

# **CURRICULUM VITAE**

## **ALTON B. JOHNSON**

### **EDUCATION**

University of Arkansas, Fayetteville, AR. Received Ph.D. in Agronomy in 1993. Area of concentration – Soil Physics.

Mississippi State University, Mississippi State, MS. Received M.S. in Agronomy in 1988. Area of concentration - Soil and Water Management and Conservation.

University of Liberia, Monrovia, Liberia. Received B.Sc. in General Agriculture in 1983.

### **PROFESSIONAL INTEREST**

My career objective is to serve in higher education, empower the people I lead so that they can be successful in serving the public. My professional strength is strong leadership and analytical skills and I am experienced in finding solutions to complex problems. I have the demonstrated ability to think outside the box, and yet focus on opportunities and challenges in the organization. I am motivated by a quest for continuous growth and my desire to operate outside comfort zones. I have excellent people skills and have had several leadership and management trainings and experiences. This position presents a unique opportunity for me to work within a community that fosters academic excellence, enhances economic opportunity and improves the health and wellbeing of the citizenry.

### **LEADERSHIP AND MANAGEMENT CERTIFICATIONS**

- Mastery Session: Strategies for Leading Successful Change Initiatives (**Harvard University Extension School**)
- Institute for Management and Leadership in Education (**Harvard University Graduate School of Education**)
- Leadership for the 21<sup>st</sup> Century: LEAD21 (**Fanning Institute, University of Georgia**)
- Achievement in Leadership Excellence (**The American Management Association**)
- Developing Executive Leadership (**The American Management Association**)
- Strategic Planning (**The American Management Association**)
- Fundamentals of Marketing: Your Action Plan for Success (**The American Management Association**)
- Critical Thinking (**The American Management Association**)
- Preparing for Leadership: What it Takes to Take the Lead (**The American management Association**)
- Management Skills for New Supervisors (**The American Management Association**)

### **TECHNICAL CERTIFICATIONS**

- Environmental Fate of Hydrocarbons in Soils and Groundwater (The Association for Environmental Health and Sciences)
- Remote Sensing Applications in the Environmental Sciences (Alcorn State University)

- Better Assessment Science Integrating Point and Non-point Sources (BASINS) - training with emphasis on QUAL2E, HSPF, SWAT (University of Texas)
- Better Assessment Science Integrating Point and Non-point Sources (BASINS) - training with emphasis on QUAL2E, HSPF, PLOAD (Utah State University)
- Introduction to ArcView GIS (GeoTek Management Services)
- Integration of Remote Sensing, Geographic Information Systems, and Global Positioning System Technology (Alabama A&M University)

### **PROFESSIONAL AND OTHER EXPERIENCES**

- Dean and Professor, College of Engineering, Science, Technology, and Agriculture, Central State University, 2016 – present.
- Director of University Land-Grant Programs (Director, Agricultural Research and Development Program and Administrator, Cooperative Extension Service), Central State University, 2016 – present.
- Dean and Professor, College of Agriculture and Human Sciences, Prairie View A&M University, 2012 – 2016.
- Director of University Land-Grant Programs (Director, Cooperative Agricultural Research Center, Academic Dean, and Administrator, Cooperative Extension Program), College of Agriculture and Human Sciences, Prairie View A&M University, 2012 – 2016.
- Associate Dean, College of Agriculture and Human Sciences, Prairie View A&M University, 2011 - 2012.
- Administrator, Cooperative Extension Program, College of Agriculture and Human Sciences, Prairie View A&M University, 2011 - 2016.
- Associate Director, Cooperative Agricultural Research Center, College of Agriculture and Human Sciences, 2011 - 2012
- Interim Assistant Dean of Research, School of Agriculture, Research, Extension and Applied Sciences, Alcorn State University, 2010-2011.
- Interim Research Director, School of Agriculture, Research, Extension and Applied Sciences, Alcorn State University, 2009-2011.
- Chief Research Officer for Alcorn State University and Member, Mississippi University Research Authority, 2009-2011.
- Co-Chair, Presidential Transition Team, Alcorn State University, 2007-2008
- President, Faculty Assembly, Alcorn State University, 2005-2008.
- National Collegiate Athletics Association (NCAA) Faculty Athletics Representative, Alcorn State University, 2003-2006.
- Associate Professor of Agriculture, 2001-2011.
- Consultant to Melkem International Inc., Gretna, LA, 2000-2011.
- Founding Director, Mississippi River Research Center, 1995–2009.
- Assistant Professor of Agriculture, Alcorn State University, 1994-2001.
- Research Associate, University of Arkansas at Pine Bluff, 1994.
- Post-Doctoral Research Associate, Soil Physics, Dept. of Agronomy, University of Arkansas at Fayetteville, 1993.
- Graduate Research Assistant, Soil Physics, Dept. of Agronomy, University of Arkansas at Fayetteville, 1988-1992.

- Laboratory Assistant, Soil Physics, Dept. of Agronomy, Mississippi State University, 1986-1988.
- Graduate Teaching Assistant, Dept. of Agronomy, Mississippi State University. 1987.
- Assistant Director for Technology Transfer, Rural Development Institute, Cuttington University, Liberia, 1984-1985.
- Assistant Lecturer of Soils, Rural Development Institute, Cuttington University, Liberia, 1983-1985

## **ADMINISTRATIVE LEADERSHIP AND ACHEIVEMENTS**

### **Central State University (2016-present)**

- Providing strategic vision for Land-Grant activities at Central State University (CSU).
- It is my responsibility to build the University's land grant endeavor. It is my responsibility to hire staff and faculty, increase student enrollment, develop strategic partnerships, and establish the University's demonstration and experiment station.
- Led the development of a strategic plan for the College of Engineering, Science, Technology and Agriculture (CESTA).
- Serve as Authorized Representative for all land grant and associated financial resources.
- Worked with a select Ohio Congressional Delegation (Congressman Mike Turner and Senator Sherrod Brown) to amend the 2018 Farm Bill that added \$3.7 million annually to CSU's formula fund allocation (\$2.3 million) for its research and extension programs. This amount is matched 1:1 with state funds, making the total \$12 million annually.
- Improved CESTA biology laboratories by allocating about \$200k to purchase microscopes for students.
- Led the establishment of a partnership with the Montgomery County, OH Board of Supervisors to engage in an endeavor in water systems and waste water management. This partnership provided a 1:1 match between our Land-Grant Programs and the County that yielded \$400,000 for the first two years of this project.
- Allocated \$2 million to renovate a facility for Natural Products Laboratory.
- Currently managing an annual operating budget of about \$17 million; responsible for four buildings totaling 114,038 square-feet; and a total of 100 faculty and staff.
- Led the writing and received a grant for approximately \$599k to help increase student enrollment and retention in the CESTA.
- Developed the Office of Undergraduate Research and Student Success (OURSS).
- Strategically created the position, Assistant Director for Academic Planning, and appointed a veteran faculty in the position to work with all academic unit heads and OURSS to ensure student retention and persistent rates are increased.
- Strategically created the position, Assistant Director for Innovation and Technology Transfer, and appointed a veteran faculty and inventor with industry background to lead our commercialization efforts.
- Increased student enrollment in CESTA from 355 in 2016 to 484 in 2019 (a 36% increase).
- Established a leadership mentoring program for my direct reports and some upper- and mid-level managers at CSU.
- Led a team of faculty in our Environmental Engineering program to prepare for ABET accreditation and was successful in obtaining accreditation.
- Led the creation of certification program in Cyber Security.

- Restructured the departments in the College of Engineering Science, Technology, and Agriculture by combining the Department of Agricultural Sciences and the Department of Natural Science to the Department of Agricultural and Life Sciences.
- Led the restructuring of our new Exercise Science academic program to include nutrition.
- Allocated funds (\$300k) to purchase scientific equipment for the Chemistry academic program to prepare for accreditation.
- Allocated funds (\$209k) to renovate the College's greenhouse.
- Developing two core laboratories containing state-of-the-art equipment for our faculty and scientists to conduct research.
- Supported and funded professional development trainings for seven faculty and staff members in the College.
- Devised a mechanism for the first time at CSU to hire faculty with split appointments.
- Led the establishment of a partnership with the City of Trotwood, OH where our Cooperative Extension personnel will utilize part of a 13,000 square-foot facility in the city to conduct activities in the four signature programs in our Cooperative Extension Service.
- Led a team and advised our President to occupy a 6,500 square-foot space in an 80,000 square-foot facility, under construction in Xenia, OH, for extension and academic activities. This Recreation, Education, Activity, Community, and Health (REACH) Center is a collaborative effort between the City of Xenia, Clark State Community College, Dayton YMCA, the Kettering Health Group, and Central State University.
- Allocate \$134k annually to lease the 6,500 square-foot facility in Xenia.
- In consultation with the President, led the establishment of the University's Seed-to-Bloom Botanical and Community Garden and allocated funds (\$950k) for construction.
- Worked with University policy committee to develop an Export Control policy.
- Worked with the Ohio Farm Bureau Federation to include CSU Land-Grant Programs in its policy document. This is a major achievement for an 1890 land grant university.
- Leading the development of an MOU with a corporate farm, Bluegrass Farms of Ohio Inc., to work on a specialty corn that will bring royalty to CSU. Bluegrass Farms of Ohio, Inc. along with cooperating farms operates 120k acres in Ohio.
- Led the development of an MOU with a community organization, Community Solutions, to have joint research and outreach activities on the organization's 125-acre farm.
- Leading the expansion of CSU Extension programs from 5 to 55 counties in Ohio.
- Leading the development of MOUs with community colleges in the northeastern, northwestern, southeastern, and southwestern regions of Ohio to house CSU's Cooperative Extension Service regional offices. This is strategic in that it will allow CSU to recruit graduates from those community colleges and expand our reach in the state.
- Leading strategic hiring of 50 research faculty and extension staff to enhance CSU's ability in serving the citizens of Ohio.
- Led a team to develop a \$2 million scholarship grant proposal to provide scholarships for Ohio residents interested in agriculture and related fields, and financial management at CSU.
- Led a team to work with the Executive Secretary of Tertiary Education Trust Fund (TETfund) of Nigeria, so that CSU can provide professional development for 800 of its citizens in water resource management, energy, and grants management.

### **Prairie View A&M University (2011-2016)**

- Was responsible for a college of 465 students with total staff of 137 (this included extension personnel, research scientists, faculty and support staff).
- Successfully managed the College's budget of \$38 million and engaged my colleagues in the College to seek external funds.
- Was responsible for 1,670 pieces of equipment totaling approximately \$9.0 million and 34 buildings with a total of 194,431 gross square feet.
- Was responsible for managing the university's 868-acre farm.
- Was responsible for building on the College's traditions and to forge a new, more responsive, more productive unit based on a vision in which faculty, staff, students, alumni, partnering agencies, sponsors, and publics served had a vested interest; and ensured high accountability for quality and productivity.
- Managed the fiscal, physical, and human resources; led assessment and continuous improvement of academic programs as well as research and extension programs.
- Represented the land grant mission of the University and the College at local, state, regional, national, and international levels; strengthened existing and created new academic, research, and extension programs distinguished by their integration and collaboration.
- Enforced the meeting of compliance requirements including but not limited to those related to federal and state reporting as well as NCAA guidelines for student athletes; planned and implemented the strategic plan of the University with special emphasis on enrollment, retention, and graduation goals.
- Led a cadre of professional (faculty, research scientists, and extension staff) from diverse cultures and backgrounds. The College was comprised of professionals from the United States, South East Asian, Asia, Africa (east, north and west), South America, and the Caribbean. I engaged our students and staff and involved them in the decision-making process of the College.
- Co-led the strategic planning effort for Waller County (home county of PVAMU).
- Led the development of proposal submission policy, export control policy, academic course substitution policy, and standard operation procedures for our extension and research programs.
- Successfully led the College of Agriculture and Human Sciences in addressing all issues related to management inefficiencies identified by the United States Department of Agriculture (Management Alert) prior to my joining the University.
- Led the development of a comprehensive strategic plan for the College.
- Restructured the fiscal unit and encourage all personnel to cross-train and they did.
- Collaborated with the Dean of the College of Business for the construction of a \$38 million, 90k square-foot academic facility that currently houses the Colleges of Agriculture and Business.
- Led the restructuring of the academic program in Human Nutrition and Food.
- Developed a proposal submission policy for the College.
- Re-organized the College's Communication and Information Technology unit and increased the staff from three to eight.
- Established an Accountability Team that focused on our Plan-of-Work, which was a document that was submitted to the USDA for the land grant federal funds allocation to Prairie View A&M University.

- Led a visioning process for facilities planning and use of the \$15 million allocated to the College through the USDA 1890 Facilities program to construct a meats laboratory, creamery, and rodeo arena.
- Hired about half of the staff currently in the College.
- Restructured the scholarship awarding process to help the College become competitive in recruiting students.
- Developed the “One College” concept that enabled faculty and staff to work together toward a common goal and not working in silos.
- Developed a seamless working relationship with Texas A&M University College of Agriculture and Life Sciences, Research and Extension agencies.
- Led a team of faculty and staff to write and subsequently received a grant (\$565k) to help increase student enrollment and retention in the College.
- Led the College to conduct the first Future Farmers of America (FFA) Career Development Event (CDE) and Leadership Development Event (LDE) in the history of the University. The two events combined brought 805, 1021, and 1530 FFA high school students to the campus in the first, second and third year, respectively. These events were institutionalized and now the events are sustainable.
- Instituted a course, Land Grant Systems and Food Security (AGHR 1303), as a behavioral science course where all students at PVAMU can enroll in as part of their university core course. The rationale is to give students the opportunity to understand the significance of the land grant system and how it has propelled the United States to champion food, fiber and fuel production.
- Provided financial support for professional development for my direct and indirect reports.
- Streamlined travel activities in the College and saved over \$220k annually.
- Led the revamping of the College's website to make it user-friendly.
- Led the development of an alumni information portal on the College's website where alumni names are located by year of graduation and their respective degrees.
- Student enrollment in the College increased from 260 in 2012 to 465 in 2016.

#### **Alcorn State University (1994-2011)**

- Developed an Environmental Science Option in the Agricultural Sciences program.
- Served as Founding Director who conceived and developed research programs of the Mississippi River Research Center.
- Served as principal investigator or co-investigator in securing about \$4.9 million in federal funds to conduct natural resources work.
- Provided leadership to thirty-eight research scientists and engineers who were actively engaged in research or other creative endeavors.
- Re-aligned the research program to ensure efficient and effective use of our fiscal, human, and physical resources.
- Initiated plans for construction of the main building at the Extension/Research Farm and Technology Center in Bolivar County, MS; construction of the Ecology and Natural Resources building (home of the Mississippi River Research Center); and construction of the Product Development Center.
- Led the effort to furnish the Center for Biotechnology and Genomics using funds from the USDA-NIFA.

- Led a team to prepare the Institutional Effectiveness (IE) plan and report for research in the School of Agriculture, Research, Extension, and Applied Sciences (AREAS) when Alcorn State underwent accreditation by the Southern Association of Colleges and Schools (SACS).
- Served as co-chair of the Presidential Transition Team for the 17th President of Alcorn State University. As co-chair, it was my duty to work with the other co-chair in generating reports that related to the mood of the university, assessing the strengths, weaknesses, opportunities and threats of every unit, school and division at the University.
- Served as president of the ASU Faculty Assembly. It was my duty to call and chair meetings that related to faculty welfare. The assembly elected members of the Tenure, Rank, Promotion and Leave Committee.
- Served with state legislators on a legislative task force as an expert on water quality issues in Mississippi. I also articulated ASU's water resources research activities to the Mississippi state legislature and brought visibility to our program.
- Served as NCAA Faculty Athletic Representative (FAR). My primary responsibility was to represent the university administration on athletics matters that related to student-athletes and academic compliance.
- Served as a member of the Mississippi University Research Authority (MURA). The MURA promotes the public welfare and foster economic development within the state. It strengthens the links between state government, its educational institutions, businesses and industrial communities by developing cooperative ventures. It also facilitates the formation of university research corporations to promote, develop, and administer enterprises arising from research or technological innovations in order to take advantage of opportunities of scientific, educational, and economic impact.

### **Invitations**

- 2018: Invited to speak on "Leadership" at the National Extension and Research Administrative Officers Conference, Grant Rapids, MI
- 2013: Invited to participate in a panel discussion on "Land Grant Institutions and the World", Cornell University.
- 2012: Invited to represent 1890 Extension and present 1890 Extension activities to the National Agricultural, Research, Education, Extension, and Economics (NAREEE) Advisory Board meeting. College Station, TX.
- 2008: Invited to present a paper on "Selected Research Activities at Alcorn State University". National Security Directorate, Oak Ridge National Laboratory, Oak Ridge, TN.
- 2007: Invited to present a research paper on "Hydrologic Modeling in a Complex Watershed". Corps of Engineers, Vicksburg District, Vicksburg, MS.
- 2005: Invited to preside over the session, "Assessment of Management Impacts on Soil Properties". 69<sup>th</sup> Annual Meeting of Soil Science Society of America. Salt Lake City, UT.
- 2004: Invited to present a paper on "Impact of Poultry Litter on Adsorption and Degradation of Metolachlor in Two Mississippi Alluvial Soils". The West Coast Conference on Soil, Water and Sediments, San Diego, CA.
- 2000: Invited to serve on a proposal review panel for the National Research Initiative Competitive Grants Program, Washington DC.
- 2000: Invited as co-present a paper, "Scaling Issues in Remote Sensing of Soil Moisture". The symposium, "Scaling Issues in Soil Physics", at the annual meeting of the Soil Science Society of America, Charlotte, NC.

- 2000: Invited to moderate a session at the Annual Mississippi Water Resources Conference, Raymond, MS.
- 1999: Invited to present a research paper, "Saturated Atrazine Transport Under Two Tillage Systems". 10<sup>th</sup> Annual Conference of the International Soil Conservation Organization, Purdue University, West Lafayette, IN.
- 1998: Invited to present a paper on the topic, "The Impact of Agriculture on the Environmental Quality of the Delta Region". 5<sup>th</sup> Annual Conference of the Delta Economic Energy District, Inc., Lake Providence, LA.
- 1998: Invited to moderate a soil physics session on "Soil Hydraulic Properties and Soil Structure." Annual meeting the Soil Science Society of America, Baltimore, MD.
- 1998: Invited to moderate a session at the Southern Region Soils Conference, Baton Rouge, LA.
- 1998: Invited to serve on a panel for a joint USEPA and the Institute for Environmental Negotiations Workshop on, "What Works: Successful Implementation of Community Wellhead Protection", Richmond, VA.
- 1996: Invited to present and serve on a panel for a workshop: "Understanding the Gulf of Mexico Ecosystem", Long Beach, MS.

### **Voluntary Presentations**

- 2006: Johnson, A. B., T. Tsegaye and J. Massey. Adsorption of Heavy Metals in a Loessial Soil. 14<sup>th</sup> Biennial Research Symposium, Association of Research Directors. Atlanta, GA.
- 2006: Johnson, A. B., P. Ampim and S. Adu-Prah. Land Use Influence on Soil Hydraulic Properties. 14<sup>th</sup> Biennial Research Symposium, Association of Research Directors. Atlanta, GA.
- 2006: Johnson, A. B., Stanly Mason, Will Frymire, Carol Boll and Charles Price. Assessment of Nutrients and Bacteria in the Homochitto Watershed. 14<sup>th</sup> Biennial Research Symposium, Association of Research Directors. Atlanta, GA.
- 2004: Mason, S., A. B. Johnson, W. Frymire, C. Boll, and C. S. Price. Assessment of bio-contaminants in the Porter Creek Basin of the Homochitto National Forest. Mississippi Water Resources Conference, Raymond, MS.
- 2004: Ampim, P., A. B. Johnson, J. H. Massey, and T. Tsegaye. Spatial modeling of soil hydraulic properties. Mississippi Water Resources Conference, Raymond, MS.
- 2004: Johnson, A. B., P. Ampim, J. H. Massey, and T. Tsegaye. Characterizing soil hydraulic properties under varied landuse. 11<sup>th</sup> Annual meeting of the Southern Branch of the American Society of Agronomy, Biloxi, MS.
- 2003: Johnson, A. B., P. Ampim and J. H. Massey. Variability of Metolachlor adsorption in a tilled lossial soil. 10<sup>th</sup> Annual meeting of the Southern Branch of the American Society of Agronomy, Mobile, AL.
- 2002: Johnson, A. B., M. O. Jordan, D. E. Rowe, and T. Tsegaye. Runoff quality from bermudagrass plots treated with poultry litter. Annual Meeting of the Soil Science Society of America, Indianapolis, IN.
- 2002: Johnson, A. B., S. K. Dwivedi, M. O. Jordan, D. E. Rowe and T. Tsegaye. Metolachlor adsorption and degradation in poultry litter amended alluvial soils. 99<sup>th</sup> Annual Meeting of the Southern Association of Agricultural Scientists, Orlando, FL.
- 2001: Johnson, A. B., D. E. Rowe, T. Tsegaye and M. O. Jordan. Adsorption of atrazine and metolachlor in poultry litter amended alluvial soils. Annual Meeting of the Soil Science Society of America, Charlotte, NC.



- 1998: Johnson, A. B. Saturated atrazine transport under two tillage systems. 10<sup>th</sup> International Soil Conservation Organization Conference, West Lafayette, IN.
- 1998: Johnson, A. B. and R. D. Burks. Transport of two solutes in a loessial soil. International Water Resources Engineering Conference, Memphis TN.
- 1998: Johnson, A. B. 1998. Solute movement in a structured loessial soil under two tillage practices. 28<sup>th</sup> Mississippi Water Resources Conference, Jackson, Mississippi.
- 1996: Johnson, A. B. Modeling water transport in a silt loam soil of the Southern Mississippi Valley Silty Uplands. 26<sup>th</sup> Mississippi Water Resources Conference, Jackson, MS.
- 1995: Johnson, A. B. and H. Don Scott. Use of geographic information systems and a computer simulation model to estimate vadose zone loading of pesticides. 25<sup>th</sup> Mississippi Water Resources Conference, Jackson, MS.

### **Awards and Recognition**

- 1998: The Dean's Outstanding Researcher of the Years: The School of Agriculture, Alcorn State University
- 1995: Recognition by the Congressional Information System for paper, "Use of GIS and a Computer Simulation Model to Estimate Vadose Zone Loading of Pesticides"
- 1992: Outstanding Graduate Student Paper Award: The Southern Association of Agricultural Scientists-American Society of Agronomy - Second Place

### **Committee Assignments - Professional**

#### **National Assignments**

- 2012-present: Member, Association of 1890 Land-Grant Directors
- 2012-present: Member, Association of 1890 Extension Administrators
- 2015: Reviewer, White House Compendium on Historically Black Colleges and Universities.
- 2000-2003: Reviewer, Wetlands (Journal)
- 2000: Reviewer, National Research Initiative (NRI) Competitive Grant proposals
- 1996-2000: Reviewer - Journal of Environmental Quality
- 2005-2011: Reviewer, Journal of Soil and Water Conservation
- 2003: External Proposal Reviewer – University of Hawaii College of Tropical and Human Resources – Department of Natural Resources and Environmental Management
- 1999-2001: Member, Emil Truog Soil Science Award Committee (Soil Science Society of America)
- 1999-2000: Reviewer - International Soil Conservation Organization Proceedings
- 1998-2000: Member of the Board on Natural Resources - National Association of State Universities and Land Grant Colleges (NASULGC)
- 1998-2000: Member of the Board on Ecology - National Association of State Universities and Land Grant Colleges (NASULGC)
- 1998-2000: Reviewer - NASA Headquarters NRA-98-OES-09 "Remote Sensing Applications Research in Agriculture, Forestry and Range Resources Management"
- 1998-1999: Member, USEPA Technical Work Group
- 1997-1999: Member, USEPA Peer Review Panel

1995-2000: Reviewer, Liberian Studies Journal

### **Regional Assignments**

2000-2001: Chair, IEG-73 - Southern Region Soil Physics Information Exchange Group (Formerly S-257)  
1999-2000: Co-Chairman, IEG - 73-Southern Soil Physics Information Exchange Group (Formerly S-257)  
1998-1999: Secretary, S-257 - Soil Physics Regional Project (Classifying soils for solute transport as affected by soil properties and landscape position)  
1996-2003: Member, Business Council for Reforestation and Sustainable Development, Gulf of Mexico

### **State Assignments**

2017- present: Member, Steering Committee, Ohio Smart Agriculture: Solution from the Land  
2017-present: Member, Steering Committee, Ohio Louis Stokes Alliance for Minority Participation (LSAMP)  
2008-2009: Member, Alcorn State University Master Planning Committee  
2008-2010: Member, Mississippi University Research Authority  
2008: Member, Alcorn State University Strategic Planning Committee  
2006: Chair, Committee on Grants, Contracts, and Sponsored Research, Alcorn State University  
2003: Member, Pearl River and South Independent Streams Basin Team (Mississippi Department of Environmental Quality)  
2003: Chair, Building Committee for the Center for Ecology and Natural Resources  
2006: Member, Presidential Search Advisory Committee, Alcorn State University  
2007: Member, Mississippi College Board Presidential Search Committee, Alcorn State University  
1998: Member, Mississippi Environmental Issues Task Force (State Legislature)  
1996: Chairman, Wellhead Protect Advisory Council, Alcorn State University,  
1996: Member, Natural Resources Conservation Service Soil Survey Technical Committee (Mississippi)  
1996-2003: Member, State Agri-Medicine Committee

### **GRANTS**

1. Alton B. Johnson, Augustus Morris, Cadance Lowell, Clarence Bunch, Ibrahim Katampe, and Krishnakumar Nuduneri. 2017. Increasing Student Enrollment and Retention in the College of Science and Engineering. **\$598,898. (US Department of Agriculture-NIFA)**
2. Alton B. Johnson, Rukeia Draw-Hood, M. Gail Long, Laura Carson, Yunsoon Jung, Kwaku Addo, and Milton Daley. 2014. Increasing Student Enrollment in the College of Agriculture and Human Sciences. **\$564,838. (US Department of Agriculture-NIFA)**
3. Charles Waggoner, Bill Cooke, and Alton Johnson. 2010. A Tool for Rapid Prediction of Hurricane Damage and Debris Generation. **\$650,000. (US Department of Energy)**
4. Maifan Silitonga and Alton B. Johnson. 2008-2011. Sustainable Agriculture and the Environment. **\$470,000 (USDA-Evans-Allen)**

5. Charles Waggoner, Bill Cooke, Phil Steele, Chris Winstead, Alton Johnson, and John Plodinec. 2008-2009. Tools for Enhanced Mapping and Managing Post-disaster Debris. **\$2,000,000. (US Department of Energy)**
6. Alton B. Johnson. 2006. A demonstration project to assess, quantify and develop management strategies for pastures, ponds, and other related land uses affected by storm surge during Hurricane Katrina. **\$40,000 (USDA-NRCS)**
7. Alton B. Johnson, Samuel Adu-Prah and Dovi Alipoe. 2004-2007. Building Human Capacity and Enhancing Watershed Research at Alcorn State University. **\$299,924 (USDA-CSREES)**
8. Joseph H. Massey, M. Cade Smith, Earl D. Vories, Alton B. Johnson and Ronald E. Talbert. 2003-2006. Improved Irrigation Efficiency and Reduced Potential for Surface Water Contamination Using Intermittent Plus Multiple-Inlet Irrigation in Rice (*Oryza sativa*) Production. **\$596,000 (USDA-CSREES)**
9. Joseph H. Massey, Kevin L. Armbrust, Barry R. Stewart and Alton B. Johnson. 2003-2004. Improved Estimation of Nutrient and Pesticide Runoff Losses from Golf Courses and Residential Lawns in the Southern Atlantic-Gulf Coast. **\$45,034 (Mississippi Water Resources Research Institute)**
10. Alton B. Johnson, Franklin Chukwuma, Dovi Alipoe and Brenda Buck. 2002-2004. A Demonstration Project Using Spatial Technology for Pollution Prevention in Mississippi and Louisiana. **\$299,637 (Department of Commerce – NOAA)**
11. O. P. Vadhwa, Dovi Alipoe, Len Huam, Wesley Whittaker and Alton B. Johnson. 2002-2004. Integrated Production and Marketing Systems for Vegetable Crops. **\$265,000 (USDA -CSREES)**
12. Patrick E. Igbokwe, O. P. Vadhwa and A. B. Johnson. 2000-2003. Enhancing Other Race Student Recruitment in Soil and Plant Science. **\$172,931 (USDA-CSREES)**
13. Alton B. Johnson. 2000. Phosphorus Nutrient Profiles and Heavily Applied Poultry Litter to Soils for Forage Production - **\$22,000.00 - annually (\$5,000) and continuous (USDA-ARS)**
14. H. Don Scott, Alton B. Johnson, David R. Shaw, Terry L. Levy and Kenneth B. Young. 1996-1997. Vulnerability of Surface and Ground Waters in the Southern Mississippi Valley Region - **\$340,860.00 (US Geological Survey, Arkansas Water Resources Center and Mississippi Water Resources Research Institute)**
15. Alton B. Johnson. 1996. Development of Wellhead Protection Programs for the Westside and Port Gibson communities in Southwest Mississippi - **\$12,500.00 (USEPA)**
16. Alton B. Johnson. 1996. Development of a Wellhead Protection Program for Alcorn State University - **\$12,500.00 (USEPA)**
17. Alton B. Johnson, H. Don Scott, and Ronald DeLaune. 1996-1999. Assessment of Pesticide Fate in the Mississippi Delta and Feed Grains Region - **\$269,712.00 (USDA Capacity Building Program)**
18. Alton B. Johnson. 1996. Assessment of Poultry Production in the Tangipahoa River Basin **\$25,852.12 (Gulf of Mexico Program)**
19. Alton B. Johnson. 1994. Improving Student Performance in Agriculture with Audiovisuals and Computer- aided Instruction Software **\$10,000.00 (Mississippi Institutions of Higher Learning)**

## **OTHER PROFESSIONAL ACTIVITIES**

### **Serve(d) as Major professor for:**

1. Reginald D. Burks, M.S. (**Completed in May 1998**)  
**Thesis:** Field-scale Bromide Transport in a Loessial Soil
2. Sarah Fleming, M.S. (**Completed in May 2000**)  
**Thesis:** Adsorption and Degradation of Metolachlor and Metribuzin in a No-till System with Three Winter Crop Covers
3. Cedric Sims, M.S. (**Completed in May 2001**)  
**Thesis:** Spatial Variability of Water Infiltration in a Loessial Soil Under Two Tillage Practices
4. Mariantonette Jordan (**Completed in May 2002**)  
**Thesis:** Field-scale Phosphorus, Nitrogen and Trace Elements Transport from Pasture Applied with Poultry Litter
5. Peter Ampim (**Completed in December 2003**)  
**Thesis:** Spatial Variability of Selected Properties of a Loessial Soil
6. Ebony Franklin (**Completed in May 2011**)  
**Thesis:** Land Use Influence on Water Infiltration of a Loessial Soil.
7. Kia Alexander (**Completed in May 2011**)  
**Thesis:** Quantifying Hydraulic Properties of Three Alluvial Soils Under Row Crop Production.

### **Served on Dissertation Committee for:**

Dr. Homer L. Wilkes, Former Acting Associate Chief, Natural Resources Conservation Service, USDA, Washington DC. (**2006**)

## **RECOGNITION OF GRADUATE STUDENTS UNDER MY SUPERVISION**

- 2003: Stanley Mason (**Deceased**): Adsorption of Heavy Metals on a Dominant Soil in the Southern Mississippi Valley Silty Uplands. (**First Place Student Poster Presentation** - Tenth Annual Meeting of the Southern Association of Agricultural Scientists, Mobile, AL)
- 2002: Mariantonette Jordan. Simulated Runoff Quality from Bermudagrass Plots Receiving Poultry Litter. (**Second Place Student Poster Presentation** – 9<sup>th</sup> Annual Meeting of the Southern Association of Agricultural Scientists, Orlando, FL)

## **COURSES TAUGHT**

Soil Physics (PS 493/593 - Alcorn State University, ASU)  
Soil Conservation and Land Use (PS 437/537) - ASU  
Soils (PS 315) - ASU  
Soil Morphology and Classification (PS 446) - ASU  
Advanced Soil Classification (PS 535) - ASU  
Environmental Science (PS 483) - ASU  
Environmental and Agricultural Law (PS 497) - ASU  
Introductory Soils Laboratory (AGN 3301L- Mississippi State University, MSU)  
Soil Physics Laboratory - MSU and University of Arkansas at Fayetteville (UAF)  
Soil Physics (AGRN 4200) - UAF  
Mathematical Modeling for the Life Sciences (AGRN 5504) – UAF  
Microclimatology (PS 592) - ASU

## **PUBLICATIONS AND JOURNAL ARTICLES**

- Johnson, A. B.**, H. D. Scott, and R. D. Riggs. 1993. Penetration of soybean roots by cyst nematode at high soil water potentials. *Agron. J.* 85:416-419.
- Johnson, A. B.**, K. S. Kim, R. D. Riggs, and H. D. Scott. 1993. Location of *Heterodera* glycines-induced syncytia in soybean as affected by soil water regimes. *J. Nematology.* 25(3):422-426.
- Johnson, A. B.**, H. D. Scott, and R. D. Riggs. 1993. Soil water management to minimize soybean yield loss to cyst nematode. *Arkansas Farm Res.* 42(5):8-9.
- Johnson, A. B.**, H. D. Scott, and R. D. Riggs. 1994. Response of soybean in cyst nematode infested soil at varied soils water regimes. *J. Nematology.* 26(3):329-335.
- Johnson, A. B.**, A. Mauromoustakos, H. D. Scott, and R. D. Riggs. 1995. Spatial analysis of preplant cyst population of soybean cyst nematode: geostatistical approach. *In* Zabawa (ed.) *Local Community and Sustainable Development.* p. 234-242.
- Johnson, A. B.**, and H. D. Scott. 1995. Use of Geographic Information System and a computer simulation model to estimate vadose zone loading of pesticides. *Mississippi Water Resources Research Conf. Proc.* p. 132-139.
- Johnson, A. B.** 1996. Modeling water transport in a silt loam soil of the Southern Mississippi Valley Silty Uplands. *Mississippi Water Resources Conf. Proc.* p. 224-232.
- Johnson, A. B.**, and J. E. Hairston. 1996. Change in properties of two Blackland Prairie soils after application of paper mill sludge. *The 54th Annual Professional Agricultural Workers Conference.* Tuskegee, Alabama.
- Johnson, A. B.**, and R. D. Burks. 1998. Transport of two solutes in a loessial soil. *Proc. Water Resources Engineering '98.* Vol. 2: p. 1284-1289.
- Mulbah C. K., J. D. Porthouse, A. Jugsujinda, R. D. DeLaune, and **A. B. Johnson.** 2000. Impact of redox conditions on metolachlor and metribuzin degradation in Mississippi flood plain soils. *J. of Environ. Sci. and Health, Part B.*35(6):689-704.
- Johnson, A. B.** 2001. Adsorption and degradation of metolachlor and metribuzin in a no-till system under three winter crop covers. *J. of Soil and Sediment Contamination.* 10(5):525-527.
- Johnson, A. B.** 2001. Saturated transport of atrazine under two tillage systems. *In* D. E. Stott, R. H. Mohtar and G. C. Steinhardt (ed). *Sustaining the global farm. Selected papers from the 10<sup>th</sup> International Soil Conservation Organization.* p. 283-287.
- Ampim, P., **A. B. Johnson**, J. H. Massey and T. Tsegaye. 2004. Spatial modeling of soil hydraulic properties. *Proceedings of the Mississippi Water Resources Conference.* p. 8-15.
- Tsegaye, T., D. Sheppard, K. R. Islam, **A. Johnson**, W. Tadesse, A. Atalay, and L. Marzen. 2006. Development of chemical index as a measure of in-stream water quality in response to land-use and land cover changes. *J. of Water, Air and Soil Pollution.* 174 (1) 161-179.
- Tsegaye, Teferi, **Alton Johnson**, Wendi Mersie and Karnita Golson. 2007. Transport of atrazine through soil columns with or without switchgrass roots. *J. of Food, Agriculture and Environment.* Vol. 5 (2):345-350.
- Johnson, Alton B.**, Dennis E. Rowe, and Teferi Tsegaye. 2011. Adsorption and Degradation of Metolachlor in Alluvial Soils: Effect of Poultry Litter. *Journal of Sustainable Watershed Science & Management.* Vol.1 (1):31-35.
- Fares, A., R. Awal, H. Valenzuela, S. Fares, **A. B. Johnson**, A. Dogan, and N. Nagata. 2013. Effect of irrigation and landscape species on irrigation water requirements simulated by the Irrigation Management Systems. *Proceeding of the Irrigation Show and Education Conference.* Curran Associates Inc. Austin, TX.

- Fares, Ali, Ripendra Awal, Samira Fares, **Alton B. Johnson**, Hector Valenzuela. 2015. Irrigation water requirements for seed corn and coffee under potential climate change scenarios. *Journal of Water and Climate Change*. (doi:10.2166/wcc.2015.025).
- Osuji, G.O., E. Duffus, P. Johnson, S. Woldesenbet, A. Weerasooriya, P. A. Y. Ampim, L. Carson, Y. Jung, S. South, E. Idan, D. Johnson, D. Clarke, B. Lawton, A. Parks, A. Fares, and **Johnson, A.** 2015. Enhancement of the essential amino acid composition of food crop proteins through biotechnology. *American Journal of Plant Sciences*. 6: 3093-3108. <http://dx.doi.org/10.4236/ajps.619302>.
- Osuji, G.O., A. Weerasooriya, P. A.Y. Ampim, L. Carson, P. Johnson, Y. Jung, E. Duffus, S. Woldesenbet, S. South, E. Idan, D. Johnson, D. Clarke, B. Lawton, A. Parks, A. Fares, **A. Johnson.** 2015. Molecular regulation of the metabolic pathways of the medicinal plants: *Phyla dulcis*. *American Journal of Plant Sciences*, 6: 1717-1726. <http://dx.doi.org/10.4236/ajps.2015.611171>.

### **Book Chapters**

- Scott, H. D., H. M. Selim, and **A. B. Johnson.** 2000. MLRA 134: Southern Mississippi Valley Silty Uplands. *In* H. D. Scott (ed.) *Water and chemical transport in soils of the southern United States*. Ark. Exp. Stn. Spec. Rep. 197. p. 275-288.
- T. D. Tsegaye, W. L. Crosson, C. A. Laymon, M. P. Schamschula, and **A. B. Johnson.** 2003. Application of a Neural Network-Based Spatial Disaggregation Scheme for Addressing Scaling of Soil Moisture. *In* Y. Pachepsky, D. Radcliffe and M. Selim (eds.). *Scaling Methods in Soil Physics*. Chapter 15. CRC Press. New York.

### **Contribution to a Book Chapter**

- H. Don Scott. 2000. *Soil Physics: Agricultural and Environmental Applications*. Chapter 7: Solute Transport. pp. 294. Figure 11.7 supplied by **Alton B. Johnson**. Iowa State University Press.