

**Agricultural Development in the
American Pacific (ADAP) Project**

**Project Progress
Reports**



Work from the period January 2007 to June 2007

**Presented at the
ADAP Board of Directors Meeting
July 18-19, 2007
Jackson, Wyoming**

CONTENTS:

ADAP Introduction.....	1
ADAP Funding Levels	2
Management Services Project	3
Human Resources & Capacity Building Project	6
Enrichment Opportunities Project.....	9
Leadership Development Opportunities	11
Communications, Information and Publications Services Project.....	13
Bioenergy Feedstock Assessment	16
Pacific Islands Distance Diagnostic and Recommendation System.....	22
Pacific Region Avian Influenza Workshop.....	23
Distance Education Opportunities Project / Cari-Pac Update.....	24
American Samoa Community College Campus Report.....	26
College of Micronesia Campus Report.....	27
Northern Marianas College Campus Report	28
University of Guam Campus Report.....	30
University of Hawaii Campus Report.....	31

ADAP Introduction

The Agricultural Development in the American Pacific (ADAP) Project was formally organized by the five directors of the Land Grant institutions in Hawaii and the United States-affiliated Pacific Islands (USAPI) in 1988, with the deans/directors of the Land Grant institutions serving as the board of directors. The purpose of ADAP is to strengthen existing Land Grant programs by sharing and focusing resources on priority areas of common concern and interest. Priority areas are often unique to the Pacific region, having to do with tropical/subtropical island agriculture and cultural practices. Due to the unique natural and human resource base of the Pacific island agro-ecosystems, it is often not possible or appropriate to transfer results from temperate zone agricultural research, and materials for extension and teaching used by continental US Land Grant programs. ADAP supports applied research within the region, and the development of effective extension materials that are culturally appropriate. With these goals in mind, ADAP strives toward excellence:

ADAP Vision: ADAP enables sustainable environments, diverse economies, and strong communities.

ADAP Mission: ADAP advances the viability and security of Pacific Island agriculture and communities through collaborative programs that are culturally appropriate, socially acceptable, and economically viable and environmentally sustainable.

Participating institutions are American Samoa Community College, College of Micronesia, Northern Marianas College, University of Guam, and University of Hawai'i.

ADAP Funding Levels

ADAP Year	Fiscal Year	Actual ADAP Budget	% Change (Rescission)
Year 10	FY1997	\$533,403	
Year 11	FY1998	\$533,403	0.00%
Year 12	FY1999	\$527,904	-1.03%
Year 13	FY2000	\$527,904	0.00%
Year 14	FY2001	\$526,743	-0.22%
Year 15	FY2002	\$516,672	-1.91%
Year 16	FY2003	\$513,314	-0.65%
Year 17	FY2004	\$458,725	-10.63%
Year 18	FY2005	\$454,971	-0.82%
Year 19	FY2006	\$450,347	-1.02%
Year 20	FY2007	\$0	-100%
Year 21	FY2008	_____	_____

Management Services Project

Core Project

Project Coordination Team: ADAP Project Manager and Regional Coordinators

Funding Allocations and Expenses:

Year 17	\$216,535
Year 18	\$215,781
Year 19	\$234,056

PROBLEM STATEMENT AND POTENTIAL SOLUTION

Administrative services and program support are essential for planning and implementing ADAP activities for the five Land Grant institutions to collaborate on research, extension and training activities. Management Services is the primary means of collaboration for the ADAP Project.

Management Services includes the Home Office staff (project manager, coordinator and educational media specialist) based at the University of Hawaii with regional coordinators at each ADAP institution. The Home Office is responsible for organizing, planning, coordinating and providing overall support services for the ADAP project. They administer the USDA grant through the Research Corporation of the University of Hawaii (RCUH). Funds are allocated to the ADAP institutions in accordance with the plans of work, but distributed on a cost reimbursement basis. The Home Office maintains a fiscal system consistent with the needs of participating fiscal institutions, RCUH and USDA. Home Office staff prepares technical and administrative reports that promote the functions and accomplishments of ADAP. The Home Office provides administrative support for all UH-based ADAP projects. The regional coordinators are the link for the Home Office to communicate with the ADAP directors and project personnel throughout the region. Regional coordinators also provide support services to the project principal investigators and cooperators.

Management services is responsible for organizing the semi-annual ADAP board of directors meetings, at which the ADAP directors, project manager and coordinators plan, organize and make policy decisions for the project. They also maintain collaborative ties with other agencies.

RESULTS AND ACCOMPLISHMENTS FOR THE PERIOD: JANUARY 2007 TO JULY 2007

American Samoa Community College (ASCC)

- Monitored fiscal reports of project expenditures and coordinated staff development training programs.

College of Micronesia (COM)

- Continuation with the implementation of the COM POW activity reporting system in connection with the ADAP reporting system.
- Collection and shipment of photos for the ADAP database.
- Facilitated the continuation of Robert Jackson's enrollment in the SDSU online Masters Degree program.
- Attendance of three COM staff at the Seattle Administrative Officers Conference and mini workshops on the POW.

Northern Marianas College (NMC)

- Hiring of the ADAP Administrative Assistant did not pull through; therefore, money for salary and benefits was transferred back to UH.
- Director Manglona attended the 2007 Winter ADAP Director's Meeting, January 8-11 in Koror, Palau.
- Closed out the ADAP Yr. 17 account.
- Coordinated the 2007 ADAP High School Summer Internship program, which starts in July 4-27. A total of 16 students applied for the internship program.

University of Guam (UOG)

- Airfare and per diem for Dr. Lee Yudin were funded under this project to attend the 2006 Winter ADAP Board of Directors Meeting in Koror, Palau.
- Per diem was provided to Dr. Lee Yudin for a meeting he had with Dr. Andrew Hashimoto at the University of Hawaii on January 24, 2007 in order to put together an agenda for discussions with Hawaii's Senator Daniel Inouye in Washington D.C. in February. Topics to be discussed were the loss of special project funds and earmarks that will affect such grants as TSTAR and ADAP.
- Balance Summary and Request for Reimbursement Reports were prepared and submitted to the ADAP Home Office.

University of Hawaii (UH)

- Developed the Pacific Land Grant Alliance logo, letterhead, and informational brochure.
- Contracted the services of Terry Nipp, drafted contract, created purchase order, and made payment.
- The Home Office maintained financial records and processed payments for the collaborating institutions.
- The Home Office provided administrative support to our collaborators and colleagues. Additionally, Vanessa Troegner (25% FTE) and Sharee Pepper (25% FTE) have been receiving financial support from the Agribusiness Incubator Program, thus reducing the salary/fringe expenses within the Home Office. Dennis Miyahara has been receiving financial support (50% FTE) from many diverse projects within CTAHR for website design and video work. Jim has received support from the Center on the Family (\$5000).
- We have been working on convert the ADAP videos to DVD and add menus, and chapter makers to make the DVDs more current.
- We have extensively reviewed and tested the Pacific Reporting and Accountability Database. We are currently preparing an instruction manual for distribution to the participating institutions.
- The ADAP website (<http://www.ctahr.hawaii.edu/adap2/>), the Pacific Region Avian Influenza website (http://www.ctahr.hawaii.edu/adap2/Avian_Flu/index.htm) and the Pacific Islands Networking website (http://www.ctahr.hawaii.edu/adap2/Pacific_Initiative/index.htm) were updated periodically. Links to the Pacific Region Avian Influenza website can be found under Training Resources of the Pacific Agrosecurity Program (<http://www.pacific-agrosecurity.org/>).

ESTIMATED IMPACT OF THE PROJECT TO DECEMBER 2006

American Samoa Community College (ASCC) improved office efficiency and communications.

College of Micronesia (COM) has helped numerous staff gain knowledge in the implementation of the COM POW activity reports. Many other staff have gained new knowledge and skills in the new CSREES web-based POW and reporting system.

Northern Marianas College (NMC) prepares monthly project reports, and submits financial documents on a timely basis, which has increased the accountability of the overall ADAP project. UH ADAP Coordinator, Vanessa Troegner, has kept in communication with NMC's Coordinator to ensure that reimbursement requests, transfer memos and reports are updated and submitted. NMC's Director and Coordinator continue to provide administrative support to ensure ADAP projects continue to serve the community.

At University of Guam (UOG), activities within each core project are closely monitored. Expenditures are closely monitored to ensure that funds are being utilized in compliance with the project objectives. The ADAP Coordinator and a part-time employee provide administrative support so that reimbursement reports are prepared and submitted in a timely manner, correspondence are prepared and transmitted, project reports are submitted for the winter and summer Board of Directors meetings, and ADAP files are maintained.

At University of Hawaii (UH), Home Office services have worked to improve the efficiency of the project management, updated older ADAP products, and made information more accessible by updating the ADAP website.

CONTINUING ACTIVITIES: JULY 2007 TO DECEMBER 2007

At American Samoa Community College (ASCC), we plan to continue to support and promote agricultural degree programs, ASCC Administrators leadership trainings, staff development programs and healthy living practices in American Samoa.

At the College of Micronesia (COM), we plan to continue to announce the availability of staff development funds and encourage participation, provide training on the web-based POW and reporting system to staff at the sites, and conduct a workshop for EFNEP staff in Guam.

At Northern Marianas College (NMC), we plan to continue to keep accurate files and documents of all ADAP project reports and finances

At University of Guam (UOG), we plan to secure future funding for ADAP by transitioning from earmark source of funding to a line item and eventually expanding to become PLGA.

At University of Hawaii (UH), we continue to monitor the budget, communicate with the USDA, update the sub-contracts with the ADAP collaborators, and work to update older ADAP products with new technologies, or new information. We are working to develop instruction manuals and training materials for the new (or expanded) ADAP products (such as the PARS database, and the PIDDRS database). We will continue to update and evolve the ADAP website to create a vital communication link between our many products.

Human Resources & Capacity Building Project

Core Project

Project Coordination Team: ADAP Project Manager and Regional Coordinators

Funding Allocations and Expenses:

Year 17	\$60,000
Year 18	\$60,000
Year 19	\$80,000

PROBLEM STATEMENT AND POTENTIAL SOLUTION

The American Pacific Land Grant institutions and government agencies want to increase their levels of trained and competent staff in order to enhance the institution and government services and to advance local agricultural development (or its allied fields). One way to help increase the number of qualified employees is to provide high school and college students, i.e. potential future employees, and current government or ADAP institution employees, with the opportunity to compete for educational scholarships. ADAP has developed programs targeted at different stages of educational development. The funds are available to all Pacific Land Grants except University of Hawaii. The titles of the three educational scholarship programs are:

Financial Assistance for an Extension/ Research High School Apprenticeship Program

Justification: Low enrollment in agriculture and home economics classes in ADAP region high schools continues to deprive ADAP countries of future employees who are knowledgeable in these areas. A cursory survey of students reveals a lack of awareness of the educational opportunities and careers available in agriculture, home economics, and related fields.

Financial Assistance for attending a 2- or 4-Year College or an Accredited Virtual University Program

Justification: Local college scholarships are limited and awards are typically based on prioritized field of studies. At the present time, agriculture and home economics are not priority fields in most ADAP countries. Financial assistance can be used for U.S. or foreign institutions, but students going to Land Grant colleges are given preference. On-line or virtual degree programs are also considered for this assistance.

Financial Assistance for an Advanced Degree Studies Program

Justification: Land Grant staff is limited in the ability to expand or strengthen programs and to advance professionally. ADAP scholarships for advanced degrees are made available to meet this need. Financial assistance can be used for U.S. or foreign institutions, but students going to Land Grant colleges are given preference. On-line or virtual degree programs are also considered for this assistance.

RESULTS AND ACCOMPLISHMENTS FOR THE PERIOD: JANUARY 2007 TO JULY 2007

American Samoa Community College (ASCC)

ASCC graduated two students, Faiane Miller (Natural Resources major) and Laumata Talofa (General Agriculture major) during ASCC's Spring 2007 graduation ceremony. Miss Miller

is currently participating in the forestry internship program at Costa Rico. The Circle Four Farms of Murphy-Brown Company in Milford, Utah currently employs Ms. Talofa. Ms. Talofa was selected by the General Manager and Senior Recruiter of Circle Four Farms who came to American Samoa in March to recruit ASCC students majoring in Agriculture & Life Science degree studies.

In addition, eleven students participated in the 2007 Summer Institute Program. Following is the list of their names: Johnny Ah Sue, Fatima Ahovelu, Trinity Folau'o, Joyce Peters, Laulelei Sualevai, Malu Luteru, Marie Fa'atuala, Seanette Thompson, Suemalo Leatio'o a, Legalo Ledoux and Iloa Fialelei.

College of Micronesia (COM)

Mr. Robert Jackson is still performing satisfactorily with the SDSU online Masters Degree program on Educational Leadership.

Northern Marianas College (NMC)

Unfortunately, due to the increase of tuition, enrollment for Spring and Summer has decreased as well. Enrollment under the NRM program and ADAP recipients has decreased. ADAP continues to fund 3 students, Barnaby Lizama pursuing an AA in NRM, Patricia Coleman, staff pursuing BA in Education and Lawrence Duponcheel, staff pursuing MA.

University of Guam (UOG)

Funds under this project were used to provide financial assistance to two full-time employees with the college, Mr. Jesse Rosario and Mr. Frank Alig. Each is pursuing his master's degree in Business Administration and Environmental Science, respectively.

ESTIMATED IMPACT OF THE PROJECT TO DECEMBER 2006

The impact of this project is an increased student enrollment in the Agriculture and Life Sciences Associate of Sciences degree programs at the American Samoa Community College.

At the College of Micronesia (COM), the staff had gained new knowledge and skills in both programs and administration.

At Northern Marianas College (NMC), although recipients have decreased this past semester, the Capacity Building project has greatly supported the continuing recipients.

At University of Guam (UOG), Jesse Rosario served as the college's Administrative Officer. He was recently promoted to a Program Coordinator IV. By pursuing his master's degree in Business Administration, this will enhance his job performance in supporting and promoting the mission of the college and university. Likewise with Frank Alig, who is a Biologist III and works with our Fadian Hatchery. His study in the field of Environmental Science will certainly provide valuable knowledge in his work at the hatchery.

CONTINUING ACTIVITIES: JULY 2007 TO DECEMBER 2007

During the next six month, American Samoa Community College (ASCC) continue to recruit students in the ALS degree programs, plan new strategies to attract new students to the program and increase public appearance (local media) on the subject matter.

College of Micronesia (COM) will continue to provide enticements for staff who are interested in pursuing their studies.

Northern Marianas College (NMC) will continue to encourage and support staff and qualified students to pursue higher education in NRM. Also, NMC has placed advertisements in several magazines to promote CREES-ADAP projects.

At University of Guam (UOG), we will continue to provide financial assistance to the current participants.

Enrichment Opportunities Project

Core Project

Project Coordination Team: ADAP Project Manager and Regional Coordinators

Funding Allocations and Expenses:

Year 17	\$35,000
Year 18	\$35,000
Year 19	\$55,000

PROBLEM STATEMENT AND POTENTIAL SOLUTION

The ADAP Enrichment Opportunity Project fills the need to increase institutional and governmental capability and credibility for regional agricultural development. Oftentimes, new initiatives must be implemented which usually require new guidelines and new regulations. There is a continuing need to provide staff development or training opportunities to enhance the productivity and efficiency of appropriate institutional and governmental employees. The successful transfer and adoption of knowledge will enhance the productivity and efficiency of those employees. To strengthen, improve and increase their skills, the land-grant directors need discretionary training funds to expand ADAP-sponsored activities or have staff and government employees partake in professional development or training activities.

RESULTS AND ACCOMPLISHMENTS FOR THE PERIOD: JANUARY 2007 TO JULY 2007

ASCC has encumbered these funds for leadership development training activities in Fall 2007. COM has nothing to report for this period.

At NMC, the Coordinator is organizing a CREES Retreat scheduled for September 2007. The retreat will offer mini workshops on Time Management, Team Building, Communication and Leadership Training.

At the University of Guam, this project will once again support our Summer Research Apprenticeship Program for high school students. The program is set to start June 25 and run for five weeks. With ADAP funds, we are able to pickup five students. However, we will be picking up a total of ten students. The Resident Instruction grant awarded to the CariPac group will fund the five additional students. Dr. Lee Yudin requested \$6,000 under Student Assistantship/Support to be used to recruit, train and employ high school students in a summer program with our agriculture and food scientists.

The University of Hawaii has supported two educational opportunities to supplement the Leadership Development Project and address the issue of the role of administrators within the Land Grant system. The Deans/Directors workshop highlighted the role of administrators within the Land Grant System, the history of the Land Grant System, and a workshop on understanding the legislative process and its applicability to the Land Grant College. Due to the specialized nature of these workshops, we contracted Dr. Terry Nipp to create a single workshop to present these topics for the deans and directors of the Pacific Land Grant institutions. The first workshop (January 8-11, 2007), planned in conjunction with the ADAP Board of Directors meeting, had seven attendees. Travel expenses for these attendees have been allocated previously within the Management Services budget, for the ADAP meeting, Winter 2007.

The second workshop, held in Washington, DC, in conjunction with the CARET meeting, had seven attendees. Participants met with Senator Inouye and learned about the legislative process.

Additionally, Sharee Pepper is working to create a training module to address the issue of understanding, measuring and reporting project impact. The final product will be loaded on the

Pacific Accountability and Reporting System (PARS) database to teach individuals what kind of impact to measure, and report. ADAP's support of Sharee's salary and fringe will end on August 15, 2007.

Also, UH supported the participation of Sharee Pepper and Vanessa Troegner in the Advanced Facilitation training course co-sponsored by CTAHR and Hawaii Alliance of Nonprofit Organizations (April 16 & 17, 2007).

ESTIMATED IMPACT OF THE PROJECT TO DECEMBER 2006

As part of the Summer Research Apprenticeship Program (UOG), student apprentices are exposed to the different disciplines in the agricultural and natural science field, and in the consumer and family sciences field. They experience first-hand what is involved in agricultural research work or programs involving youth at risk, 4-H, nutrition, etc. Having gone through the program, the experience will have some impact on the career path they decide to pursue in college.

At the University of Hawaii, the additional computer training courses allow staff members to expand their understanding of program applications and become better service providers.

CONTINUING ACTIVITIES: JULY 2007 TO DECEMBER 2007

ASCC has encumbered these funds for leadership development training activities in Fall 2007.

At NMC, the Coordinator is organizing a CREES Retreat scheduled for September 2007. The retreat will offer mini workshops on Time Management, Team Building, Communication and Leadership Training.

UOG will proceed with our summer research apprenticeship program, which will end July 27, 2007.

At UH, all funds are encumbered for the projects currently underway: Workshops with Terry Nipp, and the website on understanding, measuring, and reporting impact for extension projects (Sharee Pepper's project).

Leadership Development Opportunities

Core Project

Project Coordination Team: ADAP Project Manager and Regional Coordinators

Funding Allocations and Expenses:

Year 17	\$34,000
Year 18	\$78,075
Year 19	\$50,000

PROBLEM STATEMENT AND POTENTIAL SOLUTION

The establishment of the Pacific Land Grants, especially American Samoa Community College, College of Micronesia, Northern Marianas College, and the University of Guam, has been critically important to these small but growing regions of the Pacific. One of the areas that are often overlooked in building such an institution from the ground-up is the consistent development of leadership qualities within the staff. Without such skills, these institutions, including the College of Tropical Agriculture and Human Resources at the University of Hawai'i, will not make the organizational strides required by their clients.

At the January 2006, ADAP Board of Directors meeting, the board voted to allow each institution the opportunity to use project funding for either the Leadership Development in the 21st Century (LEAD21) classes, or to use the same funding for specific leadership development activities. The Board of Directors requested that each institution either submit the name of their LEAD21 participant, or a description of the individualized leadership development programs.

The LEAD21 Program is the most recent evolution of the ESCOP/ACOP Leadership course. LEAD21 was developed by the Fanning Institute at the University of Georgia. The current program has three sessions conducted over the course of one year. All sessions are held in the continental US, which incurs a heavy burden for travelers from the Pacific region, in terms of time and expense.

At the July 2006, ADAP Board of Directors meeting, the board voted to reduce the funding for leadership develop to \$10,000 per institution. The following guideline for leadership funding was adopted: Funding from Leadership Development cannot be allocated to other purposes, but the Leadership Development project can receive additional allocation from other project funds.

CURRENT CANDIDATES (LEAD 21 CLASS 2007-2008) (MARCH 2007 TO FEBRUARY 2008)

UH: Dr. Ray Uchida, Oahu County Administrator, Oahu County Extension Service.

RECENT LEAD21 GRADUATES (LEAD 21 CLASS 2006-07) (MARCH 2006 TO FEBRUARY 2007)

UOG: Dr. James McConnell, professor in Ornamental Horticulture, CNAS/AES
 UH: Dr. Halina Zaleski, Department Chair, Human Food, Nutrition, and Animal Sciences (HFNAS), CTAHR.

IMPACT OF THE LEADERSHIP DEVELOPMENT PROJECT

Within UOG, the leadership development programs we've participated in the part to include the LEAD21 and the ESCOP/ACOP programs proved to be very beneficial to our faculty who underwent the training. Several of them have assumed positions within our administrative level in the college. Although with the reduction in funding in this category, we will have to search for programs that will fall within our current budget allocation.

Within UH, the dean continues to support the participation of a faculty member in the Leadership Development in the 21st Century program by providing travel expenses for each participant.

ALTERNATIVE LEADERSHIP OPPORTUNITIES:

American Samoa Community College (ASCC)

Last year, the Community & Natural Resources (CNR) Division of the American Samoa Community College conducted staff and faculty training to update the staff on land grant and sea grant programs, Human Resources policies and procedures, and health and well being counseling. ASCC's individualized leadership program better meet the needs of ASCC CNR programs. ASCC has a major need for local staff to complete undergraduate or graduate degree program. Currently, CNR has approximately seventy personnel hired locally and off-island and only six with bachelor's degree, three with master's degree and one with a doctoral degree.

At this time, there are plans for to repeat the leadership development training activities in Fall 2007.

College of Micronesia (COM) and Northern Marianas College (NMC)

Last year's two leadership trainings were organized by NMC and COM through the NMC Business Development Center for 21 program leaders from COM Central Office, NMC-CREES, COM-FSM, and PCC. Both trainings were conducted by Dr. Kenneth R. Shankweiler.

The workshops covered in both trainings were Essential Skills of Leadership, Essential Skills in Communicating, Resolving Conflicts, Managing Complaints, Supporting Change, Providing Performance Feedback, Coaching Job Skills and Delegating.

COM supports the continuation of local leadership opportunities. Instead of training only one person, we were able to trained 21 individuals, which is an immense accomplishment with the funds allocated to both institutions.

NMC felt that the leadership workshops were a huge success. Being able to plan and coordinate our own leadership development workshops gives us the opportunity to specialize the workshops to accommodate our needs as individuals and as an institution as a whole. The funding that was granted to our institution is adequate enough if our workshop/training are held on island.

At this time, there are no plans for additional leadership development training activities.

Communications, Information and Publications Services Project

Core Project

Project Coordination Team: ADAP Project Manager and Regional Coordinators, and Eileen Herring (UH Hamilton Library)

Funding Allocations and Expenses:

Year 17	\$63,190
Year 18	\$20,730
Year 19	\$20,030

PROBLEM STATEMENT AND POTENTIAL SOLUTION

The ADAP Communications, Information and Publications Service (CIPS) project was created to coordinate and address the information needs of the ADAP institutions, communities and clientele on a regional basis. This project will help provide and make accessible, appropriate information and materials that will benefit the American Pacific region and encourage economic and agricultural sustainability. As a result of more open and immediate access to information, duplication of work in the region will be reduced, leading to more efficient use of fiscal and human resources. The increased utilization of electronic communication capabilities can greatly reduce travel costs for various meetings, training, and workshops.

The Library Services Project is a small UH-based project under the CIPS umbrella. The libraries of the Pacific Land grants do not have the library resources (both hardcopy, and electronic) that the University of Hawaii has. The Library Services Project provides one-on-one assistance in retrieving research journals articles, and books. These services allow researchers across the Pacific access to current studies in their field, providing strong groundwork for research and extension projects.

Within CIPS, Ms. Eileen Herring maintains the Traditional Pacific Island Crops Website, which provides access to Pacific relevant full-text electronic resources on about 12 traditional Pacific Island Crops: Bananas and Plantains (*Musa sp.*), Betel Nut (*Areca catechu*), Breadfruit (*Artocarpus altilis*), Cassava (*Manihot esculenta*), Coconut (*Cocos nucifera*), Kava (*Piper methysticum*), Noni (*Morinda citrifolia*), Pandanus (*Pandanus sp.*), Sugarcane (*Saccharum officinarum*), Sweet Potato (*Ipomoea batatas*), Taro (*Colocasia esculenta*) and other Edible Aroids, Yam (*Dioscorea sp.*).

The Traditional Pacific Island Crops Website contains links to quality internet resources that deal with the production, marketing, and research aspects of these twelve important traditional Pacific Island crops. Related marketing and statistical sites, databases, and other reference sources are also included. The emphasis is on collecting full-text resources so that Pacific Islanders who have Web access but do not have access to library print resources can find the information they need to grow and market these crops. Each of the included resources has been identified and evaluated by Eileen for the quality of their information and relevance to Pacific island agriculture.

RESULTS AND ACCOMPLISHMENTS FOR THE PERIOD: JANUARY 2007 TO JULY 2007

At American Samoa Community College (ASCC) provided internet access to the faculty and staff of ASCC CNR.

At College of Micronesia (COM) CIPS funds were used to provide for our Internet connection and for other means of communication such as phone, fax, and telephone.

At the Northern Marianas College (NMC), CIPS funds were used for advertisement of CREES-ADAP projects in several magazines and for advertising the CREES-ADAP programs on the John Oliver Gonzales Show.

ESTIMATED IMPACT OF THE PROJECT TO DECEMBER 2006

American Samoa Community College (ASCC) has strengthened the communication system within ASCC CNR, particularly the internet service for the island of Tutuila, American Samoa, and the Manua Islands.

At College of Micronesia, our communication with the outside world is maintained and documentation and publication of our program activities has been greatly enhanced with additional digital cameras and printers.

Dr. Sharee Pepper's efforts have contributed to capacity building in the Pacific Island Land Grant institutions, the UH CTAHR staff and faculty, and the UH community college agriculture related staff and faculty by providing training on how to write successful grants and identifying possible funding sources. This project increases the resources and funding for agriculture related education, research, and extension programs and projects by supporting the development, and submission of grants for the UH and Pacific Land Grant institutions.

CONTINUING ACTIVITIES: JULY 2007 TO DECEMBER 2007

At the University of Hawaii, Eileen Herring was not able to attend the annual AgNic (Agriculture Network Information Center) meeting in May 2007 and has returned the CIPS funding for her travel to both the AgNic conference and the PIALA (Pacific Islands Association of Libraries and Archives) conference (coming up in November 2007). Ms. Herring will continue to provide library services (such as article searches and book loans), and maintain the Traditional Pacific Islands Crops Website. Due to the unlikely return of ADAP funding in 2008, Ms. Herring will seek outside funding for her participation in next year's conferences.

Additionally, Ms. Herring is returning the funding for a part-time student assistant. At this time, the Hamilton Library does not have the office space or resources for a student assistant.

With these two actions, Ms. Herring is relinquishing \$10,000 for reallocation from UH Hamilton Library – CIPS.

GRANT DEVELOPMENT AND CAPACITY BUILDING PROJECT

Grant Development and Capacity Building Project was a small project embedded in the CIPS project with the goal of educating faculty and staff within the American Pacific Land Grant institutions and government agencies in ways increase funding for research, education and extension projects. Too often, grant workshops (sponsored by the USDA) take a "one-size fits all" approach to teaching how find, and apply for grants. Dr. Sharee Pepper is a grantwriting coach. She advises researchers on a one-on-one basis, providing valuable feedback on writing style, language usage, formatting, experimental design, and project scope, as well as, providing guidance and answering questions about the grant submittal process.

Although ADAP support for the Grant Development and Capacity Building Project was discontinued in December 2006, Dr. Pepper continues to maintain her contacts in the Pacific region and continues to provide grant information. Her new position within the CTAHR Agribusiness Incubator Project requires her to focus her efforts on Hawaii-based opportunities,

but as there is often an overlap between the opportunities for Hawaii and those for the Pacific region. Thus, she is able to continue to provide grant development and capacity building assistance to the ADAP collaborators.

Northern Marianas College (NMC)

- Our institution has been more aggressive at pursuing external funds as a result of the constant information sharing that the Grant Coaching Services has provided. We see this service as an integral part of our success. The impact of such a loss would be detrimental to our progress as an institution.

University of Hawaii (UH)

- Compile and e-mail newsletters every few weeks as the information becomes available. During the past four months 16 news letters have been generated with information on 10-20 grants per newsletter. These newsletters describe currently available funding opportunities of interest to over 40 Pacific Land Grant staff and faculty and grant opportunities (related to agricultural and nutrition) for the UH community college system which includes over 25 representatives from the ten campuses throughout Hawaii. Beginning June, 2007 the grant opportunities newsletter is also being shared with University of Alaska Land Grant Faculty as per their request.
- Assistance with all aspects of grant development and submission are provided to those requesting support. Consultation and assistance was provided to multiple Pacific Land Grant faculty, UH system wide campus faculty, and for related agriculture projects.

Bioenergy Feedstock Assessment

Principal Investigator:	Goro Uehara (UH)	
Co-PIs:	Robert Paull (UH)	
	Mari Marutani (UOG)	
Project Manager:	Richard Ogoshi (UH)	
Funding Allocations and Expenses:	Year 18	\$35,610
	Year 19	\$5,261

PROBLEM STATEMENT AND POTENTIAL SOLUTION

Pacific Island nations are particularly vulnerable to the supply shortages and volatile prices of fossil fuels. Most islands import more than 90% of their transportation and energy fuels. Thus, there is an urgent need to develop local energy production capacity. Vegetal based fuels or biofuels produced from locally generated biomass on small to medium farms are a possible solution to decrease fossil fuel dependency in the Pacific Islands. Biofuels have significant environmental benefits over fossil fuels including low sulfur content, being carbon-dioxide neutral, and decreasing waste entering land-fills. Furthermore, establishment of biomass-based energy systems will create new jobs and improve local economies.

Biodiesel and ethanol are two promising candidate biofuels suitable for transportation and energy generation. The development of domestic feedstocks for conversion into biofuels is essential for increasing island energy security. An important challenge is the identification of feedstocks and conversion technology amenable for commercial production on small to medium farms with the environmental resources available on tropical and subtropical islands. ADAP-member nations contain a diversity of non-traditional plants that have potential as energy feedstocks whose yields could surpass traditional energy crops. The combination of the University of Hawaii's and University of Guam's experience in bioenergy, agricultural production, and soil science makes a strong team to identify energy feedstocks for the Pacific Islands. The proposed project will evaluate oil crops, cellulosic biomass, and commercial waste for use as feedstocks for bioenergy production. This investigation will provide baseline data essential for future studies to improve the energy security in the Pacific Islands.

The project will generate baseline yield data for potential energy crops in climatic/environmental conditions and farm sizes found in the Pacific Islands. In addition, the project will assess the availability of commercial waste streams in ADAP-member islands and small scale conversion technology for bioenergy production. It is expected that the baseline data generated by this project will lead to larger, more comprehensive collaborations in the future. This information will be valuable for developing possible solutions for Hawaii and Pacific Island nations to decrease their fossil fuel dependency and increase their energy security.

SCOPE OF WORK

The purpose of the project is to provide the foundation for developing solutions to reduce fossil fuel importation to the Pacific Islands. To that end, we will investigate candidate energy crops, commercial waste streams, and small scale conversion technology that have the potential to be a part of the solution. The project will focus primarily on *Jatropha curcus*, coconut (*Cocos nucifera*), and fish oil for biodiesel production and *Panicum maximum* (guinea grass) for ethanol production. *Jatropha*, coconut, and guinea grass were chosen for their low resource input requirements, especially water, and their ability to thrive on poor soils, which promotes land reclamation and inhibits soil erosion. Crops, waste streams, and conversion technologies will be evaluated for

small scale and larger production potential to reflect the range of environmental resources found in the Pacific Islands. The project will accomplish the following objectives:

- Evaluate the technical and economic feasibility for producing biodiesel from *Jatropha curcas*, coconut oil, and fish oil, and ethanol from guinea grass in the Pacific Islands.
- Evaluate the potential application of commercial waste streams and small scale conversion technology for energy production in the Pacific Islands.

PROPOSED ACTIVITIES

Objective 1

Climate and growing conditions have profound influence on crop yields which ultimately will determine the economic feasibility of the crops. Thus, the project will determine crop yields under various climatic/environmental conditions. Local varieties will be tested for optimal density, irrigation, and seed and fruit development.

Oil crops

Seeds and cuttings will be collected from *Jatropha curcas* varieties on Guam and the Hawaiian Islands. Test plots will be installed to evaluate growth rates under various conditions and seed and oil yields determined. Oil samples will be sent to Pacific Biodiesel for conversion into biodiesel and testing. Commercially available coconut oil and fish oil will also be sent to Pacific Biodiesel for conversion into biodiesel and testing. Pacific Biodiesel will submit biodiesel samples derived from *Jatropha*, coconut, and fish oil to a national laboratory for certification that the biodiesel meets international fuel standards.

Ethanol crops

A mower/baler will be rented and dry yields for *Panicum maximum* will be determined. Ethanol yields will be reported using standard estimates. Crop yields under various conditions and the effect of repeated re-cuttings will be determined.

The information gathered will be compiled in a database and reported to ADAP members for review and comment. Additionally, the database will be made available for subsequent retrieval and analysis by researchers, government agencies, and businesses.

Objective 2

A survey will be conducted to determine the availability of commercial waste streams such as restaurant waste oil and coconut husks for conversion into bioenergy. It is anticipated that some islands have significant amounts of restaurant waste oil and coconut husks, while others will have small amounts.

An online review of small scale conversion technology will be conducted to determine possible technologies for converting feedstocks into bioenergy. Results from this investigation will aid in the design of demonstration scale bioenergy refineries and highlight future areas for research and develop.

RESULTS AND ACCOMPLISHMENTS FOR THE PERIOD: JANUARY 2007 TO JULY 2007

University of Guam (UOG) – Progress report from Dr. Mari Marutani 7/01/07

- UOG: Dr. Mari Marutani, Co-PI from the University of Guam on the Bioenergy Feedstock Assessment Project, traveled to Honolulu, Hawaii December 3-7, 2007 to attend a meeting at the University of Hawaii with Drs. Uehara, Paull, Ogoshi, and Turano to discuss coordination of activities between UH and UOG, plan of field experiments/survey, and preparation of a

paper presentation for the 21st Pacific Science Congress. The group also visited the Pacific Biofuel Plant in Sand Island, which processes cooking oils to convert to diesel oil.

- Dr. Marutani traveled to Okinawa, Japan June 12-18, 2007 to attend the 21st Pacific Science Congress where she presented a paper on “Bioenergy feedstock assessment in the Western Pacific Islands”, coauthored by Drs. Uehara, Paull, Ogoshi, and Turano of the University of Hawaii, and Miss Sheeka Afaisen, an undergraduate student of Tropical Agricultural Science and Biology at the University of Guam. The paper discussed the availability of bioenergy feedstock in this region.

University of Hawaii (UH) – Progress report from Dr. Richard Ogoshi 7/13/07

- Optimizing yield of *Jatropha*

Jatropha curcas has gained world-wide recognition as a feedstock for biodiesel. The Philippines, India, China, and South Africa have recently planted large areas with *Jatropha* to produce biodiesel. However, the literature shows an extreme range of seed yield from 0.5 to 12 Mg/ha/year, or approximately 30 to 714 gallons oil/acre/year. The wide range in yield can be attributed to any number of biophysical and management factors that did not accompany the reported yield data.

Two management practices that impact yield are tree population density and irrigation. To help understand the wide variation in reported yield as well as optimize yield in Hawaii, two replicated experiments were installed at the Poamoho Experiment Station on January 22, 2007. The first experiment is a tree population density trial with three density levels (4,000; 8,100; 16,200 trees/acre). The second is an irrigation trial with two levels (rainfed and irrigated).

Trees from both experiments initiated flowering in May, 2007. As of 10 July, 20% of the trees in the density trial have flowered while 13% have set fruit. In the irrigation trial, 13% of the trees have flowered and 7% have set fruit.

- Identifying non-toxic lines of *Jatropha*

As a feedstock for biodiesel, *Jatropha* will produce a large amount of by-product, about 50 to 70% by weight. This meal contains toxic compounds, a protein and phorbol ester. Finding a non-toxic variety would increase the value of the by-product as it could be used as a high protein animal feed.

Three sources of *Jatropha* seed were analyzed for the toxic protein, curcin. The seed came from trees located on the Island of Oahu: Koko Head Botanical Garden, Poamoho Experiment Station (collection by Dr. Richard Hamilton), and Pearl City Urban Garden Center. The curcin content was determined by Western analysis using anti-bodies specific for this protein. The results showed a three-fold difference in the curcin concentration between the Koko Head (low) and Pearl City (high) seed sources. The Poamoho seed was intermediate.

CONTINUING ACTIVITIES: JULY 2007 TO DECEMBER 2007

University of Guam (UOG)

- The dumping of cooking oils into sewer lines has become a very serious problem on Guam causing serious environmental problems. Through this biofuels project, we hope to gather valuable information with which to solve such problems.

University of Hawaii (UH)

- Work will continue as scheduled.

HEALTHY LIVING IN THE PACIFIC ISLANDS

Principal Investigator: Dr. Rachel Novotny (University of Hawaii)
 Project Administrator: Nicola Davison (University of Hawaii)
 Co-PI's: Ansina Kony (College of Micronesia-FSM/Chuuk, Cooperative Research & Extension), Julie Timothy (College of Micronesia-Kosrae, Cooperative Research & Extension), Janet Nemra (Ministry of Health and Environment, Majuro, RMI) & Nelly Lakabung (College of the Marshall Islands), Josepha Tutii (Palau Community College, Cooperative Research & Extension), Pat Coleman (Northern Marianas College, CNMI Cooperative Research, Extension & Education Service), Peter Barcinas (University of Guam, College of Agriculture & Life Sciences), Eric Enos (Learning Center at Ka'ala Farms).

Funding Allocations and Expenses:

Year 17	\$43,000
Year 18	\$9,775
Year 19	\$0

PROBLEM STATEMENT AND POTENTIAL SOLUTION

The HLPI Project is working to reduce the disparity in prevalence of chronic (lifestyle) diseases in Pacific Island communities. Specific objectives are: to increase production and consumption of local foods, to increase physical activity and to increase local food production capacity.

HLPI implements programs tailored to the unique environment of each island. These programs also build the capacity of our local partners. Initiatives for monitoring and surveillance of health, particularly in the child population, provide baseline data for designing programs and interventions.

During Year 17, we focused on two key activities: follow up to nutritional assessment work, and staff professional development. Following the work done on nutritional assessment in American Samoa and CNMI, the information needed to be more widely distributed and communicated to various sectors of the community. HLPI personnel made site visits to American Samoa (Feb 2005) and CNMI (Dec 2005) to make presentations to community leaders/legislators, healthcare professionals, educators, and communities members. By sharing the information collected by the HLPI project, the island communities will become more aware of the problems associated with sub-optimal nutrition in their children, offering an opportunity to make changes at many levels (legislative, institutional, community and individual). We continue to work with these communities to ensure the information is available for targeted project activities and program planning in the future.

In our efforts to increase staff development, awards of up to \$1,000 each were made to HLPI co-PI's for staff development and capacity building. During the 2005 HLPI workshop we were able to offer co-PI's the opportunity to receive training in MS Excel, MS Powerpoint and grant writing. The MS Excel will help staff when preparing budgets, the Microsoft PowerPoint will enable staff to prepare educational materials to enhance communication with the community and clientele). The grant writing workshop will be used as the basis for a participatory grant writing process, to take place in early 2006, with the goal of submitting a jointly written and submitted proposal to the Robert Wood Johnson Foundation for a physical activity grant. This will address our goal of capacity building within the institution and region, for longer term project sustainability.

During the January 2005 Board Meeting, an additional \$20,000 (Year 17) was allocated to HLPI. The additional ADAP HLPI funds have enabled the sites to build on previous HLPI activities which are not related to the NRI grant. Most of the activities involve educational programs which are targeted towards increasing knowledge among the local communities, using locally adapted and culturally appropriate materials.

Year 18, HLPI proposed the inclusion of Kosrae as a second community outreach and research center in the Federated States of Micronesia. Funding support from ADAP for one year has allowed the co-PI from Kosrae to attend the October 2005, HLPI meeting and will allow Kosrae to implement HLPI project activities in 2005-2006.

RESULTS AND ACCOMPLISHMENTS: JANUARY 2007 TO JULY 2007

Northern Marianas College (NMC)

- Surplus funds have been transferred back to UH. Remaining funds will be used to pay for expenses for HLPI meeting in July 2007.

University of Guam (UOG)

- Following HLPI's objective 2, which is to include knowledge about health and nutrition, we took the community based intervention approach in providing local Guam recipes that provides nutrition analysis that would be accessed on-line. Twenty local recipes will be analyzed by the University of Hawaii's Pac Trac program and be placed on the program on-line, which will be accessible to the local community and off-island communities. The recipe analysis will be used as information to strengthen and target nutrition education knowledge in the local community and provide more analysis information on the foods consumed in Guam.

University of Hawaii (UH)

- HLPI project administration and support

HLPI UPDATE PROVIDED BY DR. RACHEL NOVOTNY – JULY 13, 2007

In the last year, Rachel Novotny, Principal Investigator, assumed the Director position at Kaiser Permanente Center for Health Research Hawaii (CHRH). She continues to lead the HLPI initiative and to retain her Professor appointment at 10% time at the University of Hawaii. That time is currently focused on HLPI and the Human Nutrition and Obesity Integrated NRI grant (Healthy Living in the Pacific Islands- Healthy Pacific Child Project, HLPI-HPCP).

The HLPI-HPCP project has just completed post-intervention data collection of the Healthy Food Stores Intervention, in partnership with Johns Hopkins University and with local health centers and non-profit groups. Several HLPI investigators are also piloting the Healthy Foods intervention on their islands.

The Pacific Tracker (PacTrac) dietary assessment tool has been developed with this grant. The project has partnered with the UH Cancer Research Center of Hawaii to develop it and with UH-CTAHR Center on the Family to improve the web face and to maintain the diet tool on their website. Several ADAP sites continue to collect recipes for PacTrac, to expand its representation of Pacific and dishes. It currently incorporates recipes from Hawaii, Guam and CNMI. The current version of PacTrac can be used and viewed at <http://pactrac.crch.hawaii.edu>.

Rachel has joined Dr. Pat Tschida as co-investigator (Pat as Investigator) on the Multi-state Integrated Research and Extension Project on EFNEP Outreach (NCDC 211). This appears a good mechanism to provide base coordination and support for ongoing HLPI activity since most

HLPI co-PI's are involved with EFNEP. Rachel encourages all HLPI investigators to join this project.

HLPI led the development of a training video on physical activity for the Pacific, in partnership with the Secretariat of the Pacific Community (SPC). It is in the final stages of production and will be available through SPC.

Nicky Davison continues to serve as Project Manager for HLPI, at 50% time. There is currently no funding for a 2007 HLPI investigators meeting, though we are discussing partnering with EFNEP on joint meeting in early 2008.

Pacific Islands Distance Diagnostic and Recommendation System

Principal investigator:	Mark G. Wright (University of Hawai'i)	
Coordination Team:	ADAP Project Manager and Regional Coordinators	
Funding Allocations and Expenses:		
	Year 17	\$25,000
	Year 18	\$0
	Year 19	\$6,000

PROBLEM STATEMENT AND POTENTIAL SOLUTION

The impacts of invasive insect pests, plant pathogens, weeds and other organisms on island ecosystems are severe, not only in terms of natural ecosystems, but also agricultural production and other human activities. The islands of the Pacific have been subjected to extensive invasion by pest species, and most agricultural practices have been impacted.

The newly developed and implemented Pacific Islands Distance Diagnostics and Recommendation System (PIDDRS) has the potential to contribute significantly to improving diagnostic services throughout the Pacific, as well as providing a database system for predicting the movement of invasive organisms, training staff in isolated locations, and building the capacity of local agricultural personnel.

RESULTS AND ACCOMPLISHMENTS FOR THE PERIOD: JANUARY 2007 TO JULY 2007

Western Plant Diagnostic Network, University of California, Davis, is now paying for the annual database maintenance and website hosting fees to the University of Georgia (\$11,500 annually).

The PIDDRS website has expanded to include a Pest Control Database, and a Digital Media Library. Dr. Wright has developed a diagnostic tools section of the website by expanding the photo gallery to include 15-20 scientific illustrations

CONTINUING ACTIVITIES: JULY 2007 TO DECEMBER 2007

We have developed a poster describing the expanded capabilities of the PIDDRS website, and we have plans to print and distribute it (using Year 17 funds). Additionally, we are illustrating the current PIDDRS teaching manual and plan to distribute copies to each participating institution.

Pacific Region Avian Influenza Workshop

Externally funded by DHHS-National Institute of Health (09/01/05 - 08/31/06)

Principal Investigator

Ann Sakaguchi, MPH, PhD, Pacific EMPRINTS Project

Coordination Team:

ADAP Project Manager and Regional Coordinators

PROBLEM STATEMENT AND POTENTIAL SOLUTION

The Pacific EMPRINTS program is designed to provide a brief introduction to the principles of emergency management and preparedness with practical applications that can help you recognize and respond to an Avian Influenza outbreak should it occur. Outbreaks of Highly Pathogenic Avian Influenza (HPAI H5N1) have led to the deaths of millions of domestic fowl, particularly chickens and ducks in Asia and other parts of the world. The deaths were caused by either the Avian Influenza virus or through culling, as a preventative measure to halt and/or reduce the rate of spread of the virus to surrounding fowl. Experts believe that in the coming years, the HPAI H5N1 may spread to the Pacific Island region. This 5-day course is designed to assist you and your communities to better prepare for the potential outbreak of this dangerous disease.

UPDATE 2007

Jim Hollyer attended a one-day workshop in Hawaii, July 5, 2007. The workshop was sponsored by USDA, FWS, and many others. There is sustained interest in our project and the contacts that we have cultivated across the Pacific region.

CONTINUING ACTIVITIES: JULY 2007 TO DECEMBER 2007

We are in the process of updating the Avian Influenza website and updating the Pacific Avian Influenza and Bioterrorism contact list.

Distance Education Opportunities Project / Cari-Pac Update

Coordination Team: Dr. Lee Yudin, Annie Santos (University of Guam), and Regional Coordinators

Funding Allocations and Expenses: Year 16 \$23,548

The CariPac Consortium responded to the RFP for Resident Instruction Grants Program for Institutions of Higher Education in Insular Areas and submitted their grant proposal for period 2007-2008 entitled, "Phase III of Developing Resident Instruction in Food and Agricultural Related Sciences at Land Grant Institutions in the Pacific and Caribbean Islands". The proposal was submitted in May 2007, and no word has been received yet as to whether the grant was awarded.

Campus Reports

American Samoa Community College Campus Report

What were the changes within your institution or island nation that would influence the operations of the ADAP project? Please describe items such as new state legislation, significant staff changes, institutional reorganization, natural disaster, new agricultural initiatives, development of new agribusinesses, emergence of agricultural diseases, and new challenges or goals at your institution. You may use this form, or submit you own update for the meeting materials.

ASCC submitted its final budget for FY '08 to the American Samoa Government Budget Office for review and submission to the legislature for approval. The division of Community & Natural Resources requested a \$109K in matching funds to operate its program funding for next fiscal year.

There are three vacant positions at the ASCC CNR, they are: Plant Pathologist, Project Forester and Nutritionist.

College of Micronesia Campus Report

What were the changes within your institution or island nation that would influence the operations of the ADAP project? Please describe items such as new state legislation, significant staff changes, institutional reorganization, natural disaster, new agricultural initiatives, development of new agribusinesses, emergence of agricultural diseases, and new challenges or goals at your institution. You may use this form, or submit you own update for the meeting materials.

1. Some changes that will influence the operations of our projects are the new administration at the FSM National Government and the new administrations in the States of Yap and Kosrae.
2. The changes in the matching fund requirements will also have some influence on our operations.

Northern Marianas College Campus Report

Prepared by: Ross S. Manglona, Director, NMC-CREES

The past six months has been increasingly difficult for Northern Marianas College. With the steady departure of our garment industry, decreasing tourist arrivals and the recent extension of the federal minimum wage to the CNMI, acquiring funding for NMC has been a difficult task. Currently the CNMI is instituting ‘austerity holidays’ – alternate Fridays off with no pay. With the passing of Public Law 15 – 24, federal programs were also included and as a result we are witnessing a mass exodus in our local population.

Besides tackling the aforementioned financial constraints, high impacting events took place this fiscal year to include:

- As a result of the steady decrease in state appropriations, the college increased its tuition rates by 40%.
- NMC’s enrollment has dropped to 1,217 from 1,415 students as compared with the previous academic year.
- The college was recently put on probation by the Western Association of Schools and Colleges (WASC).
- Because of the increase in food stamp recipients these past months, our FSNE project incurred funding set backs.

Although the college is currently undergoing some obstacles, it has been able to overcome those challenges through the input of students, faculty and staff. Excitingly new developments within the college are underway to include:

- After months of searching, the NMC Board of Regents has selected Dr. Carmen Fernandez, former University of Guam Vice President as its new President.
- NMC has been authorized by the CNMI legislature to incur public debt for the upgrade of current instructional facilities. First Hawaiian Bank has approved the \$250,000 loan for the upgrade. The acquisition of such funds will be used to provide five additional classrooms and provide enhancement to our video conferencing capabilities.
- The college has started upgrading its communications capability on all three instructional sites. These improvements are being funded from a grant received from the Administration for Native Americans. This entails the acquisition of video conferencing capability.

Because the CNMI is currently in a uncompromising situation it has been our department’s task to create opportunities for our citizens. Extension services and research projects are the direct result of the growing needs and challenges that the CNMI community faces. These programs are also in line with the missions of the Cooperative Research, Extension and Education Service and the Northern Marianas College. The following is a list of issues and solutions that CREES has had to administer over the past six months:

- Due to the extensive consultations by extension personnel, a Rota farmer is now producing sufficient supply of fresh eggs. Because of the knowledge acquired, this individual is directly competing with imported eggs.
- NMC-CREES is moving towards video archiving all grants received for the purpose of mass distribution. Staff are currently editing footage for the Traditional Fishing Project, The Model Farm Project, and updating the Dry-Litter Waste Management videos.
- We are currently increasing our research efforts at NMC-CREES. The program is currently working on two tissue culture projects, a grouper culture project, and a citrus variety project.
- Staff have successfully released parasites to combat the cycad scale on Rota and the papaya mealy bug on Tinian. We are still collaborating with Dr. Muniappan from Guam on the scarlet gourd situation on Saipan.

University of Guam Campus Report

1) New Faculty – Dr. Hui Gong was recruited in February 2007 by the University of Guam under the College of Natural and Applied Sciences through a search for an Aquaculture Research faculty. Dr. Gong received her Ph.D. in aquaculture nutrition from Texas A&M University. She will be working closely with our Fadian Hatchery and taking the lead in our aquaculture research and development program.

2) The University of Guam will be going through an institutional realignment effective this fall. The effect that this realignment will have on the College of Natural and Applied Sciences is that the Cooperative Extension Service will be returning under the college. Agricultural Experiment Station and Cooperative Extension Service will each have its own Associate Director who reports to the Dean.

3) Budget Crisis – The Government of Guam is going through a budget crisis at this time. Government line agencies are facing possible furloughs of its employees, both classified and unclassified positions. The University of Guam, although it is considered an autonomous agency, is also currently preparing for the possible furloughing of its employees. The local government is just not able to keep up with the allotments as budgeted to the University and the University's budget has since been drastically cut by \$2.7 million. Therefore, possible furlough of staff to 35-hour workweeks, salary reductions for administrators of 12.5%, and proposed faculty salary cuts of 5% are options being considered at this time.

University of Hawaii Campus Report

College of Tropical Agriculture and Human Resources, University of Hawaii at Manoa Campus Report for ADAP Directors Meeting, July 2007

Centennial of the University of Hawaii and CTAHR

The year 2007 is the centennial of the University of Hawaii, its flagship Manoa campus, and its founding college, the College of Tropical Agriculture and Human Resources.

- **CTAHR Centennial Homecoming and Awards Celebration:** To mark our first century of instruction, research, and outreach, CTAHR hosted a Centennial Homecoming and Awards Celebration on April 12, 2007. Among the exceptional students, staff, faculty, alumni, and supporters honored were Outstanding Alumnus Dr. Nan-Yao Su, the inventor of Dow AgroScience's Sentricon system for termite colony elimination, and agribusiness entrepreneur Dean Okimoto, president of the Hawaii Farm Bureau Federation, member of the CTAHR Board of Advisors, and co-founder of HFBF's farmers' markets. Fundraising linked to the event brought in more than \$200,000 for student scholarships.
- **'Centennial' anthurium:** CTAHR released a new anthurium cultivar, to commemorate the university's and college's first hundred years. The 'Centennial' hybrid's green and white coloration matches the UH colors, the tulip-shaped spathe resembles the flame that appears on the UH seal, and the green veins that come together at the flower's base and apex symbolize the university's union of diverse cultures. 'Centennial' is among 40 cultivars released by the college's anthurium research and breeding program, which was established in 1950 and has played a key role in making anthurium Hawaii's top cut-flower crop.
- **UH Manoa Centennial Celebration:** CTAHR took part in a Centennial Celebration open house at UH Manoa on January 13, 2007. Members of the community were invited to learn more about our land-grant, sea-grant, and space-grant university. The breadth of the college's mission was well-represented by its displays, which included samples of an extensive insect collection, a costume museum, and an informational booth on agricultural biotechnology that featured taste tests comparing genetically engineered and non-GE food products.

UH Manoa Update

- **New Chancellor:** On July 1, 2007, Dr. Virginia Hinshaw assumes the chancellorship of UH Manoa. An experienced administrator, she served most recently as Provost and Executive Vice Chancellor for Academic Affairs and Finance at the University of California, Davis and previously as Dean of the Graduate School and Vice Chancellor for Research at the University of Wisconsin, Madison. Dr. Hinshaw's research expertise is in virology; at UC Davis, she held a joint professorial appointment in the Schools of Medicine and Veterinary Medicine. We

commend outgoing Interim Chancellor Denise Eby Konan for her outstanding service during the past two years.

- **Leadership changes in Academic Affairs:** Vice-Chancellor for Academic Affairs Neal Smatresk recently joined the University of Nevada–Las Vegas as Executive Vice President and Provost. UH Vice President for Academic Planning and Policy Linda K. Johnsrud has been appointed UH Manoa’s Interim Vice-Chancellor for Academic Affairs.

CTAHR Update

- **Enrollment:** CTAHR’s reorganized academic programs were formally announced to students in 2002. Between the Fall 2002 and Fall 2006 semesters, the college’s total student enrollment increased by 40%. During the same time period, enrollment in the University of Hawaii system increased by less than 4%, and enrollment at UH Manoa increased by less than 9%. Enrollment in the college’s six academic departments has reached its highest level in 20 years, with more than 800 undergraduate and graduate majors registered in Fall 2006.
- **2007 Legislative Session:** Prior to adjourning its 2007 Regular Session, the Hawaii State Legislature incorporated into the state budget a capital improvement appropriation of \$764,000 for a second phase of renovations at the Komohana Agricultural Complex in Hilo and \$150,000 in each year of the budget biennium to support the Center on the Family. These funds are subject to approval by the Governor.
- **Grants and contracts:** As we approach June 30, the end date for CTAHR’s fiscal year 2007, the college’s faculty and staff members have received 170 extramural awards worth almost \$23.3 million. FY2007 has been among the college’s most productive years for extramural funding, second only to FY2004’s \$24.2 million. In addition, the number of grants received in FY2007 nearly matches the record of 171 that was set in FY2006. The discontinuation of federal special grants (earmarks) in the federal FY2007 budget is expected to cost the college more than \$8 million in FY2008.
- **New County Administrators:** Kelvin Sewake and Ray Uchida have been appointed county administrators for the islands of Hawaii and Oahu, respectively. Roy Yamakawa has been named the interim county administrator for the island of Kauai.
- **Hawaii Employee of the Year:** Machinist Charles Nelson was named the State Employee of 2006 by Gov. Linda Lingle after having been recognized by CTAHR with the college’s 2006 Outstanding Civil Service Award and subsequently selected as the University of Hawaii’s nominee for the Governor’s Employee of the Year Award. The Governor lauded Mr. Nelson’s dedication and ingenuity in creating technologies that benefit Hawaii as well as his exceptional service in the aftermath of the 2004 Manoa flood.

UH Manoa Chancellor’s Service Awards: Two members of CTAHR were honored with UH Manoa’s annual Service Awards. Research support staff Karl Yanagihara, an integral member of the laboratory that evaluates pesticides for registration to use on Hawaii’s diversified crops,

received the 2006 Chancellor's Outstanding Administrative, Professional, and Technical Service Award. Ethel Murata, a secretary with Cooperative Extension Service on Oahu, was recognized with the 2006 Chancellor's Outstanding Civil Service Aw