

**Agricultural and Natural Resource Administration
Agricultural and Natural Resource Management and Research
Agricultural and Natural Resource Policy and Outreach**

**EDMUND RANDOLPH BUCKNER
(2008-Present Associate Research Director)**

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University of Arkansas – Pine Bluff
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PROFESSIONAL INTERESTS

I am interested in serving the limited resource and disadvantaged farmers and ranchers of Arkansas and the Lower Mississippi River Delta Region. My purpose in pursuing a Ph.D. was to return to the University of Arkansas at Pine Bluff and help train the next generation of agricultural and environmental researchers and leaders.

EDUCATION

Ph.D. in Natural Resource Policy and Law, May 2001
Purdue University, West Lafayette, IN
Research areas: Agricultural and Environmental Interfaces Environmental Engineering, Environmental Modeling, Environmental Policy

M.S. in Natural Resources – Fisheries, January, 1995
University of Wisconsin – Stevens Point, Stevens Point, WI
Research areas: Natural Resources Management, Fish Community Dynamics, Lake Superior Fisheries

B.S. in Agriculture/Fisheries Science, May, 1992
University of Arkansas – Pine Bluff, Pine Bluff, AR
Research areas: Waterfowl, Fish Nutrition, Fish Genetic

RESEARCH AND PROFESSIONAL EXPERIENCE

Associate Research Director, July 2008 - Present

I report directly to the Dean/Director of SAFHS and support the Dean/Director in the management and operation of the Evans-Allen Research Program. My primary responsibility is to assist in providing administrative leadership and programmatic leadership to all research programs in SAFHS. Other responsibilities include but are not limited to: assisting the Dean/Director in preparing and coordinating publications, reviews and evaluation of research programs in SAFHS; working with Principal Investigators to ensure UAPB Station Annual and Final reports are submitted in a timely manner at the termination of Evans-Allen State funded projects; representing the Dean/Director at selected research meetings, workshops and the State legislature; collaborating with the Dean/Director to develop and implement policies and protocols for the operation of the UAPB Farm. I also monitor and implement the five-year NIFA Plan of Work and Annual Accomplishments Report for research programs in SAFHS.

Director, Regulatory Science Center of Excellence.....January 2003-Present

School of Agriculture, Fisheries and Human Sciences, University of Arkansas – Pine Bluff
School of Agriculture, Fisheries and Human Sciences, Dean/Director: James O. Garner, Jr., Ph.D.

I direct the Regulatory Science Center of Excellence which is committed to education, research and technology transfer programs that ultimately train people about regulatory affairs and assist agri-business with regulatory issues. The Center is located within SAFHS on the University of Arkansas at Pine Bluff (UAPB) campus. The professors and staff in the Center have expertise in the fields of regulatory compliance, food safety, biotechnology, natural resource systems, and natural resource policy and are nationally recognized for their efforts. The Regulatory Science Center of Excellence was established in 1995 by the United States Department of Agriculture Animal and Plant Health Inspection Services – Marketing and Regulatory Programs Division at the request of the 1890 Council of Presidents. I supervise a Master's Degree Program in Agricultural Regulations which was approved by the Arkansas Department of Higher Education Board of Directors in August 2007. Currently twenty (20) students are enrolled, eight of which are full time. The program is currently being offered at the University of Arkansas at Pine Bluff (UAPB) campus with plans to offer it with distance technology at the university's North Little Rock site by Fall 2011. The Regulatory Science Center has approximately fifty-nine (59) students and four (4) faculty members, three (3) of which have PhD's and one with a Master's Degree. Federal and State funds support teaching, research and outreach activities in the Regulatory Science Center.

Associate Professor of Regulatory Science, January 2006 - Present

Regulatory Science Center, University of Arkansas-Pine Bluff
School of Agriculture, Fisheries and Human Sciences, Dean/Director: Jacqueline McCrae, Ph.D., James O. Garner, Jr., Ph.D.

I am primarily responsible for administration (42%), research (33%) and teaching (25%). I teach undergraduate courses such as Administrative Law and Governmental Procedures, GIS and Watershed Management, Agricultural, Municipal and Industrial Pollution. The graduate level courses that I teach include Agricultural Risk Analysis, Agricultural Policy and Law and Watershed Management and GIS. I am responsible for Regulatory Science Center activities/funding/outreach. I also coordinate the research and demonstration farm activities and personnel. My research projects include Wetland Reserve Program (WRP) wetland micro/macro topography, water quality in created wetlands, changes in fish assemblages below a hydroelectric dam on the Ouachita River, storm water runoff issues and vegetative filter strip/best management practice water quality issues, small and disadvantaged farmer/rancher outreach.

Assistant Professor of Regulatory Science, January 2003 - 2006

Regulatory Science Center, University of Arkansas-Pine Bluff
School of Agriculture, Fisheries and Human Sciences, Dean/Director: Jacqueline McCrae, Ph.D.

I was primarily responsible for extension and teaching. My research projects included Wetland Reserve Program (WRP) wetland micro/macro topography, water quality in created wetlands, changes in fish assemblages below a hydroelectric dam on the Ouachita River, storm water runoff issues and vegetative filter strip/best management practice water quality issues. I worked very closely with students to provide challenging internship opportunities. Many of the program's graduates have outstanding careers with government and private industry.

Assistant Professor of Fisheries/ Undergraduate Coordinator, January 2001 – 2002

Aquaculture/Fisheries Center, University of Arkansas – Pine Bluff
Aquaculture/Fisheries Department Head: Carole Engle, Ph.D.

I had a 50 percent teaching assignment, 25 percent research appointment and 25 percent administrative appointment. I taught fisheries techniques, ichthyology, freshman fisheries topics and graduate scientific writing and experimental design. My research included water quality management, vegetative filterstrips and microtopography. I was responsible for coordinating and advising all of the undergraduate students in the Fisheries Department and serving as chair and committee member on graduate student thesis committees. I also was responsible for coordinating recruitment and internship opportunities for undergraduates.

Ph.D. Student - Graduate Research Assistant/ Graduate Fellow/ Graduate Student Recruiter, February 2000 –2001

Department of Forestry and Natural Resources, Purdue University
Major Professor: Dennis Le Master, Ph.D., Department Head

I recruited graduate students for the School of Agriculture and the Forestry and Natural Resources. My research involved assessing alternative models for riparian zone rehabilitation and protection of agricultural land in the Upper Wabash River Watershed with the aid of hydrologic and economic models. I taught and assisted Dr. Le Master (Department Head) in teaching both graduate and undergraduate students enrolled in Natural Resource Issues, Policy and Administration.

Dean John A. Knauss National Marine Policy Fellow/ Upper Mississippi River Congressional Task Force Coordinator, February 1999 - 2000

National Oceanic and Atmospheric Administration/
Congressional Office of U.S. Representative Ron Kind, Capitol Hill, Washington D.C.

I drafted joint Congressional Membership letters of support for increased funding of federal agencies such as the U. S. Fish and Wildlife Service, USGS, NRCS, NOAA, and USEPA within the context of annual appropriations. I drafted Congressional testimony delivered by Members on behalf of Department of Interior agencies such as the U. S. Fish and Wildlife Service and USGS. As part of a team effort, I took the lead on drafting the Upper Mississippi River Conservation Act (H.R. 4013; the second version of the bill was H.R. 3480). I organized briefings with Congressional Membership and staff, the Mississippi River Congressional Caucus, executive branch agencies, nongovernmental organizations and agricultural groups to inform Members and Congressional staff of important Upper Mississippi River issues. I coordinated communication with Congressional Task Force offices regarding the development and implementation of appropriate legislation and conducted regular meetings with Task Force co-chair staff (offices of Reps. Gutknecht, Kind, Oberstar, and Leach). I also monitored progress on pertinent legislation such as appropriations bills, amendments to the Clean Water Act, the American Heritage Rivers Initiative, the farm bill and the Water Resources Development Act.

Ph.D. Student - Graduate Fellow/ Graduate Student Recruiter, September 1995 - 1998

Department of Forestry and Natural Resources, Purdue University
Major Professor: Dr. Dennis Le Master, Department Head

I assessed alternative models for riparian zone rehabilitation and protection of agricultural land in the Upper Wabash River Watershed (Northern half of Indiana) with the aid of hydrologic and economic models. I taught and assisted Dr. Le Master in teaching both graduate and undergraduate students enrolled in Natural Resource Issues, Policy and Administration.

Fishery Biologist, Assistant Chemical Treatment Leader, January – September 1995

United States Fish and Wildlife Service, Ludington, MI

Supervisor: Mr. Denny Lavis, Station Head

I supervised three full time science technicians and ten seasonal technicians. I also hired and evaluated seasonal technicians. My professional duties further included interacting with landowners to gain permission to access private property for USFWS employees; working with large data bases; creating and compiling access maps; composing chemical treatment summaries; monitoring spectrophotometers, pH meters, oxygen meters, and HPLC instruments in support of the unit's mission.

Fishery Biologist Trainee, June 1992 – January 1995

United States Fish and Wildlife Service, Ashland, WI
Supervisor: Thomas Busiahn, Station Head

I assisted in fish population dynamics monitoring, as well as exotic fish species monitoring in Northern Minnesota, Michigan, and Wisconsin.

M.S. Student - Graduate Research Assistant, September 1992 - 1995

Department of Natural Resources, University of Wisconsin - Stevens Point
Major Advisor: Dr. Daniel Coble, USFWS Fishery Cooperative Unit Head

I monitored population dynamics of 11 fish species for two years, and analyzed 21 years of fish of population data from Chequamegon Bay, Lake Superior.

Undergraduate Student Intern, June 1990 - May 1992

United States Fish and Wildlife Service, Pine Bluff, AR
Supervisor: Dr. William Layher, USFWS Fishery Cooperative Unit Head

I studied research design and monitoring techniques while participating with fish nutrition, fish genetics, and migratory bird research projects.

SKILLS AND ABILITIES

Leadership Skills

I am an experienced leader and supervisor. I am a graduate of the LEAD 21 program which helped me to enhance and apply the skills and leadership techniques learned in nine leadership competencies (1. developing self and others, 2. leading with integrity and values, 3. resolving conflict, 4. fostering collaboration, 5. managing change, 6. communicating effectively, 7. valuing diversity, 8. developing a deeper knowledge and appreciation of higher education, 9. developing and managing resources). LEAD 21 helped me to develop a peer leadership network in order to enhance personal leadership practice, and taught me the importance of collaboration, and diversity of perspective. The program also helped me to develop and implement an individual leadership development process which I have put to good use in my capacity as the Interim Assistant Research Director.

Analytical Skills

I am experienced in parametric and nonparametric statistical analysis; large data set analysis and organization; financial and economic benefit - cost analysis; economic optimization techniques such as Hamiltonian Method, Lagrangian Multipliers, and Bellman's Backward Recursion.

Computer Skills

I have extensive use of DOS, Microsoft Windows, Microsoft Windows NT and recent Windows Operating systems; excellent with internet usage and homepage design; expert with data base management, data

querying, word processing, spreadsheets, statistics, GIS, GPS, remote sensing, computer modeling of environmental systems and graphics software programs.

Instrument Skills

Extensive use of oxygen meters, pH meters, HPLCs, spectrophotometers, welders, plasma cutters, GPS equipment and water quality samplers

PUBLICATIONS

Buckner, E. R. 1995. The Summer Fish Community of Chequamegon Bay, Lake Superior. M. S. Thesis, University of Wisconsin - Stevens Point, Stevens Point, WI. 230 pp.

Buckner, E. R. 2001. An Evaluation of Alternative Vegetative Filterstrip Models for use on Agricultural lands of the Upper Wabash River Basin. Ph.D. Thesis, Purdue University, West Lafayette, IN. 209 pp.

Onyilagha, J. C., R. H. Elliott, E. R. Buckner, S. O. Okiror and P. J. Raney. 2011. Seed Chlorophyll influences vigor in oilseed rape (*Brassica napus*). *Journal of Agricultural Science*, Vol. 3, No. 2.

Buckner, E. R., L. Richardson and L. Hairston. 2006. Heavy Use Areas are Problems for Farmers. *Risk Management News*, Fall 2006.

Buckner, E. R., L. Richardson, R. Felsman, M. Daniels and S. O. Dennis. 2006. Environmental Issues for Small Swine Farmers. Cooperative Extension Program, University of Arkansas – Pine Bluff, FSA9518.

Buckner, E. R., L. Richardson, R. Felsman, M. Daniels and S. O. Dennis. 2006. Environmental Issues Affecting Small Farmers Raising Hogs on Pasture. *Southern Animal Manure and Waste Management Quarterly*, September 2006.

Fazarro, D. and E. R. Buckner, 2005. What is your learning style preference?: A look at Industrial Technology and Agriculture Students. *Online Journal for Workforce Education and Development*, I:II (http://www.wed.siu.edu/Journal/volIInumII/volIInumII.php#learning_style).

Meronek, T. G., P. M. Bouchard, E. R. Buckner, T. M. Burri, K. K. Demmerly, D. C. Hatleli, R. A. Klumb, S. H. Schmidt, and D. W. Coble. 1996. A review of fish control projects. *North American Journal of Fisheries Management*, 16:16-74.

Hamilton, D. and E. R. Buckner. 2005. Waste Stabilization Pond, Ambient Temperature Anaerobic Bioreactor...No Matter What You Call It, It's Still a Lagoon. *Southern Animal Manure and Waste Management Quarterly*, October 2005.

Hairston, L., and E. R. Buckner. 2005. Evaluation of various methods of canna lily seed preparation. *Arkansas Agriculture and Rural Development Journal*. 6:13-15.

Leao, M., M. Eggleton and E. R. Buckner. 2006. Fish utilization and diversity associated with created wetlands within the upper White river watershed. *Arkansas Agriculture and Rural Development Research Journal of the School of Agriculture Fisheries*.

Leao, M., M. Eggleton and E. R. Buckner. 2004. Patterns of fish community structure associated with created wetlands within the upper White river watershed. *Southeastern Association of Fish and Wildlife Agencies*. 58:162-173 (Published in 2005)

U.S. Department of Agriculture, Natural Resources Conservation Service. 2007. An evaluation of amphibians and fish associated with wetland microtopography projects within the White River Watershed. Pierluissi, S., K. Hersey, S. King, M. Leao and E. Buckner. NRCS Tech Note(Research Leader – Ed Buckner, Research proposal written by Ed Buckner)

Leao, M., S. Pierluissi, E. Buckner, S. King, and K. Hersey. 2008. Frogs and fish respond to wetlands restored with microtopography. NRCS-Agricultural Wildlife Conservation Center #68-7482-2-17.

Buckner, E. R. and L. Hairston. 2008. An Assessment of Storm Water Runoff Issues in Pine Bluff, White Hall, the University of Arkansas —Pine Bluff and Jefferson County Jefferson County. UAPB Technical Bulletin FSA 9518.

Buckner, E.R. and L. Richardson. In Press. Coping With Fire Ants. UAPB Technical Bulletin.

Buckner, E. R., D. C. Le Master, and B. Engel. In preparation. Assessment of alternative models for riparian zone management and protection of agricultural lands of the upper Wabash River Watershed.

Buckner, E. R., D. W. Coble, and M. H. Hoff. In preparation. The summer fish community of Chequamegon Bay, Lake Superior.

ADMINISTRATIVE PUBLICATIONS

Graduate Student Handbook. 2008. Graduate Handbook for the Agricultural Regulations Graduate Program. 2008.

Accreditation Document for the Agricultural Regulations Graduate Program. 2008. Request for Institutional Changes Requiring Commission Review to Implement a Master Of Science Degree Program In Agricultural Regulations (Team Effort).

Proposals to Fund Implementation of the Graduate Agricultural Regulations Program. 2005, 2006, 2007. Using Distance Learning Technology to Implement a Graduate Agricultural Regulatory Affairs Program (Funded for \$199,996 in 2007; leader-Team Effort).

Proposal to the Arkansas Department of Higher Education. 2006. Proposal to Develop a Graduate Agricultural Regulations Program at the University of Arkansas at Pine Bluff (Team Effort).

Academic Program Review for the Regulatory Science Program 2006-2007. University of Arkansas at Pine Bluff.

Academic Program Review for the Regulatory Science Program 2012-2013. University of Arkansas at Pine Bluff. (In progress).

Academic Program Review for the Graduate Agricultural Regulations Program 2012-2013. University of Arkansas at Pine Bluff. (In progress).

Agriculture Research Annual Report, 2005-2006, School of Agriculture, Fisheries and Human Sciences (Agricultural Research Chapter).

Agriculture Research Annual Report, 2006-2007, School of Agriculture, Fisheries and Human

Sciences (Agricultural Research Chapter).

Agriculture Research Annual Report, 2007-2008, School of Agriculture, Fisheries and Human Sciences (Agricultural Research Chapter).

Agriculture Research Annual Report, 2008-2009, School of Agriculture, Fisheries and Human Sciences (Agricultural Research Chapter).

Agriculture Research Annual Report, 2010-2011, School of Agriculture, Fisheries and Human Sciences (Agricultural Research Chapter).

Agriculture Research Annual Report, 2011-2012, School of Agriculture, Fisheries and Human Sciences (Agricultural Research Chapter).

USDA – NIFA Annual Accomplishments Report and Plan of Work, 2009-2010. School of Agriculture, Fisheries and Human Sciences (Report Summary and Editor).

USDA – NIFA Annual Accomplishments Report and Plan of Work, 2008-2009. School of Agriculture, Fisheries and Human Sciences (Report Summary and Editor, Administrative Team).

USDA – NIFA Annual Accomplishments Report and Plan of Work, 2010-2011. School of Agriculture, Fisheries and Human Sciences (Report Summary and Editor).

USDA – NIFA Evans-Allen and State Match Research Project Annual Reports, 2009-2010. School of Agriculture, Fisheries and Human Sciences (Editor).

Agriculture Department Book Of Research Abstracts, 2007. University of Arkansas at Pine Bluff, Agriculture Department (Editor).

Agriculture Department Book Of Research Abstracts, 2009. University of Arkansas at Pine Bluff, Agriculture Department (Editor).

Agriculture Department Book Of Research Abstracts, 2011. University of Arkansas at Pine Bluff, Agriculture Department (Editor).

SELECTED ABSTRACTS/PRESENTATIONS/POSTERS

- E. R. Buckner
- W. and E.R. Buckner. 2011. Water Quality Associated with a Swine Waste Treatment System on the UAPB Farm. 2011 National Land Grant and Sea Grant Water Conference. Washington D.C., January 2011.
- Buckner, E.R., 2010. University of Arkansas at Pine Bluff, School of Agriculture, Fisheries and Human Sciences Research Activities. SAFHS Advisory Council. December 2010.
- Columbus, W. and E.R. Buckner. 2010. Water Quality Associated with a Swine Waste Treatment System on the UAPB Farm. 2010 National Land Grant and Sea Grant Water Conference. Hilton Head, SC, January 2010.
- Buckner, E.R. 2009. Challenges Facing Research and Extension Activities at 1890 Land Grant Institutions (Invited Presentation). 67th Professional Agricultural Workers Conference, "The Color of Wealth in the Green Economy: Best Practices, Programs and Policies," Tuskegee University, December 2009.

- Buckner, E.R., 2009. University of Arkansas at Pine Bluff, School of Agriculture, Fisheries and Human Sciences Research and Outreach Activities. SAFHS Farm Field Day. July 2009.
- 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. Integrating Science into the Restoration and Management of Floodplain Ecosystems of the Southeast. Little Rock, AR, March 2008.
- Buckner, E.R., 2007. University of Arkansas at Pine Bluff, School of Agriculture, Fisheries and Human Sciences Research and Outreach Activities. SAFHS Farm Field Day. July 2007.
- Buckner, E.R. and L. Hairston. 2007. University of Arkansas at Pine Bluff (UAPB) Demonstration Farm, Swine Waste Treatment System and Constructed Wetland. Southern Region Storm Water Regional Conference, Fayetteville, AR, October, 2007.
- Buckner, E.R. and L. Hairston. 2007 An Assessment of Storm Water Runoff Issues in Pine Bluff, White Hall the University of Arkansas at Pine Bluff (UAPB) and Jefferson County Southern Region Storm Water Regional Conference, Fayetteville, AR, October, 2007.
- Buckner, E.R. and L. Hairston. 2007 Utilization of Water Lilies for Cut Flower Production. Southern Region Storm Water Regional Conference, Fayetteville, AR, October, 2007.
- Poster, Society of Wetland Scientists Annual Meeting, 'Assessment of Recycled Media For Managing Storm Water Runoff.' Cairns, Australia - July 2006.
- Poster, 18th Annual World Congress of Soil Scientists, 'Future Perspectives of Cooperation Between 1890 Institutions and National Cooperative Soil Survey'. Philadelphia, PA – July 2006.
- Buckner, E.R. and M. Leao. Fish Utilization And Diversity Associated With Restored Wetlands Within The Upper White River Watershed. 1890 Land-Grant Universities Association of Research Directors, Inc., 14th Biennial Research Symposium, Atlanta, GA, April 2006.
- Poster, Rural Life Conference, 'Assessment of Recycled Media For Managing Storm Water Runoff.' Pine Bluff, AR - February 2006.
- Poster, USDA – CSREES National Water Quality Conference, '*Assessment of the Use of Cattail (Typha latifolia L.) as a Filter for Storm Water Run-Off Using Recycled Tire Chips.*' San Antonio, TX - February 2006.
- Presentation, Society of Wetland Scientists Annual Meeting, 'Fish community structure associated with created wetlands within the upper White River Watershed', Charleston, SC - June 2005.
- Poster, Society of Wetland Scientists Annual Meeting, 'Fish community structure associated with created wetlands within the upper White River Watershed', Charleston, SC - June 2005.
- Poster, Rural Life Conference, 'Demonstration Swine Waste Treatment System and Constructed Wetland System at the University of Arkansas – Pine Bluff'. Pine Bluff, AR - February 2005.

- Poster, Water Quality Collaborative Conference, 'Demonstration Swine Waste Treatment System and Constructed Wetland System at the University of Arkansas – Pine Bluff. Atlanta, GA - July 2004.
- Invited Presentation. Society of Wetland Scientists Annual Meeting. 'Lower Mississippi Case Study – Wetland Micro- and Macrotopography in the Upper White River Basin'. Seattle, WA - July 2004.
- Poster, Society of Wetland Scientists Annual Meeting, 'Patterns of Fish Community Structure Associated With Created Wetlands Within the Upper White River Watershed', Seattle, WA - July 2004.
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- Poster, Society of Wetland Scientists Annual Meeting, "Fish Utilization and Diversity Associated with Created Wetlands Within the Upper White River Watershed," New Orleans, LA - June 2003.
- Invited Presenter, National Natural Resources Conservation Service Biologists Conference and Training Session , "An Evaluation of Amphibian and Fish Utilization Associated with Created Wetlands Within the Upper White River Watershed," San Antonio, TX - April 2003.
- Poster, 47th Annual Rural Life Conference, Securing the Future for Communities, 'An Evaluation of WRP Sites in Arkansas', University of Arkansas - Pine Bluff, AR - February 2003.
- Invited Presenter, Restoring America's Greatest River Workshop, "The Role of Policy Makers in Raising the Profile of the Lower Mississippi River," Lower Mississippi River Conservation Committee, Cleveland, MS - October 2002.
- Presenter, Watersheds and the Natural State, "Environmental Policy Regulations and Local Accountability: Tools of Local Watershed Protection," Arkansas Watershed Advisory Group, Little Rock, AR - October 2002.
- Poster, Watersheds and the Natural State, "An Evaluation of WRP sites in Arkansas," Arkansas Watershed Advisory Group, Little Rock, AR - October 2002.
- Poster, Watersheds and the Natural State, "Use of the APEX Hydrologic Model for Improving Water Quality," Arkansas Watershed Advisory Group, Little Rock, AR - October 2002.
- Poster, Aquaculture/Fisheries Department Field Day, "Effect of Changes in Minimum Flow and Type of Release, on Fish Assemblages, Below a Hydroelectric Dam on the Ouachita River, Arkansas," University of Arkansas – Pine Bluff, Pine Bluff, AR - October 2002. Speaker, NRCS-Wildlife Habitat Management Institute Training Video, Lower Mississippi Valley Case Study for Understanding the Landscape, Greenville, MS - January 2002. (This video won a TELLE award for excellence in 2002)

GRANTS

- Mississippi River Basin Initiative Grant, (Sub-contractor) \$500,000 – 2013-2018
- 1890 National Water Quality Center Grant (Collaboration of seven 1890 Land Grant Universities) \$500,000 - 2010-2013
- Animal Plant Health Inspection Service (APHIS)-Environmental Policy Analysis Grant, \$150,000 – 2011
- Animal Plant Health Inspection Service-Environmental Policy Analysis Grant, \$50,000 - 2012

- Animal Plant Health Inspection Service-AgDiscovery Grant, \$50,000 - 2012
- Animal Plant Health Inspection Service-AgDiscovery Grant, \$50,000 - 2011
- Animal Plant Health Inspection Service-AgDiscovery Grant, \$50,000 - 2010
- Animal Plant Health Inspection Service-AgDiscovery Grant, \$50,000 - 2009
- Animal Plant Health Inspection Service-AgDiscovery Grant, \$50,000 - 2008
- Graduate Agricultural Regulations Programs Grant, \$199,996 - 2008-2011
- NRCS MLRA Grant, \$40,000 - 2004
- NRCS MLRA Grant, \$40,000 - 2005
- NRCS MLRA Grant, \$40,000 - 2006
- NRCS MLRA Grant, \$40,000 - 2007
- NRCS MLRA Grant, \$40,000 - 2008
- NRCS MLRA Grant, \$40,000 - 2009
- NRCS MLRA Grant, \$40,000 - 2010
- NRCS MLRA Grant, \$40,000 - 2011
- NRCS MLRA Grant, \$40,000 - 2012
- NRCS Trace Soil Elements, \$40,000 (Collaboration with Dr. Sixte Ntamungiro) 2010
- APHIS Small and Limited Resource Farmers and Rancher Outreach, \$50,000 - 2010-2011
- APHIS Small and Limited Resource Farmers and Rancher Outreach, \$50,000 - 2010-2012
- Global Positioning Systems Grant, \$4,000 - 2008-2009
- Southern Region Collaborative Water Quality Leadership Grant, \$12,000 - 2008-2011
- Southern Region Collaborative Water Quality Planning Grant, \$80,000 - 2007-2011
- Southern Region Collaborative Water Quality Planning Grant, \$60,000 - 2001-2006
- Arkansas Storm Water Runoff Grant, \$25,000. - 2007-2008
- USDA Capacity Building Grant to develop a GIS lab and classes, \$200,000 - 2003-2006
- APHIS Regulatory Science Center Grant, \$50,000 - 2003
- NRCS/USFWS Grant to study Microtopography/WRP issues, \$150,000, 2001-2004
- USFWS Grant for equipment to study WRP lands, \$6,000.00 - 2002
- USDA ARS Grant to evaluate Bayou Bartholomew water quality issues, \$40,000 - 2002
- USDA-Capacity Building Grant to develop a swine waste treatment system, \$199,996
(Grant originally awarded to John Meister, I was made grant PI upon his death; Administered by Ed Buckner 2001-2003)
- Arkansas Farm Bureau, for undergraduate student functions, \$400 - 2001
- Dean John Knauss Marine Policy Congressional Fellow, 106th Congress, \$42,000, 1999-2000
- Purdue University Graduate School Special Initiatives Fellow, \$36,000, 2000 - 2001,
- Purdue University Graduate School Special Initiatives Fellow, \$36,000, 1997 - 1998,

AWARDS AND HONORS

- LEAD 21 Class of 2008-2009
- Collaborator, NSF EPSCOR P3 Plant-Based Bioproduction Center, 2010-2011
- Purdue University Discovery Learning Center External Board Member, 2005 -2009
- Zeta Phi Beta Exceptional Educator Award, 2007-2008
- Reviewer, USDA Conservation Innovation Grants Program, 2007
- Faculty Member of the Year – MANNRS Award, 2005
- Gamma Sigma Delta Agricultural Honor Society, Inducted in 2004
- National Science Foundation Graduate Research Fellowship Program Panel Chair, 2005-2009

- Regulatory Affairs Society, 2005-2011
- Reviewer, National Oceanic and Atmospheric Administration SBIR Grants Program, 2005
- National Society of Black Engineers, 2004 – 2011
- Society of Wetland Scientist, Life Time Member
- National Science Foundation Graduate Research Fellowship Program Panelist, 2004-2011
- Outstanding Young Faculty Member of the Year – UAPB Research Center, \$3000 - 2003
- Dean John A. Knauss Marine Policy Congressional Fellow, 106th Congress, 1999-2000
- President, Xi Sigma Pi Natural Resources Honor Fraternity, Inducted in 1998
- NCR Planning Teeam for NCT Committee on Riparian Issues, 1998
- Vice President, Minorities in Agriculture Natural Resources and Related Sciences, 1995 - 1998
- University of Wisconsin - Stevens Point, College Graduate Committee Member, 1994-95
- National Member of the American Fisheries Society, 1991 - 1995
- Founding President, American Fisheries Society, Arkansas Chapter, UAPB Sub Unit, 1992

