The University of Arkansas at Pine Bluff

Request for Role and Scope Change

January 15, 2010

Dr. Lawrence A. Davis, Jr., Chancellor

University of Arkansas at Pine Bluff
Request for Role and Scope Change
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I. PROPOSED CHANGE

The University of Arkansas at Pine Bluff (UAPB) requests approval to expand its role and scope to include a Ph.D. in Aquaculture/Fisheries.

II. BACKGROUND AND INTRODUCTION

The University of Arkansas at Pine Bluff was founded in 1873 as Branch Normal College, a branch of Arkansas Industrial University. The Legislative Act of 1873 stipulated that the institution was being established for the convenience and well-being of the "poorer classes." Between 1881 and 1894, the school conferred ten (10) B.A. degrees. Because Negroes were denied admission to many of the 1862 land-grant institutions which were created by the Morrill Act of 1862, the federal government (by the Land-Grant Act of 1890) extended the Morrill Act of 1862 and required all states to provide access to land-grant institutions for all eligible citizens. By state statute, Branch Normal was designated as Arkansas' land grant institution for Negroes and the institution's name was changed to Arkansas Agricultural, Mechanical, and Normal College (AM&N). This designation impacted the institution's role and scope. In 1929, the role and scope of the school was expanded into a four-year degree granting institution and certified as a standard four-year college in 1933.

On July 1, 1972 a merger rejoined the two oldest public higher education institutions in the state. Arkansas AM&N was merged into the University of Arkansas System and renamed the University of Arkansas at Pine Bluff. Its mission was extended to serve a more heterogeneous population while advancing science and technology and applying it to solve economic, physical, social, political, racial and cultural problems.

Since the late 1980s, UAPB has consistently developed a research environment. In 1987, the University established the multi-disciplinary Research Center and held its first research forum, now an annual event. In 1988, the University of Arkansas Board of Trustees approved, by resolution, a Center of Excellence in Aquaculture/Fisheries at the University of Arkansas at Pine Bluff. In 1991, UAPB was approved to offer its first master degrees in elementary and secondary education.

Since that time, the University of Arkansas at Pine Bluff has continued to strengthen and enhance the academic environment for the expansion of graduate education. The November 5, 1991 "Revitalization Plan for UAPB," called for "expansion of graduate programs as circumstance dictates." The December 13, 1995 edition of the Strategic Plan, *Keepers of the Spirit 1996-2001*, included goals to increase both undergraduate (to 4,000) and graduate enrollment. There was also an objective to develop a governance system for graduate programs which included appointing a dean or director and ensuring representative membership and a faculty-driven Graduate Council. All were accomplished by 1994.

The University has planned systematically and reflectively to build graduate education by focusing on area and state needs, specialized and emergent programs. As a result, the University expanded its graduate programs to offer the Masters degree in Aquaculture/Fisheries (1997); the Masters degree in Addiction Studies (2003); and the Masters degree in Agricultural Regulations (2007). Three of the four graduate programs emerged from strong, long-standing undergraduate programs. The Addiction Studies program was created in response to state need, the White House Initiative on Historically Black Colleges and Universities (Executive Order 12878 signed by President William Clinton in 1993), and the Master Tobacco Settlement Funding.

In Fall 2004, the Division of Graduate Studies held a Graduate Program Retreat with an emphasis on "Fine Tuning Graduate Studies at the University of Arkansas at Pine Bluff." Dr. Richard Hanson, Dean for Graduate Studies at the University of Arkansas at Little Rock, was one of the keynote speakers. At that retreat, additional graduate programs were identified and discussed. Results of this process were reflected in the 2006-2010 Strategic Plan as proposed graduate degree expansion in the areas of: Regulatory Science, Human Resource Management, Educational Leadership, Aquaculture/Fisheries, and Addiction Studies.

Graduate education at the University of Arkansas at Pine Bluff has been a priority in the University's strategic planning. Careful attention has been given to development of foundational blocks in the academic environment. These include campus resources such as recruitment of outstanding faculty, expansion of library resources, and enhanced technological support. In addition, internal governance bodies have been strengthened to continuously develop procedures and policies and address accreditation needs. UAPB has also reached out to the University of Arkansas for Medical Sciences and signed a Memorandum of Agreement related to the proposed Ph.D. degree in Aquaculture/Fisheries (Appendix A). These improvements have resulted in a stronger response to the Arkansas Delta and community needs and increased support and funding.

The University of Arkansas at Pine Bluff has assessed its plans, procedures, and academic environment, as well as its current graduate degree offerings and has confirmed its readiness to expand its graduate program offerings to include one Ph.D. degree in a highly specialized and industry-validated need area. Therefore, this is a request for the modification of the University of Arkansas at Pine Bluff Role and Scope to include offering one Ph.D. degree. The remainder of this document provides evidence of readiness for this requested change.

III. RATIONALE FOR ROLE AND SCOPE CHANGE

Local, State, and Regional Need and Demand

The request for the role and scope change to allow for a Ph.D. program grew from demand by stakeholders in Arkansas whose industry depends upon the scientific research and extension efforts of the UAPB Aquaculture/Fisheries Center. Therefore, the request itself is driven by the local, state, and regional demand. Need for this program requires a change in the role and scope

of the University. This request is further rooted in the University of Arkansas at Pine Bluff's land-grant and expanded mission which charges the University to develop innovative activities and use technology to help solve problems. This request is related to the economic growth of the Arkansas Delta through its aquaculture/fisheries industry. The UAPB Aquaculture/Fisheries Center of Excellence is a key partner of the aquaculture industry and natural resource managers in Arkansas. Given the strong support for the Ph.D. program provided by these institutions and alliances, a Ph.D. program in Aquaculture/Fisheries will serve to offer expanded science based support for economic growth of the state, region, and nation.

The recreational fishing industry creates expenditures of $425 million per year in Arkansas, powered by the 655,000 anglers who fish in Arkansas each year (Source: U.S. Department of the Interior, Fish and Wildlife Service, and U.S. Department of Commerce, U.S. Census Bureau. *2006 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation*). The total economic impact of aquaculture in Arkansas exceeded $1.4 billion in 2005. The state's aquaculture industry of $167 million has an economic impact of more than $1.2 billion in the Delta region of Arkansas (Source: Kaliba and Engle. 2004. "The Economic Impact of the Catfish, *Ictalurus punctatus*, Industry on Chicot County, Arkansas." *Journal of Applied Aquaculture* 15(1/2):29-59).

Arkansas has the second largest aquaculture-industry state in the United States and leads the nation in production of bait minnows, Chinese carps, hybrid striped bass fingerlings, largemouth bass foodfish, and is a major catfish-producing state. The Ph.D. program in Aquaculture/Fisheries will expand knowledge, research and create a larger cadre of professionals able to assist in the expansion of the aquaculture/fisheries industries in Arkansas and beyond.

The role and scope change is required in order to allow the University of Arkansas at Pine Bluff to respond to community, industry and economic development needs of the Arkansas Delta while further implementing its land-grant mission.

Public Institution(s) within 50 Miles Offering the Programs at the Proposed Degree Level

There are no institutions (public or private) within 50 miles offering the program at the proposed degree level.

IV. INITIAL PROGRAM(s) TO BE OFFERED UNDER PROPOSED ROLE AND SCOPE DESIGNATION

Ph.D. in Aquaculture/Fisheries

V. INSTITUTIONAL READINESS

Documentation that external agencies (HLC/NCA, ADE, ASBN, program accreditation agencies, other approval agencies) have been notified of the proposed role and scope change

Appendix B includes a copy of a letter dated November 30, 2009, that Dr. Mary Benjamin the Vice Chancellor for Academic Affairs sent to Dr. John Taylor, Vice President for Accreditation Relations. This letter informs Dr. Taylor that UAPB is developing the proposal for the Role and Scope Change in preparation for the establishment of a Ph.D. program in Aquaculture/Fisheries. A previous letter (Appendix C) sent to Dr. Taylor by Dr. Benjamin on September 22, 2009, informed Dr. Taylor that the University of Arkansas Board of Trustees approved the role and scope change and the Ph.D. degree in Aquaculture/Fisheries at its September 4, 2009 meeting. A copy of the resolution by the University of Arkansas Board of Trustees is attached (Appendix D).

Actions the institution must take to continue approval by external agencies if the role and scope change is approved

Appendix E includes a copy of Chapter 7.2 of *The Higher Learning Commission Handbook of Accreditation*. Chapter 7.2 outlines the procedures to be followed to submit a change request to The Higher Learning Commission. A letter from Dr. Taylor to Dr. Benjamin, dated October 12, 2009, (Appendix F) indicates the requirement of the Commission for a focused visit that will form part of the Commission's review of the University's request.

Graduate and Related Institutional Policies and Procedures

The University of Arkansas at Pine Bluff has been methodically developing policies and procedures governing graduate education and enhancing the campus environment in support of graduate programs since the initiation of its first Masters degree program in 1991.

This evolution of policy is evidenced by several documents. The central strategic planning document on the campus at the University of Arkansas at Pine Bluff is referred to as *Keepers of the Spirit*. The *1996-2001 Strategic Plan* called for review of the governance structure for graduate programs and for greater documentation of policies and procedures, including those related to expansion of research activities and graduate programs. More detailed formal policies (i.e. handling misconduct in science) were codified in 2004 with formal approval by the Chancellor, followed in 2006 by the comprehensive *Handbook of the Office of Research and Sponsored Programs* (ORSP) which presents policies and procedures for research, grants, and contracts at the University. The 2006-2010 *Keepers of the Spirit Strategic Plan* continued the process of systematic policy development and implementation for graduate programs. The plan specified that the emphasis for expansion of graduate programs would be those programs that "build on existing strengths, uniqueness and service to the Delta and to the state of Arkansas in the areas of market development and healthy human capital development." Additional self-studies related to graduate programs were conducted for the requests for institutional change in

order to implement the Master of Science in Addiction Studies (2003) and the Master of Science degree in Agricultural Regulations (2007).

The Graduate Council was established at UAPB in 1994. It represents the graduate faculty of the University and develops general policies and regulations for graduate programs. The Council has primary responsibility for review and approval of graduate program curricula, graduate faculty status, policies, administration, and on-going planning for continuous improvement and growth of graduate programs. Over the past 15 years, the Graduate Council has matured in its role as the primary source of policy for graduate programs at the University. These policies have been codified in the *Graduate Studies Handbook* which undergoes periodic revision. The current *Handbook* covers the period of 2007-2009. Revision is underway for the *2010-2012 Handbook*. The *Handbook* is complemented by a Graduate Catalogue that is published on a biannual basis. The *Handbook* is the source for specific details of current policy and has emerged through the evolution of graduate programs at the University since 1991.

The UAPB Graduate Council is composed of graduate faculty representatives from the schools with graduate programs, a graduate student representative, and ex officio members that include the Dean of Graduate Studies and Continuing Education, the coordinators of the various graduate programs on campus, the deans of schools with graduate programs, the registrar, and the Vice Chancellor for Academic Affairs.

Standing Committees of the Graduate Council include the Graduate Curriculum Committee, the Committee on Program Evaluation, and the Graduate Faculty Committee. The Curriculum Committee reviews and makes recommendations to the Graduate Council on proposals for new courses for graduate credit, changes in graduate courses, and new graduate programs. The Committee on Program Evaluation has responsibility for implementing the policies and procedures for the review of graduate programs, and the Graduate Faculty Committee reviews and makes recommendations to the Graduate Council on applications for graduate faculty status.

In 2008, a partnership with the University of Arkansas for Medical Sciences Graduate School was formalized from which additional information on graduate program management has been provided. A Memorandum of Agreement was signed with the Graduate School of the University of Arkansas for Medical Sciences allowing Ph.D. students from UAPB to enroll in graduate-level courses that add depth to aquaculture/fisheries coursework and access to library holdings. This agreement provides for the review of faculty applications for Ph.D. supervision and graduate faculty status, for UAMS graduate faculty to serve on UAPB graduate student committees, for seminar exchanges, and for enhanced collaboration on specific research projects. Currently, a UAPB faculty member sits in the UAMS Graduate Council meetings. There is an ongoing discussion regarding extending collaboration between UAPB and UAMS graduate student bodies is being discussed.

Criteria for graduate faculty status were established by the Graduate Council in the 1990s. In anticipation of the current role and scope change request, additional criteria were established in December 2007 for chairing and serving on dissertation committees. University approval

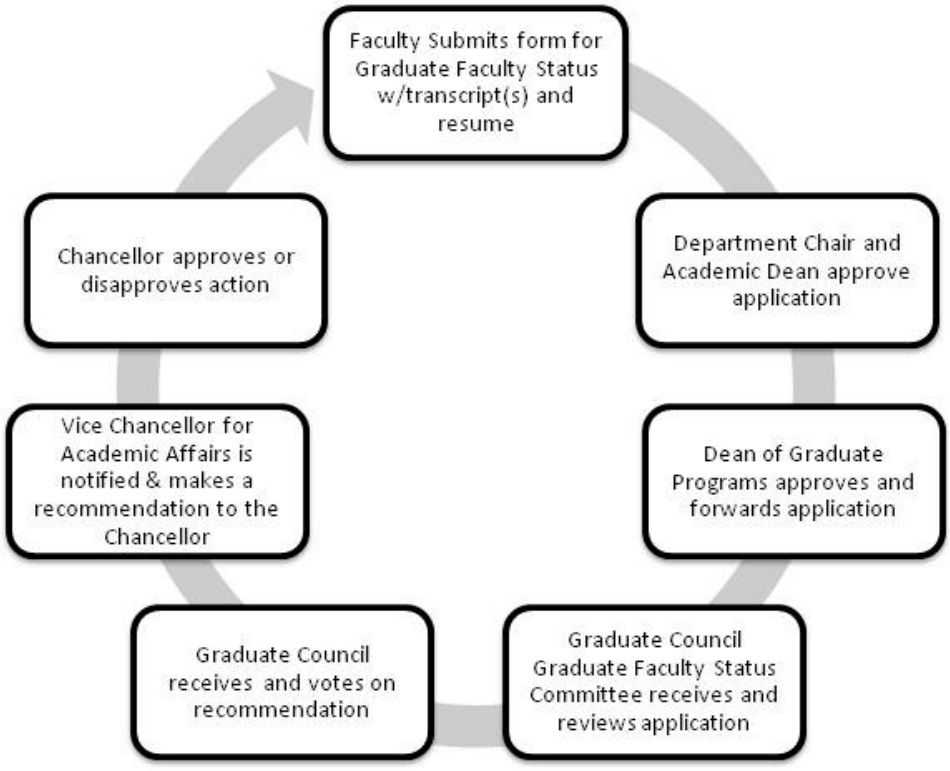
followed the work of an ad hoc committee appointed to review criteria used at other universities that grant Ph.D. degrees. From this process, the following criteria for graduate faculty status were approved by the *Graduate Council*.

Requirements for approval as Dissertation Faculty (Level II graduate faculty status) include:

1. Prior approval of Level I Graduate Faculty Status. Level I Graduate Faculty Status allows the faculty member to supervise Master's theses and serve on thesis (Master's) and dissertation (Ph.D.) committees.
2. Scholarly achievement in relevant field of study.
3. Active research program with record of recent publications in refereed journals in the relevant field.
4. Successful chairing of the thesis committee of a master's student.

The approval process for graduate faculty status is shown in Figure 1. This process is described in detail in the *Graduate Studies Handbook*.

Figure 1. Approval Process for Graduate Faculty Status



The Graduate Council has responsibility to ensure academic rigor through compliance with

university policies and procedures for graduate education.

The Dean for Graduate Programs and Continuing Education is responsible for oversight of graduate programs at the University and ensures adherence to policies and procedures relating to graduate studies. Specific responsibilities include: "1) directing the operation of Graduate Programs; 2) working with students, faculty, administrators and individuals within and external to the University to develop and maintain superior graduate programs; 3) monitoring graduate student registration and progress toward degrees; 4) recommending faculty members for graduate faculty status to the Graduate Faculty Committee following recommendation from the appropriate department and dean, and 5) verifying that students have met requirements for graduate degrees *2007-2009 Graduate Studies Handbook*." The Dean is co-chair of the Role and Scope Self-Study Team and is also the co-chair for the Higher Learning Commission/NCA Campus Standing Self-Study Committee.

The roles and responsibilities of the office of graduate programs are to sustain coordination and ensure cooperation among all graduate programs. This office offers fundamental support by providing human resources to each of the graduate programs. The graduate program's office is staffed by a dean and a secretary. Each graduate program has a coordinator. These coordinators are critical to the growth and viability of programs. The program coordinators have strong support from and relationships with the departmental faculty, chairs, and each of their academic deans. The program coordinators, departmental chairs, and academic deans interface actively with the dean of graduate programs and the Graduate Council with regard to programs and policies. Doctoral education will not change responsibilities of the graduate program or the Graduate Council, but will be embedded within the existing governance structure.

Research and creative work are basic to graduate education. At the University of Arkansas at Pine Bluff, a well-defined procedure has been established for research administration and implementation. Policies and procedures are described in detail in the *Handbook of the Office of Research and Sponsored Programs* (ORSP) (Appendix G). The document describes the UAPB Institutional Review Board (IRB) which reviews projects and activities that involve human subjects. The role of UAPB's Institutional Animal Care and Use Committee (IACUC) that oversees the University's animal research programs, facilities and procedures is also presented. The *Handbook* defines research misconduct and the role of the university-wide Research Committee in handling misconduct issues. Additional research policies included in the ORSP Handbook are: Institutional Biosafety Committee (for review of recombinant DNA research and compliance with National Institute of Health (NIH) Guidelines), laboratory safety, hazardous waste disposal, and information related to inventions, copyrights, and patents.

The University has also been very aggressive in seeking grant funding to support and improve academic programs (Appendix H). More than $11 million in Federal grants have been acquired since 2004 for undergraduate and graduate education in the science, technology, engineering and mathematics (STEM) areas. This funding and the enrichment of STEM programs have

contributed to an enhanced atmosphere of scholarship on campus, as well as a greater number of undergraduate students applying to graduate schools and entering STEM careers.

Teaching, research, and service/Extension are expected of all faculty at the University of Arkansas at Pine Bluff. The University has developed clear guidelines on the division of labor and workload between graduate and undergraduate faculty. Faculty teaching loads at the University are considered to be 12 credit hours of undergraduate coursework, 9 hours of graduate courses, or a weighted average of the two for those who teach a combination of graduate and undergraduate courses. Workload credit for supervising graduate student committees and serving on committees varies by program and department, in a similar fashion to that of the University of Arkansas, Fayetteville and the University of Arkansas for Medical Sciences. For the research-based graduate programs, supervision of master's theses is typically a part of the major professor's on-going research program. Thus, much of the work in guiding the graduate student's training involves conducting research that is part of the major professor's plan of work. Publications that result from graduate student theses are counted as output and impacts from the major professor's research program.

Faculty development at the University is on-going at all levels. The University, through Title III of the Higher Education Act of 1965, under the U.S. Department of Education's Strengthening Historically Black Colleges and University Program funding, has supported 30 faculty in their successful study for Ph.D. degrees and one staff member who received a master's degree. The Fall Faculty/Staff Seminar is a two-day, campus-wide faculty/staff development workshop that is supplemented with additional campus-wide faculty meetings throughout the academic year. The 2009 Seminar included a workshop on campus-wide strategic planning and implementation. Annual conferences such as the Educational Access and Rural Life conferences at the University contribute to faculty development and cement relationships with external stakeholders. The University Center for Teaching, Learning, and Advising also schedules faculty development workshops throughout the year. Recent training for faculty and staff includes use of WEB CT and Blackboard for online instruction, workers compensation, sexual harassment and the availability of counseling programs for university employees through Arkansas Employee Assistance Program (AEAP).

Faculty development is also provided through individual schools and units and has included topics such as program evaluation, the Twenty-First Century library, impact of assessment on USDA Plan of Work development, research grant development and the use of technology. Additionally, faculty development is implemented through the use of external conferences, workshops and seminars. UAPB faculty attend and participate in state, regional, national and international conferences and seminars including the Higher Learning Commission/NCA, American Council of Business Schools and Programs, National Alliance of Black School Educators, the Association of Research Directors, the Association of Public Land-Grant Universities, National Council for the Accreditation of Teacher Education, International Coalition for Addiction Studies Education (INCASE), the National Association for Education for Young Children, the American Library Association, the Conference of Southern Graduate Schools, and the Council of Historically Black Graduate Schools. Faculty also participate in

international exchange programs such as that with the Guizhou Crop Genetics Research in China and the Rotary Group Studies Exchange Program in Paraguay and Argentina.

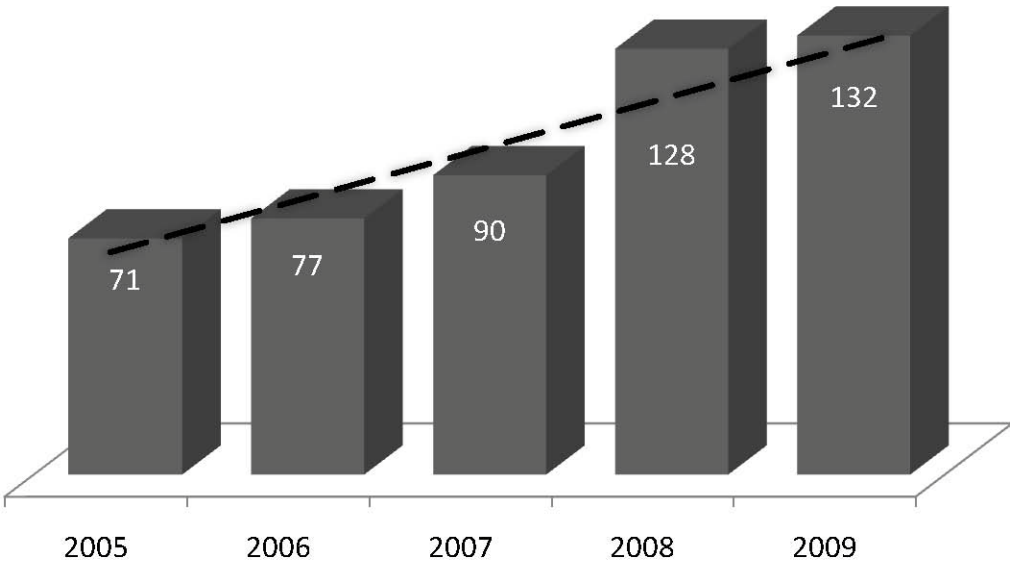
Each faculty member prepares a faculty development plan at the beginning of the year that details goals for the upcoming year. The plan includes a distribution of time to be allocated among teaching, research, and service. At the end of the year, the faculty member is evaluated on the accomplishment of the goals outlined therein. Faculty time spent directing Ph.D. students will be considered as positive credits in the faculty members annual evaluation and in his/her consideration for promotion and tenure.

A review of the structure and policies for graduate education, the faculty development process, and of the polices and structure for monitoring of research confirmed that the University of Arkansas at Pine Bluff has in place the essential components for the management of and support for a doctoral program.

VI. VIABILITY OF EXISTING PROGRAMS

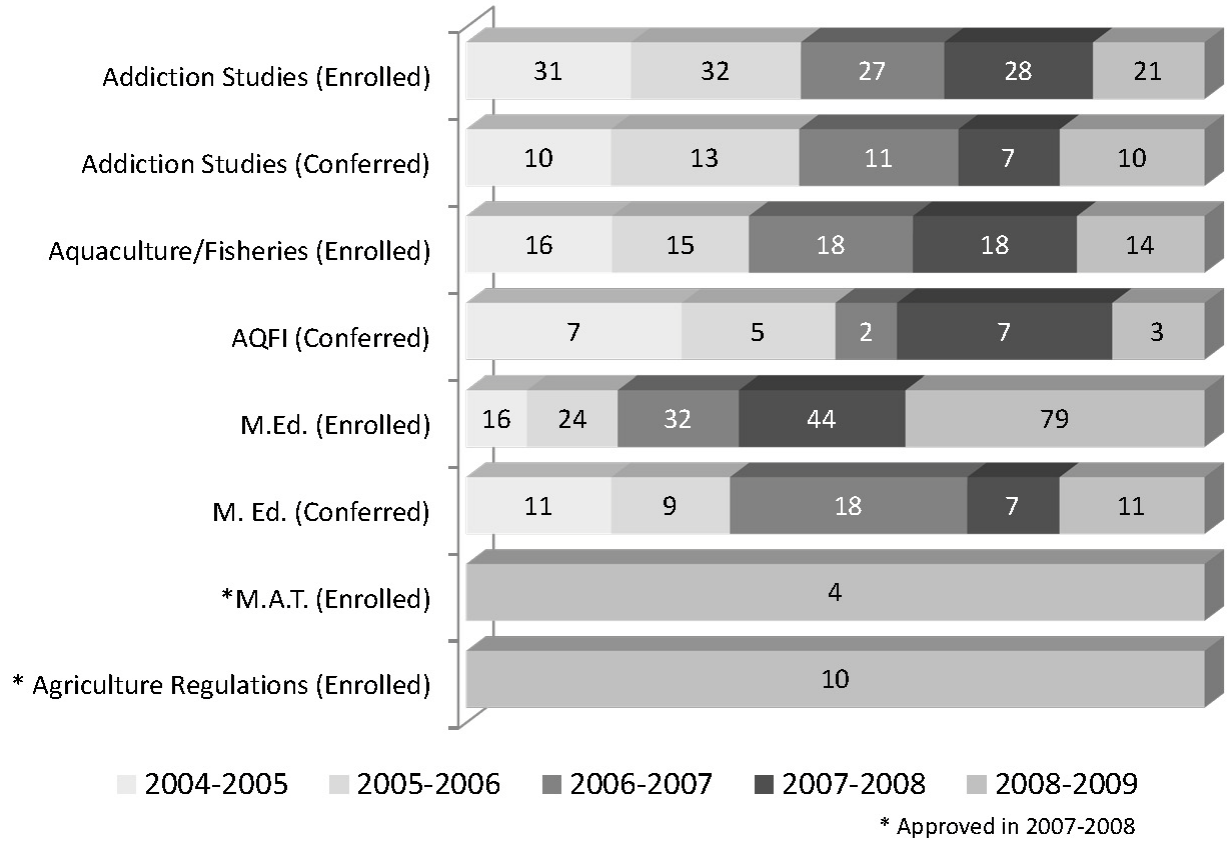
The University of Arkansas at Pine Bluff continuously plans for academic rigor and expansion on an on-going basis. Particular attention is given to accreditation standards, the Arkansas Department of Higher Education requirements, the institution's strategic plan, and the needs of stakeholders and students. Enrollment is one of the measures of the outcome of this system. Figure 2 shows the trend line and actual enrollment for UAPB graduate enrollment. Expectations and projections have been achieved.

Figure 2. Masters Program Student Enrollment
Fall Semesters 2005 - 2009



The University has 132 students enrolled in graduate programs. These students are enrolled in graduate programs from the School of Arts and Sciences; School of Agriculture, Fisheries, and Human Sciences; and the School of Education. Graduate enrollment and degrees conferred from 2004 through 2009 are shown in Figure 3.

Figure 3. Graduate Program Enrollment and Degrees Conferred Fall Semesters (2004 – 2009)



A list of existing Master's programs is shown in Table 1. The University uses Arkansas Department of Higher Education (ADHE) Viability Standards, national/regional program accreditations, advisory board input, and academic program reviews by ADHE to assess program viability. These programs are considered viable and useful by advisory boards, and accrediting agencies (i.e. NCA, NCATE, and INCASE). By ADHE viability standards (which require a three-year average of four (4) graduates per year for Masters, specialist and first-professional programs), two of these programs met the viability standard: Master of Science in Addiction Studies and Master of Science in Aquaculture/Fisheries. The new MAT (Master of Arts in Teaching) program was approved in 2008 and the degree in Agricultural Regulations was approved in 2007. Thus both of these degrees are not yet eligible for viability review.

Table 1. Existing Graduate Programs at the University of Arkansas at Pine Bluff.

Existing Graduate Program	Viability Status	Action Taken
Master of Arts – Teaching	*	
Master of Education – Early Childhood Education	*	
Master of Science – Addiction Studies	V	
Master of Science – Agricultural Regulations	*	
Master of Science – Aquaculture/Fisheries	V	
Master of Education – Elementary Education	NV	Program Deleted
Master of Education – English Education	NV	Request to reconfigure under one Masters degree in Secondary Education (Fall 2009)
Master of Education – Health and Physical Education	NV	
Master of Education – Mathematics Education	NV	
Master of Education – Science Education	NV	
Master of Education – Social Studies Education	NV	

*Legend: V= Viable, NV=Not Viable, *= Approved within past two years*

Five M.Ed. programs (English, Health and Physical Education, Mathematics, Science, and Social Studies Education) did not meet the viability standards. On November 4, 2009, a proposal was approved by the University of Arkansas Board of Trustees to reconfigure the programs as options under the Masters of Secondary Education. This proposal is under review by the Arkansas Department of Higher Education.

For the M.Ed. in science and mathematics programs, a $3 million (5 year) grant was received in Fall 2009 from the U.S. Department of Education for the Masters program in STEM areas. These funds are targeted for the enrichment of the programs in science and mathematics areas. Funding for assistantships ($17,320 full-time and $8,660 part-time), faculty development, and technologically enhanced classrooms has been provided. Interviews are currently underway to select the class for January, 2010 which will result in an increase in enrollment in those two areas. A common web site for graduate programs is under construction to serve as a common portal to all graduate programs at UAPB.

The M.Ed. degree in Elementary Education has been deleted because of state licensure requirements. Students with interest in this area are now enrolled in the Master of Education in Early Childhood Education.

Master of Arts in Teaching and Master of Education Programs

The Master of Arts in Teaching was approved in 2008. The degree is designed to prepare teachers whose undergraduate degrees were in non-education disciplines. A mandate by the Arkansas Department of Education in 1995 changed the approach to educational licensure for teachers of young children. These changes called for higher education personnel to rethink and reconfigure teacher preparation programs which cover the age span for young children. The previous program (Elementary Education, K-6) no longer met the needs of teacher preparation for today's classrooms. In keeping with best practices, the mandate now requires teacher preparation programs to research, develop, and implement programs better suited for preparing

future teachers. The major focus of the new Early Childhood Education program prepares teachers to work with young children, birth through fourth grade.

The University completed the process of changing its M. Ed. Program from Elementary to Early Childhood and was approved to implement the Early Childhood Education (ECE) licensure program in October, 2007. Students who were formerly Elementary Education majors selected Early Childhood. Those graduate students have been transitioned into the Early Childhood program and the Elementary Education degree program no longer exists.

Degrees awarded in Elementary Education show four (4) Elementary Education degrees in 2005-2006, eleven (11) in 2006-2007, and none thereafter. Early Childhood shows one (1) graduate in 2007-2008 (the year of transition) and six (6) in 2008-2009. In keeping with the requirements of the state licensure mandates, the newly developed Early Childhood Education (P-4) preparation program is now fully implemented and represents the largest enrollment base of (25, fall 2008) students in the department.

The program is nationally recognized by the National Association for the Education for Young Children (NAEYC) and the National Council for the Accreditation of Teacher Education (NCATE).

Master of Science in Addiction Studies

The Addiction Studies Program (ASP) was accredited by the Higher Learning Commission-North Central Association in April 2003. Its first cohort of twenty-one (21) students entered the program in August 2002 and all graduated in 2004. An additional fifty (50) students have graduated from the program since December of 2004 for a total of 71. Eleven (11) graduates have earned Arkansas state certifications and licensures as substance abuse professionals including: "Certified Alcohol/Drug Counselor," "Certified Clinical Supervisor," "Certified Prevention Specialist," and "Licensed Alcoholism/Drug Counselor."

Currently, there are two full-time instructors and two adjunct instructors for the program. One of the full-time instructors holds a Ph.D. in Social Work and the other holds a Ph. D. in Rehabilitation Counseling. Both adjuncts hold Ph.D.s in Social Work. Additionally, the Addiction Studies faculty have published and written proposals on topics related to emerging adults and substance abuse in adults.

In June 2008, the ASP was evaluated by the International Coalition for Addiction Studies Education (INCASE). Founded in 1990, "It is a professional association of professors, teachers, professionals, in programs specializing in addiction studies, including the use and abuse of alcohol and other drugs, other addictions, counselor preparation, prevention and treatment, research, and public policy" (www.incase.org). After a two-day site visit from the INCASE evaluator, the Addiction Studies Program received an INCASE "Certificate of Accreditation" in

November 2008. This certificate affirms that the Addiction Studies program meets program standards established by INCASE.

Master of Science in Agricultural Regulations

The M.S. degree in Agricultural Regulations is designed to produce highly skilled, multidisciplinary graduates for careers in regulatory affairs and related agricultural sciences. The program is mid-way through its second year of implementation. The first cohort in Fall 2008 consisted of ten (10) students. The program currently has thirteen (13) students-- three (3) full-time and ten (10) part-time. Nine (9) of the ten (10) part-time graduate students have full-time employment with state and federal agencies (e.g. Food and Drug Administration, Natural Resource Conservation Service) and private industry (e.g. Tyson Foods Inc., Washington Demilitarization Group). The program expects its first graduate in May 2010. This graduate student plans to pursue a DVM/Ph.D. in Veterinary Medicine.

The Master's degree in Agricultural Regulations was developed within the context of the UAPB historical and evolving mission. The primary focus of the degree is to increase the number and diversity of qualified graduates available to work in the growing regulatory affairs and agricultural science professions that affect the agriculture industry, the environment, human health and homeland security. The evolving mission of UAPB includes a charge for new curriculum models to help solve economic, physical, political and social problems. The University's mission is further strengthened by the implementation of the M.S. Degree in Agricultural Regulations program which creates an innovative curriculum model for careers in the field of regulatory affairs.

Students who graduate from the program will be competitive for a variety of employment opportunities including Animal and Plant Health Inspection Service (APHIS), Grain Inspection, Packers and Stockyards Administration (GIPSA), Food and Drug Administration (FDA), Food Safety Inspection Service (FSIS), Natural Resource Conservation Service (NRCS), the Department of Homeland Security and other agricultural regulatory/non-regulatory and compliance-related agencies and organizations.

The M.S. degree in Agricultural Regulations is supported by 14 Ph.D. and three M.S. level faculty members. These faculty members hold credentials from leading research institutions. Extramural research grant funds procured by the faculty totaled $ 3.7 million for 2008-2009 not including State Match and Evans-Allen funding. Faculty members utilize these funds to address the needs of local and regional needs ranging from fast growing pecan trees to a foundation seed sweet potato project. There are currently 27 partnerships and collaborative efforts with other universities (e.g. University of Arkansas for Medical Sciences; Alcorn State University; the University of Arkansas, Fayetteville; Texas A&M University; Tuskegee University and the University of Limpopo in South Africa); and various federal, state and local entities (e.g., USDA-ARS Dale Bumpers National Rice Research Center in Stuttgart, AR and the Northern Crop Science Laboratory in Fargo, ND).

Since 2008, agriculture faculty had twenty (20) research publications, one (1) book chapter, fourteen (14) extension publications, and eighteen (18) abstracts published. Faculty and staff have numerous appointed positions in professional association, advisory boards and committees. Five new faculty positions were added over the past five years in anticipation of offering a graduate program. Four (4) faculty members have previous experience in graduate programs. The Interim Dean/Research Director supervised 22 Ph.D. and 13 M.S. students at Mississippi State University and the Graduate program director directed thesis research and served on graduate committees in the Department of Aquaculture and Fisheries at UAPB. Three additional faculty gained graduate program experience at universities in India, Japan and Nigeria.

Master of Science in Aquaculture/Fisheries

The Master of Science degree program in Aquaculture/Fisheries has developed into a well-recognized source of aquaculture and fisheries professionals. The rigor and success of the master's program provides a solid foundation for a Ph.D. program.

The Aquaculture/Fisheries Center faculty have supervised and mentored 55 M.S. graduate students since its inception in 1997. UAPB has graduated, on average, 5.8 M.S. students per year over the past five years, with a graduation rate of 81%.

All faculty engaged in the M.S. degree program in Aquaculture/Fisheries hold Ph.D. degrees in their field and hold graduate faculty status. The faculty include several individuals who are recognized nationally and internationally in their respective disciplines, who have received the highest awards in their disciplines, and who have been elected by their peers to serve as elected officers in professional associations, including the U.S. Aquaculture Society, the American Fisheries Society, and the International Association of Aquaculture Economics and Management.

Of the graduates of the M.S. degree in Aquaculture/Fisheries, 33% have pursued Ph.D. degrees and 87% of the remaining are working in positions directly related to their training in aquaculture/fisheries. M.S. graduate students have published an average of 1.93 peer reviewed refereed journal articles per graduate student, and 3.45 total publications per graduate student. Ninety-two percent of graduate students have at least one publication, 85% publish at least one refereed publication, and 74% publish at least one refereed journal article. The students in the M.S. in Aquaculture/Fisheries program continue to win a number of awards, averaging 6 per year with a range of 4 to 8 from 2002 to 2008.

The program is reviewed periodically by experts external to the University to ensure that the system in place is adequate to produce outstanding M.S. graduates. The National Aquaculture and Fisheries Advisory Council consists of stakeholders and peers of the Aquaculture/Fisheries Center and meets annually to review the Center's activities. The Aquaculture Division of the Arkansas Farm Bureau reviews the research program of the UAPB Aquaculture/Fisheries Center once every three years. During this review, representatives of the Aquaculture Division (fish farmers from all districts in the state) convene at a meeting during which aquaculture researchers

present an overview of the problems being addressed and the results of research studies. External peer reviews are required by the United States Department of Agriculture – Cooperative State Research, Education, and Extension Service (USDA-CSREES). The Aquaculture/Fisheries Center of Excellence has undergone external peer reviews in 1999 and in 2008, in addition to an official USDA-CSREES site review in 2006. The 2006 review stated that "The Department (of Aquaculture/Fisheries) is an outstanding unit with an excellent record of research that is pertinent and credible, as well as providing a rich academic program."

VII. EXISTING PROGRAMS THAT SUPPORT THE REQUESTED HIGHER DEGREE LEVEL

Existing Masters programs at the University support the requested advanced degree level. The first Masters degrees were initiated in 1991 in the areas of elementary and secondary education. These initial programs have been reconfigured recently into the M.Ed. in Secondary Education. The University then expanded its graduate programs in 1997 to offer the Masters degree in Aquaculture/Fisheries; the Masters degree in Addiction Studies in 2003; and the Masters degree in Agricultural Regulations in 2007. These programs all have responded to local and state needs. The newest graduate program is the Master of Arts in Teaching, approved in 2008.

Existing B.S. degree programs at the University support new programs at the higher degree level. The degree in Fisheries Biology is the only comprehensive undergraduate program in aquaculture and fisheries in the state and has one of the largest enrollments of minority students in this discipline in the U.S. Classified as a viable program by ADHE, enrollment over the past 10 years has fluctuated from 22 to 53 which is above average when compared to similar programs nationwide. The three-year average graduation rate is four students and is projected to increase to 5.6 over the next two years. Over half of the graduates are employed in aquaculture, fisheries, natural resources, or environmental science fields in public agencies, the private sector, or have pursued graduate degrees. Others have pursued careers as science teachers, veterinarians, and toxicologists. The undergraduate degree programs in Agriculture and Regulatory Science also support new higher degree level programs.

The STEM Academy's programs encompass academic fields in the basic sciences of biology, chemistry, physics, and mathematics. The degree programs in these specific scientific disciplines provide additional support for higher degree levels. The STEM Academy is in the process of substantial expansion at UAPB and at partnering institutions across the state. A $3 million grant will provide funds for the Academy to strengthen both instructional and research programs in the basic sciences (science and mathematics) and contribute $1.5 million to the construction of a STEM Conference Center. The university's graduate programs and associated research and grant portfolio form a solid foundation for the UAPB's expansion to include one doctoral program.

VIII. COSTS ASSOCIATED WITH THE ROLE AND SCOPE CHANGE

Commitment to continuous planning for and investment in academic program growth are an integral part of university viability. Since the first Masters program began in 1991, the growth and development of graduate programs has been accompanied by expansion of the budgetary and infrastructure resources required to support new programs. Thus, as is detailed in the following section on the availability of resources to support the change, the University has expanded its resource base in support of the new graduate programs since 1991. This resource base has included financial resources that have accompanied the new programs and a construction program that has resulted in dramatic enhancement of the physical infrastructure at the University for both instruction and research. Human resources, in the form of a Dean for Graduate Programs, a Graduate Council, and the requisite policies and procedures required to support dynamic research programs that meet the highest standards of ethics have been developed. The library and technology resource bases have been expanded concomitantly with the increased demand for more intensive use of these resources from masters students and research faculty. Given that the support base for graduate programs has evolved as new programs have come online, the role and scope change in and of itself is not anticipated to result in substantial new costs other than the doctoral assistantship costs specified for the new Ph.D. program itself. On-going, institutionalized long-term and strategic planning processes on campus have laid and continue to lay the groundwork for continuous improvement and growth of graduate programs.

IX. AVAILABILITY OF RESOURCES

Financial Resources

The University of Arkansas at Pine Bluff has planned programmatically and fiscally for the resources to support an outstanding academic atmosphere suitable for undergraduate and graduate level programs. The financial plan includes Education and General (E&G) Funds received from state appropriations, tuition and fees and external funding. External funds from (Title III) and a major capital improvement funding ($30 million from the state of Arkansas for instructional and laboratory), improvement provided for major upgrades to the fiber optics ($ 2.1 million) and to the library facilities and holdings ($439,000). These foundational improvements have been critical to the University's undergraduate programs and the expansion of graduate programs.

This proposal for a doctoral degree is built on the existing academic infrastructure and fiscal, physical and human resources. For example, administration of the Office of Graduate Programs is already included in the E & G budget. Library resources and technological infrastructure are already in place including connection to Arkansas' lambda rail through the Arkansas Research, Education and Optional Network (AREON). UAPB is one of five universities in the Arkansas Research Alliance that contributes to the quality and quantity of research among the institutional members (University of Arkansas, Fayetteville; Arkansas State University; University of Arkansas at Little Rock; University of Arkansas for Medical Sciences; and University of

Arkansas at Pine Bluff).

The Aquaculture/Fisheries Center has added faculty positions over time and currently has 14 faculty members with graduate faculty status. Three faculty positions (biostatistics, reproductive physiology, and water quality) were added in the last two years. The teaching appointments budgeted for these positions include sufficient teaching capacity in their appointments to cover the new courses to be offered for the Ph.D. degree. The current number of faculty is sufficient to cover the additional teaching for the Ph.D. degree in Aquaculture/Fisheries without creating an overload for faculty. Thus, the only new cost to the university is in the area of doctoral assistantships totaling $250,000 per year. These assistantships will be financed by a combination of E & G funds ($125,000 per year) and USDA/Evans-Allen and state matching funds ($125,000 per year). E & G funds for assistantships will be partially underwritten by adjunct faculty funds which are standard items in the E & G budgets.

Figures 4, 5 and 6 show the revenue by source for the University, over the previous five-year period. Restricted funds are derived from competitive, non-competitive grants or agreements and contracts. Some masters level graduate students are now supported by grants.

Figure 4. Education & General Revenue by Funding Source

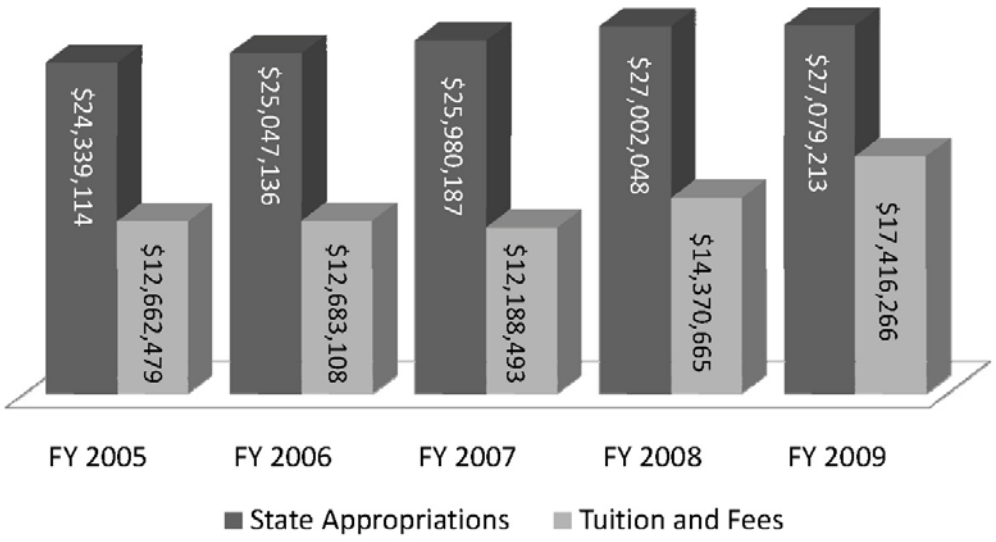


Figure 5. Restricted Funds: Grants and Contracts

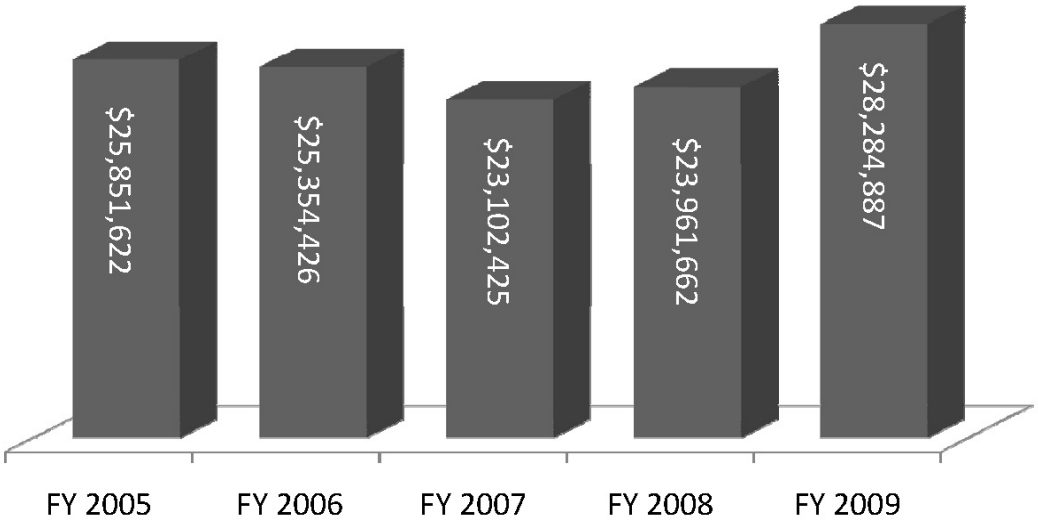
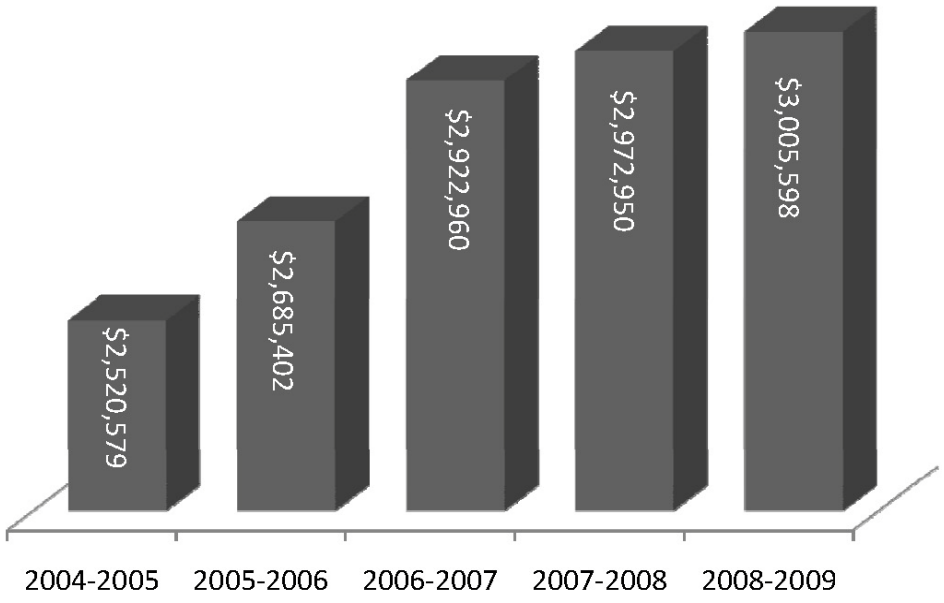


Figure 6. Title III Grants 2005 - 2009



Academic excellence at the University has been supported by Title III program funds, a special type of restricted grant that supports the purchase of scientific or laboratory equipment, facility renovation and improvement, purchase of library materials and support for faculty positions and development. Figure 6 shows the amounts by year from the Title III Act. The Institution received Title III funding for the first time in 1966. By April 2009, UAPB had been awarded more than $41.5 million in Title III funds. In 2008, the College Cost Reduction and Access Act (CCRAA) was added to the Title III program and the University was awarded $1.1 million for that year. Since 1966, 30 UAPB faculty and staff have received terminal degrees as a result of Title III, and an average of 400 individuals receive professional development training each year. Professional training activities include on and off-campus seminars and workshops. New facilities have also been developed from Title III funding. The establishment of the television and radio stations, the Learning Resource Center, study laboratories in dormitories and "smart classrooms" throughout campus have been funded by Title III.

In addition to the general E&G state funding, the on-going graduate programs of UAPB are using pragmatic and need-based approaches to augment their financial resource base. The Addiction Studies Program is the only stand-alone, graduate-level program of its kind in the state of Arkansas. The program was implemented in the fall of 2001 and is partly funded by Arkansas Master Tobacco Settlement/Arkansas Department of Health funds. Annual funding averages $600,000 per year. ASP and other university faculty actively collaborate to secure external funds from the National Institute on Drug Abuse. ASP has collaborated with the Department of Social and Behavioral Sciences to purchase a perpetual license for "Statistical Package for the Social Sciences" (SPSS). This license has allowed the University to install statistical software on select computers campus-wide, so that graduate students can improve their research and data analysis skills. ASP is also currently collaborating with the School of Business and Management and the School of Education to establish an evaluation/survey research center. This center will be used to teach students how to conduct evaluation/survey research and interviews.

The School of Education successfully added grant funding to its base E & G to create and maintain a scholarly atmosphere. Funding sources include the U. S. Department of Education, the Walton Family Foundation, the Arkansas Master Tobacco Settlement and appropriations from the Arkansas General Assembly. Funds from these and other sources have supported Teacher Quality Institutes, The Learning Center, and improvements in recruitment and retention. Over a five-year period, a total of $14.4 million in grant funds was awarded to the School of Education. External grants allowed the School of Education to develop several partnerships with surrounding school districts, the Arkansas River Education Cooperative and to extend scholarly activities to both students and faculty. Other partnerships were developed with the Arkansas Department of Health, Jenkins Memorial Children's Center and the Arkansas Department of Rehabilitation.

Table 2 shows the funding sources for the School of Agriculture, Fisheries and Human Sciences (SAFHS) for the past 9 years. SAFHS is supported by a combination of state matching funds and U. S. Department of Agriculture formula grants; state-appropriated E&G funds and competitive

grants. External funding has increased from $6.3 million in 2000 to $14.1 million in 2008. A wide variety of software programs is available, including SAS for analysis of research data by faculty, staff, and students and are described in greater detail under the Technology section. Competitive grants and contracts showed the greatest increase in funding for SAFHS. SAFHS receives Facilities Grants from the United States Department of Agriculture – National Institute of Food and Agriculture (USDA-NIFA) to maintain, upgrade and build new facilities and purchase equipment for research, Extension and academic activities relative to the USDA plan of work. The Facilities Grant program complements the E & G and other sources of funding. These grants totaled $16 million since the inception of the program in 1983.

Table 2. School of Agriculture, Fisheries and Human Sciences Funding, 2000 to 2008.

SAFHS Annual Funding Sources					
Fiscal Year	**E&G Support**	**USDA Formula Funds**	**Competitive Grants/Contracts**	**State Funds**	**Totals**
FY 2000	$899,140	$2,621,376	$1,484,071	$1,204,000	**$6,208,587**
FY 2001	$920,208	$2,927,980	$3,571,757	$1,389,000	**$8,808,945**
FY 2002	$1,073,389	$2,991,818	$1,825,659	$1,795,091	**$7,685,957**
FY 2003	$1,270,479	$2,999,488	$2,452,684	$1,636,002	**$8,358,653**
FY 2004	$1,379,413	$3,087,682	$2,476,470	$1,788,702	**$8,732,267**
FY 2005	$1,388,748	$3,137,156	$2,007,082	$2,995,494	**$9,528,480**
FY 2006	$1,270,676	$3,355,528	$5,283,091	$3,222,370	**$13,131,665**
FY 2007	$1,386,091	$3,429,088	$6,293,741	$3,294,014	**$14,402,934**
FY 2008	$1,418,485	$3,771,973	$5,492,376	$3,399,088	**$14,081,922**
Totals	**$11,006,629**	**$28,322,089**	**$30,886,931**	**$20,723,761**	**$90,939,410**

Physical Resources

Infrastructure at the University includes buildings that house academic offices, classrooms and laboratories, campus housing, and activity centers such as the library, recreational facilities (swimming pool, weight rooms, etc.), and athletic complexes, as well as agriculture and aquaculture/fisheries field research and outreach facilities. Total square footage of buildings on campus in 2009 was 1.24 million square feet. Of this area, more than 16,000 square feet were for laboratory space.

The University embarked on an ambitious capital development program that began with a campus and neighborhood development planning process in 1996-1997. The result has been a transformation of the physical plant of the University over the past decade. The master plan led to:

1. The construction of three new buildings (two for classroom instruction and academic offices, and one for laboratories);
2. Installation of IP communications advanced technology networks campus-wide;

3. Major renovations of seven additional buildings;
4. Major upgrade of the underground infrastructure related to water, utilities, and heating and cooling systems;
5. Repair and re-establishment of the W. E. O'Bryant Bell Tower as the focal point of the campus; and
6. Expansion and improvement of neighborhood streets and sidewalks.

Continuing improvements to the physical plant of the University include:

1. Designing the new STEM Academy building conference center;
2. Progress toward the elimination of vehicle traffic on campus; and
3. Renovation of existing buildings.

The Walker Research Center was completed in 1987. This building houses the administrative offices for the UAPB Office of Research and Sponsored Programs, and the National Science Foundation sponsored STEM Academy Programs. It also contains three research laboratories which are used by faculty conducting research in the sciences. A board room is available for use in research project development, the Graduate Council, self study committee meetings and other planning activities.

Caine-Gilleland and Dawson-Hicks Halls were both completed in 2002. These state-of-the-art buildings currently house administrative offices for several departments. Caine-Gilleland Hall (49,660 sq. ft.) houses the School of Arts and Sciences, as well as the departments of Chemistry and Physics and Nursing. Dawson-Hicks Hall (49,295 sq. ft.) houses the School of Education and its graduate programs, the Honors College, the Department of English, Theatre and Mass Communications; and the Department of Social and Behavioral Sciences.

Renovations to the L.A. Davis, Sr. Student Union Building in 2008-2009 have created an environment more conducive to scholarship. A broad-band technology network was installed in the student lounge; new study rooms, a lounge for commuter students, and seminar rooms were created.

The 1890 Research and Cooperative Extension Program, funded through the land-grant partnership with USDA, includes more than 1,000 acres of land used for agriculture and aquaculture/fisheries field research. These facilities are used to support the University's land-grant mission through stakeholder-driven research in bench-style laboratories, fish ponds, animal enclosures agricultural field plots, and greenhouses. Details of research facilities in the School of Agriculture, Fisheries, and Human Sciences, are found in Appendix I. The instructional, research, and technological infrastructure is in place to support the proposed role and scope change.

Human Resources

Human resources available to support the role and scope change include graduate faculty at UAPB, graduate science faculty on the University of Arkansas for Medical Sciences, visiting scientists available to assist with thesis and dissertation work, support staff and services personnel at the University, and internal/external advisory groups that serve various programs and departments. In 2009, there were 55 members of the UAPB Graduate Faculty involved in teaching graduate courses, supervising master's students, and serving on master's student thesis committees.

Graduate faculty drew from a reservoir of 219 partners in their teaching, research, and Extension/outreach efforts in 2008 (Appendix J). These partnerships include co-authors on publications; collaborators on grant proposals and contracts; stakeholders; state, federal, and international agency personnel; public school educators; and others. The magnitude of the partnerships that have been developed by UAPB faculty provides a rich breadth of perspective, critical review and feedback, and access to expertise and analyses to complement the University's curricula and educational program. Several UAPB graduate faculty serve on the executive committees of various national, regional, and international professional bodies, and are members of editorial bodies of many internationally refereed journals.

Advisory councils and boards have been formed by various programs and departments to provide additional human resources in support of program development and direction. Programs in Education, Addiction Studies, Agriculture, and Aquaculture/Fisheries rely upon advisory groups to provide critical input into program direction, new initiatives, acquisition of funding, and identification of stakeholder priorities.

On-going academic and research activities provide a rich intellectual environment for students at UAPB. A variety of conferences are held each year that focus on topics relevant to needs of the Delta. For example, the annual Educational Access Conference brings together students, faculty, and administrators from UAPB, other institutions of higher education in Arkansas, and school districts around the state, as well as other national and state experts to discuss current issues in education. The Annual Rural Life Conference allows faculty in the School of Agriculture to share their expertise with Arkansas farmers and public officials. The Honors College offers programs designed to encourage and stimulate intellectual rigor and service across the campus. The Annual Student/Faculty Research Forum allows students and faculty members to share results of their research with the campus-at-large. The STEM Academy instructs students in the fields of science, technology, engineering, and mathematics. It facilitates research guided by a major advisor and provides opportunities to participate in a summer academy and a mentoring program. It places students in summer research internships at universities and laboratories across the U.S. and abroad. The Ronald McNair Scholars Program pairs undergraduate students with faculty members from all departments to help students develop and complete research projects related to their majors. Various organizations on campus sponsor lecture series to stimulate thought and discussion among students, faculty, and staff. Among these are the Lyceum series, the

Humanities Lecture series, L.A. Torrence Leadership and the annual Rockefeller Lecture. Students are involved in many other activities that enhance the academic and cultural environment of UAPB. The University has a thriving debate team, an active theater program, an art gallery with an active schedule of exhibitions, a museum, and a thriving music program which includes UAPB's internationally renowned Vesper Choir and the nationally-acclaimed Musical Marching Machine of the Midsouth.

Library Resources

The University of Arkansas at Pine Bluff library system is composed of the John Brown Watson Memorial Library (main campus facility), the Addiction Studies Resource Center (Walker Research Center), the Aquaculture/Fisheries Research and Education Library (Woodard Hall), the Word Instructional Resource Center (Dawson-Hicks Hall), the North Little Rock Site, and the Bell Learning Resources Center (Caldwell Hall). Twenty-three (23) full and part-time professionals and paraprofessionals provide service to patrons within this system. The main library is open 97 hours per/week, Sunday through Saturday. This library system and its partnerships with other regional and state library facilities is well established to support the change in role and scope designation for the University of Arkansas at Pine Bluff.

The main library is housed in a physical facility with 39,200 square feet of floor space, including satellites for approximately 400 patrons. Its volume equivalence is 362,653 holdings with 187,106 print volumes and 175,547 microform. Additionally, the main library houses a Special Collections Department that includes University, Arkansas, and Pine Bluff/Jefferson County specific information, a Vertical File as well as a Career File, university annuals, and books by or about Arkansans. The main library also houses other special collections that include the African American Collection, a Juvenile Collection with award-winning literature, and the Langston Hughes Collection.

The library system hosts 30 online databases with access to more than 100,000 full-text journals and newspaper articles, many peer-reviewed, accessible from any computer on campus and distance access with an ID and password to databases such as EBSCO Host and ProQuest. An excess of more than 450 print journals with retrospective journals in bound volumes and on microfilm is also available to patrons. The Online Public Access Catalog (OPAC) accesses all print holdings in the main library and satellites and is accessible through the Internet as well as UAPB and satellite web sites.

The library maintains a membership in AMIGOS and thus obtains access to OCLC's WorldCat, the international computer-based cooperative cataloging system, with more than 500 bibliographic databases. The library employs Voyager, the same system used by the Library of Congress, as its integrated library system. The Online Public Access Catalog (OPAC) accesses all print holdings in the main library and satellites and is accessible through the Internet as well as UAPB's and satellite web sites.

A newly awarded capacity building grant included funds to enhance library holdings relative to the M.S. Degree in Agricultural Regulations and a grant from Bank of America (Fall 2009) was awarded to upgrade computer access for students with disabilities. Through a special legislative appropriation, the library also received $75,000 for upgrades in equipment and its collection. Title III funding is provided annually with the amount ranging from $55,000 to $160,000.

The university's library is a partial depository for state and federal documents, and holds membership in the Arkansas Documents Association, a consortium that focuses on best practices and current trends with federal documents. National Agricultural Library advisors assist in identifying primary and secondary state and federal documents. A funded Economic Development Pilot Project sponsored by the U.S. Government Printing Office (GPO) affords ready access to federal documents. GPO provides direct and critical access to the Agricultural Regulations Degree Program with the most current information on federal codes and regulations, new laws, and rules established by the U.S. President and Congress.

The John Brown Watson Memorial Library is also a member of ARKLink, a state-wide consortium of 47 libraries that provides service to UAPB students and faculty through inter-library loans and reciprocal borrowing arrangements. ARKLink additionally provides cooperative database purchasing and collection building programs for member libraries to leverage their separate budget allocations.

The professional and paraprofessional staff regularly attend local, state and national conferences and meetings, participate in Webcasts, and tour other library facilities to keep abreast of trends in library services. For example, staff and faculty from the M.S. Addiction Studies Program, the Resource Center, and the main library visited the Addiction Studies Library in Hazelden, MN.

The Addiction Studies Resource Center provides a center of learning for the students enrolled in the Master of Science Addiction Studies Program. The Center houses six computers, approximately 1,190 volumes, ten journals, 192 videos, 11 model and display boards, one printer, free pamphlets and booklets, and access to 14 databases containing thousands of articles. A full-time media specialist is located in the Center and all resources allow students to acquire a knowledge base that prepares complete online certification practice examinations in preparation for board certification examinations to become certified substance abuse counselors in Arkansas.

The aquaculture and fisheries collection is (Aquaculture Fisheries Research and Education Library AFREL) in Woodward Hall, adjacent to the Aquaculture and Fisheries Department main offices and in proximity to student offices and computer labs. AFREL is a satellite of the main library, John Brown Watson Memorial Library. The primary emphasis of AFREL is online subscriptions that are available to faculty, staff, and students on their desktop computers in their offices.

Four capacity building grants have been completed to augment the aquaculture and fisheries periodicals and holdings of the John Brown Watson Memorial Library. An initial capacity

building grant was completed more than fifteen years ago, which created the foundation of the aquaculture and fisheries holdings. This initial set of holdings was sufficient for the B.S. program. Two capacity building grants were awarded to the Aquaculture/Fisheries Center for implementation of the Master of Science degree program. A portion of funds from both of these grants was used to enhance the aquaculture and fisheries holdings. The fourth capacity building grant, written explicitly for development of aquaculture and fisheries library holdings, was awarded to the Aquaculture/Fisheries Center in 2005. These four grants have provided a core collection of books in aquaculture and fisheries, and online access to journals identified as required for research in aquaculture and fisheries at the undergraduate and graduate level (including doctoral). The grants have allowed for complete acquisition of back issues of each new journal. At the end of each grant, the subscription cost is absorbed by the main library through its base budget.

An AFREL library committee was formed in 2005. The library committee is composed of a John Brown Watson Memorial Library representative, four Aquaculture and Fisheries faculty members (including the department chair), an AFREL library support assistant, a graduate student, and an undergraduate student. Recommendations to the Aquaculture and Fisheries faculty for discussion and decisions concerning purchasing and policy are decided in committee meetings.

To continue the support of the M.S. programs and prepare for the proposed doctoral program, a Title III proposal was funded in 2007 for the years 2007-2011 ($192,000). In addition, a USDA Capacity Building Grant was funded for implementation of the Ph.D. program, including library resources.

For the School of Education, the Word Instructional Resource Center (WIRC) in Dawson-Hicks Hall offers specialized research material in print and online. Three (3) computers, one printer, and a copier are available to students in the WIRC for online research and other educational use. Full-time library support staff are available to assist students and faculty. The Center is also located next to the Educational Media and Technology Center.

The Bell Learning Resources Center (BLRC) in Caldwell Hall houses educational related non-print materials and equipment for curricular use by UAPB faculty and students. Twenty one (21) computers are available for training of faculty, staff and students.

The North Little Rock Library Site is serviced by the Watson Memorial Library. The UAPB library system provides workshops and classes on Information Literacy, Bibliographic Instruction (citing sources using APA and MLA styles), and other training sessions on topics to support UAPB's curricula and to encourage repeat patronage of the library and its satellites.

The University of Arkansas at Pine Bluff partners with the following libraries for literature searches:

1. The USDA/HKD Stuttgart National Aquaculture Research Center (SNARC) laboratory library located 45 miles from Pine Bluff in Stuttgart, AR. It contains 579 books, 211 monographs and 98 periodicals/databases and indexes.
2. The National Center for Toxicological Research (NCTR) houses 12,000 monographs, 600 databases, and 250 current titles in microbiology, genetics, reproductive and developmental biology, chemistry, neurotoxicology, biochemical toxicology, molecular epidemiology, biometry and risk assessment.
3. The University of Arkansas for Medical Sciences (UAMS) holds a collection of 43,000 volumes, 3463 periodical subscriptions with 125,097 bound journal volumes, and six special collections.
4. The University of Arkansas at Little Rock library houses 11,000 electronic book titles, 28,000 electronic journals, 3,600 active periodical subscriptions, 115 electronic databases, and more than 1 million microforms.

Library resources at the University of Arkansas at Pine Bluff are in place to support the requested change in role and scope to offer a doctorate degree.

Library Plans to Sustain a Doctoral Program

The role of the library system is to expeditiously and successfully provide information sources to the patron; however, the delivery of those sources will change continually to meet the needs of 21st Century use. A doctoral student representative will be added to the Library Committee. Doctoral students will be included in surveys to assess student satisfaction with library data services and technology. It is anticipated that the faculty for doctoral classes will increase the number and types of requests. Plans are underway to add a partnership with the National Agricultural Library. To provide more time for the library to deliver information to patrons, the library is planning to increase its outsourcing to jobbers by 10% for a total of 25%. Jobbers, for example, will prepare books at their source for technical processing upon receipt at the library, thus freeing up more time for staff service to patrons.

To better serve the undergraduate and graduate students, faculty, and staff users, the library plans to implement an integrated data source system to reduce time spent searching multiple databases. A requisition is being processed to purchase QuestionPoint software that allows a patron to submit a reference question online and receive a response within 24 hours. The library is equipped to forward the question to other libraries within the Amigos Network for assistance if needed.

The library's Facebook page allows students to connect to library staff at any time or place and receive a response. By Fall 2010, the library will have Twitter feeds, a Myspace page, and "Ask-a-Librarian" will be operational. Through AREON, the University will receive additional bandwidth which gives added speed to the network.

The University's existing library system is a 21st Century library and the adaptations presented in this section show its continued development. To meet the standard of the 21st Century library as presented in the Library Journal and Serials Solutions webcast, "The Future of the Library--How the Library ECOSystem is Evolving to Support 21st Century Information Demands," the University must continue to add bandwidth and train staff and faculty on the use of technology (e-readers, I-Phones, Kindles, etc.) to access information. UAPB is committed to continuing to build and maintain a 21st Century library.

Short-Term and Long-Term Plans to Meet Intensity of Doctoral Study

The University views all student preparation on a continuum and assumes that all students, undergraduate and graduate, will perform at a level of intensity and more persistent demands for library resources and technologies that will advance their academic and career success.

Short-term plans to ensure and address a possible increased intensity by doctoral students include UAPB's continuation to solicit input from students, faculty, staff, and community to ascertain needed library resources and technologies. Students are given a voice through membership on most UAPB committees, including the UAPB Library Committee.

Student Government Association and Graduate Student Association members are encouraged to present their concerns and suggestions of the extended population of students during UAPB Library Committee meetings and other forums. The library system then responds to those demands. The library periodically gives assessment surveys on library and technology needs and suggestions. This information is used in the planning process.

A new print system, (Pharos), is now in place with expansion plans for library satellites. The library has also shifted its budget ratios to allow for increased demand of database and e-book access. Title III funding, Capacity-Building grants, and outside grant sources have helped to accommodate these increased funding demands.

With the intensity and demand of its patrons, including prospective doctoral students, the library has increased the number of computers in the main library from 16 to 30, and through UAPB's Technology Department, has remained current with the latest software.

To ensure that technology remains at the forefront of collection building, the library staff now includes a Library Systems Administrator who works closely with UAPB's Technology and Computing Services Departments. The Library Systems Administrator is nearing the last semester of Ed.D. study in Educational Technology and regularly shares innovative ideas from this professional doctoral study.

The library staff has been adjusted to replace part-time staff in on-campus satellites with full-time library support assistants. These staff members serve patrons at their respective satellites and also assist with research needs of the faculty.

To ensure currency and state-of-the-art services, the library and satellite staffs regularly visit other libraries and universities to ascertain various methods of service delivery and resource acquisitions. Staff members have already visited and/or attended workshops at the University of Arkansas, Arkansas Tech University, University of Arkansas at Little Rock, University of Arkansas at Monticello, the Clinton Presidential Library, Spelman College Library, the Atlanta University Library System, the Addiction Studies Library in Hazelden, MN, and the Library of Congress. Currently, library, department, and satellite staff members are making plans to tour the Auburn University and Tennessee State libraries. Additional assistance has been provided by an EBSCO representative who is a former librarian from LSU. UAPB's library participates in local and state consortiums to defray acquisition costs and to remain current in library trends.

UAPB has administered a Student Satisfaction Survey annually since the 2008 academic year. Respondents from all schools concurred that the library was providing adequate data for their major.

With the library's new print system, long term plans include more publicity concerning e-book acquisitions followed by continued library workshops and training on how to optimally use Online Public Access Catalog (OPAC), subscription databases, portals, and e-books. UAPB's Technical Services Department has upgraded hardware to accommodate any subject-specific software requested by faculty, and individual departments are using grants or budget allocations to purchase requested software. Additional long-term plans include the library's partnership with UAPB's Computer Science Program to develop instructional technologies on research methods that may be uploaded onto the library's web page, thereby offering accessibility of instruction to doctoral candidates, graduate, and undergraduate students at their point of need. The library also has long-term plans to grant full-access of the Bell Learning Resource Center (BLRC) equipment and media to doctoral students for research and presentations.

The library feels confident that these short and long-term plans will address the intensity and library and technology resource demands of not only doctoral students but also graduate and undergraduate students for the foreseeable future.

X. TECHNOLOGY

The mission of the UAPB Technical Services Department is to strengthen information technology resources to enhance all university activities while meeting the demands of the ever-changing field of technology, and to ensure technology is always functional to support a well-rounded and fulfilling education at the University of Arkansas at Pine Bluff. Included in the comprehensive *Campus Neighborhood Master Plan* (1998) is a component that transformed the University's technological infrastructure. This has resulted in the existing capacity to transmit voice, data, and video over a single converged IP network.

The University's technical infrastructure is comprised of four separate core buildings with two

Cisco Systems 6509-E chassis with dual Supervisor 720-3BXL's in each. A combination of fiber and copper line cards is contained therein, and there are two power sources in each building for redundancy. Most of the fiber is single-mode with some multimode fiber as well. The core buildings have a 10GB connection between each core. Most of the outlying buildings have Cisco Systems Catalyst 3750 PoE switches installed that connect back into each of the 6509's in their particular core building.

Wide Area Network (WAN) implementation consists of a link in which the WAN connects UAPB to the Business Incubator in downtown Pine Bluff. The UAPB WAN router is a Cisco Systems 2811 that connects to an AT&T T-1 circuit.

The University utilizes the combination of the DIS network and AT&T as a transport for Internet access. Internet hardware consists of a Cisco Systems 3825 router. In addition, there is a pair FortiGate 620B in an active-standby configuration. The firewalls are configured in the traditional 3 interface arrangement: Inside, Outside, DMZ (Data Management Zone). Some of the key features of the firewall are the ability to do traffic shaping, setup policies for users or groups, and logging of information for all Internet users. The following security has been applied for technical access: user authentication and authorization to network devices, VPN Access Control (NAC) via Cisco System's Network Access Control, two Ironport SPAM filters installed in a redundant manner to eliminate unwanted email, ESET Nod 32 for AV protection on the network, and integration of Intrusion Detection and Prevention with FortiGate 620B Firewalls.

UAPB's wireless system is composed of multiple autonomous Cisco Systems Access Points that are managed by the Cisco Systems LAN Solution Engine (WLSE). The Wireless LAN is 802.11A and 802.11B/G compliant. Wireless bridges are used in various places in the UAPB network.

UAPB's cable television channel, which reaches approximately 35,000 viewers in the Pine Bluff community, provides the public with information and entertainment from sporting events to discussions on health care issues and presentations on resources available on campus and in the community. UAPB-TV 24 and KUAP 89.7 radio provide unique programming to the Delta. KUAP 89.7 reaches listeners globally via the Internet.

Distance learning services are offered through a variety of programs and units. UAPB operates off-campus sites at Lake Village (Chicot County), Marianna (Lee County), North Little Rock (Pulaski County), and Lonoke (Lonoke County). Online courses are provided to more than 900 students to access academic offerings at their convenience.

Campus instructional and research laboratories are equipped with high-tech, scientific equipment to support the academic program being offered. All students housed on campus have Internet access in their dormitory rooms.

Technology supporting existing graduate programs was presented in the library section.

Additional information is presented for the School of Agriculture, Fisheries, and Human Sciences, with a particular emphasis on Aquaculture/Fisheries which will offer the doctoral program. Within the Aquaculture/Fisheries Center, there is a computer classroom with 17 computers, a flat panel display, an LCD projector, a document camera, a flatbed document scanner, a printer and VHS and DVD video players. These computers are available to students when courses are not being taught in the classroom. The classroom is used heavily during the day.

There are more than 100 desktop computers within the Aquaculture/Fisheries Center. All graduate students have computers provided by their major professors. There are adequate funds available to every major professor to place a reasonably powerful computer on each graduate student's desk. Graduate students also have access to computers in research laboratories (12 computers), in the Aquaculture/Fisheries Research and Education Library (3 computers),in the Aquaculture Economics and Marketing Laboratory (4 computers, specifically equipped with econometrics software), and in another open access computer laboratory (5 computers and a high speed printer). One or more printers are available in most graduate student offices. The Aquaculture/Fisheries Center is primarily a PC shop. The operating systems in use in the Center range from Windows 2000 to Windows XP. Microsoft Office Professional Suite of business software is utilized. This software is available on all computers throughout the Center.

The Aquaculture/Fisheries Center utilizes a variety of statistical software including systems as simple as Microsoft Excel and as complex as SAS. The University of Arkansas at Pine Bluff has a perpetual SAS site license, which includes 25 individual licenses. A variety of specialized software has been made available in the Center through extramural funding. Specialized software includes: Crystal Ball (risk simulation analysis), E-Views (econometrics), Fishery Analysis and Simulation Tools (fish population modeling), GAMS Base Module (linear and nonlinear mathematical modeling), JMP 8.0 (statistics), Latent Gold (statistics), LIMDEP 8.0 (econometric modeling), Minitab (statistics), PCORD (canonical correlation analysis), Single Mix (fish feed formulation), SNAP 8.0 and SNAP PDA Interviewer Module (Surveys), SPSS (statistics), STATA (econometrics), SYSTAT & Sigmaplot (statistics and graphics), and Wisconsin Bioenergetics Model 3.0 (fish bioenergetics modeling).

The Aquaculture/Fisheries Center has dedicated AT&T T-1 line access to the Internet. The Center is associated with the Arkansas Cooperative Extension Services and uses the Extension Service in Little Rock for a variety of technical services, from Internet access to email service, and web site hosting. The Aquaculture/Fisheries Center has a unique agreement and technical ties with the Extension Service which allows the Center to deliver programs through county agents. The Center provides Aquaculture/Fisheries specialists to support the needs of the state and its citizens. As a result, demonstrations, verifications, press releases, and programs can be easily distributed throughout the state.

The Aquaculture/Fisheries Center uses Novell GroupWise as its email tool. Email can be accessed from any computer connected to the Internet and is thereby accessible from anywhere.

Web pages for the Aquaculture/Fisheries Center (www.uaex.edu/aqfi) are comprehensive. This website is linked from the School of Agriculture, Fisheries, and Human Sciences web page at the UAPB website. The Center web site includes information on the undergraduate program, the graduate program, jobs, Extension, staff, and the Aquaculture/Fisheries satellite branch of the John Brown Watson Memorial Library, and the Aquaculture/Fisheries Research and Education Library (AFREL). The web page for the Aquaculture/Fisheries satellite library (http://www.uaex.edu/aqfi/library) has links to at least seven online databases: AFS publications, Ebsco, Proquest, Aquatic Sciences and Fisheries Abstracts through Cambridge Scientific Abstracts, ScienceDirect, FirstSearch, and JSTOR. Access to a large number of useful biological and economics journals is provided through these databases.

It is concluded that UAPB's library system, technology, partnerships and engagement in state consortiums support the change in role and scope to accommodate a doctoral program.

XI. OTHER SUPPORT SERVICES

The University has a number of specialized offices and programs providing support for students, undergraduates through doctoral. A list of these programs is presented in Table 3, and a brief summary is found in Appendix K.

Table 3. List of Specialized Offices and Programs to Provide Support for Students.
Honors College
Viralene J. Coleman Writing Center
Ronald McNair Scholars Program
Office of Student Involvement and Leadership
Living and Learning Center
Office of Disability Services and Veterans Affairs
Student Health Center
Office of International Programs
Office of Cooperative Education and Career Services
Student Counseling and Assessment Center
Childhood Development Center

The University will provide support for doctoral students through partnerships and formalized cooperative arrangements with public schools, churches and other not-for-profit organizations, day care centers, and other public and private entities in Pine Bluff and surrounding areas. Presently, UAPB has over 100 partnerships and agreements with agencies, organizations, and institutions.

XII. INSTITUTIONAL PLANS TO IMPLEMENT AND SUSTAIN THE PROPOSED ROLE AND SCOPE CHANGE

UAPB's strength is based on the support from stakeholders and alumni, the dedication and commitment of its faculty, the impacts that result from the implementation of its mission, and the success of its graduates. These strengths will sustain the role and scope change.

The integration of graduate education into the overall campus environment, including that of doctoral education, has been a focus of the Institution's long-range planning process for an extensive period of time. Continuous program planning and evaluation occur across campus. This planning framework is outlined in the 2006-2010 and *2011-2015 Keepers of the Spirit* documents. A cornerstone of the ongoing planning is the semi-annual Chancellor's Management Workshop that serves as the forum for discussion, revision, and modification to the central planning document of the University, the *Keepers of the Spirit*. Environmental scanning, SWOT analysis, and multi-disciplinary discussion groups have provided a framework for prioritization of planning objectives.

Future planning also occurs through special campus-wide retreats such as the Graduate School Program Retreat of 2004 and at the school and departmental levels. The Graduate Council has a well-established record of planning and implementation of graduate programs through the policy-development process. These mechanisms provide opportunities for strategic planning and direction for the future and will ensure that proposed change receives the necessary monitoring, evaluation, and financial resources needed for growth and sustainability.

The Institution's stakeholders provide strong support for programs and initiatives. There is a long-standing tradition at UAPB of engaging and involving stakeholders throughout the campus-wide community. This engagement provides an ongoing mechanism to develop programs that are relevant, meaningful and targeted towards the highest priorities. An example of stakeholder input into the core planning process was the involvement of community stakeholders in the review of the *Keepers of the Spirit* document. They provided critical feedback for the goals and activities of the central strategic plan for the University. Stakeholder interests and participation across the campus are reflected in the number of advisory boards, such as those for the Addiction Studies, Regulatory Science, and Aquaculture/Fisheries programs and by engagement in seminars in the Schools of Business and Education. For example, the Office of Career Services annually invites business and industry professionals to visit classes and advise students on current expectations in job opportunities in industry.

The University's commitment to its stakeholders and to developing solutions to their problems results in programs that are relevant and meaningful to the state. Such programs are sustained over time as policy-makers and stakeholders prioritize funding for initiatives that have a track record of producing meaningful contributions and impacts. Applied research, Extension, outreach projects, and academic programs at UAPB solve stakeholder problems and transfer practical solutions to the public, generating support as the University's value to the community

becomes evident. Examples of program relevance to stakeholder needs are numerous; several examples include:

1. UAPB's fish health diagnostics program became the central source of scientific information for both fish farmers and regulators following the outbreak of a virulent strain of fish virus in the Great Lakes. UAPB's efforts have prevented the virus from infecting Arkansas' waters and have allowed Arkansas fish farmers to continue to supply their markets throughout the country. However, the work of UAPB's fish pathologist resulted in impacts across the nation. He was called upon to provide technical support to the ensuing regulatory process nationwide. His work had further impacts as his diagnostic protocols were adopted by a number of other nations.

2. UAPB Extension efforts designed to assist sweet potato growers in Arkansas led to recognition of the benefits possible from improved varieties. This led stakeholders to seek funding to establish a seed bank for sweet potato varieties in eastern Arkansas.

3. The Geographical Critical Needs Grant (state appropriations) administered by the School of Education provides stipends to Education majors at a number of institutions throughout the state of Arkansas. This program responds to the pressing need for teachers state-wide.

4. The Minority Initiative Sub-Recipient Grant Office, (through a grant from the Arkansas Department of Health Master Tobacco Settlement Funds), awards sub-grants to twenty-four non-profit agencies for the development and delivery of programs for the prevention and/or cessation of smoking.

5. Through the School of Business and Management, Students and faculty assist low-income individuals with completion of their income tax forms. The School of Business and Management is affiliated with the federally-funded and national SCORE, through which faculty provide free counseling to small businesses.

Strength for the sustainability of this role and scope change is also found in student satisfaction and successful job performance. Processes exist to assess student satisfaction, and these will be continued. Student satisfaction is assessed on several levels, including the university, school, and departmental level. Examples of these surveys include the annual student satisfaction survey that is managed through the Office of Academic Affairs. The Office of Career Planning and Placement conducts annual surveys of employer satisfaction with UAPB graduates and also carries out a survey of graduating seniors to offer assistance for job placement. These surveys are complemented with student, graduate, and employer surveys conducted at the departmental and school levels across campus. Existing survey instruments will be modified to include questions relevant to doctoral students. High student satisfaction at UAPB provides a sound foundation for the sustainability of the role and scope change. As with current surveys, the outcomes of surveys of doctoral students will be used for continuous improvement throughout the program planning process.

The National Alumni Association provides a strong source of sustainability for the role and scope change. UAPB has an active alumni base of more than 17,000 individuals who continue to contribute and participate in UAPB/ AM&N activities. Alumni are especially evident during the summer conference, Homecoming activities, and Founders' Day. Alumni contributions exceeded $1.7 million in 2009. Alumni serve on UAPB's Board of Visitors and the Development Foundation Fund Board. Five alumni currently serve in the Arkansas General Assembly, while others serve on the Congressional delegation from Illinois, and in key local, state, and federal positions.

The University has a history of collaborations and partnerships formed to address public needs and concerns. UAPB works diligently to provide exceptional public service through these Extension, partnership, and outreach activities. Strengthening partnerships and collaborative activities will help sustain the role and scope change. A recent example was the selection in 2008 of UAPB as the host site for the home office of the National Aquaculture Association. This umbrella industry association represents all segments of aquaculture in the U.S.(see Appendix J).

The University's success in marketing its academic and research programs has been and will continue to be a source of sustainability. Formal marketing efforts began in 2004 with a budget of $140,000 for radio and TV spot advertisements and averaged $82,440 per year from 2005 to 2009. The University's marketing program has targeted diverse groups, including the growing Hispanic population in Arkansas and has raised the profile of UAPB. The marketing program is supplemented with the development of a presence on Facebook, Wordpress, Twitter, and other social networking Internet sites. A new, unified web site that features all graduate programs at the University is under development. Increased marketing efforts likely contributed to the 10% increase in enrollment in 2009 (from 3,525 to 3,792 students). This overall growth in enrollment included a 28% increase in graduate student enrollment.

Visibility of UAPB academic and research programs is further enhanced by public appearances by campus groups such as the Vesper Choir and the Marching Musical Machine of the Mid-South and by presentations at professional meetings. For example, the Vesper Choir has performed at the Vatican, Washington Cathedral and the Potter's House in Dallas, Texas. The Marching Band performed in the 2009 Inaugural Parade for President Obama. Scientific presentations at professional association meetings demonstrate the capability and productivity of faculty and students. Such presentations enhance the overall reputation of the University within their respective scientific disciplines. Additional visibility is derived as faculty and students publish actively in top scientific journals in their respective disciplines. (A summary list of these publications/presentations is provided in Appendix L).

Essential to the sustainability and growth of academic programs and research at UAPB is student retention. UAPB's retention rate (of first-year students) increased from 57% in 2006-2007 to 64% in 2008-2009. Retention of graduate students has averaged 71% over the past five years. A variety of programs have contributed to increased retention rates. These include: summer bridge

programs, faculty advisement and mentoring, support services such as writing labs and tutoring programs, and the development of student support and study groups. Improvement in faculty advisement is evidenced by student survey results that show a high degree of satisfaction with faculty advisement. Other enhanced support facilities, such as the $200,000 renovation of the writing lab, (financed by an alumni donor), contribute to increased retention rates. These support systems will continue and will enable the University to sustain the role and scope change.

A continuing budget commitment and priority is imperative to the sustainability of the role and scope change. The capital budget improvement program from 1998 to 2009 invested over $79 million to construct new buildings and laboratories, renovate others, and upgrade the infrastructure for technology and utilities in support of research and academic programs. Specific examples include: 1) renovation of the Viralene J. Coleman Writing Lab to include a computer and state of the art writing software; 2) installation of the new integrated library system (Voyager) that has enhanced access to global knowledge; 3) upgrade to the superhighway that enabled UAPB to become the regional hub for Arkansas; and 4) upgrades to the Blackboard software package that will enhance UAPB's web course capabilities.

The University supports the undergraduate and master's degree programs with a combination of state and federal funds, tuition funds and external grants. The strong record of increasing funding levels from many sources will provide continued impetus to the growth of established programs and to sustain the role and scope change.

The Institution received funding from Title III of the Higher Education Act of 1965, under the U.S. Department of Education's Strengthening Historically Black Colleges and Universities Program for 2008-2009 and 2009-2010 to support student and public access to library holdings and Ph. D. level faculty. Funds totaling $315,361 were budgeted to support further development of the Aquaculture/Fisheries Research and Education Library (AFREL), a satellite of the Watson Memorial Library. Other graduate programs across campus, (particularly those that are science-based), also benefit from the additional library holdings.

Faculty at the University of Arkansas at Pine Bluff has an outstanding record of securing external grant funding. In 2009, the faculty generated $13.9 million in external funds. Their commitment and history of attracting external funds is expected to continue and possibly increase with the change in the role and scope.

Through careful and systematic planning; stakeholders, alumni and community support; continuous assessment of student satisfaction and use of that data in planning for continuous improvement; public service by UAPB faculty, staff, administration and performing groups; faculty productivity in teaching, research and Extension; and a continuous budget priority on graduate programs; the university will sustain the role and scope change which is requested.

XIII. EXPECTED OUTCOMES AND INSTITUTIONAL STRATEGIES TO EVALUATE THE OUTCOMES OF THE PROPOSED ROLE AND SCOPE CHANGE

Expectations

The expansion of graduate education at UAPB is an extension of its Land Grant Mission and institutional goals. By developing a new doctoral program, UAPB ensures a steady supply of doctoral trained individuals who will create, implement, and disseminate multidimensional solutions to the problems that plague the Arkansas Delta. Current faculty productivity will increase due to the need to intensify current knowledge in their fields of study. This cutting-edge knowledge will enhance faculty research and training, thus increasing opportunities for research support and funding. The enhancement of faculty research will attract high quality graduate students whom the faculty will mentor. As the University becomes increasingly involved in research, undergraduate students will have opportunities to assist researchers or conduct their own supervised research.

Graduate programs attract high quality faculty with the most current knowledge base, and training from internationally renowned institutions. These individuals are expected to participants of professional societies within their respective fields and maintain their current knowledge base through conference attendance. Doctoral students will be expected to participate in their various professional societies and attend conferences that will further their intellectual development. Increased external funding and availability of graduate researchers and faculty will ensure high quality scholarship that leads to the overall enhancement of the Arkansas Delta.

Public service, outreach, and extension will be enhanced by advisory-based partnerships that expand into collaborative research activity. Faculty, students, and community partners will form research agendas that will directly serve the citizens of the Arkansas Delta. Additional partnerships will be formed as graduate research advances and research grants are obtained. New research partnerships with private, non-profit and government agencies (i.e., NCTR, Corps of Engineers, SBA, etc.) are expected to increase.

The proposed role and scope change is expected to increase enrollment and retention at all levels. The increase in graduate students is expected to be reflected in comparable increases in undergraduate admissions. The proposed change is also expected to lead to a more diverse enrollment (i.e., increase in nontraditional students, and increase in ethnic diversity).

With the proposed change in role and scope, UAPB is expected to increase its academic performance at all levels (both undergraduate and graduate) and to improve the viability of its existing programs. The expansion of graduate and research programs will enhance UAPB's profile and marketing potential, and is expected to impact its Carnegie Classification.

Evaluation Strategies

A comprehensive evaluation strategy has been developed to evaluate the expected outcomes associated with the proposed role and scope change. The University's Strategic Plan outlines the University's goals as they relate to our changing role and scope. The areas that are to be evaluated include 1) teaching and faculty development, 2) research and scholarship, and 3) public service. The following table highlights the major elements of the evaluation strategy related to UAPB's three goals.

Table 4. Strategy for Evaluating the Expected Outcome of the Proposed Role and Scope Change.

Goal	General Scope	Methodology/Activity	Timeline
Teaching and Faculty Development	Ensure compliance with state and federal policies related to graduate program	• University wide academic assessment • Professional accreditation and Licensure • ADHE Higher Education Program Review	• On going • On-going • Periodic
	Ensure quality of the education and students' need	• Student Evaluation • Faculty Peer Review • Annual Performance Evaluation of Faculty • External Peer Review	• On-going • On-going • Yearly • Every 3-5 years
Research and Scholarship	Research Quality Assurance	• Annual Performance Evaluation of Faculty • USDA NIFA Review	• Yearly • Every 3-5 years
	Ensure User's Need	• Stakeholder Advisory Council Review • USDA NIFA Review	• Periodic • Every 3-5 years
Services	Ensure Quality and User's Need	• Annual Performance Evaluation of Faculty • Stakeholder Advisory Council Review	• Yearly • Periodic

A summary of each major evaluation goal and its measures follows.

Teaching and Faculty Development

The proposed role and scope change is expected to strengthen institutional quality through graduate and undergraduate programs of excellence for both in- and out-of-class teaching and learning activities. Of the numerous strategies UAPB currently employs, the most important strategy is the commitment to academic accountability and continuous graduate education improvement by systematically and continuously assessing teaching and student outcomes.

Leadership from the Office of Graduate Programs and the University's Academic Assessment Office will guide the evaluation process and follow-up planning based on data gathered. This system is designed to ensure integrity, accountability, and quality of graduate and undergraduate academic program delivery. Professional accreditation and licensure are included in the measures of accountability and assessment for quality assurance. The review of the annual faculty evaluations, faculty development plans (filed annually), and student satisfaction survey results are critical components of the existing assessment of the quality of instruction. Additional existing program reviews (Arkansas Department of Higher Education, the National Council for the Accreditation of Teacher Education and the Higher Learning Commission) are examples of the existing processes and procedures which will be expanded to faculty and students in the doctoral program with the resultant information used for continuous improvement of instruction.

The following assessment outcomes will serve as key institutional indicators of UAPB's success in achieving its strategic goal of teaching, including doctoral faculty:

1. Increased infusion of new ideas and perspectives that change the scope of academic debate.
2. Increased use of innovative teaching strategies at both graduate and undergraduate levels.
3. Enhancement of quality of undergraduate and graduate instruction.
4. Increased faculty development in the area of proposal writing and manuscript development.
5. Increased number of Post-Doctoral researchers.
6. Increased availability of doctoral-trained faculty.
7. Increased scholarship and academic rigor across undergraduate and graduate programs.
8. Increased number of collaborations and partnerships.
9. Increased number of academic seminars.

Research and Scholarship

The doctoral culture is a dynamic one of critical review, involving a close mentoring relationship with a major professor. This relationship is designed to enhance the quality of the student's work and reflect a spirit of collegiality. While the university's mission may focus on Arkansas and the

needs of the Arkansas Delta, knowledge required to solve local problems and conduct meaningful research requires a discovery of innovative solutions as well as examination of procedures that others have attempted or experimented with. Results of research conducted in the UAPB doctoral program will be available for utilization by researchers around the world as they adapt our findings to local needs.

The proposed role and scope change will further strengthen UAPB's commitment to engage faculty, staff and students in mission-oriented research and creative activities to solve stakeholder problems and enhance the quality of life in Arkansas. The key strategy for meaningful research includes building alliances with the educational, arts, business, farmers, industrial communities, and government agencies in assessing the needs and planning research programs that address a variety of issues with particular emphasis on the Arkansas Delta. Increased private-sector sponsorships and commercial support will enhance faculty research and creative scholarship support and application. Ultimately, the undergraduate academic experience will be enhanced by creating opportunities for research and scholarship alongside graduate students, post doctoral researchers, and graduate faculty.

The University has a system in place to review its research output through annual faculty evaluations. In addition, external evaluations that are conducted periodically include: ADHE Higher Education Program Review, National Council for the Accreditation of Teacher Education, International Coalition for Addiction Studies, USDA-National Institute of Food and Agriculture (NIFA) Review, various stakeholders advisory council (e.g., UAPB National Fisheries Advisory Council) review, Arkansas Farm Bureau Review, and external peer review. USDA-NIFA (formally known as CSREES) requires that NIFA-funded programs undergo periodic reviews.

The following assessment outcomes serve as key institutional indicators of UAPB's success in achieving its strategic goals on research:

1. Increased quality of research and scholarship, which will be measured in the quality and number of articles and proceedings published in both peer-reviewed and non-peer reviewed journals and proceedings.
2. Increased basic, applied, and community-based research funding and development.
3. Increased number of graduate student research assistantships.
4. Increased number of interdepartmental grant proposals, research grants, and manuscripts.
5. Increased emphasis on publications and research for faculty.
6. Increased attendance and presentations by faculty at professional conferences.

Public Service

The proposed role and scope change is expected to strengthen the institution's quality in scholarship through engaging the entire University in fulfilling its public service mission. UAPB will use its annual faculty evaluation system and also periodic external reviews, as outlined in

Table 4, to evaluate its public service. Some of the key indicators include:

1. Increased opportunities in research, service, outreach, and Extension through external public service partnerships.
2. Increased community-based participatory research that directly involves community agencies, businesses, and other institutions within the Arkansas Delta.
3. Increased community outreach programs with civic organizations (i.e., Boys and Girls Clubs, Pine Bluff Department of Parks and Recreation, etc.).

The review of the established plans and procedures demonstrated that procedures are in place to adequately evaluate the outcomes of the proposed role and scope change.

XIV. PROJECTED IMPACT OF THE PROPOSED ROLE AND SCOPE CHANGE ON THE INSTITUTION'S CURRENT MISSION, TYPES OF STUDENTS SERVED, ENROLLMENT LEVELS, AND BREADTH OF EDUCATIONAL OFFERINGS

The proposed role and scope change to allow UAPB to offer one doctorate degree in Aquaculture/Fisheries will further advance the University's mission as a land-grant institution. This mission is central to the needs of the Arkansas Delta and beyond. It is anticipated that the change in role and scope will positively impact the University's diversity of enrollment, provide an impetus for additional external grants, contracts, partnerships with stakeholders, and will stimulate curricular and program growth and enrichment across the campus; enrich the teaching and learning environment; and in general help to further project the academic and scholarly image of the University. Details of the expected impact are presented in this section.

Mission

The change in role and scope for the University enhances the Land Grant mission of creating and developing well prepared graduates and well defined curricula to meet the needs of the Arkansas Delta and beyond. This is the foundation upon which UAPB was established and upon which it has grown. The expansion of graduate programs is another step in UAPB's implementation of its mission.

Students

It is expected that more graduate and undergraduate students who have higher GPA and ACT/SAT/GRE scores will apply for admission to UAPB programs over time. As UAPB's reputation for graduate study expands, there will be an increase in the number of well prepared students who apply for admission and who enter the University. This will facilitate the implementation of more selective criteria for admission with the result of a higher retention rates.

Undergraduate students will have greater opportunities for and exposure to research with the addition of a Ph.D. program. Undergraduate students will have more opportunities to assist

doctoral students in their research projects. This is likely to make UAPB more attractive to students interested in research at the undergraduate level.

The University expects traditional and non-traditional enrollment to increase at all levels. New Ph.D. students will add to graduate level enrollment numbers. Undergraduate recruiters expect that the Ph.D. program will have a positive effect on recruitment. As degree offerings grow, UAPB can expect an increase in concurrent enrollment and articulations with other institutions (i.e., UAM, UAMS). Academic and research partnerships between UAPB and other colleges (i.e., UAM, UAMS, UALR) will grow as students, especially graduate students, take advantage of the strengths of nearby universities.

Impact on Educational and Institutional Offerings

It is anticipated that educational offerings in general will be enriched and expanded as a more research-oriented paradigm is added to the academic atmosphere. Doctoral students will be available to teach (as adjuncts) and mentor undergraduates. Lectures, workshops and symposia for doctoral students will be available to masters and undergraduate students and teachers, especially in STEM areas. Doctoral faculty will be available to mentor junior faculty. Cross-disciplinary research and program innovations are expected to expand. For example, the M.S. degree in Addiction Studies is collaborating with the School of Business and Management to sponsor a survey research center. It is expected that the institution will experience growth in its research enterprise as doctoral faculty and students interact with faculty and students through existing channels such as the Annual Research Forum, the Vannette Johnson Research Symposium, and the Rural Life Conference as well as through involving other students and faculty as attendees and/or co-presenters at professional meetings and co-authors on publications.

The Role and scope change is expected to enhance intellectual rigor on campus. Programs at the doctoral level require students to demonstrate a thorough understanding of the disciplines that they are studying, including a deep and wide ranging knowledge of content, an understanding of the theoretical and philosophical issues involved in the discipline, and a proficiency in conducting significant research designed to advance knowledge of the discipline. Doctoral candidates will become the next generation of leaders in their disciplines and are required to initiate learning within their discipline, ask the critical questions which lead to significant research, and establish a research program. Students will be mentored by their professors and dissertation advisors, but they must demonstrate adequate knowledge and individual initiative, sufficient to conduct research on an advanced level, and must present their findings clearly and effectively.

The University of Arkansas at Pine Bluff expects a positive and productive impact from the change in the role and scope as it continues to adjust its academic offerings to state, the Arkansas Delta and student needs.

XV. INTEGRATION OF THE DOCTORAL PROGRAM INTO THE FABRIC OF THE INSTITUTION

The role and scope change requested by UAPB will further advance its mission as a land-grant university. The mission was expanded in 1972 (with the merger) to be consonant with the needs and demands of a more culturally heterogeneous student clientele, differing academically, socially, ethnically, and innovatively. Under this expanded mission UAPB was charged to develop new curricular models using science and technology to solve economic, physical, social, political, racial, and cultural problems. The University's ultimate goal under the expanded mission is to build a new social organism that will enhance the quality of lives and weld the nation into one people, a mission essential to the future security and health of the nation. It is within the context of its mission that the University has built programs, established policies, formed support structures and prepared the campus community to receive and support the doctoral program which reflects a commitment to its mission-driven charge to develop new curricula models.

This role and scope change will be integrated into the fabric of the University of Arkansas at Pine Bluff through a broad set of existing procedures, programs and structures that undergird university operations. Units that will be involved in incorporating doctoral students into the university community include: The Higher Learning Commission/NCA Steering Committee (a standing committee at UAPB), Chancellor's Management Workshops, Chancellor's all-school assemblies, National Alumni Summer Conference, Graduate School web site, advisory board meetings, Student Union Advisory Board, L.A. Torrence Student Leadership Workshop, Graduate Council, Faculty/Staff Senate, Fall Faculty/Staff Seminar, Academic Deans and Directors' Council, and school and departmental meetings. These existing structures are major channels through which university information is shared and which support integration of all facets of the University.

The Chancellor's Management Workshop, Fall Faculty/Staff Seminar, school unit and departmental meetings are major mechanisms for planning, briefing and orientation on new developments, as well as changes in existing policies, procedures and operations. The role and scope change has been and will continue to be a topic of discussion.

The Memorandum of Agreement with the University of Arkansas for Medical Sciences provides for on-going interaction and collaboration between the graduate programs of UAPB and UAMS. The interaction with the UAMS Graduate Council will provide a source of feedback and access to their experience related to governance of Ph.D. programs. Proposed interaction between graduate students from the two campuses will provide a forum for UAPB Ph.D. students to engage intellectually with other Ph.D. candidates.

In preparing the campus community for role and scope change, the University has presented the purpose, need and process during a faculty/staff meeting and charged the UAPB Higher Learning Commission/NCA Steering Committee to develop the role and scope change request. This

committee is composed of representatives from all academic schools, all members of the Chancellor's cabinet, the President of the Student Government Association, university faculty, and staff. The Committee has met extensively with other relevant sub-committees (See Appendix M for Composition of the UAPB Steering Committee and Sub-Committees for Role and Scope Change).

The Chancellor holds a convocation every semester. In February 2010, this convocation will focus on transitioning to a doctoral culture with an alumnus, Dr. Charles Nelms, President of North Carolina Central University, as the keynote speaker. President Nelms has conducted research and published articles concerning mission differentiation during his tenure as Vice President for Academic Affairs for the Indiana University System.

At the end of each academic year, the Office of Student Leadership and Involvement sponsors a retreat/workshop for student leaders. This workshop orients students to new developments at the University, policy changes, and goals for the next academic year, while honing student leadership skills. Changes in regard to the role and scope will be an agenda item at the Spring 2010 Retreat.

Additional important and effective channels of communication are through technology and media. UAPB TV Channel 24 and KUAP radio keep the campus and community abreast of important developments and outcomes. Of particular importance to the role and scope change integration is the development in Fall 2009 of an integrated website for all graduate programs at UAPB. Funding for this site was provided through a U.S. Department of Education STEM Masters program grant ($3 million).

The University of Arkansas at Pine Bluff has the procedures, programs and structures that will allow for successful integration of the doctoral program into the institutional fabric.

XVI. CONCLUSION

The critical and reflective review of the University of Arkansas at Pine Bluff's readiness for and the state and region's need for the Ph.D. degree in Aquaculture/Fisheries has provided an opportunity to research, assess and describe the University's structures, operations, resources, policies and academic atmosphere. This review has involved representatives of all segments of the University who were organized into sub-committees to focus on specific foundational areas: (Steering Committee, Writing Committee, Enrollment Management Committee, Introduction and Background Committee, Graduate and Related Institutional Policies and Procedures Committee, Integration of Doctoral Education in the Institutional Fabric Committee, Library Resources and Technology Committee, Viability Committee, Fiscal Committee, and Implementing and Evaluating the Impact on the Role and Scope Change Committee).

From this review process, the emergent reports, the dialogue, and the evidence presented during full Role and Scope Change Request Committee Meetings, it is the consensus that the University of Arkansas at Pine Bluff is ready to implement the Ph.D. in Aquaculture/Fisheries.

We respectfully request approval by the Arkansas Department of Higher Education of a change in the role and scope to allow the University of Arkansas at Pine Bluff to offer one well planned and much needed Ph.D. degree in Aquaculture/Fisheries.

XVII. APPROVAL BY THE INSTITUTION'S BOARD OF TRUSTEES TO REQUEST CHANGE

The request by the University of Arkansas at Pine Bluff for this change in its role and scope was approved by the University of Arkansas Board of Trustees on September 4, 2009. A copy of the resolution is included in Appendix D.

XVIII. DATE(S) AND TYPES OF ROLE AND SCOPE CHANGES SINCE JULY 2008

None prior to this request.

Appendix A

Memorandum of Agreement between the University of Arkansas at Pine Bluff and the University of Arkansas for Medical Sciences

MEMORANDUM OF AGREEMENT BETWEEN UNIVERSITY OF ARKANSAS AT PINE BLUFF AND THE GRADUATE SCHOOL UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES

This agreement is entered into this ____ day of ____ by and between the University of Arkansas at Pine Bluff (hereinafter referred to as UAPB) and the Graduate School of the University of Arkansas for Medical Sciences (hereinafter referred to as UAMS).

PURPOSE:

This purpose of this agreement is to establish guidelines for collaboration between UAPB and the Graduate School of UAMS in support of the Ph.D. program in Aquaculture/Fisheries at UAPB.

A. UAPB agrees to:

1. Allow UAMS doctoral faculty to serve on dissertation committees of Ph.D. candidates in Aquaculture/Fisheries.
2. Meet annually for three years with the Dean of the Graduate School, UAMS, for dialogue and review on the collaboration.

B. Dean of the UAMS Graduate School agrees to:

1. Allow the Graduate Coordinator of the UAPB Department of Aquaculture and Fisheries to sit in on meetings of the UAMS Graduate Council and its Graduate Faculty Committee.
2. Provide an external review of UAPB Graduate Council policy related to graduate faculty status.
3. Provide an external review of applications for UAPB graduate faculty status from the Department of Aquaculture and Fisheries.
4. Allow UAPB Ph.D. candidates to enroll in topically related graduate classes at UAMS, with all the privileges of other students. UAMS tuition and fees will apply.
5. Meet annually for three years with the Chair of the Department of Aquaculture and Fisheries, the Dean of the School of Agriculture, Fisheries, and Human Sciences and the Vice Chancellor for Academic Affairs at UAPB for dialogue and to review the collaboration.

This agreement shall be effective on the date hereof and remain in effect until such time as either partner sends written notification requesting termination of the agreement. A minimum of 30 days notice in writing for termination.

UNIVERSITY OF ARKANSAS AT PINE BLUFF

BY: _____

TITLE: Chancellor

DATE: 12/17/07

GRADUATE SCHOOL, UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES

BY: _____ (Robert E. McGehee Jr., PhD

TITLE: Dean, UAMS Graduate School

Date: 12/12/2007

Appendix B

Letter to Dr. John Taylor from Dr. Mary Benjamin dated November 30, 2009

November 30, 2009

Dr. John Taylor, Director
Program to Evaluate and Advance Quality
The Higher Learning Commission: NCA
30 North LaSalle Street, Suite 2400
Chicago, IL 60602-2504

Dear Dr. Taylor:

The University of Arkansas at Pine Bluff is preparing the Progress Report which is due November 24, 2010. The report is on enrollment management. Please let me know if there are particular questions or if there is a specified format for the report.

In regard to the proposal for the Ph.D. in Aquaculture/Fisheries, we are developing the proposal for a Role and Scope Change. This is due to the Arkansas Department of Higher Education by January 15, 2010. I will keep you apprised of developments.

Sincerely,

Mary E. Benjamin
Vice Chancellor for Academic Affairs

Encl:

UNIVERSITY OF ARKANSAS PINE BLUFF™
OFFICE OF THE VICE CHANCELLOR FOR ACADEMIC AFFAIRS
1200 North University Drive • Mail Slot 4953 • Pine Bluff, Arkansas 71601 • Office: (870) 575-8475 Fax: (870) 575-4644 • www.uapb.edu
An equal opportunity/affirmative action university

Appendix C

Letter to Dr. John Taylor from Dr. Mary Benjamin dated September 22, 2009

September 22, 2009

Dr. John Taylor, Director
Program to Evaluate and Advance Quality
The Higher Learning Commission: NCA
30 North LaSalle Street, Suite 2400
Chicago, IL 60602-2504

Dear Dr. Taylor:

The enclosed resolution by the University of Arkansas Board of Trustees is submitted for your information. We are so pleased to receive the Trustees' approval for the role and scope change and for the Ph.D. in Aquaculture/Fisheries.

I will keep you apprised as we are reviewed by the Arkansas Higher Education Coordinating Board.

Sincerely,

Mary E. Benjamin
Vice Chancellor for Academic Affairs

Encl:

Cc: Dr. Lawrence A. Davis, Jr.
Chancellor

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Appendix D

Approval by the University of Arkansas Board of Trustees for the Requested Role and Scope Change

UofA
UNIVERSITY OF ARKANSAS SYSTEM

Office of the President

September 11, 2009

OFFICE OF THE PRESIDENT
2009 SEP 17 PM 3:16

Dr. Jim Purcell, Director
Arkansas Department of Higher Education
114 East Capitol Avenue
Little Rock, Arkansas 72201

Dear Jim:

At its meeting in Little Rock on September 4, 2009, the Board of Trustees of the University of Arkansas adopted the following resolution:

> WHEREAS, Arkansas is the birthplace of warmwater aquaculture in the United States and ranks first in baitfish production providing 80% of the nation's baitfish, and ranks first in the United States in important sportfish production, and ranks third in American catfish production; and
>
> WHEREAS, in accordance with its land-grant mission, the University of Arkansas at Pine Bluff's Aquaculture/Fisheries program supports this important Arkansas industry through its research and extension activities and trains graduate students to take their place in this industry upon graduation; and
>
> WHEREAS, the warmwater aquaculture industry provides critically needed support to the research and student training activities of the Aquaculture/Fisheries program; and
>
> WHEREAS, the Aquaculture/Fisheries program is currently offering a Master of Science that is recognized as one of the most outstanding programs in the United States based on the research productivity of its faculty and students and the outstanding record of it graduates; and
>
> WHEREAS, the aquaculture/fisheries industry throughout the state of Arkansas strongly supports the offering of an aquaculture/fisheries doctoral program at the University of Arkansas at Pine Bluff;
>
> NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ARKANSAS THAT the role and scope of the University of Arkansas at Pine Bluff be expanded to provide that it shall offer one specific doctoral program, the Doctor of Philosophy degree program in Aquaculture/Fisheries.

2404 North University Avenue / Little Rock, Arkansas 72207-3608 / 501-686-2505 / Fax 501-686-2506

University of Arkansas, Fayetteville / University of Arkansas at Little Rock / University of Arkansas at Pine Bluff
University of Arkansas for Medical Sciences / University of Arkansas at Monticello / Division of Agriculture / Criminal Justice Institute
Arkansas Archeological Survey / Phillips Community College of the University of Arkansas / University of Arkansas Community College at Hope
University of Arkansas Community College at Batesville / Cossatot Community College of the University of Arkansas
University of Arkansas Community College at Morrilton / University of Arkansas at Fort Smith
Arkansas School for Mathematics, Sciences, and the Arts / University of Arkansas Clinton School of Public Service

The University of Arkansas is an equal opportunity/affirmative action institution.

BE IT FURTHER RESOLVED THAT the University of Arkansas at Pine Bluff is approved to offer the Doctor of Philosophy degree program in Aquaculture/Fisheries which will provide scientists needed to support the continued growth and development of aquaculture in Arkansas and the United States.

BE IT FURTHER RESOLVED THAT the President is authorized to submit these requests to the Director of the Arkansas Department of Higher Education and the Arkansas Higher Education Coordinating Board for appropriate action.

We request that action be taken on these proposals at the earliest possible time. Thank you for your assistance.

Sincerely,

B. Alan Sugg
President

c: Chancellor Lawrence A. Davis, Jr.

Appendix E

Chapter 7.2 of *The Higher Learning Commission Handbook of Accreditation*
Higher Learning Commission/North Central Association

Seeking Approval of Proposed Changes

The Commission recognizes that change within affiliated organizations is as constant and rapid as it is challenging and inevitable. Organizations offering higher learning must be dynamic, and from time to time they make changes in their educational offerings, operations, governance systems, and locations. The Commission is supportive of educational innovation and change to improve educational quality and to respond to new expectations.

Because change is a constant state of affairs at every college and university, the Commission seeks to find the right balance between identifying changes that warrant no Commission review and those that could have an impact on the accreditation relationship. An organization's mission distinguishes it, and its status of affiliation with the Commission is defined, affirmed, or redefined following a comprehensive evaluation or some subsequent process of formal examination.

Because some changes may affect affiliation, the Commission has defined specific conditions under which an organization needs to obtain authorization before implementing them. Through its policies on institutional change, the Commission identifies changes that might signify a departure from an organization's stated mission and purposes operative at the time of the most recent evaluation. Those changes need to be approved by the Commission as being both appropriate to the organization and within the organization's capability of providing education with quality. Whether a college or university uses PEAQ or AQIP to continue its accredited status with the Commission, it will follow the Commission's policies on organizational change. Differences in change approval processes for PEAQ and AQIP are explained in this section.

➥ *Visit our Web site to review current change policies*

The Board of Trustees annually evaluates the responsiveness of change policies and procedures to organizational dynamics, their effectiveness in addressing quality assurance issues, and their usefulness in enhancing organizational and educational improvement. The policy references regarding organizational change are presented here in four categories: mission or structure, educational offerings, educational sites, and relationship with the Commission. Because the text follows closely stated Commission policy, which may be modified or amended between printings of this section of the *Handbook*, it is always wise to check for the most up-to-date policy and procedure by going to the Commission's Web site or speaking directly with the Commission staff liaison.

Changes Requiring Commission Approval

Changes in Mission or Structure

Commission approval is required when

- An organization changes, after significant planning, the character and nature of the student body.
- An organization merges with an unaccredited organization (a team visit is required either before approval or within six months after the merger is official).
- An organization merges with a regionally accredited or affiliated organization. Commission staff may give approval upon receipt and evaluation of documentation that the organization or new entity continues to meet Commission Criteria, but will conduct an visit within a year.
- An organization changes institutional affiliation with a sponsoring organization.

- An organization contracts with nonaccredited entities to provide 50 percent or more of a credit-bearing program.
- An organization changes ownership and/or legal status. Commission staff may give approval upon receipt and evaluation of documentation that the organization's mission remains unchanged, that the academic programs will continue, that board governance continues to meet Commission requirements, and that appropriate financial resources continue to support the organization, but will conduct a visit within six months.
- An organization experiences unanticipated but significant changes in the character and nature of the student body (such as by assuming oversight for programs orphaned by a closing college or university). Commission staff may give approval after receipt and evaluation of documentation that the organization's activities, particularly those involving teach-outs, meet Commission and federal requirements; but if the organization's commitment is for more than a limited teach-out, staff may require a visit within a year.

➤ ***See Section 7.3*** *for information on accreditation of closing organizations*

Changes in Educational Offerings

Commission approval is required to extend accreditation to include

- Program offerings at a new degree level.
- A significant new academic program or major that requires substantial financial investment or substantial reallocation of financial resources.
- A new academic program that shifts the organization's mission.
- Degree programs offered through distance delivery methods.
- Regular course offerings that are not currently included within the organization's affiliated status. Commission staff may give approval after receipt and evaluation of documentation that the offerings are appropriate to the organization's mission, have all necessary approvals, and will be effectively developed and supported.

Changes in Educational Sites

➤ ***See Section 8.2*** *for information on site visits under the federal compliance program*

Commission approval is required to extend accreditation to include

- A new site that houses a full range of instruction as well as administrative and support services (such as a new campus or branch). Commission staff may give approval upon receipt and evaluation of documentation including a business plan, but will conduct a visit within six months of the opening of the site.
- An instructional site at which the organization provides one or more degree programs.
- An off-campus site at which the organization offers 50 percent or more of the courses leading to one of its degree programs and at which it enrolls one hundred or more students (unduplicated head count) in an academic year.
- Five or more courses a year at an out-of-state site or an international site. Commission staff may give approval after receipt and evaluation of documentation that the offerings are appropriate to the organization's mission, have all necessary approvals, and will be effectively developed and supported.

Changes in Relationship with the Commission

Commission approval is required to

- Change the stipulations within the current affiliation status.
- Change the date of a comprehensive visit beyond the cycle established by policy.
- Change the date of another visit or required report. Commission staff may make the decision after receipt and evaluation of documentation that shows that such changes are appropriate.
- Transfer accreditation to a new entity. Commission staff may give approval after receipt and evaluation of documentation that the organization or new entity continues to meet Commission Criteria, but will conduct an evaluation within a year.

Determining a Separately Accreditable Organization

The accreditation of an organization includes all its components, wherever located. A component of a larger organization may be separately accreditable if a significant portion of responsibility and decision making for its educational activities lies within the component and not in the other parts of the larger system.

For organizations operating solely within the North Central Region, the Commission determines, following consultation with the CEO of the organizational system, (1) whether the system will be accredited or whether its components will be separately accredited, and (2) how the evaluation will be conducted.

An instructional site located in a region other than that of its home campus must seek separate accreditation in the region in which it exists if it functions independent of operational control of the parent college or university. An instructional site will be deemed operationally independent and accreditable by the host region when it meets these criteria:

The instructional site

- Has, under board policy, substantial financial and administrative independence from the home organization, including matters related to personnel
- Has a full-time chief administrative officer
- Is empowered, under board policy, to initiate and sustain its own academic programs
- Has degree-granting authority in the state or jurisdiction in which it is located

Each regional commission will determine if any of its affiliated organizations have instructional sites that appear to be separately accreditable. Following consultation with the host commission and the organization, and upon learning from the host region the site's potential to meet its eligibility requirements, the home region will make the determination about the status of the site. The host region agrees to take deliberate steps toward reviewing any instructional sites identified as operationally independent in keeping with its policies and procedures for applying organizations. An institution identified as separately accreditable will continue to be included in the accreditation of the parent college or university until it achieves separate accreditation.

Off-campus instructional sites, regardless of location, not found to be operationally independent are included in the accreditation of the home campus. The operational independence of such sites is periodically reviewed under this policy.

Documentation to Support a Change Request

➥ *Visit our Web site to review the current change policies and procedures*

The organization's written request and supporting documentation serve as the basic reference for the Commission's decision to approve or deny a request to extend accreditation to include a significant organizational change. Approval of the request results in the modification or expansion of the organization's relationship with the Commission.

A request for approval of a proposed change needs to provide a well-written and comprehensive analysis. To assist the organization in preparing its request, the Commission poses six major questions to address and proposes narrative and documentation that should be part of the request. They need to be answered even if the organization includes copies of applications that have been submitted to other agencies, such as state governing boards.

1. What change is being proposed?

- State the specific change that is proposed.
- State the expected outcomes of this proposed change (for example, enrollment growth, enhanced services, financial growth).
- Project the impact of this proposed change on the organization's current mission, the numbers and types of students to be served, and the breadth of educational offerings.
- Identify from this list the Commission's policy/policies relevant to this change:

- Change in mission or structure (policy I.C.2.a)
- Change in educational offering (policy I.C.2.b.)
- Change in educational sites (policy I.C.2.c.)
- Change in relationship with the Commission (policy I.C.2.d.)

2. What factors led the organization to undertake the proposed change?

- Describe the relationship between the proposed change and ongoing planning.
- Describe the needs analysis related to this proposed change.
- Describe the involvement of various constituencies in developing this proposed change.

3. What necessary approvals have been obtained to implement the proposed change?

- Identify the internal approvals required, and provide documentation confirming these actions.
- Identify the external approvals required, and provide documentation confirming these actions.

4. What impact might the proposed change have on challenges identified by the Commission as part of or subsequent to the last comprehensive visit?

- Identify challenges directly related to the proposed change.
- Describe how the organization has addressed the challenge(s).

5. What are the organization's plans to implement and sustain the proposed change?

- Describe the involvement of appropriately credentialed faculty and experienced staff necessary to accomplish the proposed change (curriculum development and oversight, evaluation of instruction, and assessment of learning outcomes).
- Describe the administrative structure (accountability processes, leadership roles) necessary to support this proposed change.
- Describe how the organization will make learning resources and support services available to students (student support services, library resources, academic advising, and financial aid counseling).
- Provide financial data that document the organization's capacity to implement and sustain the proposed change (projected budgets, recent audit reports, revenue streams, cost of facilities, and projected facility and equipment costs).
- Specify the timeline used to implement the proposed change.

6. What are the organization's strategies to evaluate the proposed change?

- Describe the measures the organization will use to document the achievement of its expected outcomes.
- Describe how the assessment of student learning is integrated into the assessment program.

Timing the Submission of a Change Request

Any affiliated organization may request at any time Commission review of changes it plans to introduce. The only organizations limited in this regard are those appealing a decision of the Commission. For changes that require Commission action, careful attention should be paid to the timing of the request.

The written request must be made early enough for the proposed change to be reviewed by the appropriate approval process (staff, Evaluators Panel, focused or comprehensive visit and appropriate review process) and for final action to be taken before the date on which the organization plans to effect the change. Some approval processes can be as short as two months and some, particularly those involving a focused visit, may take as long as five or six months.

The organization should write or call the Commission staff liaison early in the consideration of a change to determine the appropriate review process and to develop a realistic timetable for seeking approval. This applies to organizations in both PEAQ and AQIP. The organization's representative and the Commission staff liaison will need to determine the appropriate means of Commission review. That decision will establish a tentative timeline for the approval process, allowing the organization to know when the change can be implemented if it receives Commission approval.

➥ *Visit our Web site*
for the current Commission calendar

With few exceptions, Commission action on a request for organizational change is handled by the Institutional Actions Council, which meets bimonthly during a calendar year.

Processes for Approval of Change Requests

➤ *See Section 7.1*
for a discussion of focused visits to review change requests

Once an organization notifies the Commission about specific aspects of its planning and submits a change request to that effect, the staff liaison determines the appropriate process under which the request will be evaluated. The process options are an **evaluation by the staff,** an **Evaluators Panel,** or an **evaluation team.** The recommendation resulting from that process is sent to the next scheduled meeting of the Institutional Actions Council. In some limited situations defined by policy, the Commission staff may take action on behalf of the Commission. Those actions are reported to the Board for information. When a visit is conducted, a Readers Panel evaluates the recommendation before it is sent to the IAC.

In determining the appropriate process for evaluating a change request, the Commission staff weighs such variables as the following.

- The clarity of the connection between the organization's mission and the proposed change
- The history of the Commission's relationship with the organization
- The organization's history of successfully initiating a change request
- The scope of the proposed change
- The potential impact of the proposed change on the organization
- Response to the proposed change by other review bodies (such as state agencies and program accrediting bodies)
- The strength of the evidence provided in the organization's request that it can effectively initiate the change and evaluate its effectiveness

Evaluators Panel Process

An Evaluators Panel consists of three peer reviewers. Each panel member conducts an independent review of the written request, then participates in a conference call to discuss his/her recommendation, and, finally, recommends either forwarding the change request to the Institutional Actions Council for approval or scheduling a focused visit to evaluate the change. If the latter is the decision, the organization may request a visit, or it may withdraw its change request. If the request for change is withdrawn, the organization must wait one year before resubmitting a request for an Evaluators Panel review of the same change.

AQIP Change Approval Process

➥ *Visit the AQIP Web site*
at http://www.AQIP.org for details and follow the link for organizational change

All institutions participating in AQIP for the purpose of maintaining accreditation are obligated to follow the Commission's change policy discussed in this section. AQIP is working to bring its procedures for reviewing change requests more in line with its other procedures, but the underlying policies remain the same. AQIP participants considering a change request should phone or e-mail any of the AQIP staff member.

Appendix F

Letter to Dr. Mary Benjamin from Dr. John Taylor dated October 12, 2009 and Chapter 7.1 of the *Higher Learning Commission Handbook of Accreditation*

The Higher Learning Commission
A Commission of the North Central Association of Colleges and Schools
NCA

30 North LaSalle Street, Suite 2400 | Chicago, IL 60602 | 312-263-0456
800-621-7440 | Fax: 312-263-7462 | www.ncahlc.org

Serving the common good by assuring and advancing the quality of higher learning

RECEIVED
VICE-CHANCELLOR - ACADEMIC AFFAIRS
OCT 16 2009
UNIVERSITY OF ARKANSAS
PINE BLUFF

October 12, 2009

Dr. Mary E. Benjamin
Vice Chancellor for Academic Affairs
University of Arkansas Pine Bluff
1200 North University Drive
Mail Slot 4953
Pine Bluff, AR 71601

Dear Dr. Benjamin:

Thank you for your letter of September 22, 2009, in which you informed the Commission about the action taken by the Board of Trustees of the University of Arkansas to allow for program expansion at the University of Arkansas at Pine Bluff (UAPB). It is my understanding that in conjunction with this action UAPB will seek approval from the Director of the Arkansas Department of Higher Education and the Arkansas Higher Education Coordinating Board before requesting approval from the Higher Learning Commission to offer a Doctor of Philosophy degree in Aquaculture/Fisheries.

In conjunction with the Commission's policies and processes, I refer you to Chapter 7.2 in the *Handbook of Accreditation*, which outlines the procedure to be followed in submitting a *change request.* In this instance the University will be seeking Commission approval to offer an educational program at a new degree level. A focused visit will be required as a part of the Commission's review of the University's request, so I look to receive the *Change Request* soon after the institution has addressed all of the internal procedures related to this issue.

I remain available to assist you with this issue.

Sincerely,

John A. Taylor, D.Mus.Ed.
Vice President and Staff Liaison

Cc: Chancellor Lawrence A. Davis, Jr.

7.1 Fulfilling Commission Mandates

➤ *See Section 8.2 for information on site visits in the federal compliance program*

The Commission concludes each PEAQ comprehensive evaluation by making a decision about the affiliated status of the organization. Part of that decision is setting the date for the next comprehensive evaluation. Another part typically is defining specific components of the ongoing relationship between the organization and the Commission. The Commission may approve stipulations or provide permission for program and site expansion. It may ask that different kinds of reports be filed over the next years. It can also mandate a future focused visit on specific issues. An organization attends to its affiliation between comprehensive visits by honoring the stipulations, notifying the Commission of program and site expansion, filing required reports, and hosting any focused visits. The federal government requires recognized accrediting agencies to make visits in some situations; therefore, for both AQIP and PEAQ organizations, hosting such visits is also involved in attending to affiliation status.

The Commission's relationship with an organization is organic; that is, it may come under review in whole or in part as the organization's circumstances change. This holds true for all affiliated organizations, whether they are using PEAQ or AQIP. Typically, a potential shift in the relationship is triggered by the organization's initiation of changes that require Commission approval. The ways that the Commission reviews and acts on these changes are outlined in this section and the next. Sometimes substantive organizational changes are best understood and evaluated through a focused visit. The organization demonstrates its attention to affiliation by interacting with Commission staff as it plans for important changes, by initiating the Commission change process in a timely fashion, and by moving through the procedures for evaluating the change that are agreed upon with the Commission staff.

All affiliated organizations also attend to affiliation by filing an Annual Report on Organizational Information and Operational Indicators with the Commission office.

In recent years the executive director has occasionally responded to unusual and rapidly developing circumstances at an affiliated organization by having a small team visit the organization and advise the executive director on the best Commission response. In such situations, an organization attends to affiliation by cooperating in hosting an advisory visit.

Submitting Required Reports

The Commission differentiates among the following required reports.

- **Progress reports.** The Commission may require a progress report when its goal is to receive specific, important information from the organization, track how it is progressing in coping with certain changes or challenges, or receive evidence that plans came to fruition.
- **Monitoring reports.** The Commission may require a monitoring report in situations requiring careful ongoing attention. By requiring such a report, the Commission signals that the situation must change in a specific way and that, if it does not, Commission staff will require additional monitoring. Staff members may call for additional reports, require a focused visit, or, following guidance from the team, move forward the date of the next comprehensive evaluation.
- **Contingency reports.** The Commission may require a contingency report when it anticipates an event that could change conditions that would have a significant effect on the organization. Such a report

specifies why the anticipated change requires monitoring, exactly what conditions require the organization to file the report, and what issues the staff should consider when the report is received.

At least a year before the report is due, the Commission sends a reminder to the organization. In special circumstances, the staff can shift the due date of a report at the request of the organization.

The content of each report differs. Most frequently, the team report includes significant guidance about the content. Sometimes the official action letter from the Commission defines the content. If the organization is not clear about what is expected in the report, it should contact its staff liaison.

When the report is filed, the Commission staff reviewer prepares a written analysis of it. Sometimes the Commission staff reviewer shares the report with the chair of the team that initially recommended it. In those situations, the staff reviewer may include the chair's comments in the analysis.

On behalf of the Commission, the staff member may

- Accept the report
- Require one or more follow-up reports if additional information is needed or a longer time period seems appropriate
- Recommend that the Institutional Actions Council call for a focused visit, change a stipulation, or modify the date of the next comprehensive visit

The successful filing of a report is considered an official Commission action. The staff analysis together with the Commission letter of acceptance is part of the organization's official file and is shared with the next evaluation team.

Participating in Mandated or Requested Focused Visits

Focused visits occur between comprehensive evaluations and examine only specific aspects of an organization. Focused visits are used primarily with the PEAQ process. A focused visit reviews specific developments and changes or follows up on concerns identified by a previous evaluation process and is not primarily concerned with determining whether an organization fulfills the Criteria for Accreditation.

The Commission may call for a focused visit as part of its accrediting action. Such a **mandated** focused visit is recorded on the organization's Statement of Affiliation Status. In addition, the Commission may schedule a focused visit when policy mandates such review of certain **organizational changes.** All focused visits, whether mandated by the Commission or requested by an organization seeking approval of a change, follow the same processes.

The Organization's Report for a Focused Visit

➤ *See Section 7.2 for information on organizational change*

Whether mandated by the Commission or requested by the organization, a focused visit requires the oganization to prepare a report focused on the issues. It does not require a complete self-study process or report. The nature and scope of a college or university's preparation for a focused visit differs according to the specific areas to be examined. However, all institutional reports for focused visits include

- An introduction that clearly states the reasons for the evaluation, the process by which the report has been prepared, and the organization of the report.
- An examination of the area(s) of focus. The specific issues that prompted a Commission-mandated focused visit shape the examination of the areas of focus. This section should explain the actions that have been taken since the last evaluation. It should evaluate progress and indicate further actions that may be planned. Depending on the areas of focus, the report may be supplemented by audited financial statements, board minutes, curriculum information, or other appendices that document the progress summarized in the narrative of the report. It is important to include a summary assessment of the relationships between the specific areas of focus and the overall health and well-being of the organization. For example, if a focused visit is scheduled to review faculty–administration relations, the report should comment on their effect on such areas as educational programs and student morale.

➥ *Visit our Web site for further information about focused visits*

- In addition, the materials for the focused visit should include documents that the organization and the Commission staff believe the evaluation team should have before arriving on campus, including but not limited to catalogs and faculty and student handbooks.

Organizations preparing for a focused visit should maintain regular contact with their Commission staff liaison and discuss plans for and content of the report.

Team Visit and Decision-Making Processes for Focused Visits

➤ *See Section 7.3 for information on sanctions and adverse actions*

In some respects, the policies and procedures governing focused evaluations are similar to those governing comprehensive evaluations. However, there are a number of significant differences. The first difference involves the role of the evaluation team. A focused visit team does not evaluate whether an organization fulfills the Criteria for Accreditation, nor does it recommend granting, continuing, or denying candidate or accredited status. However, it can recommend sanctions if circumstances warrant and, in very rare situations, withdrawal of status.

Focused visits typically involve two team members for two days. Some unique visits may require several days and several team members. The team's basic role is to evaluate the areas specified as the focus of the visit and to provide the Commission with a report on developments related to those areas. If matters outside the focus of the visit come to the attention of the team, it notes them, recommending appropriate changes in the organization's affiliation with the Commission.

As is the case with comprehensive visits, focused visit recommendations are reviewed, typically by a Readers Panel, before final action is taken by the Institutional Actions Council. If an organization chooses to challenge the recommendation of the evaluation team, it will ask for a hearing by a Review Committee. In this situation, the Review Committee determines the action, unless the organization continues to object, in which case the decision is made by the the Institutional Actions Council. The Board of Trustees validates the action. An organization seeking approval of a change is free to withdraw its request at any point in the process prior to the review by IAC. In withdrawing the request, the organization acknowledges that it cannot resubmit the same request for at least one year.

Filing the Annual Report

All affiliated organizations, whether participating in PEAQ or AQIP, are required to complete the Commission's Annual Report on Organizational Information and Operational Indicators each year. This report, which is completed online, provides the Commission with up-to-date information on the scope of activities of each affiliated organization and sufficient information to understand and respond to significant shifts in an organization's capacity and/or scope of educational activities.

To assure that the organization provides accurate and consistent information, each affiliated organization identifies a liaison who will bear administrative responsibility for submitting the Annual Report in a timely manner. Commission training is available for these liaisons.

Prior to any comprehensive or focused visit or AQIP Systems Appraisal, the Commission provides the team or AQIP reviewers with a record of the Operational Indicators that have been submitted by the organization over the years.

In reviewing the Annual Report on Organizational Information and Operational Indicators, the Commission looks at relationships among a variety of indicators in a given year or over several years. If those relationships suggest that the organization may be experiencing problems or very rapid change, the Commission invites the organization to submit an interpretation of the data. In some situations, an organization may invite the Commission to conduct a visit, or the Commission itself may require such a visit.

The Operational Indicators

➥ *Visit our Web site for updates on the Annual Report and the Operational Indicators*

The Operational Indicators are the centerpiece of the Annual Report.

- They provide regular snapshots of an organization's ongoing health.
- They mark dramatic or sudden changes in an organization's profile.
- They provide longitudinal data on individual organizations.

- When appropriately aggregated, they provide trend and normative data for the various groups within organizations.
- They lessen the special reporting required of an organization before Commission visits.
- They provide a means for both the organization and the Commission to support accountability.

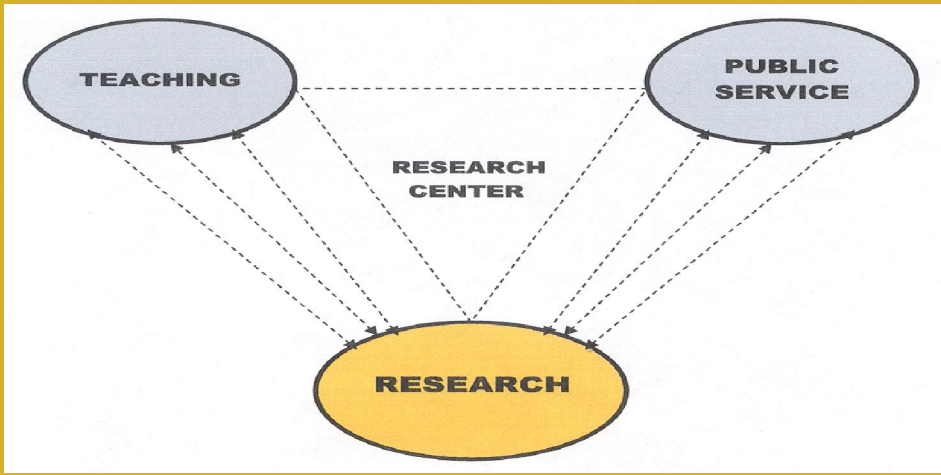
The major headings on the current version of the report are Demographics, Educational Programs, Financial Strength, and Scope of Activities. The Commission asks for demographic data because changes in the numbers and types of students served may have a strong relationship to financial strength, program diversity, and scope of educational operations. Changes over time in faculty and staff demographics may relate to these other variables as well. Data on educational programs should help the Commission understand possible shifts in organizational priorities as well as demographics and financial strength. Moreover, the Commission seeks assurance of basic financial support for those educational programs. Credit and noncredit certificate programs are included because they have come to constitute a growing component in many organizations. The ratios identified in the section on financial strength follow the recommendations of financial experts who hold that they serve monitoring purposes better than audits. Information on scope of activities allows the Commission to be certain that it knows the full scope of the organization's educational offerings, thereby assisting in the fulfillment of the gatekeeper function for federal funds.

Appendix G

Office of Research and Sponsored Programs (ORSP) Handbook

Office of Research and Sponsored Programs (ORSP)

Handbook



"Together for Educational Excellence"

University of Arkansas at Pine Bluff
Mail Slot 4978
1200 North University Drive
Pine Bluff, Arkansas 71601

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Appendix H

List of Funded Grants

FUNDED GRANTS

Grant	Amount	Funding Agency	Grant Period
APHIS-AG Discovery Program	$45,000	Dept. of Agriculture/Animal & Plant Health Inspection	4/1/2009 - 2/28/2010
Southern Region Water Resource Project	$23,000	Dept. Agriculture/CSREES	9/1/2008 - 8/31/2010
2008 Education Farm Bill	$1,000	Texas Agrilife Extension Service	3/14/2009 -8/30/2009
Delta Obesity Prevention Research Unit	$750,000	Dept. Agriculture/ARS/SPA	9/15/2008-9/14/2013
2008 Facilities Yr 1	$849,285	Dept. Agriculture/CSREES	10/15/2008-9/14/2009
Railroad Prairie Natural Area	$6,250	Dept. Agriculture/CSREES	1/5/2009-5/31/2009
2008 Farm Bill Outreach Program	$50,000	Dept. Agriculture/NRCS	9/18/2008-9/30/2009
Publications Project Year 12	$1,000	Dept. Agriculture	3/1/2007-8/31/2008
Establishing Modern Education Labs in Integrative Physiology Fishes	$48,720	Dept. Agriculture/CSREES	9/1/2008-8/31/2009
Viral Hemorrhagic Surveillance	$19,180	AR Game & Fish Commission	7/1/2008-3/1/2009
Catfish Promotion Board-Feed Performance 2008	$34,576	Catfish Promotion Board	1/5/2009-2/28/2009
HUD-EDI Special Project	$393,960	HUD	6/17/09-6/17/12
Economic Forecasting Catfish and Trout - Yr 2	$25,000	Dept. Agriculture/CSREES	8/1/2008-7/31/2010
Pond Inventory Methods Yr 2	$26,250	Southern Regional Aquaculture Center	5/1/2008-4/30/2010
Southern Region SARE Program	$10,000	Dept. Agriculture/CSREES	7/15/2008-7/14/2010
AR Game & Fish Commission Stipend	$3,800	AR Game & Fish Commission	6/1/2009-8/15/2009
Student Career Experience Program	$16,000	Dept. Agriculture	8/28/2008-5/31/2009
Rloch/CFNovus	$16,200	Dept. Agriculture/CSREES	3/9/2009-9/9/2009
Communi ty Revitalization Initiative Phase I	$700,000	HUD	9/9/08-9/9/11
FAZD Crisis Workshop	$53,060	Office of Naval Research/U.S. Navy and Marine Corps	8/1/2008 - 4/30/2009
Soybean Promotion Board/Oil Enriched Diet	$21,476	Soybean Board	4/1/2009-3/31/2010
SRAC	$36,200	Dept. Agriculture/CSREES	2/1/2009-1/31/2010
Evaluation of Vegetation Control in Felsenthal WIldlife Refuge	$40,000	Dept. Agriculture/CSREES	7/1/2008-1/30/2010
Mississippi State University PR SL 1	$27,000	Mississippi State University	9/1/2008-9/30/2009
SRAC REP AH1	$38,333	Dept. Agriculture/CSREES	2/1/2009-1/31/2010
ABC Childcare	$137,605	DHHS	8/1/2008-6/30/2009
Minority Food Inspectors	$194,181	Dept. Agriculture/CSREES	9/1/2008-8/31/2011
Headstart	$150,000	DHHS	9/30/2008-9/29/2009
Acad. Partnership in Public Child Welfare (Social Work)	$283,489	DHHS	7/1/08 – 6/30/09
Arkansas Space Grant Consortium	$4,200	NASA	4/14/09-4/15/10
P16 Partnership (5th-8th Grade) S. Fitz	$52,651	Department of Education	3/1/09 – 9/30/10
Educational Renewal Zone	$107,665	AR Department of Education	7/1/08- 6/30/10
Biomedical Research in AR	$49,838	NIH	1/22/09 – 4/30/10
Partners/BRIN/RICE-Chemistry/Physics	$110,283	NIH	5/1/09 – 4/30/10
Metal Chelates/Prevention of Kidney Cell	$111,085	NIH	5/1/09 – 4/30/10
ASGC-NASA (RID)-Mortazavi	$9,000	NASA	10/1/08-9/30/09
ASTA/LSAMP	$70,000	ASTA	9/19/08-9/30/09
Upward Bound	$339,381	U.S. Department of Education	9/1/08-8/31/09
Ronald McNair	$237,796	U.S. Department of Education	10/1/08-9/30/09
ARK-LSAMP	$3,500,000	NSF	9/1/08 – 8/31/13
Title III	$3,005,598	U.S. Department of Education	10/1/08 – 9/30/09
Title III-CCRAA	$1,046,141	U.S. Department of Education	10/1/08 – 9/30/09
Trio Student Support	$413,944	U.S. Department of Education	9/1/08 – 8/31/09
USDA 1890 Rural Business Cooperative	$100,000	USDA	9/30/08-9/30/09

FUNDED GRANTS

Grant	Amount	Funding Agency	Grant Period
Minority Initiative Sub-Recipient Grant	$1,653,075	AR Master Tobacco Settlement	7/1/08-6/30/09
Career Services	$7,000	URS/Washington Group	12/15/08-2/14/10
Walton Delta Teachers Scholars	$30,466	Walton Foundation	7/1/08-6/30/09
Reading First Teacher Education Network	$11,000	NCATE	7/1/08-6/30/09
Partners/BRIN/Rice-Chemistry & Physics	$110,031	NIH/INBRE	7/1/08 – 6/30/09
AR Space Grant Consortium	$6,100	NASA	7/1/08-6/30/09
AR Space Grant Statewide Competition	$6,425	NASA	7/1/08-6/30/09
AR Collaborative Space Grant	$9,750	NASA	7/1/08-6/30/09
AR Space Grant Consortium	$10,000	NASA	7/1/08-6/30/09
AR Collaborative Space Grant	$10,000	NASA	7/1/08-6/30/09
Partners/BRIN/Biology	$112,517	NIH/INBRE	7/1/08-6/30/09
English, Theatre & Mass Communication	$20,000	Arkansas State Legislature	7/1/08-6/30/09
Math, Science & Technology	$20,000	Hewlett Packard	7/1/08-6/30/09
Total Funded Grants	**$ 15,257,211**		

Appendix I

Research Facilities in the School of Agriculture, Fisheries, and Human Sciences

SAFHS FACILITIES

1/19/2010

	A	B	C	D	E	F	G	H	I	J
1		SQUARE FEET		YEAR		FACILITIES	YEAR		FACILITIES	YEAR
2		TOTAL	RESEARCH	BUILT	COST	GRANT	RENOVATED	COST	GRANT	RENOVATED
3	***SAFHS***									
4	Woodard Hall	23,756		1952			1982/2005*	$1,782,340	1998/2003	
5	Applied Sciences	25,325	7,250	2002	$4,241,219					
6	1890 Extension	21,456	1,153	1996	$2,947,059	1988/1993	auditorium 2008	$130,384	2003	
7	S.J. Parker Research Center	10,500	10,500	1980	$1,745,364					
8	admin addition	6,300	6,300	1987*	$366,636	1983				
9	Motor Pool	1,536		1984*	$355,865	1983				
10	Holidiay Hall									
11										
12	***AGRICULTURE***									
13	Farm Manager's House	1,680		1989	$76,000	1983				
14	Poultry Research Complex	6,000	6,000	1968	$95,730	1983	1990*	$144,270		
15	Small Ruminant Barn	7,868	7,868	2003*		1993	1993			
16	Post-Harvest Building	912	912	1968		1983	1984*			
17	Agronomy Greenhouses	3,950	3,950	1975	$57,000	1983	1989*			
18	Entomology Greenhouse	2,730	3,950	1968	$60,000	1983	1989*			
19	Horticulture Greenhouse	5,418	2,324	1989	$383,558	1983	2003*			
20	Vegetable Shed	4,800	4,800	2004	$672,288	1998/2003				
21	Swine Furrowing House	2,086	2,086	1968		1993	2003	$56,200		
22	Pesticide Storage Building	70	70	2002		1993				
23	Metal-truss building	3,240	3,240	1998	$29,352	1993				
24	Agronomy Storage Building	1,620	1,620	1968	$91,000	1983	1989*	$209,516		
25	Farm Implement Shop	4,000		1968	$99,000	1983	1989*			
26	Natural gas/Water Lines			1984*		1983				
27	Irrigation System			1986*	$12,939	1983				
28	Irrigation Well			1975		1983	1988*			
29	Deep Well Installation			1984*		1983				
30	Portable trailer			2005	$5,000	1998				
31	Swine Finishing Barn	2,304	768	2009	$169,990	2003				
32										
33	***FISHERIES***									
34	Fish Shop	1,200	1,200			1993/1998	1998*/2005	$4,500		
35	Fish Hatchery	5,400	5,400	1985	$66,070	1983/1993	1998	$220,930		2009
36	Value Added Product Develop	3,400	3,400	2000**	$61,071	1993				
37	Research&Demonstration	3,600	1,800	2005*	$564,853	1998				
38	Fish Holding tanks			1995*	$33,470	1993				
39										
40	Equipment Develop. Building									
41	Feed Building/Equip. Shed			2002						
42	Diagnostic Lab-Lonoke					1988	1989*	$5,811		
43	Lonoke Addition	1,800		2007	$368,940	2003				
44	Diagnostic Lab-Chico Co.					1988	1989*	$15,459		
45	Portable trailer			2005	$5,000	1998				
46	Maintenance shop	3,600	1,300	2009	$226,000	2003				
47										
48	***HUMAN SCIENCES***									
49	Child Development Center	1,036		1977						
50	Addition	1,400		2005	$209,978	1998/2003				
51	Playground	3,100		2003	$133,757	1998				
52	Adair-Greenhouse	29,010	2,482	1977	$2,800,000					
53	Food Sensory labs			1977		2003	2008	$53,642		
54	Carpet replacement with tile					2008	2009			
55										
56										
57										
58										
59	***LONOKE FARM (USDA)***									
60	Manager's house	2,000		1999						
61	Museum	1,050		1921			2000			
62	Pavilion	3,200		2003*		1998				
63	Ag Awareness Office	160		2004*		1998				

SAFHS FACILITIES

1/19/2010

	A	B	C	D	E	F	G	H	I	J
1		SQUARE FEET		YEAR		FACILITIES	YEAR		FACILITIES	YEAR
2		TOTAL	RESEARCH	BUILT	COST	GRANT	RENOVATED	COST	GRANT	RENOVATED
64	Pole Barn and cement slab	2,400		2005*		2003				
65	Pesticide Storage Building	70	70	2002*		1993				
66	Block House	900					1997			
67	Greenhouse	1,800		2004						
68	Storm Shelter	60		2002						
69	Portable trailer			2005	$5,000	1998				
70	Farm Maintenance Shop	7,680	3,840	2008	$392,800	2003				
71										
72	***Marianna***									
73	Ag Park									
74	received from USDA/Delta CDA									
75	Portable trailer			2005	$5,000	1998				
76										
77	***LAND***	TOTAL ACRES	RESEARCH ACRES							
78	**UAPB**									
79	Arable land/pasture	212	30							
80	Ponds (91)	40	30	1986*	$125,000	1983				2009
81	Water Reservoir	5	5	1987*	$139,418	1983				
82	800 foot well				$132,959					
83										
84										
85	**Timber (Holiday bequest)**	75								
86										
87	**Lonoke**									
88	Arable land	402	78							
89	Forested	90								
90	Wetlands	37								
91	Compost Site	36								
92	Buildings	56								
93	Deep Wells (3)									
94	Deep Wells (7)									
95	Ponds (11)	193		2000						
96	Water Reservoir	46	46							
97		860								
98				1999						
99	**Marianna**									
100	Arable land/pasture	50	50	2004						
101										
102	* USDA Facilities Program funds									
103	** Arkansas state money and USDA Facilities funds									

Appendix J

Partnerships and Collaborations

MEMORANDUM OF AGREEMENT BETWEEN UNIVERSITY OF ARKANSAS AT PINE BLUFF AND THE NATIONAL AQUACULTURE ASSOCIATION

This agreement is entered into this 4th day of **April, 2008** by and between the University of Arkansas at Pine Bluff (hereinafter referred to as UAPB) and the National Association of Aquaculture (hereinafter referred to as NAA).

PURPOSE:

This purpose of this agreement is to establish guidelines for collaboration between UAPB and the National Association of Aquaculture in support of the U.S. aquaculture industry.

A. UAPB agrees to:

1. Provide office space for NAA's home office and personnel.
2. Provide science-based information as requested by NAA.

B. NAA agrees to:

1. Pay for its telephone expenses.
2. Provide payment to UAPB for utility expenses.
3. Notify UAPB Aquaculture/Fisheries personnel of employment and scholarship opportunities for students.

This agreement shall be effective on the date hereof and remain in effect until such time as either partner sends written notification requesting termination of the agreement. A minimum of 60 days notice in writing for termination.

UNIVERSITY OF ARKANSAS AT PINE BLUFF

BY: _____

Dr. Lawrence A. Davis, Jr.

TITLE: Chancellor

DATE: 4/3/08

NATIONAL AQUACULTURE ASSOCIATION

BY: Betsy Hart

TITLE: Executive Director

DATE: 5/20/08

ACADEMIC PROGRAMS:
INVENTORY OF PARTNERSHIPS AND COLLABORATIVE EFFORTS: JULY 1, 2008 - JUNE 30, 2009

Faculty/Area Involved	Partnership Entity	Brief Description of the Effort	Date Established
Troutman, Cynthia	Weed and Seed, UAMS		
Marks, Patricia	University of Arkansas for Medical Sciences (UAMS)		
Matute, Martin	University of Califoria-Davis		
Walker, Richard Rice, Antonie Wangila, Grant	University of Arkansas for Medical Sciences (UAMS)		
Kazi, Abul	Oak Ridge National Laboratory		
English, Theatre & Mass Communication	Dollarway Schools		
Grice, Michelle	Pine Bluff Commercial		
Simmonds-Hammons, Charlotte	Whispering Knoll Assisted Living Center		
Colen, Jr., Charles	Microsoft Corp., Turner Construction, URS Washington Div., Kellogg, Bureau of Land Mgt., Eaton Corporation		
Gordon, Heidi	University of Oklahoma		
Garland, Sheila	Area Agency on Aging, AHEC, Arkansas Cancer Institute, Arkansas Children's Hospital, Arkansas Dept. of Health, Arkansas Convalescent, Davis Nursing Assoc., Baptist Hospital Medical Center, Human Dev. & Research Services, Jefferson Comprehensive Care System, JRMC, Kids First, Future Builders, Little Rock Community Mental Health Care Inc., Pinnacle Point Hospital, SE AR Behavioral Healthcare System Inc., UAMS, Parents as Teachers, HIPPY, South Central Center on Aging, Arkansas State Hospital, Trinity Health		
Stewart, Andrea	DHHS, DCFS Social Service		
UAPB-ERDC	Pine Bluff Downtown Development (board member), Accelerate Arkansas (board member), Pine Bluff Entrepreneurship Collaborative (member of steering committee), Pine Bluff/UAPB/Game and Fish Commission Lake Saracen Shoreline Stabilization Committee, City of Pine Bluff Consolidated Planning Committee, City of Pine Bluff Urban Development Task Force, University Park Super Block Housing Development, City of Pine Bluff – University Park Neighborhood Revitalization Strategy, Pine Bluff Weed and Seed – Neighborhood Restoration		
School of Education	Arkansas Technology Transfer Society, Simmons First National Bank Minority Business Focus Group, Watson Memorial Library Economic Development Pilot Project, Southern Good Faith Fund, Alt.Consulting		
Hendrix, Shannon, Buckner, Edmund	USDA-APHIS	AG-Discovery Summer Enrichment Program. Residential program for teens (14-17 yrs.) to learn about and practice agricultural techniques.	2007
*Manoharan, M., E. R. Buckner, S. Ramaswamy, S. Wrobel and D. Fisher, "UAPB Agriculture Department	UALR Computer Science Department, UALR Institutue of Government, and UALR Rhetoric and Writing, Little Rock, AR" "STEM focused alliance for innovative leadership with education, government, corporate and coummunity partners		2008
Davis, Aneesha	Community Resource Agency, United Family Services, Head Start Centers, Juvenile Detention Center, Jefferson Compresensive Care Center	Recruitment of students for the Head Start Program	

ACADEMIC PROGRAMS:
INVENTORY OF PARTNERSHIPS AND COLLABORATIVE EFFORTS: JULY 1, 2008 - JUNE 30, 2009

Faculty/Area Involved	Partnership Entity	Brief Description of the Effort	Date Established
Meadows, Lucille Bradley, Bonnie	Diabetes Education program, Community Dialysis Center, Veterans Administration Hospital, Jefferson Regional Medical Center, Jefferson County Health Department, Arkansas Department of Health, Little Rock	Experimential learning for dietetics majors	Jan-07
Wheat, Janette	Department of Health and Human Services, ACCESS SCAN, Jefferson County Prosecutor's Office Jefferson County Probation and Parole	Internship Placements	Aug-06 Jan-07 Jul-06
Benjamin, Mary; Colen, Charles; Buckner, Anissa	Arkansas State University (ASU); Philander Smith College (PSC); Pulaski Technical College (PTC); Southeast Arkansas College (SEARK); University of Arkansas, Fayetteville (UAF); University of Arkansas at Little Rock (UALR); University of Arkansas at Monticello (UAM)	Arkansas Louis Stokes Alliance for Minority Participation (ARK-LSAMP)	July 2008
Benjamin, Mary; Colen, Charles; Buckner, Anissa	Arkansas Science and Technology Authority (ASTA)	Increase the number of underrepresented minorities in STEM fields in Arkansas	July 2008

Total Partnerships and Collaboratorative Efforts	**77**

RESEARCH AND EXTENSION:
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Faculty/Area Involved	Partnership Entity	Brief Description of the Effort	Date Established
Adamu, U.; H. English; K. Quagrainie; A. Kaliba; W. Williams; S. Hendrix; S.O. Okiror	Tennessee State University	To conduct preliminary research on opportunities and threats for small farms in Arkansas and Tennessee	2004
Adamu, U.; H. English; S. Hendrix	Alabama A&M University, Tennessee State University	To identify learning styles of socially disadvantaged farmers and ranchers	2004
Buckner, E.R.; E. Hackett	Agriculutral Wildlife Conservation Center	Collaboration with evaluation of NRCS created wetlands	2003
Buckner, E.R.; S.Donaldson	Southern Region Water Quality Group	Collaboration of GPS equipment for training students and extension personnel	2005
Buckner, E.R.; T. Riley	UA Extension Public Policy Center	Collaboration with public policy related to storm water runoff issues	2005
Buckner, E.R.; J. Hairston; M. Daniels; T. Tsegaye; T. Obreza; M. Risse; C. Gardner; S. Workman; L. Rivers,Jr.; B. LeBlanc; J. Bonner; C. Runyan; A. Johnson; G. Jennings; M. Smolen; G.B. Reddy; J. Hayes; G. Smith; M. McFarland; S. Dennis; N. Daniels	Southern Region Water Quality Group, UAPB, Auburn University, University of Arkansas, Alabama A&M University, University of Florida, University of Georgia, Florida A&M University, University of Kentucky, Kentucky State University, Louisiana State University, Mississippi State University, New Mexico State University, Alcorn State University, North Carolina State University, Oklahoma State University, North Carolina A&T University, Clemson University, University of Tennessee, Texas A&M University, Tennessee State University, Prairie View A&M University	Collaboration with Regional Water Quality Issues	2004
Hettiarachchy, N.; M. Jalaluddin; S. Islam	UAF Food Science	Phytochemical analyses	2005
Koo, J. and S. Islam, M.Manoharan	USDA Foreign Agricultural Service	Development of partnership between China and U.S. through scientific collaboration in plant biotechnology, functional food, and value-added food crops	2006
Kazi, A. and S. Islam	UAPB Chemistry Department	Cell culture, extraction and identification of bioactive compounds	2005
Manoharan, M., L. Dahleen and S. Neate	UAPB Agriculture Department and USDA-ARS Northern Crop Science Laboratory	Detoxification of mycotoxin, deoxynivalenol in barley	2005

RESEARCH AND EXTENSION:
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Faculty/Area Involved	Partnership Entity	Brief Description of the Effort	Date Established
Manoharan, M., Y. Jia, O. Yu and S. Nagarajan	Dale Bumper National Rice Research Center, Stuttgart, AR, Danforth Plant Science Research Center, St. Louis, MO, and UAMS, Little Rock, AR	Metabolic engineering of isoflavone in rice	2005
Manoharan, M. and P. Mcleod	University of Arkansas	Cowpea research	2006
Manoharan, M. and U. Reddy	West Virginia State University, Institute, WV	Sweetpotato research	2004
Manoharan, M. and V. Kalavacharla	Deleware State University, DE	Development of molecular genetic and genomic resources for disease resistance in common bean	2007
Manoharan, M., R. Heerema, F. Matta and G. Panicker	New Mexico State University, Las cruces, NM, Mississippi State University, Starkville, MS, Alcorn State University, Lorman, MS	In vitro propagation of elite pecan cultivars	2006
Njue, O.; E. Garcia; R. Rainey; C. Anderson	UA-Fayetteville, UACES	To provide training and technical advise to support vegetables, fruit and nut production in Eastern and Soutwest Arkansas	2005
Njue, O.; H. English	UAPB Horticulture Program and Small Farms Program	To strengthen alternative crops production among small-scale and limited resource farmers in Eastern and Southwest Arkansas	2006
Njue, O.; M. Ashanti; B. Colley	Heifer International	To assist limited resource farmers enhance economic opportunity and quality of life through horticultural crops production	2006
Okiror, S.O.	University of Limpopo (UNIN)	Collaborative research on Southernpea	2005
Development of partnership between China and U.S. through scientific collaboration in plant biotechnology, functional foods, and value-added food crops	Islam, S.; J.O. Garner		9/1/2007
Dorman, L.	Southeast Arkansas Catfish Cooperative Committee	Processing plant feasibility	2005
Lochmann, R.	NCTR Memphis State University, The Ohio State University, National Center for Toxicological Research, Food and Drug Administration	Collaborative research on feed additives - effect on gut microflora in catfish Joint Research/Extension Programs	2005
Lochmann, S.	AGFC	Lake Chicot retenone sample - Lake Village, AR	2005
Neal, J.W.	Delta Rivers Nature Center Delta Rivers Nature Center Department of Natural Resources, Puerto Rico	Treat pond algae and high phosphorus levels Ornamental pond exhibit, fish exhibit and amphibian exhibit Joint Research/Extension Programs	2005 2005
Sadler, J. Andy Goodwin(UAPB) Drew Mitchell (USDA) Al Dove (Stonybrook University, NY)		Cutaneous infection of channel catfish with microscopic nematode (on-going project with previously unidentified parasite)	2005
Stone, N. & Goodwin, A.	ABOFGA and Arkansas State Plant Board	Quality baitfish meeting	2005
County Agents (Augusta, Searcy, Magnolia)		Timely news release on liming ponds, which was used by agents in at least three papers	2005
Thomforde, H.	Drew Mitchell (USDA/ARS)	Field trials for snail controls in aquaculture ponds (on-going)	2005
Kathryn Shinn, Lonoke High School Teacher	Aquatic environments		2005

RESEARCH AND EXTENSION:
INVENTORY OF PARTNERSHIPS AND COLLABORATIVE EFFORTS: JULY 1, 2008 - JUNE 30, 2009

Faculty/Area Involved	Partnership Entity	Brief Description of the Effort	Date Established
Goodwin, A.	Arkansas State Plant Board	Cooperate to register therapeutants for fish farmers	1997
Engle, C./Goodwin, A./ Perschbacher, P.	City of Pine Bluff	The Pine Bluff Nature Center	1997
Engle, C./Lochmann, R./ Heikes, D./Killian, S.	Southern Regional Aquaculture Center	Serve on Technical Committee and on Steering Committee	1990
Goodwin, A.	APHIS Animal Plant and Health Inspection Service, Auburn University, Clear Springs, George Washington University, Texas Parks and Wildlife, Washington State University, University of Arkansas for Medical Sciences	Certification of International Health Joint Research/Extension Programs	1997
Stone, N./Heikes, D./ Goodwin, A./ Thomforde, H.	Cooperative Extension	Provide support to county agents in Arkansas	1890
Engle, C./Goodwin, A./ Stone, N./Lochmann, S./Neal, J.W./ Eggleton, M.	Arkansas Game and Fish Commission		
Goodwin, A./Heikes, D.	Clemson University	Joint Research/Extension Programs	
Heikes, D./Engle, C.	Department of Agriculture, North Carolina, North Carolina State University	Joint Research/Extension Programs	
Engle, C.	Escuela Agricola Panamericana de Zamorano, Louisiana State University, Moi University, Universidad Centroamericana, Nicaragua, Universidad Juarez Antónoma de Tabasco, Mexico, University of Florida, University of Idaho, U.S. Fish and Wildlife Service	Joint Research/Extension Programs	
Engle, C./Lochmann, R.	Instituto Internacional Amazónica del Perú	Joint Research/Extension Programs	
Goodwin, A./Lochmann, R./ Stone, N./Lochmann, S.	H.K. Dupree Stuttgart National Aquaculture Research Center	Joint Research/Extension Programs	
Kaliba, A.	Kansas State University	Joint Research/Extension Programs	
Lochmann, R./Perschbacher, P./Engle, C.	Kentucky State University	Joint Research/Extension Programs	
Goodwin, A./Engle, C./ Dorman, L.	Mississippi State Univesity	Joint Research/Extension Programs	
Lochmann, R./Goodwin, A.	Texas A&M University	Joint Research/Extension Programs	
Perschbacher, P.	University of Arkansas at Monticello	Joint Research/Extension Programs	
Quagrainie, K.	University of Edmonton, Canada	Joint Research/Extension Programs	
Eggleton, M.	University of Oklahoma	Joint Research/Extension Programs	
Neal, J.W.	University of Puerto Rico	Joint Research/Extension Programs	
Stone, N./Goodwin, A.	University of Southern Mississippi	Joint Research/Extension Programs	
Njue, Obadiah, Henry English	UAPB Horticulture Program and Small Farms Program	To strengthen alternative crops production among small-scale and limited resource farmers in Eastern and Southwest Arkansas	Spring 2006 - current
Njue, Obadiah, Elena Garcia, Ron Rainey, Craig Anderson	UAPB, UA-Fayetteville, UACES, Clemson Univ., NC St. Univ., Aub. University, Alab. A&M Univ., Alab. Sustainable Agric. Network	To provide training and technical advise to support vegetables, fruits and nut production in Eastern and Southwest Arkansas	Fall 2005 - current
Njue, Obadiah, Micheal Ashanti, Barry Colley	UAPB, Heifer International	To assist limited resourse farmers enhance economic opportunity and quality of life through horticultural crops production	Spring 2006 - current

RESEARCH AND EXTENSION:
INVENTORY OF PARTNERSHIPS AND COLLABORATIVE EFFORTS: JULY 1, 2008 - JUNE 30, 2009

Faculty/Area Involved	Partnership Entity	Brief Description of the Effort	Date Established
Cole, Robert, Charlie Cummings, Julius Handcock, Theodore Eldridge, Leslie Glover	Natural Resources Conservation Service (NRCS)	Development of SFO-WWMC at Lonoke	1995
	NRCS-National Water Management Center		1995
	U. S. Army Corps of Engineers-Memphis		1999
	U. S. Army Corps of Engineers-Vicksburg		2002
	NRCS-Booneville-Plant Material Center		1995
	NRCS National Water Climate Center		2003
	NRCS National Soil and Data Center		2003
	NRCS Watershed Sciences Institute		2005
	U. S. Geological Survey		2004
	U. S. Fish and Wildlife Service		1995
	USDA Rural Development Adm. Agencies		1995
	Arkansas Department of Corrections		1995
	Arkansas Department of Energy		1996
	Arkansas Department of Environmental Quality		2005
	Arkansas Forest Commission		2005
	Arkansas Game and Fish Commission		2005
	Arkansas Natural Resources Commission		2004
	U of A cooperative Extension Service		2004
	City of Lonoke		1995
	Office of the Lonoke County Judge		1998
	Arkansas State Legislature		1998
	DeWitt, Gillett and Earle School Districts		1997
	Grand Prairie Area Demonstration/Bayou Meto-irrigation District's		2006
	Master Gardner's of Arkansas		1999
Felsman, Robert J.	Arkansas Farm Bureau	Meet with Swine Commodity Committee and Environment Affairs Committee	
	Arkansas Farm Bureau		
	Arkansas State Fair	Coordinate activities at Arkansas State Fair	
	ASU-Jonesboro, U of A Fayetteville, SAU - Magnolia	Work together on conducting youth livestock activities	2005
	Silas H. Hunt foundation, ALFDC	Work together on conducting youth livestock activities	2005
		Work together on livestock educational programs	
English, Henry	Federal Crop Insurance Corporation (FCIC)	Providing Risk Management Education	10/1/2003
	Farm Service Agency (FSA)	Assist Producers in Using USDA Loans and Price Support Programs	8/10/2003
	Natural Resources Conservation Service (NRCS)	Assist Producers in using Conservation Programs	Jan-04
	Cooperative Extension Service (CES)	Assist with Vegetable Workshop	Jan-04
	Silas H Hunt Community Development Corporation (SHHCDC)	Provide with Subaward to conduct Risk Management Education in Southwest Arkansas	Jan-04
	Black Farmers & Agriculturalist Association (BFAA)	Provide Educational Information at BFAA Meetings	Jan-98
	Concentric Management Association	Provide Educational Information on goats	Jan-08
	Arkansas Forestry Commissions (AFC)	Provide Forestry Education to Minority Producers	Jan-05
	Heifer Project International (HPI)	Identify groups for HPI Projects	Oct-04
	Arkansas Land & Farm Development Corporation (ALFDC)	Coporate on goat demonstration & other projects	Jan-05
	Oklahoma Black Historical Research Project (OBHRP)	Providing Plasticulture & Drip irrigation Education to Producers	Jan-06
	East Arkansas Enterprise Community		Jan-08

RESEARCH AND EXTENSION:
INVENTORY OF PARTNERSHIPS AND COLLABORATIVE EFFORTS: JULY 1, 2008 - JUNE 30, 2009

Faculty/Area Involved	Partnership Entity	Brief Description of the Effort	Date Established
FF-NEWS Faculty	HIPPY Programs, County Health Departments, County Departments of Human Services in Ashley, Desha, Drew, Linoln, Jefferson, Cross, St. Francis and Woodruff Countiess	Participation recruitment/Program site	Feb-99
	WIC Program, Area Agency on Aging, Local Churches, 1862 Cooperative Extension, Local Food Pantries, Housing Authority, Family Resource Centers, Grocery Stores, Food Distribution Center, Local Farmers' Markets	Participation/recruitment	Feb-99
Lee, Irene K.	City of Brinkley Housing Authority 1862 County Family and Consumer Sciences Faculty Distribute TEENS ON THE GO to public school 7-12 grade students	Provides physical facility for after-school program	1996 1978
Hyman, Edith	Marvell NIRI Community Group, Marvell School District	Conduct obesity research	2005

Total Partnerships and Collaboratorative Efforts	**141**

Appendix K

Summary of Student Support Programs

The Honors College serves those academically prepared and talented students who are receptive to accepting the challenges of a program designed to elicit their highest performance. Courses, seminars, and forums are used to stimulate creativity, intellectual curiosity, and critical evaluation of ideas and behavior.

The Viralene J. Coleman Writing Center offers writing assistance, including tutorials and seminars, to students across the campus who need help in development of their writing skills. The writing center is prepared to help students in developing professional writing skills which conform to the requirements of major research reporting styles (e.g., American Psychological Association, World Aquaculture Society, American Fisheries Society, and others).

The Ronald McNairs Scholars Program is designed to encourage low-income students and minority undergraduates to consider careers in college teaching, as well as, to prepare for doctoral study. Students who participate in this program are provided with research opportunities and faculty mentors.

The Office of Student Involvement and Leadership offers rigorous intellectual engagement through its Lecture Series, Leadership Institute, Leadership Training and Development, Seminars, Workshop Series, Book Reviews, Public Forums and Lyceum Series. These events have added rigor to an atmosphere of scholarly performance and accomplishments. The programs encourage students to engage in intellectual interactions and critical thinking. Diverse and multicultural programs are organized on campus promote student engagement, with non-traditional and minority cultures, especially Latin American, African, and Asian.

The Living and Learning Center in the Harrold Complex Residence Hall created a structured living environment that contribute to academic success and increase student retention, especially for freshman students. Nightly curfew and daily quiet hours, tutorials, new computers, audio-visual equipment, and exercise equipment are available.

Through the Office of Disability Services and Veterans Affairs, the University provides staff and policies in full accord with the Americans with Disabilities Act (ADA). The entire campus has undergone a seven year (2000-2007) ADA implementation and renovation plan. Sidewalks, computer labs, classrooms, second floor access, curb cuts, crosswalks, widened doors, door levers, and accessible bathrooms are available to all students. The institution provides note-takers, test proctors, adaptive equipment and assistive technology. UAPB cultivates educational access to all veterans who attend the Institution. These services extend the behavioral health and counseling services to students who may experience Post Traumatic Stress or additional support to students who may has a family member who has been called to active duty.

The Student Health Center is vital to the campus community. The staff includes four registered nurses, and a nurse practitioner. The Health Service fee, which is included in the student's tuition, and other fees cover service at the University Health Center and Jefferson Health Care Plus; other medical facilities are less than 15 minutes from campus and are on public bus routes. Students may purchase optional health insurance if they are not already covered.

The Office of International Programs assists international students to adjust academically and

socially to university life. It sponsors study aboard programs and works to enhance skills associated with success in this era of globalization.

The Office of Cooperative Education and Career Services plays an important role in enhancing the career opportunities for UAPB students and alumni. This resource will be available to doctoral students and their spouses. In addition to providing an employment clearinghouse, this office assists students with career exploration, resume development, interview preparation and conducts career fairs, seminars and workshops to help develop employment skills.

The Student Counseling, Assessment, and Development (SCAD Center**)** provides a myriad of services to undergraduate and graduate student, faculty, and staff population. The include counseling, psychosocial support, standardized testing, and enrichment (development) activities to foster persistence and lifelong learning.

The UAPB Child Development Center is housed in the Department of Human Sciences. It provides daycare services (infants through age 5) for faculty and students on campus. It follows the curricula and policies of the Arkansas Better Chance Program.

Appendix L

Faculty Publications/Presentations

Presentations and Scholarly Publications:

School of Agriculture, Fisheries and Human Sciences (SAFHS)

A. Refereed Journal Articles

1. Published

Briones, R., M.M. Dey, M. Ahmed, M Prein and I. Stobutzki. 2008. Priority setting for research on aquatic resources: applying modified economic surplus analysis to natural resource systems. Agricultural Economics 39(2):231-243.

Colvin, N.E., C.L. Racey and S.E. Lochmann. 2008. Stocking contribution and growth of largemouth bass stocked at 50 and 100 mm into the Arkansas River. North American Journal of Fisheries Management 28:434-441.

Dey, M.M. and Y.T. Garcia. 2008. Demand for fish in Asia: a cross country analysis. Australian Journal of Agricultural and Resource Economics 52(3):321-338.

Gordon, D., T. Bjorndal, M.M. Dey and R.K. Talukder. 2008. Production characteristics of shrimp farming in Bangladesh: an index approach. Marine Resources Exonomics 23(4):411-424.

Green, C.C. and A.M. Kelly. 2008. Effects of the estrogen mimic genistein as a dietary component on sex differentiation and ethoxyresorufin-O-deethylase (EROD) activity in channel catfish (Ictalurus punctatus). Fish Physiology and Biochemistry. Sept. 2008 (online).

Green, C.C. and A.M. Kelly. 2008. The effects of the exogenous soybean phytoestrogen genistein on sperm quality, ATP content, and fertilization rates in channel catfish Ictalurus punctatus and walleye sander vitreus. Journal of Fish Biology 72:1-15.

Hanna, S.K., A.H. Haukenes, R.J. Foy and C.L. Buck. 2008. Temperature effects on metabolic rate, swimming performance and condition of Pacific cod Gadus macrocephalus Tilesius. Journal of Fish Biology 72:1068-1078.

Hanna, S.K., A.H. Haukenes, R.J. Foy and C.L. Buck. 2008. Effect of acclimation temperature on the recovery of Pacific cod (Gadus macrocephalus) following exhaustive exercise. Pages 239-250 in Resiliency of gadid stocks to fishing and climate change; G.H. Kruse, K. Drinkwater, j.N. Ianelli, J.S. Link, D.L. Stram, V. Wespestad, and D. Woodby editors. 24th Lowell Wakefield Sympsium. Alaska Sea Grant.

Haukenes, A.H. and B.A. Barton. 2008. Cortisol responses of pallid sturgeon and yellow perch following challenge with lipopolysaccharide. Journal of Fish Biology 72:780-784.

Haukenes, A.H., S. Plante and C.L. Buck. 2008. Pattern of sex steroid concentrations in relation to the annual reproductive cycle of wild and captive black rockfish, Sebastes melanops. North American Journal of Aquaculture 70:212-218.

Islam, S. 2008. Antimicrobial activities of Ipomoea batatas L. Leaf. Journal of Food Agriculture & Environment. 6(1): 16-21.

Islam, S. 2008. Effect of temperature on environmental friendly organic substrates. International Journal of Agriculture & Biology. 10: 196-200.

Islam, S. and Garner, J. O. 2008. Performance of selected sweetpotato genotypes. Arkansas Agricultural, Environmental and Consumer Sciences Journal. 7: 17-19.

Islam, S. Jalaluddin, M. & Hettiarachchy, N. 2008. Physiological functions of Momordica charantia L. in relation to polyphenolic contents. HortScience. 4: 1223.

Islam, S., Camren R. and Garner, J. O. 2009. Carbohydrate compositions and peroxidase activity in ungerminated, cotyledon and embryo tissues of Vigna unguiculata L. Walp seed grown under stress temperature. American J. Plant Physiology 4: 9-17.

Islam, S., M. Jalaluddin, and V. Wiley. 2008. Productivity and quality attributes of eggplant (Solanum melongena L.) varieties. Arkansas Environmental, Agricultural, and Consumer Sciences Journal 7: 10-13.

Islam, S., Rafaela, C. and Garner, J. O. 2008. Physiological and biochemical characteristics Vigna unguiculata L. Walp genotypes. American J. Plant Physiology. 3:16-25

Islam, S., Rafaela, C. and Garner, J.O. 2009. Development of selection procedures of sweetpotato genotypes according to chilling tolerance. J.Food Agric & Environ.7: 329-31.

Jaafar, F.M., A.E. Goodwin, M. Belhouchett, G. Merry, Q. Fang, J-F. Cantaloube, P. Biagini, P. De Micco, P.P.C. Mertens and H. Attoui. 2008. Complete sequence analysis of American grass carp reovirus genome, a new member of the genus Aquareovirus (family Reoviridae): evidence for an evolutionary link between the aquareoviruses and coltiviruses. Virology 373:310-321.

Kumar, G., K. Quagrainie and C. Engle. 2008. Factors that influence frequency of purchase of catfish by U.S. households in selected cities. Aquaculture Economics and Management 12:1-16.

Kumar, P., M.M. Dey and N.K. Barik. 2008. Farm-economics of genetically improved carp strains in major Asian countries and carp seed price policy model. Agricultural Economics Research Review 21:395-406.

Lee, B.D., Koo, J., Jahncke, M.L., Kim, D., Chung, D.O., and Eun, J.B. 2008. Antimicrobial effect of acidified sodium chlorite (ASC) on whole croaker. J. Food Sci. Nutr. 13:266-268.

Leyva, C.M. and C.R. Engle. 2008. Optimizing tilapia, Oreochromis sp., marketing strategies in Nicaragua: a mixed-integer transshipment model analysis. Journal of the World Aquaculture Society 39(3):339-351.

Lihono, M. A., Adamu, U. and Stigger, E. E. 2008. Price, not probiotics is the most important factor in the selection of yogurt for children in Pine Bluff, Arkansas. Environmental, Agricultural and Consumer Sciences Journal. 7:7-9.

Ludwig, G.M., S.D. Rawles and S.E. Lochmann. 2008. Effect of rotifer enrichment on sunshine bass morone chrysops X M. saxatilis larvae growth and survival and fatty acid composition. Journal of the World Aquaculture Society 39:158-173.

Mandadi, K., Ramirez M., Jayaprakasha, G.K., Faraji, B., Lihono, M., Deyhim F., and Patil, B.S. 2008. Citrus bioactive compounds improve bone quality and plasma antioxidant activity in orchidectomized rats. Online: Phytomedicine

Melandri, M., N. Stone and R. Lochmann. 2008. Effects of temperature on the growth of golden shiners in aquaria. North American Journal of Aquaculture 70:454-458.

Okiror, S. O., J. C. Onyilagha, T. Dunbar, and O. Njue. (2008). Investigating the potential of four cowpea cultivars for fresh seed production. International Journal of Applied Research. 3:67-74.

Onyilagha, J. and ISLAM, S. 2009. Comparative phytochemistry of eleven species of Vigna (Fabaceae). International Journal of Agriculture & Biology, 11: 231-234.

Onyilagha, J. and ISLAM, S. 2009. Flavonoids and other polyphenols of the cultivated species of the Phaseolus. Journal of Chemical Ecology, 37: 16-19.

P. Bregitzer, L.S. Dahleen, S. Neate, P. Schwarz, and M. Manoharan 2008. A single backcross is an effective tool for the elimination of agronomic and quality alterations caused by somaclonal variation in transgenic barley (Hordeum vulgare L.). Crop Science 48: 471-479.

Phelps, N.B.D. and A.E. Goodwin. 2008. Vertical transmission of Ovipleistophora ovariae (Microspora) within eggs of the golden shiner. Journal of Aquatic Animal Health 20:45-53.

Raina, A., Y. I. Park and D. Gelman. 2008. Monlting in workers of the Formosan subterranean termite Coptotermes formosanus. Journal of Insect Physiology, 54:155:161.

Sadler, J.A., E. Marecaux and A.E. Goodwin. 2008. Detection of Koi Herpes Virus (cyHV-3) in goldfish exposed to infected koi. Journal of Fish Diseases 31:71-72.

Sink, T.D. and R.T. Lochmann. 2008. Preliminary observations of mortality reduction in stressed, Flavobacterium columnare, challenged golden shiners after treatment with a dairy-yeast prebiotic. North American Journal of Aquaculture 70:192-194.

Sink, T.D. and R.T. Lochmann. 2008. Effects of dietary lipid source and concentration on channel catfish (Ictalurus punctatus) egg biochemical composition, egg and fry production, and egg and fry quality. Aquaculture 383:65-75.

Sink, T.D., R.T. Lochmann and K.A. Fecteau. 2008. Validation, use, and disadvantages of enzyme-linked immunosorbent assay kits for detection of cortisol in channel catfish, largemouth bass, red pacu, and golden shiners. Fish Phyiology and Biochemistry 34:95-101.

Umoren, U. E., O. Effiong, J. C. Onyilagha, E. D. Ekpe, and S. O. Okiror. 2008. Changes in nutritional characteristics of the horse-eye bean subjected to different processing methods. International Journal of Food Properties. 11:1-9.

2. In-Press

Clark-Kolaks, S.J., J.R. Jackson and S.E. Lochmann. In press. Adult and juvenile paddlefish in floodplain lakes along the lower White River, Arkansas. Wetlands.

Dunbar, T. V. and O. Porter. 2008. Economic production potential and feasibility of southern peas. Arkansas Environmental, Agricultural and Consumer Sciences Journal.

Goodwin, A.E., J. Sadler, G. Merry and E. Marecaux. In press. Herpesviral Hematopoietic Necrosis Virus (CyHV-2) Infection: case studies from commercial goldfish farms. Journal of Fish Disesease.

Green, B., P. Perschbacher and G. Ludwig. In press. Effect of threadfin shad as forage for channel catfish fed daily or every third day. North American Journal of Aquaculture.

Haukenes, A.H., S.Y. Elmejjatti and C.L. Buck. In press. Effects of emersion temperature and handling on the oxygen consumption rates of male tanner crabs, Chionoecetes bairdi. Journal of Crustacean Biology.

Huang, B., Z. Yan, and J. You. 2009 Effect of high temperature at reproductive stage to rice yield. Science Journal of Guizhou

Islam, S., Camren R. and Garner, J.O. 2009. Carbohydrate and fatty acid metabolism of cowpea genotypes. In: Handbook of Plant biology.

Islam, S. 2009. Polyphenol contents and caffeic acid derivatives from leaves of Ipomoea batatas genotypes. Acta Horticulturare.

Jalaluddin, M., and S. Islam. 2009. Genotypic and phenotypic variability of selected hot pepper (Capsicum annum L) breeding lines. Arkansas Environmental Agricultural and Consumer Sciences Journal.

Jalaluddin, M., and S. Islam. 2009. Preliminary observations on the nutritional qualities of hot pepper (Capsicum annum L.) varieties and breeding lines. Arkansas Environmental Agricultural and Consumer Sciences Journal.

Kaliba, A.R., C.R. Engle and D. Bouras. In press. Economic analysis of producing fishmeal and fish oil from channel catfish (Ictalurus punctatus) processing wastes. Journal of the World Aquaculture Society.

Li, P., B. Ray, D.M. Gatlin, III, T. Sink, R. Chen and R. Lochmann. In press. Effect of handling and transport on cortisol response and nutrient mobilization of golden shiner Notemigonus crysoleucas. Journal of the World Aquaculture Society.

Lihono, M.A, Mendonca, F.A., Bisha, B, and Bankston L.T. 2008. Inhibition of Enterobacter sakazakii in Reconstituted Infant Formula using a Selected Probiotic Culture. Arkansas Environmental, Agricultural,and Consumer Sciences Journal.

Lochmann, R.T., T.D. Sink and H. Phillips. In press. Effects of dietary lipid concentration, a dairy/yeast prebiotic, and fish and non-fish protein sources on growth, survival, and non-specific immune response of golden shiner, Notemigonus crysoleucas, in indoor tanks and outdoor pools. North American Journal of Aquaculture.

Ludwig, G. and S.E. Lochmann. In press. Tank culture of sunshine bass fingerlings without using rotifers. North American Journal of Aquaculture.

Ludwig, G.M. and S.E. Lochmann. In press. Effect of temperature on larval sunshine bass growth and survival to the fingerling stage. North American Journal of Aquaculture.

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B. Invited Lectures

Glover, Leslie, J. 2009. To live in Alabama during the era of Dr. Martin Luther King as blacks reach for freedom. East Arkansas Enterprise Community EAEC Forrest City. About 120 attended.

Koo, J. 2008. Good agricultural practices in postharvest and processing of fresh produce. Agriculture Demonstration and Outreach Center Meeting Mariana, Arkansas.

M. Manoharan. 2008. Micropropagation of pecan. 2008 TriState Pecan Trade Show and Convention, Vicksburg, MS.

Wheat, Janette R. 2009. American families in context. Child Welfare Interdisciplinary Partnership Committee, Department of Social Work, UAPB.

C. Other Professional Papers and Oral Presentations

1. Book Chapters

Dey, M.M. 2008. Changing demand and supply structure of fish in Asia: past trends and future projection, pp. 51-74. In: R.M. Briones and A.G.

Garcia, (eds.) Poverty reduction through sustainable fisheries: emerging policy and governance issues in Southeast Asia. Institute of Southeast Asian Studies, Singapore. P 276.

Lee, Irene K. 2008. Adolescents. Encyclopedia of Rural America: The Land and People.
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Pomeroy, R., Y.T. Garcia, M.M. Dey and L.R. Garces. 2008. Regional economic integration of the fisheries sector in ASEAN countries, pp. 75-106. In: R.M. Briones and A.G. Garcia, (eds.). Poverty reduction through sustainable fisheries: emerging policy and governance issues in Southeast Asia. Institute of Southeast Asian Studies, Singapore. P. 276.

C. Other Professional Papers and Oral Presentations

2. Unrefereed Publications

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English, Henry. 2008. Wheat/Oat Crop Insurance Deadline Sept. 30; New Guidelines Apply. Pine Bluff Commercial.

Islam, S. 2008. Potential Chemo-preventative properties isolated from Ipomoea batatas leaves: Functional Food Center at D & A Inc., TX, pp. 96-109.

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3. Extension Publications

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Lee, Irene K. 2008. A Maze of Manners, Teens on the Go, Volume 26, 1890 Cooperative Extension Program, University of Arkansas at Pine Bluff.

Lee, Irene K. 2008. Forgiveness Can Resolve Anger and Lead the Way to Emotional Relief, Teens on the Go, Volume 26, 1890 Cooperative Extension Program, University of Arkansas at Pine Bluff.

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Buckner, E.R. and L. Hairston. 2008. An Assessment of Storm Water Runoff Issues in Pine Bluff, White Hall the University of Arkansas at Pine Bluff (UAPB) and Jefferson County. 52st Annual Rural Life Conference, UAPB. P. 18..

Buckner, E.R. and L. Hairston. 2008. Utilization of Water Lilies for Cut Flower Production. 52st Annual Rural Life Conference, UAPB. P. 20.

Dey, M.M. 2008. Aquaculture development for all: an overview of socio-economic and institutional challenges. World Aquaculture Society, Busan, Korea, Book of Abstracts, May 19-23.

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Kumar, G. and C. Engle. 2008. Comparative production study of NWAC 103 strain catfish and channel-blue hybrids. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society. Orlando, Florida.

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Paver, A.N. and N. Stone. 2008. Controlling fungus during jar incubation of rosy red fathead minnow eggs. Abstracts, Aquaculture/Fisheries Field Day, University of Arkansas at Pine Bluff, p. 17.

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Pugliese, N., D. Heikes and C. Engle. 2008. Evaluation of a single-batch production scenario for channel catfish Ictalurus punctatus within a confinement system. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society, Orlando, Florida.

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Sink, T.D. and R.T. Lochmann. 2008. Growth and mortality of channel catfish Ictalurus punctatus fry fed diets containing 36% or 45% all-plant proteins versus standard diets containing 36% or 45% animal and plant proteins. Aquaculture America 2008, CD of abstracts, p. 364.

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C. Other Professional Papers and Oral Presentations

5. Manuscripts Submitted

Dey, M. Demand for aquaculture development: perspectives from Bangladesh for improved planning. Reviews in Aquaculture.

Eggleton, M.A., J.R. Jackson and B.J. Lubinski. Multiple-gear assessment of floodplain lake fish assemblages of a large river-floodplain ecosystem. Wetlands.

Engle, C. and A. Nanninga. The effect of pond water depth on channel catfish Ictalurus punctatus production. Aquaculture Research.

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Harris, N.J., J.W. Neal, T.D. Sink and P.W. Perschbacher. Determination of the spawning season of bigmouth sleepers Gobiomorus dormitor

in Puerto Rico by examination of reproductive hormone cycles. Fish Physiology and Biochemistry.

Harris, N.J., J.W. Neal, T.D. Sink and P.W. Perschbacher. Determination of the spawning season of bigmouth sleepers Gobiomorus dormitor in Puerto Rico by examination of reproductive hormone cycles. Marine and Freshwater Behavior and Physiology.

Kelly, A.M. Alternative methods to use of black carp for snail control in aquaculture ponds. Book Chapter in D. Chapman, editor. The Invasive Asian Carps in North America: A Forum to Understand the Biology and Manage the Problem. American Fisheries Society, Bethesda, MD.

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Kumar, G. and C.R. Engle. Production performance and cost of food fish production from fingerlings of Channel-Blue F1 Hybrids, Ictalurus punctatus –Ictalurus furcatus, or NWAC-103 channel catfish, Ictalurus punctatus. Journal of the World Aquaculture Society.

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Perschbacher, P., M. A. Lihono and J. Koo. GMT Nile tilapia Oreochromis niloticus growth and lipid composition fed a Spirulina commercial pellet combination or commercial pellet only. Asian Fisheries Science.

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Suja, B., R. Lochmann, T. Sink and H. Phillips. Effect of diets supplemented with soybean, flaxseed, or menhaden fish oil on the growth, feed utilization, immune status, and sensory properties of channel catfish in a recirculating system at 22oC. Aquaculture.

Thomforde, H. Channeled apple snail: a serious threat to Arkansas agriculture. Arkansas State Plant Board.

(VHSV Expert Panel and Working Group) Amos, K.H., R.S. Bakal, M.J. Blair, D.A. Bouchard, P.R. Bowser, P.G. Egrie, S.K. Ellis, M. Faisal, K.A. Garver C. Giray, A.E. Goodwin, N.L. House, M.J. Kebus, K.C. Klotins, S.E. LaPatra, G.D. Marty, P.L. Merrill, A.D. Noyes, N.J. Olesen, S.M. Sadsida, M. Snow, S. St-Hilaire, F.C. Uhland, P. Vennerstrom, B.A. Wagner, J.V. Warg, G.E. Whelan, J.R. Winton, A.A. Barker, N. Bruneau, L.L. Gustafson, G.A. Karreman and S.M. Tomlinson. Viral hemorrhagic septicemia virus (VHSV IVb) risk factors and association measures derived by expert panel. Preventive Veterinary Medicine.

Waltzek, T.B., T. Kurobe, A.E. Goodwin and R. P. Hedrick. Development of a polymerase chain reaction assay to detect cyprinid herpesvirus 2 (CyHV-2) in goldfish Carassius auratus. Journal of Aquatic Animal Health.

Wheat, Janette R. 2009. Adolescent/ young fathers' involvement with their children: The
role of social support. Arkansas Environmental, Agricultural and Consumer Sciences Journal.

C. Other Professional Papers and Oral Presentations

6. Oral Presentations

A. Todd, K. Melamaiee, A. Russo , P. McClean , J. Schlueter , S. Jackson , M. Manoharan , R. Lee, and V. Kalavacharla. 2009. Progress In BAC Contig Development For The Ur-3 Rust Resistance Locus In Common Bean (Phaseolus vulgaris). Plant & Animal Genome XVII Conference, San Diego, California.

Adamu, U., T. Dunbar, S. Okiror, and D. Balogu. 2008. Assessment of the Agricultural Careers Research and Exploration Summer Institute Program at the University of Arkansas at Pine Bluff. Association of Extension Administrators/ Association of Research Directors Conference, Memphis, TN.

Huang, B., Z. Yan. 2009. Impact of Straighthead disease induced by high temperature to rice yields. ARD Symposium, Atlanta, GA.

Islam, S., 2008. "Physiological functions of biologically active compounds isolated from Ipomoea batatas leaves. Joint 1890 AEA/ARD Land-Grant Conference, Memphis, TN.

Islam, S., 2008. Genotypic variation of antioxidant activity of sweetpotatoes. 92nd annual conference of Arkansas academy of science, Henderson state University, Arkadelphia, AR.

Islam, S., 2008. Physiological functions of bitter melon (Momordica charantia L.) genotypes. Annual International Conference of American Society for Horticultural Sciences, Orlando, FL.
Islam, S., 2009. Performance of genetically developed Manfreda x Pollanthes crosses in southeast Arkansas conditions.

Islam, S., 2009. Twenty-Second Annual student/faculty Research Forum, University of Arkansas at Pine Bluff. Phenotypic variation of gladiolus varieties for flower production in southeast Arkansas conditions. 53rd Annual Rural Life Conference, UAPB.

Islam, S., October 1-5, 64th regional conference of American Chemical society., Little Rock, Arkansas

Jalalludin, M. D. 2008. Functional Food Characteristics of Cowpeas at the 5th International Crop Science Congress, Jeju, S. Korea, April 13-19, 2008

Lihono, M., U. Adamu, and F. E. Stigger. 2008. Survey of the Effect of Feeding Yogurt Among Preschoolers from minority households. Annual Rural Life Conference, University of Arkansas at Pine Bluff, Pine Bluff, Arkansas.

Lochmann, R, Lihono, M, Koo. J., Sink, T., and Chen, R. 2008. Effects of soybean, menhaden, and flaxseed oil in a commercial diet on performance and shelf life of Channel Catfish reared to market size at 22. AEA/ARD Land Grant Conference. Memphis, TN.

M. Manoharan. 2008. Improved plant regeneration in cowpea through shoot meristem. Plant & Animal Genome XVI Conference, San Diego, California, Jan. 12-16.

M. Manoharan. 2008. Micropropagation of pecan. 2008 TriState Pecan Trade Show and Convention, Vicksburg, MS.

M. Manoharan. 2009. Metabolic engineering of isoflavone in rice. Association of Research Directors. 15th Biennial Research Symposium, Atlanta.

Njue, O. 2008. Alternative Crops for Small Farm Diversification. Participants of UAPB's Rural Life Conference. UAPB, Pine Bluff, AR.

Njue, O. 2008. Basic Botany. Master Gardeners - Jefferson County. Pine Bluff, AR.

Njue, O. 2008. Community Gardening. Community Gardeners. Fort Smith, AR.

Njue, O. 2008. Container Gardening. Young Scholar's Families. Brinkley, AR.

Njue, O. 2008. Cool Season & Warn Season vegetable Production. Master Gardeners. Crawfordsville, AR.

Njue, O. 2008. Fall Gardening. Community Gardeners. Lewisville – Texarkana, AR.

Njue, O. 2008. Fertilizer Application for Peas, Sweet Potatoes, Squash & Okra. Annual Lee County Vegetable Clinic. Marianna, AR.

Njue, O. 2008. Garden Basics. Tri-County Community Coalition. Pine Bluff, AR.

Njue, O. 2008. Good Agricultural Practices. Small-Scale Vegetable Farmers. Marianna, AR.
Njue, O. 2008. Horticulture for the Young. Young Scholars. Brinkley, AR.

Njue, O. 2008. Organic Gardening: A Demonstration. Participants of UAPB Lonoke Field Day, UAPB Farm, Lonoke, AR.

Njue, O. 2008. Small Fruits Production & Tree Fruits Production. Master Gardeners – Lee & Phillips Counties. Marianna, AR.

Presentations and Scholarly Publications: SAFHS

Njue, O. 2008. Small Fruits Pruning. Jefferson County Master Gardeners and Community. UAPB Farm, Pine Bluff.

Njue, O. 2008. Small Space Gardening. Friends of White Hall Library. White Hall, AR.

Njue, O. 2008. Small Space Gardening. Senior Citizens. Lakeside United Methodist Church, Pine Bluff, AR.

Njue, O. 2008. Warm Season Vegetables. Master Gardeners – Jefferson County. Pine Bluff, AR.

N.N. Renukdas, M. Manoharan and J.O. Garner. 2008. In Vitro plant regeneration of pecan [Carya illinoinensis (Wangenh.) K. Koch]. World Congress on In Vitro Biology, Tucson, AZ.

N.N. Renukdas, M. Manoharan and J.O. Garner. 2009. In Vitro plant regeneration of pecan [Carya illinoinensis (Wangenh.) K. Koch]. Association of Research Directors 15th Biennial Research Symposium, Atlanta.

Ntamatungiro, S. 2008. Cooperation, information, and technology transfer. Arkansas Soil Survey Work Planning Conference. Conway, Arkansas.

Ntamatungiro, S. 2008. Evaluation of seven cucumber entries for adaptation in Southern Arkansas. Trials Review Meeting. Leland, Mississippi. March 2008.

Onyilagha, J. C. and Shahidul, I. (2008). Radical scavenging activities of caffeoylquinic acid derivatives from sweet potato leaves. In Abstracts, 92nd Annual meeting of the Arkansas Academy of Science, Arkadelphia, April 11 – 12, 2008. (Oral presentation.)

Park, Y. I. 2008. Lifespan of the Formosan subterranean termite and the effect of juvenile hormone analog on nymph. 21st Annual Student/ Faculty Research Forum, UAPB.

Sims, T. and M. Jalaluddin. 2008. Rice variety responses to blast disease under upland and lowland conditions in Arkansas. UAPB Faculty/Student Research Forum.

Z. Yan., B. Huang. 2009. Yield and grain setting rate of rice new strains at UAPB Farms. ARD Symposium, Atlanta, GA.

National/International

Bose, M.L., M.M. Dey and E. H. Allison. 2008. Transformation of fishery sector and its impact on fish production, food and economy of Bangladesh. World Aquaculture Society, Busan, Korea, May 19-23.

Dey, M.M. 2008. Aquaculture development for all: an overview of socio-economic and institutional challenges. World Aquaculture Society, Busan, Korea, May 19-23.

Dey, M.M. and P. Kumar. 2008. Dissemination of genetically improved carp strain and seed price policy: an economic analysis of Asian countries. World Aquaculture Society, Busan, Korea, May 19-23.

Dey, M.M., P. Kumar, F.J. paraguas, A. Khan, L. Li, N.K. Barik, Z. Nasution, N. Srichantuk and N. H. Ninh. 2008. Bioeconomic analysis of the performance and nature of genetically improved carp in Asian countries. World Aquaculture Society, Busan, Korea, May 19-23.

Eklund, P., C. Engle and M. Oliver. 2008. Aquatic nuisance plant species in Arkansas. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society, Orlando, Florida.

Engle, C. 2008. Economics of best management practices. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society, Orlando, Florida.

Engle, C.R. 2008. Aquaculture research, extension, and education at the University of Arkansas at Pine Bluff. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society, Orlando, Florida.

Engle, C.R. 2008. Science and advocacy: implications for extension. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society, Orlando, Florida.

Engle, C.R. 2008. The role of economics in U.S. Aquaculture Policy. Invited presentation. Annual Meeting, American Association of Agricultural Economists. Orlando, Florida. July 27-30.

Faruque, G., J.A. Young, M. Dey and D.C. Little. 2008. Aquaculture benefits the poor- a case study from Bangladesh. World Aquaculture Society, Busan, Korea, May 19-23.

Getchis, T.S., D. Cline, D. Fornshell, G. Jensen, A. Lazur, M. Mayeaux, K. Naughten, P. Olin, J. Steeby, J. Szyper, N. Stone, L. Tiu and D. Webster. 2008. USDA-NOAA national aquaculture steering committee. Aquaculture America, Annual Meeting of the U.S. Aquaculture Society, Orlando, Florida. Poster Presentation.

Goodwin, A.E. 2008. The Arkansas bait and ornamental fish health certification program. Annual Meeting of the U.S. Aquaculture Society, Orlando, FL. February 9-12.

Goodwin, A.E. 2008. Shipping fish under the VHS Federal Rule. Annual Meeting of the U.S. Aquaculture Society, Orlando, FL. February 9-12.

Goodwin, A.E. 2008. Compressing narrated powerpoint slide shows using Impatica. Annual Meeting of the U.S. Aquaculture Society, Orlando, FL. February 9-12.

Goodwin, A.E. 2008. Catfish, VHS and the APHIS emergency order. Annual Meeting of Catfish Farmers of America, San Diego, CA. February 29.

Goodwin, A.E., G. Merry and E. Marecaux. 2008. The goldfish herpesvirus: is it as important in goldfish as the koi herpesvirus (KHV) is in koi? Annual Meeting of the U.S. Aquaculture Society, Orlando, FL. February 9-12.

Goodwin, A.E., G. Merry and E. Marecaux. 2008. Studies of goldfish herpes virus (CyHV-2) epidemiology: Insights into the biology and future of KHV. International Workshop on CyHV-3 (KHV), Caesarea, Israel. February 17-18.

Goodwin, A. and N. Stone. 2008. The Arkansas Department of Agriculture Bait and Ornamental Fish Certification Program: an example of proactive producers. Annual Meeting of the U.S. Aquaculture Society, Orlando, Florida.

Goodwin, A.E. 2008. New insights into the epidemiology of VTC. Annual Meeting of the AFS-FHS, Charlottetown, PEI, Canada. July 9-12.

Goodwin, A.E. 2008. Top 10 things that must be in every good fish health regulation. Annual Meeting of the AFS-FHS, Charlottetown, PEI, Canada. July 9-12.

Goodwin, A.E. 2008. KHV 101. Annual Meeting of the AVMA, New Orleans, LA. July 19-21.

Goodwin, A.E. 2008. The Arkansas bait and ornamental fish certification program. AFWA. Saratoga, NY. September 9-11.

Green, C.C. and A. Kelly. 2008. Effects of phytoestrogens on sensitive life history stages in channel catfish Ictalurus punctatus: what three years of research reveals. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society, Orlando, FL.

Heikes, D. 2008. Preparing fish for the long haul. Annual Meeting of the U.S. Aquaculture Society, Orlando, Florida.

Heikes, D. 2008. Options for grading hybrid catfish. Annual Meeting of the U.S. Aquaculture Society, Orlando, Florida.

Horne, J.R. and S.E. Lochmann. 2008. Effects of a summer high water event on young of the year largemouth bass in the Arkansas River. American Fisheries Society National Meeting, Ottawa, Ontario, August.

Kumar, G. and C. Engle. 2008. Comparative production study of NWAC 103 strain catfish and channel-blue hybrids. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society. Orlando, Florida.

Kumar, G., C. Engle and K. Quagrainie. 2008. A logit analysis of farm-raised catfish preferences at the household level in selected U.S. cities. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society, Orlando, Florida.

Li, C.O., M.M. Dey, P. Kumar, A. Khan, L. Li, N. K. Barik, Y. Dewita, A. Nissapa and P.N. Sao. 2008. Impact of genetically improved carp strains in selected Asian countries. World Aquaculture Society, Busan, Korea, May 19-23.

Lihono, M.A. 2009. Nutrition "calcium fortified foods," Rural Life Conference, UAPB.

Lihono, M.A. 2008. Survey of the Effect of Feeding Yogurt Containing Probiotics Among Preschoolers in Pine Bluff, Dollarway School District Pre Kindergarten and Kindergarten Open House.

Lochmann, R., T.Sink, H. Phillips and F. Bearden. 2008. Effects of a prebiotic, lipid concentration, and protein source on performance of golden shiner (Notemigonus crysoleucas) in outdoor pools. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society, February 9-12, Lake Buena Vista, Florida.

Lochmann, R., T. Sink, N. Kinsey and E. Marecaux. 2008. Effects of a dietary prebiotic on performance of golden shiners in ponds. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society, February 9-12, Lake Buena Vista, Florida.

Lochmann, R.T., N. Stone, A. Kachowski and A. Gannam. 2008. Effects of diets with and without fish meal and feeding frequency on the growth of juvenile golden shiners. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society, February 9-12, Lake Buena Vista, Florida.

Lochmann, R.T., T. Sink and R.Chen. 2008. Effects of soybean, menhaden, and flaxseed oil in a commercial diet on the growth, feed utilization, and health of channel catfish reared to market size at 22ºC. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society, February 9-12, Lake Buena Vista, Florida.

Lochmann, R., M.A. Lihono, J. Koo, T. Sink and R. Chen. 2008. Effects of soybean, menhaden, and flaxseed oil in a commercial diet on performance and shelf-life of channel catfish reared to market size at 22˚C. AEA/ARD Land Grant Conference, Memphis Convention Center, Memphis, Tennessee, June 8-11.

Lochmann, S.E., K.J. Goodwin, M. McEntire and A. Fuller. 2008. Maternal and paternal influences on larval production characteristics of white bass. World Aquaculture 2008, Busan, South Korea, May 19-23.

Lochmann, S.E., K.J. Goodwin, M. McEntire and A. Fuller. 2008. Maternal and paternal influences on larval production characteristics of white bass. American Fisheries Society National Meeting, Ottawa, Ontario, August.

Ludwig, G.M, and S.E. Lochmann. 2008. Production of sunshine bass fingerlings in tanks without using rotifers. World Aquaculture 2008, Busan, South Korea, May 19-23.

Ludwig, G.M, and S.E. Lochmann. 2008. Production of sunshine bass fingerlings in tanks without using rotifers. American Fisheries Society National Meeting, Ottawa, Ontario, August.

M. Manoharan, A. Todd, K. Melamaiee, A. Russo , P. McClean , J. Schlueter , S. Jackson, R. Lee, and V. Kalavacharla. 2009. Progress In BAC Contig Development For The Ur-3 Rust Resistance Locus In Common Bean (Phaseolus vulgaris). Plant & Animal Genome XVII Conference, San Diego, California.

M. Manoharan. 2009. Metabolic engineering of isoflavone in rice. Association of Research Directors. 15th Biennial Research Symposium, Atlanta.

N.N. Renukdas, M. Manoharan and J.O. Garner. 2009. In Vitro plant regeneration of pecan [Carya illinoinensis (Wangenh.) K. Koch]. Association of Research Directors 15th Biennial Research Symposium, Atlanta.

Nanninga, A.S. and C. Engle. 2008. Winter feeding of channel catfish in multiple-batch production. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society, Orlando, Florida.

Paver, A. and N. Stone. 2008. Effect of fry stocking density on production of rosy red fathead minnows in pools. Aquaculture America, Annual Meeting of the U.S. Aquaculture Society, Orlando, FL.

Paver, A. and N. Stone. 2008. Controlling fungus during jar incubation of rosy red fathead minnow eggs. Poster presentation, American Fisheries Society Annual Meeting, Ottawa, Canada, August 17-21.

Pemsl, D.E., M.M. Dey and M.L. Bose. 2008. The role of aquaculture for development and the implications of developmental status for aquaculture. World Aquaculture 2008, Busan, South Korea, May 19-23.

Peng, Li, T. Sink, B. Ray, R. Chen, R. Lochmann, and D.M. Gatlin III. 2008. Effect of handling and transport on cortisol response and nutrient mobilization of golden shiner, Notemigonus crysoleucas. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society, February 9-12, Lake Buena Vista, Florida.

Pomerleau, S. 2008. Putting together a business plan. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society, Lake Buena Vista, Florida, February 9-12.

Pugliese, N., D. Heikes and C. Engle. 2008. Evaluation of a single-batch production scenario for channel catfish Ictalurus punctatus within a confinement system. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society, Orlando, Florida.

Sink, T., D., R.T. Lochmann and S. Kumaran. 2008. Development of a whole-body cortisol extraction procedure for determination of stress in golden shiners Notemigonus crysoleucas. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society, February 9-12, Lake Buena Vista, Florida.

Sink, T.D. and R.T. Lochmann. 2008. Growth and mortality of channel catfish Ictalurus punctatus fry fed diets containing 36% or 45% all-plant proteins versus standard diets containing 36% or 45% animal and plant proteins. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society, February 9-12, Lake Buena Vista, Florida.

Sink, T.D. and R.T. Lochmann. 2008. Effect of dietary lipid source and concentration on channel catfish egg and fry production, survival, biochemical composition, and physiological quality. Aquaculture America, Annual Meeting of the U.S. Aquaculture Society, February 9-12, Lake Buena Vista, Florida.

Sink, T.D. and R.T. Lochmann. 2008. Validation, use and disadvantages of enzyme-linked immunosorbent assay kits for detection of cortisol in channel catfish, largemouth bass, red pacu, and golden shiners. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society, February 9-12, Lake Buena Vista, Florida.

Thomforde, H. 2008. Live transport of bait and ornamental fish from Arkansas. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society, Orlando, Florida.

Thomforde, H. 2008. Arkansas' most unwanted: channeled apple snail. Invasive aquatic nuisance species. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society, Orlando, Florida.

Thompson, M. and R. Lochmann. 2008. The effects of Grobiotic-A® on the growth and health of channel catfish Ictalurus punctatus fry in aquaria. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society, February 9-12, Lake Buena Vista, Florida.

Thompson, M., T. Sink and R. Lochmann. 2008. The effects of Grobiotic-A® on the growth and health channel catfish Ictalurus punctatus fry in aquaria. AEA/ARD Land Grant Conference, Memphis Convention Center, Memphis, Tennesse, June 8-11.

Timmons, B.A., C.C. Green and A.M. Kelly. 2008. Snail consumption and preference by redear sunshine Lepomis microlophus and redear sunfish ♂x warmouth L. gulosus ♀ hybrid. Aquaculture America 2008, Annual Meeting of the U.S. Aquaculture Society, Orlando, Florida.

Weldon, D., R. Lochmann, R. Chen, A. Goodwin and S. Rawles. 2008. Effects of vitamin C on the growth and health of largemouth bass Micropterus salmoides. AEA/ARD Land Grant Conference, Memphis Convention Center, Memphis, Tennessee, June 8-11.

Will, L.A. and S.E. Lochmann. 2008. Fish assemblages on gravel bars in the Arkansas River. American Fisheries Society National Meeting, Ottawa, Ontario, August.

Presentation at Regional Meetings

Adelsberger, C. and J.W. Neal. 2008. Comparison of larval sampling techniques in two Puerto Rico river mouths. Joint Annual Meeting of the Arkansas and Mississippi Chapters of the American Fisheries Society. Tunica, MS, February 20-22.

Adelsberger, C. and J.W. Neal.

2008. Larval sampling in freshwater systems in Puerto Rico. Southern Division of the American Fisheries Society Mid-Year Meeting. Wheeling, WV, February 27 – March 2.

English, Henry. 2008. "Minimizing Risk in Farming." 10th Annual Small Farm Conference, Oklahoma Black Historical Research Project, Inc. Wewoka, OK

Fontaine, B.V., C.P. Hutt, B.G. Batten, J.W. Neal and M.A. Eggleton. 2008. Assessment of exploitation patterns of largemouth bass Micropterus salmoides in the lower Arkansas River. Joint Annual Meeting of the Arkansas and Mississippi Chapters of the American Fisheries Society. Tunica, MS, February 20-22.

Goodwin, A.E. 2008. The Arkansas bait and ornamental fish certification program. Meeting of the Joint Mississippi Valley and Great Lakes Fisheries Commission ANS Task Force, Milwaukee, WI, June 16-18.

Heikes, D. 2008. Options for grading hybrid catfish. Texas Aquaculture, 2008. El Campo, TX.

Horne, J.R. and S.E. Lochmann. 2008. Effects of a summer high water event on young of the year largemouth bass in the Arkansas River. Southern Division of the American Fisheries Society, Wheeling, West Virginia, February 28 – March 2.

Hutt, C.P. and J.W. Neal. 2008. Harvestable hybrid striped bass stocking in an urban fishing program: fishing success, angler acceptance, and influence on pond prey communities. Joint Annual Meeting of the Arkansas and Mississippi Chapters of the American Fisheries Society. Tunica, MS, February 20-22.

Hutt, C.P. and J.W. Neal. 2008. Evaluation of the Arkansas Hooked on Fishing, Not on Drugs (HOFNOD) Program. Southern Division of the American Fisheries Society Mid-Year Meeting. Wheeling, WV, February 27 – March 2.

Hutt, C.P. and J.W. Neal. 2008. Harvestable hybrid striped bass stocking in an urban fishing program: fishing success, angler acceptance, and influence on pond prey communities. Southern Division of the American Fisheries Society Mid-Year Meeting. Wheeling, WV, February 27 – March 2.

Ludwig, G.M. and S.E. Lochmann. 2008. Tank production of sunshine bass fingerlings using Artemia from microcysts. Southern Division of the American Fisheries Society, Wheeling, West Virginia, February 28 – March 2.

Neal, J.W., M.A. Eggleton and A.E. Goodwin. 2008. The effects of largemouth bass virus on a quality largemouth bass population in Arkansas. Joint Annual Meeting of the Arkansas and Mississippi Chapters of the American Fisheries Society. Tunica, MS, February 20-22.

Ntamatungiro, S. 2008. Evaluation of seven cucumber entries for adaptation in Southern Arkansas. Vegetable Trials Review Meeting. Leland, Mississippi.

Paver, A. and N. Stone. 2008. Effects of fry stocking density on the production of rosy red fathead minnows in pools. Southern Division American Fisheries Society Meeting, Wheeling, WV.

Will, L.A., and S.E. Lochmann. 2008. Fish assemblages on gravel bars in the Arkansas River. Southern Division of the American Fisheries Society, Wheeling, West Virginia, February 28 – March 2.

Presentation at State Meetings

Batten, B.G., M.A. Eggleton and S.E. Lochmann. 2008. Population dynamics of black bass Micropterus spp. in the lower Arkansas River. Arkansas and Mississippi Chapters of the American Fisheries Society, Tunica, MS.

Fontaine, B.V., C.P. Hutt, B.G. Batten, J.W. Neal and M.A. Eggleton. 2008. Assessment of exploitation on patterns of largemouth bass in the lower Arkansas River. Arkansas and Mississippi Chapters of the American Fisheries Society, Tunica, MS.

Goodwin, A.E. 2008. Biosecurity for hatcheries. Minnesota and Wisconsin hatchery personnel, Osceola, WI. August 7.

Goodwin, A.E. 2008. The Arkansas bait and ornamental fish certification program. Minnesota and Wisconsin hatchery personnel, Osceola, WI. August 7.

Horne, J.R. and S.E. Lochmann. 2008. Effects of a summer high water event on young of the year largemouth bass in the Arkansas River. Mississippi – Arkansas Chapter Meeting of the American Fisheries Society, Tunica, Mississippi, February 20-22.

Ludwig, G.M. and S.E. Lochmann. 2008. Tank production of sunshine bass fingerlings using Artemia from microcysts. Mississippi – Arkansas Chapter Meeting of the American Fisheries Society, Tunica, Mississippi, February 20-22.

Ntamatungiro, S. 2008. Cooperation, information, and technology transfer. Arkansas Soil Survey Work Planning Conference. Conway, Arkansas.

Paver, A. and N. Stone. 2008. Effects of fry stocking density on the production of rosy red fathead minnows in pools. Arkansas and Mississippi Joint Chapter American Fisheries Society Meeting. Tunica, MS.

Will, L.A. and S.E. Lochmann. 2008. Fish assemblages on gravel bars in the Arkansas River. Mississippi – Arkansas Chapter Meeting of the American Fisheries Society, Tunica, Mississippi, February 20-22.

Presentation at Symposia

Adelsberger, C. 2008. Comparison of larval sampling techniques in two Puerto Rico river mouths. Twenty-first annual student/faculty research forum. University of Arkansas at Pine Bluff. March 12-13.

Duke, C.B. 2008. Importance of counting eggs in the hatchery. Twenty-first annual student/faculty research forum. University of Arkansas at Pine Bluff. March 12-13.

Eggleton, M.A., J.R. Jackson and B.J. Lubinski. 2008. Multiple-gear assessment of floodplain lake fish assemblages of a large river-floodplain ecosystem. Southeastern River-Floodplain Symposium, Little Rock, AR.

Eklund, P., C. Engle and M. Oliver. 2008. Aquatic nuisance plant species in Arkansas. Twenty-first annual student/faculty research forum. University of Arkansas at Pine Bluff. March 12-13.

Engle, C.R. 2008. Seafood safety. Rural Life Conference, UAPB, February 8.

Goodwin, A.E. 2008. How fish inspections work, the top 10 things that must be in every fish health regulation. Workshop on VHS, Viral Hemorrhagic Septicemia, for marine extension and fish health professionals. URI, Narragansett, RI, October 17.

Goodwin, A.E. 2008. The Arkansas state department of agriculture fish certification program. Gulf and South Atlantic Regional Panel on Aquatic Invasive Species. Savannah, GA, November 9.

Goodwin, A.E. 2008. Biology and politics of the VHS epizootic: all the fund of FMD but underwater. Wisconsin Veterinary Diagnostic Laboratory. Madison, WI, December 11.

Jackson, J.R., M.A. Eggleton and B.J. Lubinski. 2008. Evaluation of minimum-length limits for crappies in a large river-floodplain system. Southeastern River-Floodplain Symposium, Little Rock, AR

Kachowski, A. and N. Stone. 2008. A comparison of in situ and laboratory algal bioassays for determining commercial baitfish pond nutrient requirements. University of Arkansas at Pine Bluff Research Forum.

Kumar, G. and C. Engle. 2008. Estimating the economic value and risk of food fish production of hybrid catfish from fingerlings. Twenty-first annual student/faculty research forum. University of Arkansas at Pine Bluff. March 12-13.

Leao, M.C., E.R. Buckner and M.A. Eggleton. 2008. Patterns in fish community structure and diversity in natural and artificially-created wetlands in the White River, Arkansas. Southeastern River-Floodplain Symposium, Little Rock, AR.

Mandal, A. and C. Engle. 2008. A review of channel catfish production research at UAPB. Twenty-first annual student/faculty research forum. University of Arkansas at Pine Bluff. March 12-13.

Nanninga, A. and C. Engle. 2008. Winter feeding of channel catfish Ictalurus punctatus in multiple-batch production. Twenty-first annual student/faculty research forum. University of Arkansas at Pine Bluff. March 12-13.

Presentations and Scholarly Publications: SAFHS

Paul, B., C. Engle and A. Nanninga. 2008. The effect of varying quantities of large carryover catfish on growth of understocked fingerlings. Twenty-first annual student/faculty research forum. University of Arkansas at Pine Bluff. March 12-13.

Paver, A. Effect of fry stocking density on the production of rosy red fathead minnows in pools. Twenty-first annual student/faculty research forum. University of Arkansas at Pine Bluff. March 12-13.

Sudhakaran, P.O., D. Heikes, C. Engle and S. Pomerleau. 2008. Improved inventory techniques in commercial catfish ponds. Twenty-first annual student/faculty research forum. University of Arkansas at Pine Bluff. March 12-13.

Thompson, M. and R. Lochmann. 2008. The effects of Grobiotic-A® on the growth and health of channel catfish Ictalurus punctatus fry in aquaria. Twenty-First Annual UAPB Research Forum, March 12-13.

Weldon, D., R. Lochmann, R. Chen, A. Goodwin and S. Rawles. 2008. Effects of vitamin C on the growth and health of largemouth bass. Twenty-First Annual UAPB Research Forum, March 12-13, Pine Bluff, AR.

Weldon, D., R. Lochmann, R. Chen, A. Goodwin and S. Rawles. 2008. Effects of vitamin C on the growth and health of largemouth bass Micropterus salmoides. World Aquaculture 2008, Busan Exhibition and Convention Center, Busan, Korea, May 19-23.

Williams, D. 2008. Does selective breeding cause an increase resistance to bacteria cold water disease in rainbow trout (Onchorhynchus mykiss). Twenty-first annual student/faculty research forum. University of Arkansas at Pine Bluff. March 12-13.

Presentation at Producer Association Meetings

Duke, B. 2008. UAPB Aquaculture support in the classroom program. (poster). Catfish Farmers of Arkansas Meeting, Hot Springs, Arkansas. January 31 - February 2.

Duke, B. 2008. Importance of counting eggs in the hatchery. (poster). Catfish Farmers of Arkansas Meeting, Hot Springs, Arkansas. January 31 - February 2.

Duke, B. 2008. UAPB Aquaculture support in the classroom program. (poster). Arkansas Baitfish and Ornamental Fish Growers Association Meeting, Lonoke Arkansas. February 2.

English, Henry. 2008. Knowledge of the Federal Pesticide Record Keeping Program Biennial Field Day, Lonoke, AR.

English, Henry. 2009. Vegetable Recordkeeping. Vegetable Production Meeting in Lee County, Lon
Mann Cotton Research Station.

Glover, Leslie, J. 2008. The importance of agriculture to life in the U. S. Youth Field Day, Agriculture Demonstration and Outreach Center.

Goodwin, A.E. 2008. VHS, inspections, and the federal rule. Texas Aquaculture Association, Bay City, TX. January 18.

Goodwin, A.E. 2008. VHS update. Arkansas Farm Bureau. January 27.

Goodwin, A.E. 2008. VHS update. Catfish Farmers of Arkansas, Hot Springs, AR. February 1.

Goodwin, A.E. 2008. GHV/GHNV, GSV/AGCRV/CGCRV, FHMNV/FHMRV, SVCV, & KHV/CGNV: Controlling acronyms on your farm. Arkansas Bait and Ornamental Fish Growers Association annual meeting, Lonoke, AR. February 7.

Goodwin, A.E. 2008. VHS and other interstate regulations. Arkansas Bait and Ornamental Fish Growers Association annual meeting, Lonoke, AR. February 7.

Goodwin, A.E. 2008. VHS and PhD proposal. Arkansas Farm Bureau Aquaculture Committee Annual Meeting, June 24.

Goodwin, A.E. 2008. VHS interim rule panel. Milwaukee, WI. September 18.

Goodwin, A.E. 2008. VHS, State regulations, and the interim rule. CFA, November 11.

Handcock, Julius. 2008. Establishing Native Grasses for Wildlife Habitat. East Arkansas Enterprise
Community. Forest City, AR

Heikes, D. 2008. Catfish marketing panel discussion. Catfish Farmers of Arkansas Annual Meeting, Hot Springs, AR.

Kelly, A.M. 2008. Snail control. Presentation at the Arkansas Ornamental and Baitfish Growers Association Annual Meeting, Lonoke, AR, February 7.

Kumaran, S. and A.M. Kelly. 2008. Overview of cases submitted from 2003-2007 to the UAPB Diagnostic Laboratory in Lonoke. Poster at the Arkansas Ornamental and Baitfish Growers Association Annual Meeting, Lonoke, AR, February 7.

Lochmann, R., T. Sink and H. Phillips. 2008. Effects of a dairy-yeast prebiotic on performance of golden shiner in tanks, pools and ponds. Arkansas Bait and Ornamental Fish Grower's Association Meeting, Lonoke, AR February 7.

Lochmann, R. 2008. Use of lower-protein feed for channel catfish. Catfish Feeding Strategies meeting, Lake Village, March 11.

Melandri, M., N. Stone and R. Lochmann. 2008. Effects of temperature on the growth of golden shiners in aquaria. Arkansas Bait and Ornamental Fish Growers Association meeting, Lonoke, AR, February 7. Poster Presentation.

Njue, Obadiah. 2008. Fall gardening. Lewisville – Texarkana, AR 8 attended.

Njue, Obadiah. 2008. Horticulture for the young. Brinkley AR. 21 attended

Njue, Obadiah. 2008. Organic gardening: a demonstration. UAPB Farm, Lonoke, AR. 55 attended.

Njue, Obadiah. 2008. Small space gardening. Lakeside United Methodist
Church, Pine Bluff, AR. 7 attended

Njue, Obadiah. 2008. Small space gardening. White Hall, AR. 15 attended

Njue, Obadiah. 2009. Alternative crops for small farm diversification. UAPB Rural Life Conference. 55 attended.

Njue, Obadiah. 2009. Basic botany. Master Gardeners Training. Pine Bluff AR. 42 attended.

Njue, Obadiah. 2009. Community gardening. Community Gardeners. Ft. Smith, AR. 9 attended.

Njue, Obadiah. 2009. Cool season and warm season vegetable production. Master Gardeners Training. Crawfordsville, AR. 21 attended.

Njue, Obadiah. 2009. Fertilizer application for peas, sweet potatoes, squash, and okra. Lee County vegetable meeting. Marianna AR. 24 attended.

Njue, Obadiah. 2009. Garden Basics. Tri-County Community Coalition. Pine Bluff AR. 13 attended.

Njue, Obadiah. 2009. Good agricultural practices. Small Scale Farmer Training. Marianna, AR. 30 attended.

Njue, Obadiah. 2009. Horticulture for the young. Young Scholars. Brinkley, AR. 52 attended.

Njue, Obadiah. 2009. Small fruit production and fruit tree production. Lee and Phillips Counties . Marianna, AR. 32 attended.

Njue, Obadiah. 2009. Small Fruit Pruning. UAPB farm, Pine Bluff AR. 16 attended.

Njue, Obadiah. 2009. Warm Season Vegetables. Lee Count Master Gardeners. Marianna AR. 38 attended

Njue, Obadiah. 2009. Young Scholar's Families. Brinkley AR. 13 attended

Paver, A.N. and N. Stone. 2008. Effect of fry stocking density on the production of rosy red fathead minnow in pools. Arkansas Bait and Ornamental Fish Growers Association meeting, Lonoke, AR, February 7. Poster presentation.

Selden, G. 2008. Sonar for duckweed control in Madison County, AR. Aquaculture Arkansas, Hot Springs, AR, January 31 – February 2.

Stone, N., A. Kachowski, H. Thomforde and G. O'Neal. 2008. What's in your well water? Arkansas Bait and Ornamental Fish Growers Association Meeting, Lonoke, AR, February 7. Poster presentation.

Thompson, M., T. Sink, R. Chen and

R. Lochmann. 2008. The effects of a dairy-yeast prebiotic on the growth and health of channel catfish fry. Arkansas Aquaculture Meeting, February 1, Hot Springs, AR.

Presentation at Producer Meetings

Dey, M.M., K. Singh and C. Engle. 2008. Pond bank prices of catfish and processor slaes volumes. Abstract. Aquaculture Field Day, UAPB, Pine Bluff, Arkansas.

Dorman, L. and A.E. Goodwin 2008. The catfish trematode in Arkansas, year 2. Poster. UAPB Field Day, October 2.

Engle, C.R. 2008. Catfish industry in China. Alabama Catfish Industry Update Meeting. Demopolis, Alabama. March 17.

Engle, C.R. 2008. Stocking and feeding rates and farm costs with high feed prices. Catfish producer meeting, Lake Village, AR. March 11.

Engle, C.R. 2008. Stocking and feeding rates and farm costs with high feed prices. Catfish producer meeting, Jonesboro, AR. March 13.

Engle, C.R. 2008. Channel catfish farming in China. Alabama Fish Farming Federation, annual meeting, Birmingham, Alabama. February 5.

Engle, C.R. 2008. UAPB Aquaculture/ Fisheries Center. Arkansas Aquafarming 2008, annual meeting of the Catfish Farmers of Arkansas, Hot Springs, Arkansas. February 2.

Engle, C.R. 2008. The China Catfish Industry. Catfish Farmers of America 2008 Convention. San Diego, California.

Engle, C.R. 2008. Channel catfish farming in China. Arkansas Aquaculture Division, Farm Bureau, Little Rock, AR.

Engle, C.R. 2008. Ph.D. proposal. Arkansas Aquaculture Division, Farm Bureau, Little Rock, AR.

Engle, C.R., D. Heikes and S. Pomerleau. 2008. How do I manage my farm with high feed prices? Poster presentation at Arkansas Aquaculture 2008, annual meeting of the Catfish Farmers of Arkansas, Hot Springs, Arkansas. January 30-February 2.

Engle, C.R., D. Heikes and S. Pomerleau. 2008. How do I manage my farm with high feed prices? Poster presentation at The Catfish Farming Trade Show, Greenville, Mississippi. February 7.

Engle, C.R. 2008. Developing niche markets for small-scale aquaculture. Keynote Luncheon Speaker, Virginia State University 21st Annual Aquaculture Field Day, Petersburg, Virginia. October 23.

Engle, C.R. 2008. Cooperatives: Keys to success. Invited speaker. Virginia Aquaculture Network, Petersburg, Virginia. October 23.

Engle, C.R., N. Stone and L. Dorman. 2008. Feeding vs. fertilization for baitfish farming; which is more profitable when feed prices are high? Poster. UAPB Field Day, October 2.

Engle, C.R. and G. Kumar. 2008. What is the breakeven price of hybrid catfish fingerlings? Abstract. Aquaculture Field Day, UAPB, Pine Bluff, Arkansas.

Engle, C. and A. Nanninga. 2008. Preventing winter weight loss in catfish: hunger is not seasonal. Abstract. Aquaculture Field Day, UAPB, Pine Bluff, Arkansas.

Goodwin, A.E. 2008. VHS, inspections and the federal rule. Langston Aquaculture Field Day, Langston University, Stillwater, OK.

Goodwin, A.E. 2008. Fish inspection: how it works in the post-VHS world. VHS Workshop. Rend Lake, IL, April 26.

Goodwin, A.E. 2008. The Arkansas bait and ornamental fish certification program. VHS Workshop. Rend Lake, IL, April 26.

Goodwin, A.E. 2008. Biosecurity for earthen pond aquaculture. Columbus, OH. August 23.

Goodwin, A.E. 2008. The Arkansas bait and ornamental fish certification program. Columbus, OH. August 23.

Goodwin, A.E. 2008. Toxicosis of catfish (VTC) new discoveries from Spring 2008. UAPB Aquaculture/ Fisheries Field Day, October 2.

Goodwin, A.E. 2008. Hot to comply with changing state fish health regulations. Lonoke, AR, October 10.

Goodwin, A.E. 2008. The VHS interim rule. Lonoke, AR, October 10.

Goodwin, A.E. 2008. Protecting your farm and shipping your fish in the post-VHS world. Understanding fish health regulations and successfully negotiating with regulators. Wisconsin Veterinary Diagnostic Laboratory. Madison, WI, December 11.

Heikes, D. 2008. Options for fish grading. Mid-Continent Workshop of Game and Fish Agencies, Mount Magazine State Park, Paris, AR.

Heikes, D. 2008. Catfish aquaculture in China program. Delta Supreme, Dumas, AR.

Heikes, D. 2008. Efficient management of catfish operations. Financial Workshop, Lake Village, AR.

Heikes, D. 2008. . Efficient management of catfish operations. Financial Workshop, Jonesboro, AR.

Heikes, D. 2008. Demonstration of new flexible panel grading system, Aquaculture/Fisheries Field Day, October 2.

Kumaran, S., S. Pomerleau, T. Sink and R. Lochmann. 2008. Prebiotics in baitfish feed: are they worth the money? Aquaculture/Fisheries Field Day, October 2. University of Arkansas at Pine Bluff.

Omana, P., B. Southworth and C. Engle. 2008. Does harvesting and grading catfish more frequently improve overall production? Abstract. Aquaculture Field Day, UAPB, Pine Bluff, Arkansas.

Paul, B., C. Engle and A. Nanninga. 2008. Determining the amount of large carryover fish that depress growth of understocked fingerlings. Arkansas Aquaculture 2008, annual meeting of the Catfish Farmers of Arkansas, Hot Springs, Arkansas. February 2.

Paver, A.N., and N. Stone. 2008. Controlling fungus during jar incubation of rosy red fathead minnow eggs. Poster. Aquaculture/ Fisheries Field Day, University of Arkansas at Pine Bluff, October 2.

Paver, A.N. and N. Stone. 2008. Effect of fry stocking density on the production of rosy red fathead minnows in pools. Abstracts, Aquaculture/Fisheries Field Day, University of Arkansas at Pine Bluff, October 2.

Paver, A.N. and N. Stone. 2008. Substrate preference of the rosy red fathead minnow. Abstracts, Aquaculture/Fisheries Field Day, University of Arkansas at Pine Bluff, October 2.

Pomerleau, S. 2008. Stretching your feed dollars. Catfish Farmer Meeting: Managing your farm with high feed prices. Lake Village, AR, March 11.

Pomerleau, S. 2008. Stretching your feed dollars. Catfish Farmer Meeting: Managing your farm with high feed prices. Jonesboro, AR, March 13th.

Pomerleau, S. 2008. Can more catfish and baitfish be produced with more aeration? Results of commercial pond trials. Aquaculture/Fisheries Field Day, October 2. University of Arkansas at Pine Bluff.

Pomerleau, S. 2008. Electric rates in the catfish industry. Poster. Aquaculture/Fisheries Field Day, October 2. University of Arkansas at Pine Bluff.

Nanninga, A. and C. Engle. 2008. Determining the amount of large carryover fish that depress growth of understocked fingerlings. Poster presented at Arkansas Aquaculture 2008, annual meeting of the Catfish Farmers of Arkansas, Hot Springs, Arkansas. February 2.

Nanninga, A. and C. Engle. 2008. Winter feeding of channel catfish Ictalurus punctatus in multiple-batch production. Poster presentation at Arkansas Aquaculture 2008, annual meeting of the Catfish Farmers of Arkansas, Hot Springs, Arkansas.

Selden, G. 2008. Use of lower protein feed for channel catfish. Catfish Producer Program, Jonesboro, AR, March 13.

Stone, N. 2008. The state of Arkansas department of agriculture bait and ornamental fish certification program. Great Lakes Commission, Aquatic Invasive Species Workshop II, Proposed Projects to Advance Management of Organisms in Trade, Ann Arbor-Ypsilanti, MI, December 4.

Stone, N. 2008. From the pond to the gas tank: algae and biofuels. Aquaculture/Fisheries Field Day, University of Arkansas at Pine Bluff, October 2.

Stone, N., A. Kachowski and H. Thomforde. 2008. Nitrogen and phosphorus concentrations required to initiate plankton blooms in commercial catfish ponds. Abstracts, Aquaculture/Fisheries Field Day, University of Arkansas at Pine Bluff, October 2.

Stone, N., A. Kachowski, H. Thomforde and G. O'Neal. 2008. What's in your well water? Abstracts, Aquaculture/ Fisheries Field Day, University of Arkansas at Pine Bluff, October 2.

Stone, N., I. Masson and G. O'Neal. 2008. Comparison of golden shiner yields from feeding corn gluten feed or commercial fish feed. Abstracts, Aquaculture/Fisheies Field Day, University of Arkansas at Pine Bluff, October 2.

Stone, N., M. Melandri and G. O'Neal. 2008. Growth of fed golden shiners in aquaria supplied with size-fractionated natural foods. Abstracts, Aquaculture/Fisheries Field Day, University of Arkansas at Pine Bluff, October 2.

Thomforde, H. 2008. Pithophora control methods. Lonoke Aquaculture Workshop, Lonoke, AR, February 7.

Thomforde, H. 2008. pH and bloom density. Lonoke Aquaculture Workshop, Lonoke, AR, February 7.

Thomforde, H. 2008. Appropriate methods to achieve even coverage with liquid chemical applications. Aquaculture/Fisheries Field Day, University of Arkansas at Pine Bluff, October 2.

C. Other Professional Papers and Oral Presentations

7. Poster and Paper Presentations

Buckner, E.R. and L. Hairston. 2008 An Assessment of Storm Water Runoff Issues in Pine Bluff, White Hall the University of Arkansas at Pine Bluff (UAPB) and Jefferson County Rural Life Conference, University of Arkansas at Pine Bluff, Pine Bluff, AR, October, 2008, Poster Presentation.

Buckner, E.R. and L. Hairston. 2008 Utilization of Water Lilies for Cut Flower Production. University of Arkansas at Pine Bluff, Pine Bluff, AR, October, 2008, Poster Presentation.

Duke, B. 2008. UAPB Aquaculture support in the classroom program. (poster). UAPB Rural Life Conference, UAPB. February, 2008.

Duke, B. 2008. Importance of counting eggs in the hatchery. UAPB Research Forum, UAPB. March 12-13.

Duke, B. 2008. UAPB Aquaculture support in the classroom program. UAPB Research Forum, March 12-13.

Engle, C.R. 2008. Strategies and recommendations, ANS Task Force, Little Rock, AR. January 15.

Engle, C.R. 2008. Catfish in China, AFC Club, UAPB. January 16.

Engle, C.R. 2008. UAPB Aquaculture/ Fisheries Center. American Business Women's Association, Pine Bluff, Arkansas. March 4.

Engle, C.R. 2008. The National Aquaculture Association, UAPB, and Pine Bluff. Downtown Rotary Club, Pine Bluff. August 19.

Engle, C.R. 2008. Update on proposal for Ph.D. degree in Aquaculture/ Fisheries, to SAFHS Faculty/Staff meeting, UAPB.

Engle, C.R. 2008. Aquaculture/ Fisheries Center Overview. High School Teacher In-Service Training. July 9, UAPB.

Engle, C.R. 2008. Briefing to FSIS (USDA) on production practices for basa/tra in Vietnam and catfish in China. December 5.

Engle, C.R. 2008. Briefing to House Agriculture Committee staffers on production practices for basa/tra in Vietnam and catfish in China. December 8.

Haukenes, A. 2008. Fish physiology for dummies. UAPB Aquatic Sciences Day. September 18.

Heikes, D. 2008. Hybrid catfish grading demonstration. Hickle Farm, El Campo, TX.

Heikes, D. 2008. Trade show booth and grading equipment demonstration. Fish Farming Trade Show, Greenville, MS.

Heikes, D. 2008. Water garden presentation. Master Gardener Training, Camden, AR.

Heikes, D. 2008. Water garden presentation. Master Gardener Training, Hot Springs, AR.

Heikes, D. 2008. Water gardening. Presentation and Demonstration. Master Gardeners Program, Nature Center, Pine Bluff, AR. April 30.

Heikes, D. 2008. Hybrid catfish grading. Demonstration. Alice Sydney Farm, Jerome, AR. June 4.

Heikes, D. 2008. Hybrid catfish grading. Demonstration. Kyser Farm, Demopolis, AL. June 9.

Heikes, D. 2008. Demonstration of flexible panel grading system. Dumas, AR, November 3.

Heikes, D. 2008. Water garden program for Cleburne County Master Gardens. November 18.

Heikes, D. 2008. Water garden program for Clark County Master Gardens. December 1.

Islam, M. S. 2008. June 8-11, Joint 1890 AEA/ARD Land-Grant Conference, Memphis, TN. Physiological functions of biologically active compounds isolated from Ipomoea batatas leaves.

Jalalludin, M. D. 2009. 9. Phenotypic variability in hot pepper (Capsicum annum L.) breeding lines, presented in the SAAS meetings in Horticulture Section held in Atlanta, GA, Jan 31 – Feb 2, 2009

Jalalludin, M. D. 2008. Recruitment and Retention Pipeline: A decade of practice at the University of Arkansas at Pine Bluff, AEA/ARD Land Grant Conference, Memphis, TN: June 8-11, 2008.

Jalaluddin, M., N. Hettiarachchy, and S. Islam. 2008 Functional Food Characteristics of cowpea. Fifth International Crop Science Congress in South Korea, April 13-19, 2008.

Kelly, A.M. and D. Haynes. 2008. Listening to electric fish and the R2 fish school-teaching your fish tricks. Aquatic Sciences Day, UAPB.

Lihono, M.A, Aubrey Mendonca, Bledar Bisha, and LaTanya Bankston. 2008. Efficacy of selected probiotic cultures to inhibit food pathogens in model reconstituted dairy products. Annual INBRE Meeting, Fayetteville, AR.

Lihono, M. A., Mendonca, A., Bisha, B., Bankston, L, and Boyston, T. 2009. Efficacy of selected probiotic cultures to inhibit food pathogens in model reconstituted dairy products. Poster #P246. 2009 Association of Research Directors, Atlanta, GA.

Lihono, M., U. Adamu, and F. E. Stigger. 2008. Survey of the Effect of Feeding Yogurt Among Preschoolers from minority households. Annual Rural Life Conference, University of Arkansas at Pine Bluff, Pine Bluff, Arkansas.

Lochmann, R., N. Pugliese, D. Heikes and C. Engle. 2008. Corn gluten and other alternative feeds. Pond demonstration. UAPB Aquaculture/ Fisheries Field Day, October 2.

Okiror, L. O., U. Adamu, and M. Jallaludin. 2009. Recruitment and retention pipeline: a decade of practice at the University of Arkansas at Pine Bluff. Pine Bluff, AR.

Park, Y., I. 2008. Juvenile hormone titers during embryogenesis in the Formosan subterranean termite coptotermes formosanus. Arkansas Entomological Society Conference. Fayetteville, AR.

Pomerleau, S. 2008. Water quality. High School Teachers Water Quality Workshop, UAPB Aquaculture Research Station. Demonstration, July 9-11.

Pomerleau, S. 2008. Water quality and chemistry. UAPB Ag-Discovery Program. UAPB Aquaculture Research Station. Demonstration, July 21.

Pomerleau, S. 2008. Water quality and chemistry. UAPB Aquatic Science Day, UAPB Aquaculture Research Station. Demonstration, September 18.

Selden, G. 2008. Aquatic weeds. Educational inservice for teachers in Randolph County. July 17.

Sink, T.D., R.T. Lochmann and N.R. Kinsey. 2008. Growth and survival of channel catfish, Ictalurus punctatus, fry fed diets with 36 or 45% total

protein and all-plant or animal-protein sources. Poster. UAPB Aquaculture/ Fisheries Field Day, October, 2.

Sink, T.D. and R.T. Lochmann. 2008. Effects of dietary lipid source and concentration on channel catfish (Ictalurus punctatus) egg biochemical composition, egg and fry production, and egg and fry quality. Poster. UAPB Aquaculture/Fisheries Field Day, October 2.

Sink, T.D., R.T. Lochmann, A. Buentello and D.M. Gatlin, III. 2008. Effects of dietary protein source and protein lipid source interaction on channel catfish (Ictalurus punctatus) egg biochemical composition, egg and fry production, and egg and fry quality. Poster. UAPB Aquaculture/ Fisheries Field Day, October 2.

Sink, T.D., S. Kumaran and R. Lochmann. 2008. Development of a whole-body cortisol extraction procedure for determination of stress in golden shiners, Notemigonus crysoleucas. Poster. UAPB Aquaculture/Fisheries Field Day, October 2.

Sink, T.D., R.T. Lochmann and K. Fecteau. 2008. Validation, use, and disadvantages of enzyme-linked immunosorbent assay kits for detection of cortisol in channel catfish, largemouth bass, red pacu, and golden shiners. Poster. UAPB Aquaculture/Fisheries Field Day, October 2.

Stone, N. 2008. Barley straw, grass carp, tilapia and other biological controls. Aquatic Plant Management In-Service, UAPB. May 15.

Stone, N. 2008. Oxygen and aeration. Presentation and lab for high school teachers, Agri-Science Teacher In-Service, UAPB, July 10.

Thompson, M., T. Sink, R. Chen and R. Lochmann. 2008. The effects of a dairy-yeast prebiotic on the growth and health of channel catfish fry. Poster. UAPB Aquaculture/Fisheries Field Day, October 2.

Thompson, M., T. Sink, R. Chen and R. Lochmann. 2008. The effects of soybean oil, flaxseed oil, and a dairy/yeast prebiotic on the growth and health of channel catfish Ictalurus punctatus fingerlings at low temperature. Poster. UAPB Aquaculture/Fisheries Field Day, October 2.

Weldon, D.B., R. Lochmann, R. Chen, A. Goodwin and S. Rawles. 2008. Effect of dietary vitamin C concentration on the growth and health of largemouth bass (Micropterus salmoides). Poster. UAPB Aquaculture/Fisheries Field Day, October 2.

Wheat, Janette R. 2009. The influence of social support on adolescent/ young
fathers' involvement with their children. 22nd Annual Student/ Faculty Research Forum. University of Arkansas at Pine Bluff, Pine Bluff, Arkansas.

Wheat, Janette R. 2009. The influence of social support on adolescent/young
fathers' involvement with their children. Agricultural Research Directors, Research Symposium Atlanta, GA.

School of Arts and Sciences

Abul Kazi. Metal Complexes of Natural Antioxidants as Potential Radioprotective Agents. Part I: Synthesis and Preliminary Evaluation. 16th Annual Arkansas Space Grant Symposium. April 2008.

Antonie Rice. Characterization of Active Transporters of Blood-Brain Barrier. National IDeA Symposium of Biomedical Research Excellence. August 2008.

Mary E. Benjamin. Attracting Underrepresented Minorities to STEM Careers through Partnerships, Curricula Transformation and Federal Funds. Central Arkansas Chapter of Sigma Xi.University of Arkansas at Little Rock
Little Rock, AR. October 2008.

Seyed Taghavi, Charles Colen. Computer Simulation Laboratory Instruction Versus Traditional Laboratory Instruction In Digital Electronics. National Association of Industrial Technology Conference. November 2008.

School of Arts and Sciences

Student Presentations

Benjamin Newton. Small aperture fabrication for quantum dot spectroscopy. HBCU-UP Conference. October 2007.

Benjamin Newton. Isolating a single quantum dot utilizing electron beam lithography Arkansas INBRE Conference. November 2007.

Benjamin Newton. Small aperture fabrication for quantum dot spectroscopy. UAPB Research Forum, March 2008.

Johnmesha Sanders. Characterization of MCT Transporter and P-glycoprotein Subtrates in Bovine Brain Microvessel Endothelial Cells. UAPB Annual Research Forum, March 2008.

Benjamin Newton. Electron Beam Writing for Next Generation Devices. Spring Conference, March 2008.

Benjamin Newton. Small aperture fabrication for quantum dot spectroscopy. Morgan State ISC/ STEM Conference, April 2008.

Benjamin Newton. Electron Beam Writing for Next Generation Devices. Arkansas Academy of Science. April 2008.

Benjamin Newton. Electron Beam Writing for Next Generation Devices. Arkansas Space Grant Consortium, April 2008.

Johnmesha Sanders, Shanika Smith. Characterization of Active Transporter Sysytems at Blood-Brain Barrier. NIH-IDEA, August 2008.

Benjamin Newton. Heat Assisted Writing of Crystalline Nanodots. HBCU-UP Conference, October 2008.

Alvin Barton. The Influences of Artificial Intelligence on Humans. HBCU-UP Conference, October 2008.

Aaron Jones. Humannoid Exploration: Assistive Care Planning with Robosapiens. HBCU-UP Conference, October 2008.

Johnmesha Sanders, Shanika Smith. Characterization of Active Transporters OAT and NaDC at Blood-Brain Barrier. SW Regional American Chemical Society (ACS), October 2008.

Benjamin Newton. Heat Assisted Writing of Crystalline Nanodots. HBCU-UP Conference, November 2008.

Sarah Newton. Biological Nano Particles Using Optical Techniques. HBCU-UP Conference, November 2008.

Sarah Newton. Biological Nano Particles Using Optical Techniques. Arkansas INBRE Conference, November 2008.

Johnmesha Sanders, Shanika Smith. Characterization of Active Transporter Sysytems at Blood-Brain Barrier .
INBRE Conference, November 2008.

Stephen Broughton. Time-Travel Variability of Ocean-Acoustic Rays. HBCU-UP Conference, November 2008.

Stephen Broughton. Time-Travel Variability of Ocean-Acoustic Rays. Arkansas INBRE Conference, November 2008.

Jennifer Caldwell. Dscam Protein Binding and Microsphere Interactions. Arkansas INBRE Conference, November 2008

School of Business and Management

Publications and Scholarly Presentations

Campbell, Hank. Economic Impact of Higher Education Institutions in the City of Pine Bluff and Jefferson County. Various locations.

Wui, Jung. Economic Efficiencies of Alternative Bycatch-Reduction Policies. Kyoto University, Kyoto, Japan, the Seoul National University, and the Korea Maritime Institute, Seoul, Korea.

Carr, Richard. An Example of Educational Entrepreneurship: On the Use of Student Status for Placement. Allied Academics International Conference. New Orleans, Louisiana.

Shahjahan, Mirza. Economic Problems of African-American Households. Included in conference proceedings.

Shahjahan, Mirza. Size of Debt of Different Income Groups Among Households in the Delta Region. Included in conference proceedings.

School of Education

Peer-Review Publications

Stacy, R., Sharma, M. & Torrence, W. (2008). Evaluation of the Use of a Parent-Held Child Health Record by Pregnant Women and Mothers of Young Children. California Journal of Health Promotion, 6 (1).

Stacy, R. & Torrence, W. (2008). Perceptions of Knowledge, Beliefs, and Barriers to Colorectal Cancer Screening. American Journal of Cancer Education, 23(4).

Academic Presentations, Workshops & Facilitations

Torrence, Will. (2009). Educational, Psychological, & Physiological Aspects of Drug Abuse Prevention. Presented at the 1st Annual UAPB L.I.O.N.S. (Learning Institute and Opportunities for New Students) Program, July 27, 2009, Pine Bluff, AR.

Torrence, Will. (2009). Club Possible: Building attitudes today for active tomorrows. Paper presented at the UAPB 22nd Annual Student/Faculty Research Forum, March 11, 2009, Pine Bluff, AR.

Stewart, Chara, Torrence, Will, Duke, Kelly, Greene, Paul, Jones, Rise, Rucinski, Diane, & VanBiervliet, Alan. (2008). Making the Connection: Strengthening Community Partnerships in Preparation for Collaborative Research. Paper presented at the 136th Annual Meeting of the American Public Health Association, October 25-29, 2008, San Diego, CA.

Miller, Kane, Noble, John, Berg, Kris, Thomas, James, & Torrence, Will. (2008). The Relationship Between Youth and Adult Physical Activity. Paper presented at the 10th International Sport Sciences Congress, October 23-25, 2008, Bolu, Turkey.

Independent Research, Teaching, Evaluation and Support

Building Community Capacity for Health Promotion. University of Arkansas for Medical Sciences, Arkansas Cancer Research Center: National Cancer Institute: Arkansas Community Cancer Network Program, Sub-Contract. Role: Principal Investigator, Funded: 4-01-09 to 3-30-10, Amount: $5,000. [Evaluation]

The purpose of this project was to help develop, implement, assess, and evaluate the delivery of health education curricula in the area of cancer control and prevention. The goal of this research is to identify best practices in the area of disseminating quality cancer prevention education from community-based health organizations to at-risk populations throughout Eastern Arkansas in an effort to reduce/ eliminate cancer health disparities.

Appendix M

Composition of the UAPB Steering Committee and Sub-Committees for Role and Scope Change

UNIVERSITY OF ARKANSAS AT PINE BLUFF
Higher Learning Commission: NCA Steering Committee for Role and Scope Change

Dr. George Herts, Chairperson
Dr. Verma Jones, Co-Chairperson
Dr. Jewell Walker, Co-Chairperson
Mr. Edward Fontenette, Coordinator
Mrs. Paralee Fitzpatrick, Special Assistant
Mrs. Almetris Cobbs, Special Assistant
Mrs. Sharron Williams, Special Assistant
Dr. Lawrence A. Davis, Jr., Chancellor

Dr. Mary E. Benjamin, H.L.C. Liaison & Vice Chancellor for Academic Affairs

Mrs. Margaret Taylor, Director of Institutional Research & Data Manager for H.L.C.

Mrs. Pauline Thomas, Vice Chancellor for Finance & Administration

Mr. Elbert Bennett, Coordinator for Student Affairs

Attorney Carla Martin, Dean, School of Business & Management

Dr. Calvin Johnson, Dean, School of Education & H.L.C. Resource Person

Dr. Verma Jones, Interim Dean, School of Arts & Sciences, Associate Vice Chancellor for Academic Affairs, and H.L.C. Resource Person

Dr. James Garner, Dean, School of Agriculture, Fisheries, & Human Sciences

Dr. Tracy Dunbar, Interim Chairperson & Associate Professor, Department of Agriculture

Dr. Michael Bates, Acting Chairperson & Professor, Department of Music and President of Faculty/Staff Senate

Dr. Carolyn Blakely, Dean, Honors College

Dr. George E. Herts, Interim Dean, Graduate Studies & Continuing Education

Mrs. Dovie Burl, Dean Student Involvement & Leadership

Dr. Antonie Rice, Chairperson, Department of Chemistry & Physics

Dr. Bernita Patterson, Assistant Professor, Department of Social & Behavioral Sciences

Mrs. Erica Fulton, Registrar/Director of Academic Records

Dr. Linda Okiror, Associate Dean, School of Agriculture, Fisheries & Human Sciences

Dr. Edmund Buckner, Associate Professor & Interim Assistant Research Director, Department of Agriculture

Dr. William Detmers, Professor, Department of Art

Dr. Andrew Goodwin, Professor, Department of Aquaculture/Fisheries

Dr. Carol Engle, Chairperson, Department of Aquaculture/Fisheries

Dr. Yolanda Page, Chairperson, Department of English, Theatre, and Mass Communication

Dr. Mary Brentley, Coordinator, Basic Academic Service

Dr. Paul Lorenz, Professor, Department of English, Theatre, and Mass Communication

Dr. William Torrence, Chairperson, Department of Health, Physical Education, and Recreation

Dr. Richard Walker, Chairperson, Graduate Council & Professor, Department of Chemistry & Physics

Mrs. Georgette Wiley, Associate Director, Library

Mr. Leon Crumblin, Dean of Students & Coordinator for Enrollment Management

Mrs. Mary Jones, Director of Admission

Dr. Andrea Stewart, Chairperson, Department of Social Work

Dr. Martin Matute, Chairperson, Department of Biology

Dr. Jerry Lewis, Director, Department of Addiction Studies

Mr. Brett Timmons, Student Representative, Graduate Council

Mr. Randall Walker, President, Student Government Association

Representative from the Catfish Industry

Community Leaders

Ms. Joyce Elliot, Arkansas State Senator

Martin Casteel, United Way

Rev. Jesse Turner, Interested Citizens for Voter Registration (ICVR)

Mrs. Wanda Neal, Economic Development Alliance of Jefferson County

Mrs. Irene Holcomb, Pine Bluff Alderwoman

UAPB Role and Scope Sub-Committees 2009

The charges for all sub-committees are related to two documents: Agenda Item No. 9, PROCESS AND PROCEDURES FOR ROLE AND SCOPE CHANGES - Higher Education Coordinating Board (October 14, 2008), and the UAPB Request for Change in Role and Scope ADHE Follow-up Questions. Sub-committee charges and committee members follow:

Writing Sub-Committee

To draw information from the sub-committee reports and develop a comprehensive role and scope change request. (See questions on Agenda Item No. 9 (October 14, 2008) and UAPB Request for Change Follow-up questions).

Committee Members

Dr. Tracy Dunbar, Co-Chair	Dr. Madan Dey	Mrs. Margaret Taylor
Dr. Jewell Walker, Co-Chair	Dr. William Detmers	Dr. Mary Benjamin
Dr. Eddie Hand, Co-Chair	Dr. Yolanda Page	Dr. Carol Engle
Mrs. Tisha Arnold	Dr. Andrea Stewart	

Enrollment Management Sub-Committee

Develop response to HLC/NCA concerns on enrollment management and present enrollment management activities and outcomes 2007 - present.

Committee Members

Dr. Jewell Walker, Chair	Dr. George Herts	Mrs. Carlia Smith
Mr. Leon Crumblin, Co-Chair	Mrs. Mary Jones	
Mrs. Erica Fulton	Dr. Linda Okiror	

Introduction and Background Sub-Committee

Describe the proposed change, the rationale and the initial program to be offered. (See questions #1-3 on Agenda Item No. 9 and #1-2 on the follow-up questions).

Committee Members

Dr. Mary E. Benjamin, Chair	Mr. Edward Fontenette	Dr. George Herts
Dr. Carole Engle	Dr. James Garner	Mrs. Carla Martin

Graduate and Related Institutional Policies and Procedures Sub-Committee

Compile and describe graduate and related institutional policies (e.g., academic honesty, research review, graduate teaching loads, etc.) to confirm institutional readiness for the role and scope change (See questions #4 on Agenda Item No. 9 and 3, 5, 9, 10, 12, on the follow-up questions).

Committee Members

Dr. Richard Walker, Chair
Dr. George Herts, Co-Chair
Dr. Michael Bates
Mr. Elbert Bennett
Dr. Carolyn Blakely
Mrs. Dovie Burl
Dr. Ellen Eddings
Dr. Verma K. Jones
Dr. Steve Lochmann
Dr. Paul Lorenz
Dr. Brenda Martin
Dr. Antonie Rice
Dr. Cynthia Troutman
Dr. Jewell Walker
Student

Integration of Doctoral Education in the Institutional Fabric Sub-Committee

Describe the activities, structures, programs and preparation of the campus community (faculty, staff, students and administration) in creating the doctoral culture. Name some of the principles involved and highlight 2-3 examples of major changes in the campus environment.

Committee Members

Dr. Paul Lorenz, Chair
Dr. Carolyn Blakely
Dr. Mary Brentley
Mrs. Dovie Burl
Dr. Tracy Dunbar
Dr. Calvin Johnson
Dr. Bernita Patterson
Dr. Peter Perschbacher
Dr. Jewell Walker

Library Resources and Technology Sub-Committee

Describe and assess the library's services, resources and technological support for doctoral education at the University. (See Agenda Item No. 9, #8 and follow-up questions #7 and #8).

In reviewing UAPB's total environment, the committee will review library resources and technology that have previously supported the masters degree programs in Regulatory Science, Addiction Studies, Teacher Education and Aquaculture/Fisheries, as well as library and technology readiness for doctoral studies.

Committee Members

Mrs. Georgette Wiley, Chair
Mrs. Beverly Arthur
Dr. Edmund Buckner
Mr. Fred Fraizer
Dr. Glenda Kennedy
Dr. Therthenia Lewis
Mrs. Sonya Lockett
Dr. Steve Lochmann
Dr. Brenda Martin
Mrs. Lavoris Martin
Dr. Yolanda Page
Dr. Peter Perschbacher
Mrs. Willette Totten
Dr. Jessie J. Walker
Dr. Cynthia Troutman

Viability Sub-Committee

Assess the viability of all current graduate programs and describe the on-going evaluation process based on evaluative data. Indicate leadership for the programs and the evaluation. Compare and contrast the measures for success in the master's and doctoral programs. (See questions #4 on the follow-up questions and #5 on Agenda Item No. 9).

Committee Members

Dr. Verma K. Jones, Chair	Dr. Andrew Goodwin	Dr. Edmund Buckner
Mrs. Margaret Taylor	Dr. Yolanda Page	Dr. Ellen Eddings
Dr. Mary E. Benjamin	Dr. Jerry Lewis	

Fiscal Sub-Committee

Describe and assess the institutional readiness to support and sustain doctoral education. (See questions #7, #8 and No. 9 of Agenda Item No. 9 and #6 and #11 on the follow-up questions).

Committee Members

Mrs. Pauline Thomas, Chair	Dr. Shelton Fitzpatrick	Dr. Steve Lochmann
Dr. James Garner, Co-Chair	Dr. Margaret Martin-Hall	Mrs. Chaundra Love Hall

Dr. Lawrence Davis, Jr., Resource Person

Implementing and Evaluating the Impact on the Role and Scope Change Sub-Committee

Present the plan to evaluate the impact of the role and scope changes especially programs, student enrollment and the mission. (See questions #14A on the follow-up questions and questions #9, #10, #11 on Agenda Item No. 9).

Committee Members

Dr. Eddie Hand, Co-Chair	Dr. Lawrence A. Davis, Jr.	Dr. Linda Okiror
Dr. William Torrence, Co-Chair	Dr. George Herts	Dr. Linda Joshua

Dr. Viola Ellison, Resource Person