

<b>Name of Project</b>	<b>Development and Implementation of a Distance Diagnostics by Digital Imaging and Recommendation System for the Pacific Islands</b>
Project Status	Multi-Year; Continuing Project
Principal investigator	Mark G. Wright (UH)
Co-PI's	Fred Brooks (ASCC), Grahame Jackson (PestNet)
Collaborators	Dick Tsuda, Russell Messing, Ray Uchida, Cathy Tarutani, James Hollyer (UH), Bob Schlub (UOG), Singeru Singeo (COM), Hawai'i Department of Agriculture-DOA, Philip Thomas (Hawaiian Ecosystems at Risk Project)
Funding Amount	Year 16 \$25,000 Year 17 \$25,000

---

## **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: JULY 2004 TO DECEMBER 2004**

### **American Samoa Community College**

- Although he was not funded by ADAP, Mr. Aufa'i Ropeti Areta attended the distance diagnostics training in Honolulu, Hawaii on October 2004. Mr. Areta's travel was funded by another source of funding from ASCC CNR to participate in the distance diagnostics training.
- Mr. Aufa'i, Dr. Fred Brooks (ASCC CNR Plant Pathologist) and Dr. Mark Schmaedick (ASCC CNR Entomologist) organized and conducted the Diagnostics Workshop (Plant identification & procedures from submitting samples) for Extension agents and Research associates in December 2004. Dr. Brooks and Dr. Schmaedick are now certified Diagnosticians from ASCC.
- Dr. Brooks and Dr. Schmaedick have collaborated with other scientists from the ADAP region and mainland land grant institutions on matters pertaining to the Distance Diagnostics project.

#### College of Micronesia

- We had very minimal administrative involvement in this project, however several COM researchers and research aides attended the PIDDRS and WPDN workshops in Honolulu.
- A Follow up workshop was conducted by the participants from CMI with local staff from the RMI Ministry of Resources and Development, where 5 participants learned the PIDDRS system and practiced with field collection of plant disease and insect pest samples.

#### Northern Marianas College

- Mr. Alejandro Badilles and Mr. Arnold Route attended the Distance Diagnostics training in Honolulu.
- Mr. Badilles held a First Detection Workshop on the island Rota consisting of NMC and local quarantine and customs staff.

#### University of Guam

- Dr. Aubrey Moore attended the ADAP PDDRS/WPDN Workshop at UH Manoa in July 2004. He learned about digital photography and physical sample preparation to facilitate rapid identification of exotic pests. The National Plant Diagnostic Network also certified him as a First Detector Educator/Trainer.
- During the last half of 2004, Dr. Moore submitted two sets of digital images to the PDDRS as part of a request for help in identifying new pests on Guam. The first was for a weevil attacking calamansi (lemon). The second was for an invasive weed that local experts could not identify. I received expert help in response to both requests.
- Linley Smith, our Plant Pathology Research Associate submitted four sets of digital images with requests for identification of plant pathogens during the same period.
- The microscopes, digital camera, and laptop computer provided by PDDRS are housed in the CES-ANR laboratory. This equipment has been used extensively for photodocumenting pest problems on Guam. An album of plant pathogens and the symptoms they cause is being compiled. The equipment has also been used for plant pathology instruction.
- Dr. Robert Schlub, Associate Professor of Plant Pathology, and Dr. Moore participate in monthly WPDN telephone conferences.

#### University of Hawaii

- A Distance Diagnostics workshop was held on July 21 & 22, 2004 in conjunction with First Detector Training provided by the Western Plant Diagnostic Network. Participants included 8 individuals from the Pacific region from 7 different islands.

- Workshop held on October 19<sup>th</sup>, 2004, in conjunction with First Detector Training provided by the Western Plant Diagnostic Network. 14 participants were involved, representing extension agents the five major Hawaiian Islands.
- Diagnostic and computer equipment was purchased for the islands of Rota and Majuro.

## **ESTIMATED IMPACT OF THE PROJECT TO DECEMBER 2004**

American Samoa Community College

College of Micronesia

Northern Marianas College

- There are 9 participants who attended the workshop on Rota. All participants are now First Detectors for plant biosecurity.

University of Guam

- The PDDRS project significantly strengthens our ability to rapidly and accurately identify new pests on Guam, whether they are insects, plant diseases, or weeds, and to provide appropriate recommendations for their control. The system also documents pest occurrences and alerts diagnosticians throughout the region and beyond. This is a very effective program for sharing expertise with the region. We hope that this project will continue to evolve.

University of Hawaii

## **GOALS FOR THE PROJECT FOR THE NEXT SIX MONTHS: JANUARY 2005 TO JUNE 2005**

At the University of Hawaii, plans are underway to conduct equipment purchases and training for to two additional Pacific islands: Yap and Tinian. At the Northern Marianas College, PIDDRS workshop graduates plan to conduct workshop on Saipan and Tinian.

<b>Name of Project</b>	<b>Healthy Living in the Pacific Islands</b>
Project Status	Multi-year; Continuing Project
Principal Investigator	Dr. Rachel Novotny (University of Hawai'i)
Project Administrator	Nicola Davison (University of Hawai'i)
Co-PI's	Ansina Kony (College of Micronesia-FSM/Chuuk, Cooperative Research & Extension), Julia Alfred (Ministry of Health and Environment, Majuro, RMI), Josepha Tutii (Palau Community College, Cooperative Research & Extension) Margaret Tudela (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).
Cooperators	J. Peter Roberto (University of Guam), Randall Workman (University of Guam), Rachael T. Leon Guerrero (University of Guam), Roland Quitugua (University of Guam), Wendy Snowdon (Secretariat of the Pacific Community-Lifestyle Health Section)
Funding Amount	Year 16 \$0 Year 17 \$25,000

## PROBLEM STATEMENT AND POTENTIAL SOLUTION

The Healthy Living in the Pacific Islands (HLPI) project strives to balance the universal values of our common Pacific Islander ancestors with modern influences. When an imbalance occurs, we see increased mortality, excess health care costs to treat disease, increased non-communicable diseases (chronic diseases), poor living conditions and a decrease in food security. These problems are expressed in individuals but must be solved by working with communities and societies. In spite of the efforts of a variety of government and community-based programs to address these problems, many of them are worsening. Our strategy is to increase collaboration and community-based strategic planning to better utilize scarce resources and promote self-sufficiency. The goal of HLPI is to create healthy people living in healthy communities. Our objectives are to 1) increase self-sufficiency 2) collaborate with stakeholders 3) build local capacity and 4) transfer knowledge. We view this as a long-term initiative, no shorter than five years, seeking long-term sustainable change.

As a result of the Planning Meeting in Aug 2002 the objectives of HLPI were revised by the PI/Co-PI group as follows:

Three main objectives.

1. To increase production and consumption of healthy locally-produced food
2. To increase knowledge about health and nutrition
3. To increase physical activity

With the following strategies used initially to promote these objectives:

1. Health Communication
2. Community-based intervention and facilitation
3. Institutional/Food System/Health

## RESULTS AND ACCOMPLISHMENTS FOR THE PERIOD: JULY 2004 TO DECEMBER 2004

### American Samoa Community College

- Ms. Eseneiaso Tauai, ASCC CNR Nutrition Agent, attended the 4<sup>th</sup> annual Healthy Living in the Pacific Islands meeting in Guam, June 17-19, 2004. Upon returning from the Healthy Living in the Pacific Islands meeting, Ms. Tauai shared the information from the meeting with Ms. Siaunofo Logologo, ASCC CNR Acting Families, 4-H and Nutrition Program Manager and staff to further improve the nutrition programs in American Samoa. Moreover, Ms. Logologo, Ms. Tauai and Mr. Areta used the information from HLPI meeting and recommendations from Mrs. Nicola Davison (HLPI Project Coordinator) to develop the HLPI plan of work for American Samoa.
- ASCC recently hired our new Nutritionist, Ms. Maggie Rosaine on November 2004. Ms. Rosaine is currently working on the implementation planning for upcoming year with Ms. Logologo and Ms. Tauai. Dean and Director of ASCC CNR assigned Ms. Logologo to be the Co-PI of the ASCC HLPI project and Ms. Tauai to be her Assistant.

### College of Micronesia

- Facilitated travel arrangements for the 3 cooperators from COM to the HLPI annual meeting in Guam and continued to help with the purchase of necessary supplies for the implementation of their projects.

### Northern Marianas College

- Collected 24-hour recalls and local recipes for the Healthy Pacific Child Project
- HLPI Coordinator attended the meeting that was held on Guam in July 2004.

### University of Guam

- The development of health and nutrition brochures dealing with such topics as teen obesity, exercise, diet, teens and tobacco, and caring for your heart. Publication final drafts are completed and going through the approval phase for printing. This should be done by latter part of January 2005.
- Development of a Healthy Living Disaster preparedness Resource packet: *Typhoon Preparation Tips – Before the Storm* was also developed and will serve as the first series of localized disaster readiness materials.
- Other related HLPI activities included conducting several Needs Assessment sessions with the Department of Education and the Department of Labor Workforce Summit and the Tobacco Advisory Group Conference.

University of Hawaii

- The HLPI coordinator position is now supported by USDA NRI, DOH and ADAP (HLPI) funds.
- Most UH HLPI activities in the past 6 months have been targeted towards the implementation of the Healthy Pacific Child Project, including support to the HLPI sites to start activities for this grant.

**ESTIMATED IMPACT OF THE PROJECT TO DECEMBER 2004**

Support to HLPI sites for implementation of HPCP project has provided an opportunity for sites to be involved in the development of the 'PacTrac' database. Initial HPCP project activities have resulted in strengthened collaborations and links with a number of communities and agencies: Wai'anae Coast Comprehensive Health Center, Cancer Research Center of Hawaii, and the communities of North Kohala, Wai'anae and Ka'u.

At the NMC, the HLPI project has fostered stronger collaboration between the ADAP institutions and the studies conducted under the HLPI Project are helping to improve health in the Pacific.

**GOALS FOR THE PROJECT FOR THE NEXT SIX MONTHS: JANUARY 2005 TO JUNE 2005**

ADAP funding is being used to support a follow up visit to American Samoa, planned for February 8 to 11, 2005, to communicate results of the July 2003 nutritional assessment work to community leaders and government agencies. HLPI will be making educational presentations to American Samoa Community College staff and students, Department of Public Health personnel, and LBJ Hospital staff.

<b>Name of Project</b>	<b>Management Services</b>
Project Status	Core Project
Home Office Staff	James Hollyer (Project Manager), Vanessa Troegner (Project Coordinator), Dennis Miyahara (Educational Specialist)
Regional Coordinators	Eseta Sua-Kalio (ASCC), Robert Jackson (COM), Esther Kapileo (NMC), Annie Santos (UOG)
Funding Amount	Year 16 \$229,642 Year 17 \$213,536

---

## **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 specialist) based at the University of Hawai'i and the regional coordinators from 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 Hawai'i (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. They also prepare technical and administrative reports that promote the functions and accomplishments of ADAP. The home office oversees the functions of the Communication, Information, and Publication Service (CIPS). The regional coordinators are the link for the home office to communicate with the ADAP directors and project personnel throughout the region. They 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: JULY 2004 TO DECEMBER 2004**

### **American Samoa Community College**

- Coordinated and provided assistance to ASCC ADAP Recipients of the Human Resources Capacity Building Project and the ESCOP/ACOP Leadership Development Program as well as other ADAP activities with ASCC.
- Mr. James Hollyer provided software (FileMaker Pro) training for ASCC personnel from the Human Resources Office, Business Office, Administration Office and Research & Extension Offices.
- Prepared core project progress report and monitored project expenditures.

#### College of Micronesia

- The coordination of the successful completion of the Paravet training programs in Saipan and Palau for trainees from the different islands in Micronesia.
- Maintenance of the fiscal reporting of project expenditures and ADAP equipment inventory.
- Purchase of direly needed equipment and supplies (3 HP Deskjet color printers and one scanner) for COM-FSM Cooperative Research and Extension for distribution to the different sites.

#### Northern Marianas College

- Assisted and coordinated day-to-day ADAP activities.
- Assisted with the Paravet Training that took place in Saipan.
- Management of ADAP funds.
- Funds used to pay for per diem for Mr. Tony Benavente and Mr. Tony Deleon Guerrero to attend the AAACU Meeting in Nagoya, Japan.

#### University of Guam

- Dr. Lee Yudin attended the 15<sup>th</sup> Biennial Convention of the Asian Association of Agricultural Colleges and Universities (AAACU), September 28-30, 2004, in Nagoya, Japan. The theme of the convention was "Development of e-Learning System as a Tool for distance Education in Agriculture and Bio-Industry in Asia". The other ADAP Directors also attended the convention for the first time. It was discussed at the Summer Directors Meeting in Guam last June that the other ADAP institutions become members of AAACU. The University of Guam is already a member.
- At the ADAP Summer Directors Meeting in June, Dr. Lee Yudin requested from the body if ADAP could assist in funding the 2004 Western Regional Joint Summer Directors Meeting hosted by the University of Guam. The request was approved. The Joint Directors Meeting, which was held at the Hyatt Regency Guam, was a success even though mother nature did not cooperate on the island tour day.

#### University of Hawaii

- Jim Hollyer acted as one of 5 facilitators for USDA CSREES OMB Administrative Reviews, held in Washington, DC, during November.
- Jim Hollyer assisted Ms. Diane Myazoe in conducting a Strategic Planning session in Majuro for the College of the Marshall Islands. The workshop was a great success. Jim will continue to provide guidance and assistance to CMI.
- Jim Hollyer went to American Samoa to present a workshop on building databases, developing websites, and using Adobe Acrobat.



## **ESTIMATED IMPACT OF THE PROJECT TO DECEMBER 2004**

### **American Samoa Community College**

#### **College of Micronesia**

- Enhancement of administrative and programmatic activities at the COM Central Office and at the three partner colleges.

#### **Northern Marianas College**

- Potential partners were identified during the AAACU Meeting. NMC has begun contacting individual institutions to begin information sharing and possible projects in the future.
- The Paravet Project was a major success in the CNMI. All participants who attended the program passed the examinations.

#### **University of Guam**

- Strengthen ties within the region and possible linkages in the Pacific Rim countries of Southeast Asia and South Asia.

#### **University of Hawaii**

- We worked together to anticipate and fulfill project needs, and university and federal requirements.

## **GOALS FOR THE PROJECT FOR THE NEXT SIX MONTHS: JANUARY 2005 TO JUNE 2005**

### **American Samoa Community College**

- Continue to provide administrative support for planning and implementing of ASCC ADAP activities for the next six months.
- Coordinate recruitment with local high schools for students who are interested in attending ASCC Fall '05 and major in degree programs offered by the Agricultural and Life Sciences Programs.
- Work closely with the Dean of Student Services, Dr. Irene Helsham and ASCC Recruitment and Retention Committee in recruiting and scheduling process.
- Continue to monitor project expenditures and work closely with ASCC business office personnel to bring ASCC request for reimbursements up-to-date.

College of Micronesia

- Continue to provide administrative and programmatic support to the 3 colleges.
- Continue to maintain fiscal reporting of project expenditures and ADAP equipment inventory.
- Continue to assist cooperators in the implementation of their projects.

Northern Marianas College

- Continue supporting all ADAP projects and activities in the CNMI.
- Support the upcoming Paravet ceremony scheduled for February 2005.

University of Guam

- Work with Guam's congressional delegate to ensure Alaska's entrance into ADAP.
- Continue support for ADAP funding through Congresswoman Madeleine Bordallo's Office.

University of Hawaii

- Jim to DC again to work with the USDA at end of January 2005 to work on panel review.
- Complete and submit the ADAP Year 18 grant application.
- Continue to monitor and facilitate project progress.

**Name of Project:                      Communications, Information and Publications Services (CIPS)**

Project Status:                      Core Project

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

Cooperators:                      Pacific Human Res. Development Council, Kris Anderson (UH Hamilton Library/PRAISE), Secretariat of the Pacific Community

Funding Amount:                      Year 16 \$63,030  
Year 17 \$63,190

---

**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.

**RESULTS AND ACCOMPLISHMENTS FOR THE PERIOD: JULY 2004 TO DECEMBER 2004**

American Samoa Community College

- Provided Internet excess for all CNR personnel.
- Purchased computer programs and software's (FileMaker Pro) to support research, extension and instructional programs.

College of Micronesia

- Purchase of badly needed equipment and supplies for COM-FSM Cooperative Research and Extension Department.

Northern Marianas College

- None to report

## University of Guam

- None to report

## University of Hawaii

- Services provided by Ms. Eileen Herring:

<u>Location</u>	<u>Searches</u>	<u>Articles</u>	<u>Book Loans</u>	<u>Hours</u>
ASCC	4	23	0	10.0
COM-FSM	0	0	0	0.0
Kosrae	1	16	0	4.5
Yap	0	5	0	2.0
CMI	0	0	0	0.0
NMC	1	0	0	1.0
PCC	2	6	1	5.5
UOG	6	13	0	8.5
SPC-Fiji	0	6	0	2.5
<b>Total</b>	<b>14</b>	<b>69</b>	<b>1</b>	<b>34.0</b>

- Distributed PEOPLE project CD's, and the "RMI Food Preservation" publication to Land Grant librarians across the Pacific.
- Collected agricultural publications to add to the Hamilton Library.
- Ms. Eileen Herring attended the SPC/FAO Training Workshop on Production and Management of Electronic Documents, and received training on the Greenstone Digital Library software.
- The Home Office hired a Grant Writing Coach, Dr. Sharee Pepper, who began work on January 5<sup>th</sup>, 2005.
- Continued collecting and updating the information presented on our AgNIC Web site covering 12 traditional Pacific Island crops (<http://libweb.hawaii.edu/libdept/scitech/agnic/>). The traditional Pacific island crops listed on the website are 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.).

**ESTIMATED IMPACT OF THE PROJECT TO DECEMBER 2004**

## American Samoa Community College

- Publications, software, and electronic communications help accomplish the work of researchers, extension agents, farmers, students, faculty and staff of ASCC CNR.

Major improvement in ASCC CNR communication capability compared to previous years.

College of Micronesia

- Improvement in communication and publication capability at COM-FSM.

Northern Marianas College

- None to report

University of Guam

- None to report

University of Hawaii

- The exchange of information between the University of Hawaii and the Land Grant libraries is vital to the Pacific. Ms. Herring distributes publications, and helps build library collections, while at the same time building the Hamilton Library collection and centralizing and organizing the information. With the new computer technologies, Ms. Herring will be able to compile and manage vast quantities of agricultural information, specifically focused on the Pacific crops, pests, and farming techniques. By centralizing the information, we can not only make it more accessible to communities and extension agents, but also help to ensure that research is not duplicated.

**GOALS FOR THE PROJECT FOR THE NEXT SIX MONTHS: JANUARY 2005 TO JUNE 2005**

American Samoa Community College

- Continue to utilize the CIPS project to keep ASCC up-to-date with today's constant change in communication technology and especially to connect with ADAP affiliated contacts in project coordination in a timely manner.

College of Micronesia

- Assist with the publication of one or two color plates in the Journal of Nematology on a research project on the nematode problem in swamp taro in some parts of Micronesia.

Northern Marianas College

- Improve the teleconference system between Saipan, Tinian and Rota.
- Reprint NMC Directory of Programs for distribution to farmers and other stakeholders.
- Distribution of PEOPLE CDs to other faculty and staff

University of Guam

- None to report

University of Hawaii

- Ms. Herring will attend the annual AgNIC Coordinating Committee meeting in DC, scheduled for March 9-11, 2005
- Ms. Herring will continue to build her electronic, agricultural collections and hire a student employee to assist with scanning and archiving.

<b>Name of Project</b>	<b>Enrichment Opportunity Project</b>
Project Status	Core Project (formerly Faculty/Staff Development Project)
Responsible Party	ADAP Directors and Management Services
Funding Amount	Year 16 \$35,000 Year 17 \$35,000

---

## **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: JULY 2004 TO DECEMBER 2004**

### American Samoa Community College

- Provided financial assistance to three ASCC Agriculture and Life Sciences degree program students: Miss Marella Moe (Family & Consumer Science Major), Mr. Saitumua Frost (Natural Resources Major) and Ms. Visa Vaivai (Natural Resources Major). The three students were added to the ASCC ADAP scholars program during summer and fall '04 semesters. All three scholars maintained very good academic standing throughout the previous two semesters.

### College of Micronesia

- No enrichment activities during the reporting period, however travel arrangements are already in place for two staff to attend a training on a new protocol for tissue culture of kava during first week of February 2005 in Suva, Fiji.

### Northern Marianas College

- NMC held its CREES Retreat in July which included a grant writing workshop
- NMC held a meeting with stakeholders, faculty and staff to identify issues in the CNMI.

### University of Guam

- Funds under this project went towards our 2004 Summer Research Apprenticeship Program. The program ran for four weeks, July 12 – August 6, 2004. Four high school students were selected from a field of about 20 applicants. They were Andrew Aube, Qian Nan Jiang, Jose Olivares, and Jun Park, all juniors. The students were assigned to work side-by-side with one of our professors who volunteered to participate in the program. The research work they were involved in included: 1) 'Basic Determination of the Colorant Capabilities of Purple Sweet Potatoes' under the supervision of our Professor of Food Science; 2) 'Speciation Study of Arsenic in Guam Waters' under the supervision of our Professor of Chemistry; 3) 'Vetiver Technology' under the supervision of our Professor of Soil Science; and 4) 'Extension Activities'—4-H DYA Summer Youth Program, attended a couple of workshops dealing with 'Water Quality and Waste Management' and 'Betterment of Community Life', and 'Pig Manure Project' under the supervision of our Animal Science Professor. The students involved in this summer's program were very bright and articulate. This was evident during their presentation at the end of the program of what type of research work they were engaged in and their personal insights of the program. The students each received a Certificate of Completion for the program and treated to a light merienda.
- Monies under this project also funded the trip for one of our Agriculture majors, Miss Kristen Cruz, to attend the American Society for Horticultural Science Annual International Conference 2004 in Austin, Texas. This conference included oral and poster presentations on crop production, post-harvest physiology, food quality and safety in relation to human health, and many other topics related to food and agricultural sciences. The student had the opportunity to interact with professionals and experts. The value to the student of such interaction is the opportunity to explore her future academic opportunities as well as realize their important role as future leaders in food and agricultural industry and academia for Guam and Micronesia as well as for the United States.

#### University of Hawaii

- Funded the HLPI staff workshop on "Enhancing Team Performance through Understanding Yourself and Others". The workshop addressed how to communicate effectively with others (how to be heard and understand others) based on the personality types of both parties.

### **ESTIMATED IMPACT OF THE PROJECT TO DECEMBER 2004**

#### American Samoa Community College

- The additional three ASCC ADAP scholars majoring in Agriculture and Life Science degree programs increased the enrollment of students in agricultural degree programs at ASCC.

#### College of Micronesia

- None



Northern Marianas College

- Faculty and staff received training in grants writing
- Morale improvement because of team building exercises conducted during the retreat
- Faculty and staff gained first-hand knowledge information on the current issues facing CNMI stakeholders.

University of Guam

- High school students who participate in the research apprenticeship program gain knowledge and experience in the field of scientific research, working along side research faculty from the college. Most of these students already express an interest in the field of science and by being exposed to an actual laboratory environment this may provide a positive influence as to their future educational pursuits.

University of Hawaii

- HLPI staff workshop taught valuable communication skills through discussion of personality types, work styles and cultural expectations. The workshop build the team into a more compact, and effective unit.

**GOALS FOR THE PROJECT FOR THE NEXT SIX MONTHS: JANUARY 2005 TO JUNE 2005**

American Samoa Community College

- Continue to retain ASCC scholars until completion of Agriculture and Life Science 2 years degree program at ASCC.
- Continue to recruit students from local high schools to increase youth interest in agriculture and increase enrollment in ASCC agricultural degree programs.
- Support administrative services staff training to enhance staff skills and knowledge in order to be more effective and efficient in performing their duties in serving our clients, students, faculty and staff.

College of Micronesia

- Facilitate the successful completion of the Suva training.
- Continue to work with the colleges in identifying short term training needs.
- Work with the colleges in the reinstatement of the High School Research/Extension Apprenticeship Program and the support to college students enrolling in agricultural programs.

Northern Marianas College

- Send faculty/staff to attend Food Safety Workshop on Guam.
- Develop a plan with UOG or UH that will bring in scientists to train faculty/staff as professional development.

University of Guam

- Our plan for the upcoming six months under this project is to plan for the next high school summer research apprenticeship program.

University of Hawaii

- Website design refresher classes for Vanessa Troegner, Dennis Miyahara, and Sharee Pepper; FileMaker classes for Jim Hollyer.

<b>Name of Project</b>	<b>ESCOP/ACOP Leadership Development Program</b>
------------------------	--

Project Status	Core Project
----------------	--------------

Coordination Team	ADAP Board of Directors, ADAP Home Office
-------------------	---

Funding Amount	Year 16 \$34,000 Year 17 \$34,000
----------------	--------------------------------------

---

## **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.

ADAP will send one representative from each ADAP institution to the ESCOP/ACOP leadership Development program as often as funding is available.

## **CLASS 14 PARTICIPANTS:**

### American Samoa Community College

- Ms. Laura Laumatia, Former ASCC CNR Instructional Program Coordinator/Acting Agriculture Extension Program Manager/Agriculture Extension Agent III.

### College of Micronesia

- Ms. Diane Myazoe, Dean of Cooperative Research and Extension at the College of the Marshall Islands.

### Northern Marianas College

- No one was sent for Class 14

### University of Guam

- Peter R. Barcinas, Extension Agent III

### University of Hawaii

- Dr. Harold Keyser, Maui County Administrator.

### **IMPACT OF THE CLASS 14 PARTICIPANT'S PROJECT:**

#### American Samoa Community College

Ms. Laumatia attended only the phase I of the ESCOP/ACOP Leadership Development Program in Indianapolis, Indiana, June 26 – July 1, 2004. Ms. Laumatia resigned from ASCC CNR on September 2004. Ms. Laumatia's phase I internship focused on strengthening her leadership skills; exposed to diversity of ideas, worked with role models; participated in extension programming and research projects; met and communicated with "key" USDA officials. She worked closely with then Interim Dean & Director of CNR, Dr. Donald Vargo to observe leadership and management of CNR research, extension and instructional programs. She also observed and interacted with the ASCC leadership team including Deans & Directors, Chief Financial Officer and other division heads. Ms. Laumatia learned the different management styles and gained a better understanding of the institutional decision-making hierarchy.

#### College of Micronesia

The participant focused on developing a strategic plan for CRE program. One of WASC recommendations to the College was to have an overall Master Plan and to have individual strategic plans for the various departments/programs. The CRE program has been using the COM Plan of Work to guide them as they conduct their programs annually. They don't have a strategic plan to follow. Having this strategic plan in place will be used to give them a better direction and guidance in conducting their programs since the whole CRE staff, instead of a few people, designed it. Having the strategic plan in place not only meet WASC's recommendation, but it will give a clearer direction for the CRE staff to follow in conducting their work. It will keep them focused on their work instead of doing something irrelevant to the program. Having a strategic plan will definitely make our program visible in the eyes of the community and the stakeholder

The participant is grateful to her mentor, Mr. Jim Hollyer, for providing all the guidance, expertise and support needed to develop and to produce a strategic plan for the CMI-CRE program. Also, for spending a week in the Marshall Islands to facilitate the strategic planning workshop, which was attended by the CMI President, CMI-CRE and COM Central Office staff.

#### Northern Marianas College

#### University of Guam

The idea of the University Solutions Center through the initializing Data for Economic and Community Solutions (DECS) was the focus area during my internship. I have managed to leverage "DECS" as an Extension Special Initiative project receiving support from the Director of Extension. One of the expected outcomes of Extension work is providing clientele and Stakeholders with access to information or programs specific to Guam. My combined work

efforts promote public issues and community development agendas based on national initiatives which are scientifically derived information. Localizing such programs through effective collaborative problem solving and needs assessments, focus groups and through workshops and seminars provides an opportunity for collaborators to access Extension's program base and expertise.

#### University of Hawaii

For his project, Dr. Harold Keyser worked on Personnel, Fiscal and Programmatic Guidelines for County-Based Faculty and Staff. The reorganization of CTAHR in 1999 included the assignment of all BOR appointees (faculty & APTs) into one of the six academic departments. An initial task force and a subsequent committee (2002) addressed the new procedures regarding personnel, fiscal and programming as a result of the change in location of supervisory responsibility for county-based faculty and staff. Some off campus faculty have expressed the concern that there are still challenges and barriers to overcome to complete the effective transfer and incorporation of faculty and staff into departments. This objective of this project was to identify the remaining issues in question and provide clear guidelines for their solution, with the goal of having an operational document on personnel, fiscal and programmatic guidelines for county-based staff. Input included the task force recommendations, preliminary guidelines from 2002, and interviews with faculty and department chairs. Anticipated completion date is end of March, 2005. The benefits will be clear guidelines on important operational issues that facilitate full incorporation of all faculty into departments.

#### **CLASS 14 PARTICIPANT'S REACTION AND COMMENTS ABOUT THE PROJECT:**

##### American Samoa Community College:

Ms. Laumatia wrote: "For my Phase II project, I examined how other Land Grant universities, namely Washington State University and Guam, had redesigned Extension to become a university-wide program. Washington State University in particular has spent an enormous amount of time and planning on restructuring its Extension. Both schools have created new positions that report directly to the president that are responsible for community outreach and engagement. The purpose of this restructuring is to improve the efficacy of all outreach programs by drawing on the expertise in their Extension programs, to increase financial efficiency by coordinating outreach programs and to increase the impact of their community programs.

I chose this project because I believe American Samoa Community College is in a wonderful position as a community college to utilize its Extension program as a tool for fulfilling its mission to the public. Though there are currently formal and informal partnerships within ASCC programs, I believe the College can benefit by drawing on the experience of other schools that have expanded Extension's mission.

Though I completed my Phase II project after terminating my employment at ASCC, I believe that I have recommendations that may benefit the ASCC administration. I also have personally gained by being able to objectively examine the current ASCC Land Grant administrative hierarchy even while working at another Land Grant university (which currently houses Extension in the traditional College of Agriculture and Life Sciences)."

**PARTICIPANTS FOR THE UPCOMING LEAD 21 SESSION:**

American Samoa Community College

- Dr. Daniel Aga, Dean & Director of the American Samoa Community College division of Community & Natural Resources.

College of Micronesia

- Mr. Thomas Taro, Interim Vice President of CRE at PCC

Northern Marianas College

- Mr. Edgar Cocker

University of Guam

- We have not yet decided on who will be the next candidate to participate in LEAD 21. Possible faculty being considered are: 1) Dr. Robert Schlub; 2) Mr. David Crisostomo; or 3) Dr. John Brown.

University of Hawaii

- In progress

<b>Name of Project</b>	<b>Human Resources &amp; Capacity Building Project</b>
Project Status	Core Project (formerly Degree Studies Project)
Responsible Party	ADAP Directors and Management Services
Home Office Staff	James Hollyer (Project Manager), Vanessa Troegner (Project Coordinator), Dennis Miyahara (Educational Specialist)
Regional Coordinators	Eseta Sua-Kalio (ASCC), Robert Jackson (COM), Esther Kapileo (NMC), Annie Santos (UOG)
Funding Amount	Year 16 \$60,000 Year 17 \$60,000

## 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: JULY 2004 TO DECEMBER 2004

### American Samoa Community College

ADAP HRCB advanced degree studies Recipient; Mr. Aufa'i Ropeti Areta received his Masters of Agriculture in Agricultural Extension Education in the Spring '04 semester at the Colorado State University. Mr. Aufa'i reported to work on August 16, 2004 as a full time employee of ASCC CNR after two years on educational leave. Mr. Areta appeared on local television series (Land Grant 1/2 hour monthly show) "*Matagaluega o Laufanua ma Atinae*" and talked about the results and findings of his thesis, "The Attitudes of American Samoa's Farmers' Towards the Logic-Model". Mr. Areta further discussed his thesis with farmers, ASCC CNR faculty and staff and clients during a general meeting that the general public was invited to on September 30, 2004. Mr. Aufa'i donated a hard copy and a CD copy of his thesis to the ADAP Office in Hawaii. Also, hardbound copies of Aufa'i's thesis were donated to the UH-Manoa Hamilton Library, ASCC Library, ASCC President's Office, and ASCC CNR Dean & Director's Office and CNR Agricultural Extension Office.

### College of Micronesia

There were no accomplishments during the reporting period, however we have awarded financial support to Mr. Mark Kostka, an Extension Agent in Agriculture with Cooperative Research & Extension Department at COM-FSM, who is enrolling at UH-Hilo this Spring to work on a BS in Tropical Agriculture.

### Northern Marianas College

- 3 on-going students under the Natural Resource Management Program at NMC were granted financial assistance during the Fall 2004 semester.
- NMC conducted its Apprenticeship Program which included 18 high school students from Saipan. The students were taught nutrition, aquaculture, pest detection and collection techniques, EFNEP, food processing, noni and da'ok oil production and nursery management during the apprenticeship.

### University of Guam

There is one more employee from the college who is receiving financial assistance from HRCB project in addition to the four currently under this program. Mr. Frank Alig, a Biologist III, works at the Guam Aquaculture Development and Training Center located at the Fadian Hatchery. Mr. Alig is working towards a Masters Degree in Marine Biology. Mr. Jesse Rosario, Administrative Officer, is close to completing his program towards a Bachelor's degree in Public Administration. Ms. Jane Mendiola, Administrative Assistant, and Ms. June Calvo, Secretary II, continue to work towards their degrees in Public Administration and Consumer and Family Sciences, respectively.



## **ESTIMATED IMPACT OF THE PROJECT TO DECEMBER 2004**

### **American Samoa Community College**

The Capacity Building for local staff at ASCC CNR is of high priority because of the lack of local staff with graduate degree at CNR. Specialists in research, extension and instructional programs of CNR are exclusively relying on contract and temporary workers from off-island with graduate credentials. Having a local employee like Mr. Areta's achievement of receiving a graduate degree in agriculture and returning to American Samoa to share the newly acquired skills and knowledge to improve the extension programs at ASCC CNR is a major highlight and accomplishment for CNR when compared to the other departments of ASCC.

### **College of Micronesia**

- None at this time.

### **Northern Marianas College**

The students under the apprenticeship program were required to make a presentation on what they have learned during the program. The students all agreed that they have gained a new perspective on agriculture and food sciences. The students also requested that we continue the program and requested additional program involvement.

### **University of Guam**

With ADAP funding the tuition and textbooks for the above mentioned individuals and upon attaining their respective degrees in their field of study, the college will stand to benefit as these individuals can then apply the knowledge they've obtained towards the enhancement of their performance in their current position within the college.

## **GOALS FOR THE PROJECT FOR THE NEXT SIX MONTHS: JANUARY 2005 TO JUNE 2005**

### **American Samoa Community College**

- Identify and select advanced degree studies potential recipient(s) for next school year when budget permits.
- Continue to promote awareness campaign of agriculture career within the territory during local high school recruiting period, school career days and the media.
- Continue to promote local staff development awareness within the CNR department.

### **College of Micronesia**

- Continue to work with local colleges to encourage appropriate staff to consider opportunities to advance professionally.

- Provide administrative support to the scholarship recipient in Hilo.
- Reinstatement of the Summer High School Apprenticeship Program.

Northern Marianas College

- Continue supporting on-going students and encourage faculty/staff to take online courses.
- Develop strategies to aggressively promote Natural Resource Management Program amongst high school students.
- Improve the Apprenticeship Program before Summer 2005.

University of Guam

- Our goal for this project is to continue providing financial assistance to the above individuals.

## **Name of Project                      Articulation Efforts between the Five Pacific Land Grant Institutions**

Project Status	Single Year; Concluding Project
Responsible Party	ADAP Directors and Management Services
Cooperators	American Samoa Community College, College of Micronesia-FSM, College of the Marshall Islands, Palau Community College, Northern Marianas College, University of Guam, Guam Community College, University of Hawaii, University of Hawaii at Hilo.
Funding Amount Requested	Year 16 \$0 Year 17 \$0

---

### **PROBLEM STATEMENT AND POTENTIAL SOLUTION**

The 2002-2006 ADAP Strategic Plan notes that increased articulation between the Pacific Land Grants is a desirable activity as it could lead to a more educated agricultural workforce in each ADAP country. To that end, here is a brief overview of current articulation agreements between the 5 Land Grants.

<u>School accepts classes or credits from</u>	
American Samoa Community College	.....
College of Micronesia – FSM campus	.....
College of the Marshall Islands	.....
Palau Community College (PCC)	.....
Northern Marianas College	.....
University of Guam	PCC, CMI, COM-FSM, NMC
University of Hawaii - Manoa	ASCC, COM, NMC, PCC, UOG
University of Hawaii - Hilo	CMI

These agreements would most likely be at the administrative level of the university or college, rather than just within the Land Grant or agriculture portion of the college. Overall, there are no entire programs that are directly transferable, rather individual courses would transfer, with or without credit.

At the January 2003 ADAP Board of Directors meeting, the Directors decided to pursue this new "Articulation" initiative and developed a plan. Each institutions' designated cooperator [from COM (FSM, CMI, PCC), UOG, Guam Community College (GCC), UH, UH-Hilo, NMC, ASCC] will work as part of a team that will construct a needs assessment tool for undergraduate/graduate program needs in Agricultural & Allied areas (FCS, Life Science, Nutrition) in their respective countries. The assessment will target potential students first then move on to businesses in the community that hire students. The results of the meeting are to be presented at the August 2003 Pacific Post-Secondary Education Council (PPEC) Meeting. A pre-report due is at the July 2003 ADAP Directors Meeting. From there, the directors will decide the final course of this project. It is envisioned that with the information from the needs assessment, the working group will get together to begin formulating ideas for new course offerings, or changing existing courses, to allow for better articulation between the Pacific Land Grants.

## **ARTICULATION UPDATE**

In February 2004, the President of the University of Guam requested, via the Senior Vice President, that the Dean of the College of Liberal Arts and Social Sciences initiate an interdisciplinary liberal studies degree program. The Dean organized a committee composed of faculty members and administrators. During the Spring, Summer, and Fall semesters, the committee conceptualized the new program and prepared the New Program Proposal forms, which entailed developing two new courses. The new courses are: a Gateway introduction to the program, and a capstone experience course. The New Program Proposal forms will be submitted to the appropriate committees for approval in January 2005. The committee decided to name the new degree program the Interdisciplinary Arts and Sciences program. We expect the program to begin in the Fall of 2005.

<b>Name of Project</b>	<b>ADAP Distance Learning ParaVeterinary Training</b>
Project Status	Multi-year ; Concluding
Principal Investigator	Larry C. Rawson, DMV (University of Hawai'i, Hawai'i State Department of Agriculture)
Cooperators	Peter Saville (Secretariat of the Pacific Community), Steven Nusbaum (Guam Dept. of Agriculture), Talitua Uele (American Samoa Dept. of Agriculture), Clinton Balok (Crown Point Institute of Technology), Diana Greenough, (Northern Marianas College), Jim Currie (Northern Marianas College-Tinian), Ignasio Dela Cruz and Richard Maratita (Northern Marianas Dept. of Land & Natural Resources), Engly Ioanis (College of Micronesia), Tavita Elisara (American Samoa Community College), Joseph Kitzman (USDA)
Curriculum Development	Luisa Castro (ADAP-UH)
Funding Amount Requested	Year 16 \$0 Year 17 \$0

## PROBLEM STATEMENT AND POTENTIAL SOLUTION

Diseases and poor management of livestock have been recognized as major limitations to animal production in the Pacific Islands. As significant as public health and food security are to these countries, there is also an urgent need for in-country, in-service training for animal industry and extension workers, farmers and the community, to meet basic veterinary service requirements in rural areas. Our continuing effort is to develop and distribute effective distance learning ParaVeterinary training materials to provide a basic level of animal health and husbandry education to local extension personnel and to community leaders. Eventually regional in-country trainers will sustain this effort.

## RESULTS AND ACCOMPLISHMENTS FOR THE PERIOD: JULY 2004 TO DECEMBER 2004

- During the last six months, 26 students from the islands of Saipan, Tinian, Rota, Pohnpei, Kosrae, Chuuk, Palua, Yap, and Majuro, have graduated from the ParaVet program. The PV model has evolved from the model we tested in Samoa and American Samoa to include a mentorship component and hands-on training workshops. Our graduating ParaVets were also presented with a small number of veterinary supplies – a “starter kit”. It is not our intention to continue supplying veterinary equipment to the region; the ParaVets were given information about how to reach suppliers on the mainland for their future needs.
- Funded a ParaVet student from Majuro, Ms. Caryl Jade, interested in helping the companion animals (dogs and cats) on the island, to train with the Hawaiian Humane Society, in Honolulu. After her training, she developed an “Understanding Wild or Feral Dogs” and a “Veterinary Information and Products” fact sheet detailing online resources for the ParaVets.
- Worked with the Hawaiian Humane Society (HHS) to develop a “Dog Population Management Decision Tool” to assist island communities and island governments.

- Met with the directors of the Humane Society International (HHI) and the Humane Society of the United States (HSUS) before their visit to the islands Guam, Saipan, Palua, and Majuro. The Home Office provided the names and contact information for the ParaVeterinary Students to act as liaisons for the visitors, while the HHI and HSUS directors visited animal welfare facilities and reviewed animal welfare programs.

**GOALS FOR THE PROJECT FOR THE NEXT SIX MONTHS: JANUARY 2005 TO JUNE 2005**

On February 7, 2005, Jim Hollyer will be meeting with the directors of the Humane Society International, Humane Society of the United States, Heifer International, the USDA, and the Department of the Interior - Office of Insular Affairs, in hopes of seeking further training funds for ParaVet students, while improving the animal care services for both production animals and companion animals.

<b>Name of Project</b>	<b>ADAP Scholars Database</b>
------------------------	-------------------------------

Project Status	Newly Initiated
----------------	-----------------

Home Office Staff	ADAP Coordinators
-------------------	-------------------

Funding Amount Requested	Year 16 \$0 Year 17 \$0
--------------------------	----------------------------

---

### **PROBLEM STATEMENT AND POTENTIAL SOLUTION**

Up to this point, ADAP has not followed the progress of individuals we have sponsored through the Human Resources and Capacity Building Project, the Enrichment Opportunities Project, the ESCOP/ACOP Leadership Project, and the ParaVeterinary Project past the time of our investment. To measure the impact of our projects in the Pacific region, we need to identify and track the progress of funding recipients.

### **RESULTS AND ACCOMPLISHMENTS FOR THE PERIOD: JULY 2004 TO DECEMBER 2004**

- Collected information from College of Micronesia and American Samoa Community College.
- Began building a database.

### **GOALS FOR THE PROJECT FOR THE NEXT SIX MONTHS: JANUARY 2005 TO JUNE 2005**

- Gather information from University of Hawaii, University of Guam, and Northern Marianas College.
- Identify recipients and contact each for follow-up interview/questionnaire.