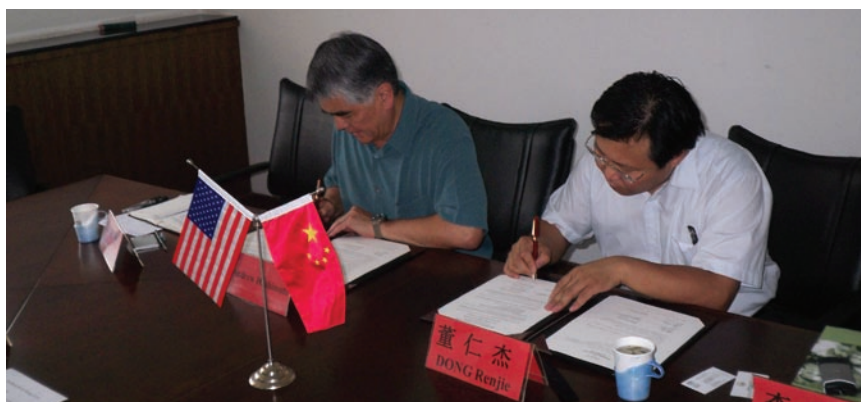
Most of these institutions have sent faculty to CTAHR for sabbaticals or short-term visits, and

members of our faculty have visited them regularly. Our Chinese sister universities have expressed interest in sending their graduate students to CTAHR for short term research experience or for PhD degrees, and most of them are also interested in sending undergraduate students to UH to complete their bachelor's degree. In addition, several universities would like to have our faculty teach intensive short courses on their campus and/or receive our courses through distance education.

As China continues to expand its system of higher education, we seek to increase exchanges with institutions that present more opportunities for faculty collaborations and better access to a growing pool of top-notch undergraduate and graduate students for our programs. If interested, please contact our office so that we can connect you with the faculty members in these sister universities with similar interests.



Dr. Fujiang Wen, President, Shandong Agricultural University and Dean Hashimoto at the MOU signing.



Dean Hashimoto and Dr. RenJie Dong, Director, Office of International Relations, China Agricultural University.