

CHANDRA REDDY

Dean and Director of Research and Extension

College of Agriculture, Human and Natural Sciences

Tennessee State University (Box # 9641)

3500 John Merritt Blvd.

Nashville, TN 37209

**Educational Background**

1979-1982    **Ph.D.** Agronomy, **University of Florida**, 1982.

1975-1977    **M.S.** Agronomy, NG Ranga Agricultural University/International Crops Research Institute for Semi-Arid Tropics (ICRISAT), 1977. **University Gold Medalist.**

1970-1974    **B.S.** Agricultural Sciences, NG Ranga Agricultural University, **First Class with Distinction and National Scholar.**

**Recent Professional Development Training**

2013            Millennium Leadership Initiative (MLI) Institute, **American Association of State Colleges and Universities (AACSC)**, Washington, DC.

2010-12        Food Systems Leadership Institute (FSLI), **Association of Public and Land-Grant Universities (APLU)**, Washington, DC.

2006            Management Development Program, **Harvard University**, Cambridge, MA.

2006            Innovation and Entrepreneurship, **Kauffman Foundation**, Kansas City, MO.

2004            New Deans Institute, **Council of Graduate Schools**, San Juan, PR.

**Professional Experiences**

2008-Current **Dean and Director of Research and Extension**, College of Agriculture, Human and Natural Sciences, Tennessee State University, Nashville, TN 37209

**Duties and Responsibilities:**

- Provide vision and dynamic leadership to the land grant mission of Tennessee State University's College of Agriculture, Human and Natural Sciences; lead and represent the academic departments within the College, the Institute of Food, Agricultural and Environmental Research, the Agricultural Research and Education Centers, the Center for Prevention Research, and the Cooperative Extension Program.

- Administer and provide leadership on all research, extension, academic, and financial affairs; work closely with the senior university administration including deans of other colleges of the university and president of the university.
- Lead College programming, including the hiring and placement of faculty and budget management.
- Represent the College to external constituents in Tennessee and on national and international levels.
- Work with appropriate university officials, Tennessee legislators, congressional delegates, and other members of Congress to support the Research, Extension, and Education budget of USDA and other Science departments.
- Secure private endowments and increase extramural funding.

### Key Accomplishments

#### Academic Programs:

The College has four academic departments that offer a range of programs from core curriculum to Ph.D. degrees. The College currently has 220 employees, about 100 of whom are faculty.

- Strengthened academic programs by adding 25 new Ph.D. level faculty positions funded primarily through external sources.
- Developed several new academic programs (three graduate and three undergraduate programs) which are being reviewed by the Tennessee Board of Regents and Tennessee Higher Education Commission. Two of these new programs will be offered completely online (excluding the internship).
- Saved three programs from “non-viable” status by improving student graduation rates; all programs in the College have successfully completed academic audits or accreditation reviews including NCATE and SACS.
- Chaired the University’s Academic Program Prioritization Task Force which helped to eliminate non-viable academic programs, strengthen key mission-essential disciplines, and improve TSU’s academic program management structure.

#### Student Completion Rates:

The College’s current enrollment is 1100 students, about 150 of whom are graduate students.

- Improved student enrollment and completion rates in agricultural programs by several fold in four years through innovative recruitment strategies including:
  - summer internship programs;
  - a Dean’s Scholars program;
  - an undergraduate student research program;
  - a graduate research assistantship program;
  - a comprehensive and dynamic website; and
  - various programs to increase diversity and inclusiveness efforts, among other initiatives.

### Restructuring:

- Spearheaded the integration of the three key components of the land grant mission—teaching, research and extension—and restructured the School of Agriculture and Consumer Sciences into the College of Agriculture, Human and Natural Sciences.
- Basic tenets of this restructuring included:
  - awarding joint appointments to faculty with responsibilities in two or more mission areas;
  - granting graduate faculty status to qualified research and extension faculty; and
  - establishing a common salary structure and evaluation instrument to all faculty.
- Developed a new strategic plan that envisions several new academic programs, higher levels of faculty scholarship, and student completion rates.
- Created a new Business Office to manage and streamline the College's operations, including personnel, finances and facilities; established an Executive Committee to develop and implement policies and procedures for the College.

### Research:

The College has an Institute for Agricultural and Environmental Research and four Research Centers. Current funded research in the College amounts to \$55 million.

- Created Faculty Focus Groups in 2008 to develop a new vision and advance research quality in the College.
- Hired several new research faculty in national priority areas such as biofuels.
- Developed new faculty productivity goals and standards to emphasize scholarship, creativity, the ability to secure external grant funds, publication, and excellence in teaching.

### Outreach/Extension:

The College's Cooperative Extension Program has extension educators in 42 of the 95 Counties, and plans are to expand presence into 50 counties.

- Hired several new extension faculty and agents which helped dramatically increase county operations from 12 to 34 counties in a short period of time; this strategy has expanded the overall outreach of the Cooperative Extension Program to stakeholders, particularly for youth-development in rural Tennessee by several-fold.
- Developed a close partnership with the University of Tennessee and the County governments to improve effectiveness of TSU's outreach efforts and to attract top quality extension educators; a competitive compensation plan was adopted in 2012.

### External Funding:

Faculty grant applications and external funding have increased by 300%. Total research and extension dollars administered by the College has steadily increased from \$18 million to \$55 million.

### Facilities Improvement:

To accommodate the rapid growth in enrolled students and employed faculty and staff, new physical facilities have been added, refurbished and remodeled with \$12 million project outlays (all grant funded), including:

- Six new greenhouses;
- A landscape studio;
- A 25,000 sq ft biotechnology building currently under construction; and
- A modernization of the main campus' Agricultural Research and Education Center to include:
  - an Agricultural Education Workshop;
  - a Field Research Support Building;
  - an Equipment Shed; and
  - a Pesticide Storage and Washing Facility.
- Additionally, the College's website has been revamped and updated on a regular basis.

### Fund Raising:

- Cultivated alumni and legislative relations to effectively implement the College's mission, which, among other things, has resulted in:
  - an additional \$1.7 million annual allocation to the agricultural research and extension budget by the state legislature; and
  - several donations/gifts including a major gift of \$416,000 and 200 acres of prime agricultural land, valued at \$6-7 million, that was received from a single donor to establish a Center and an endowed chair position in Sustainable Agriculture.

2001-2006 Dean, School of Graduate Studies, Alabama A&M University, Normal, AL.  
35762

### Duties and Responsibilities:

- Was responsible for the oversight of university-wide graduate programs and improving the quality of graduate education and research at Alabama A&M University.
- Led policy development for graduate education, the review of new programs, and the fostering of interdisciplinary programs in collaboration with graduate faculty and graduate council.
- Worked closely with the academic departments and coordinated all aspects of graduate education and research, including:

- admissions;
- programs of study;
- comprehensive examinations;
- quality control of thesis/dissertation research;
- implementation of assistantship, scholarship, and fellowship programs;
- appointment of graduate faculty;
- curricula and new program development; and
- scheduling graduate courses.

### Key Accomplishments:

- Developed new graduate programs:
  - initiated a Ph.D. program in Reading; and
  - acquired a Sloan Foundation grant to develop a new Professional Master's program in Applied Statistics.
- Increased Ed. S. program specializations from 4 to 14.
- Eliminated non-viable graduate programs.
- Enhanced graduate admission requirements to improve the quality of students.
- Increased Ph.D. student enrollment by 30% and international student enrollment by 20%.
- Introduced an on-line admissions and data management process, including:
  - developing a robust website for the Graduate School; and
  - streamlining the policies and procedures governing the Graduate School.
- Improved the quality of life for graduate students in the following ways:
  - instituted a competitive graduate assistantship program;
  - established a Graduate Student Council;
  - established an International Graduate Student Association; and
  - established a graduate honor society.
- Increased visibility of the Graduate School by taking an active role in state, regional, and national level Councils of Graduate Schools.
- Obtained successful reviews from several national level accrediting bodies including NCATE and SACS.

1998-2001 Faculty Senate President, Alabama A&M University, Normal, AL 35762

### Duties and Responsibilities:

- Represent faculty on various university-wide governance committees including the University's Board of Trustees for three consecutive terms.

### Key Accomplishments:

- Strengthened *shared governance* of the University by establishing a new framework for faculty participation in the university administration.

- Was instrumental in creating an ex-officio Board-seat for the Faculty Senate President in 2000 and became the first faculty representative to the university's Board of Trustees, eventually becoming a model for public universities in Alabama.
- Played a key role in restructuring academic programs, administrative units, and in retaining agricultural and engineering programs.
- Secured a better faculty/staff compensation plan which raised A&M salaries to the comparable Southern Region Education Board averages.

1994-2008 Professor, Alabama A&M University, Normal, AL 35762

1989-1994 Associate Professor, Alabama A&M University, Normal, AL 35762

#### Duties and Responsibilities:

- Responsible for teaching, research, and public service in the department of Natural Resources and Environmental Sciences.

#### Key Accomplishments:

- Developed a new teaching and research program in *Sustainable Agriculture*.
- Published several scholarly articles and made presentations at national and international conferences (>250); published a lab manual for the undergraduate course *Introduction to Plant Science*.
- Conducted research that helped improve environmental quality by increasing conservation tillage adoption in the Tennessee Valley region from 15% to 80%.
- Strengthened minority graduate education in agricultural sciences through collaborative arrangements with the USDA/ARS scientists.
- Served on 22 M.S. and Ph.D. students' theses and dissertation committees and as advisor to several undergraduate students majoring in *Crop Science* and *Environmental Science*.

1983-1989 Assistant Professor, Alabama A&M University, Normal, AL 35762.

1984-1992 Adjunct Faculty, Purdue University, West Lafayette, IN 47907

#### Duties and Responsibilities:

- Served as the senior agronomist on two different institution-building projects funded (\$40 million) by the USAID and led by Purdue University in Niger during 1984-1992.
- Was the Assistant Team Leader, Project Coordinator, and Chair of the Production Systems Research Working Group, responsible for:
  - training Nigerien scientists;
  - leading agronomic research;
  - equipping the research stations with necessary infrastructure for research and education; and
  - leading the multi-institutional team of experts from Purdue University, University of Nebraska, Alabama A&M University, and Winrock

International, in institution building efforts including financial management along with the Team Leader.

**Key Accomplishments:**

- Conducted the pioneering research on millet/cowpea inter-crop systems that led to significant cowpea production increase in West Africa.
- Published two books that were widely used in production agriculture in Africa and a crop production video that was broadcast in multiple languages over a decade with World Bank funding.
- Led one of the rare success stories of institutionalizing *Systems Approach* to Agricultural Research in Africa; this farming systems model was included in the *Selected Bibliography of Readings in Farming Systems* by **Bureau of Science and Technology**.

1982-1983     **Research Associate, Agronomy Dept., Univ. of Florida, Gainesville, FL 32611**

1976-1978     **Research Fellow, Resource Management Program, ICRISAT, Hyderabad, India**

1974-1975     **Farming, Family Farm, Nellore District, Andhra Pradesh State, India**

**Select Boards and Task Forces Served/Serving**

2011-current     **Member, Emerging Technologies Life Sciences Advisory Board**, Cumberland Pharmaceuticals, Nashville, TN

2010-current     **Member, The National Agricultural Research, Extension, Education, and Economics Advisory Board (NAREEEAB)**; advises the Secretary of Agriculture and the Congress on national agricultural policy matters, US Federal Govt., Washington, DC

2009-2011     **Chair, Academic Program Prioritization Task Force**, Tennessee State University, Nashville, TN 37209

2006     **Member, Alabama Public Universities Task Force for Minority Faculty and Student Recruitment and Retention**, UAB, Birmingham, AL, 2005-2006.

2005     **Secretary and Member-at-large, Executive Committee**, Alabama Council of Graduate Deans, 2003-2005

2000-2001     **Member (non-voting), Board of Trustees**, Alabama A&M University, Normal, AL 35762

1996-1998 **Member, Scientific Advisory Board**, National Agricultural Research Institute, Niger

### Select National and International Honors and Awards

2013 Top Professors at US Affordable HBCU Colleges, Affordable Colleges Online.

2012 **Tennessee State Government Resolution** to Commend Honorable and Astute Service to Tennessee State University, House Joint Resolution, 1084, 2012

2012 **Fellow**, the Food Systems Leadership Institute (FSLI), APLU, Washington, D.C.

2011 **Honorary FFA Degree**, Tennessee FFA Organization, Gatlinburg, TN

2010 **Fellow**, the Soil Science Society of America, Madison, WI

2010 **Outstanding Scientist**, the Association of Agricultural Scientists of Indian Origin (AASIO), Long Beach, CA

2010 **Key-note speaker and Member of International Scientific Committee**; 1 and 2<sup>nd</sup> International Conferences on Environmental Management, Hyderabad, India. October, 2005 and October, 2010

2008 **George Washington Carver Agricultural Excellence Award**, US State Dept./USAID, Washington, D.C.

2006 **Fellow, American Society of Agronomy**

1992 **Meritorious Service Award, Minister of Agriculture, Govt., Niger**

### Additional Honors and Awards

2008 **Community Service Award**, Earth Matters, Nashville, TN

2008 **Chairman, Review Panel, National Program on Agronomic Cropping Systems**, Agricultural Research Service/USDA, Washington, D.C.

2008 **Chairman, Symposium of Abiotic Stresses in Crop Production**, International Crop Science Congress, Jeju, Korea

2007 **Chairman, Symposium on Environmental Remediation and Panelist, on Climate Change**, the Indian Science Congress, Visakhapatnam, AP State, India

2007 **Member, Outstanding Scholar Awards Committee**, Council of



- Southern Graduate Schools (CSGS), 2005-2007
- 2007 **Chair, Thesis/Dissertation Awards Committee**, Council of Historically Black Graduate Schools, 2005-2007
- 2006 **Researcher of the Month**, Alabama A&M University, Normal, AL
- 2006-2010 **Associate Editor and Member of the Editorial Board**, Soil Science Society of America Journal (SSSAJ), 2006-2010
- 2002 **Certificate of Appreciation**, US Army Aviation and Missile Command/Redstone Arsenal, Huntsville, AL
- 2002 **Outstanding Service Resolution, Board of Trustees**, Alabama A&M University, Normal, AL 35762
- 2001 **Outstanding Service Award, Faculty Senate**, Alabama A&M University
- 2001 & 1994 **Outstanding Researcher Award**, School of Agricultural and Environmental Sciences, Alabama A & M University, Normal, AL 35762
- 1997 **Chairman, Faculty Affairs Committee/ Executive Committee, Faculty Senate**, Alabama A&M University, Normal, AL 35762
- 1990 **Meritorious Service Certificate**, Niger Research and Extension Services

### Membership in professional societies

American Society of Agronomy  
Soil Science Society of America  
Soil and Water Conservation Society of America  
Asian Agricultural Engineering Association  
International Soil Science Society  
International Soil Conservation Organization  
West African Farming Systems Network

### Membership in honorary societies

Alpha Zeta Agricultural Honor Society, elected 1981

### Membership in academic/research organizations

Association of Public and Land-Grant Universities (APLU)  
American Association of State Colleges and Universities (AASCU)

## Professional Service

Associate Editor and Member of the Editorial Board, Soil Science Society of America Journal, 2006-2010

### Reviewer for several professional journals including:

Agronomy Journal  
Journal of Farming Systems Research and Extension  
Journal of Production Agriculture  
Journal of Crop Science  
Journal of Natural Resources and Life Sciences Education.  
Tropical Agriculture  
Canadian Journal of Soil Science  
Soil Science Society of America Journal  
Journal of Hazardous Materials  
Journal of Sustainable Agriculture

### Book Reviewer:

Monograph on U.S. Cotton by Wayne, C. and J. Cothren. Publ; John Wiley and Sons, Inc., 1996.

## Select Committee Work

Chair, Task Force on Academic Program Prioritization, TSU, 2009-2011

Member, Search Committee for Vice-President for Development, TSU, 2011

Member, Academic Master Plan, TSU, 2008-2011

Member, Search Committee for Vice President for Academic Affairs, 2010

Member, Workload Committee, TSU, 2008-2010

Chair, Committee on University Travel Procedures, TSU, 2008-2009

Member, Provost Advisory Council, TSU, 2008-present

Member, Internal Program Steering and Advisory Committee for the HBCU-UP Program, TSU, 2008-Present

Chair, Departmental Promotions and Tenure Committee, 2007

Councilor, Oak Ridge Associated Universities, 2001-2007

Member, International Program Advisory Committee, AAMU, 1984-2007

Member, Information Technology Advisory Committee, AAMU, 2005-2007

Chair, Graduate Council, Alabama A&M University (AAMU), 2001-2006

- Member, Academic Standards and Curriculum Committee, AAMU, 2001-2006
- Member, Research Council, Alabama A&M University, 2000-2006
- Member, Planning and Budgeting Council, AAMU, 1998-2006
- Member, Institutional Effectiveness Committee, AAMU, 1998-2006
- Member, Provost's Academic Council, AAMU, 1999-2006
- Member, Deans Council, Alabama A&M University, 2001-2006
- Member, Alabama Public Universities Task Force for Minority Faculty and Student Recruitment and Retention, UAB, Birmingham, AL, 2005-2006
- Member, Internal Executive Committee, Center for Forest Ecosystems Assessment, Alabama A&M University, 2004-2006
- Organizing Committee, International Conference on Environmental Management, Oct. 28-30, 2005, Hyderabad, India
- Chair, Strategic Planning Committee-Viability-Productivity, Alabama A&M University, Normal, AL 35762, 2001-2004
- Member, Honorary Degree and Emeritus Professorship Awards Committee, Alabama A&M University, 1999-2001
- Member of the Strategic Planning Committee, School of Agricultural and Environmental Sciences, Alabama A&M University, 1998-2001
- Member of Faculty Reappointment Committee, Department of Plant and Soil Sciences, Alabama A&M University, 1994-2000
- Member, Curriculum Committee, Department of Plant and Soil Sciences, Alabama A&M University, 1992-2001
- Member, Promotions and Tenure Committee, AAMU, 1996-1998
- Chair, Promotions and Tenure Committee, School of Agricultural and Environmental Sciences, Alabama A&M University, 1997-1998
- Chair, Inter-CRSP research planning, USAID, Niamey, Niger, 1995

## Teaching

### Courses Taught:

SPS 616-Modeling Natural Resources Management  
SPS 416/516-Principles of Sustainable Agriculture  
SPS-554/454 Tropical Soils  
SPS 523/423-Tropical Food Crop Production  
SPS-101 Introduction to Plant Science

### **Courses Developed:**

SPS 416/516-Principles of Sustainable Agriculture  
SPS 616-Modeling Natural Resources Management

### **Graduate Student Committees (22)**

Ph. D. Dissertation Advisory Committees (8), Chairman for 4

M.S. Thesis Advisory Committee (14), Chairman for 8

### **Organization of Study Tours and Workshops**

Organized the 6<sup>th</sup> National Small Farm Conference in collaboration with USDA and University of Tennessee, Memphis, TN, September 18-20, 2012.

Organized study tours for Nigerien scientists and administrators to several International Agricultural Research Centers, including:

- the International Crops Research Institute for Semi-Arid Tropics (ICRISAT), Hyderabad, India in 1985, 1988 and 1991;
- the International Livestock Center for Africa (ILCA) in 1986;
- the International Institute for Tropical Agriculture (IITA) in 1987; and
- US Universities and Research Centers in 1989 and 1991.

Conducted several national and international workshops in Niger, including:

- Extension Service Retraining Workshop, 35 participants, 1987 and 1989;
- International Seminar on the National Policy on Adaptive Research, 50 participants, 1989;
- Traveling Seminar on Cropping Systems, 20 participants, 1989;
- Technologies Transfer Workshop, 84 participants, 1991.

### **Special Language Skills**

Fluent speaking, writing and reading capabilities in French, Hindi, and Telugu.  
Published, made documentaries, and gave television interviews in French.

### **Professional Foreign Travel**

Australia, Cameroon, Canada, China, Ethiopia, India, South Korea, Malawi, Mali, Niger, Nigeria, Senegal, and Thailand.

### **Research Projects and Grants (PI-\$3.0 million; Co-PI-\$14 million)**

Improving Nitrogen and Water Use Efficiency to Reduce Greenhouse Gases Emission in Corn Croplands. **\$299,974.00**. NIFA/USDA. 2011-14. Co-PI.

Establishing a Professional Science Master's Program to Develop Future Biotechnology Workforce with Business Skills for Sustainable Agriculture. **\$227,801**. NIFA/USDA. 2011-2014. Co-PI.

Carbon Sequestration in Cotton Production Systems. **\$1,250,000**. Agricultural Research Service/USDA. 2000-2010. **Principal Investigator**.

Professional Master's Program in Applied Statistics. **\$30,000**. Sloan Foundation/Council of Graduate Schools. 2005-2007. **Principal Investigator**.

Evaluating and modeling soil carbon dynamics in conservation tillage cotton production systems. **\$298,000**. United States Department of Agriculture. 2002-2006. **Principal Investigator**.

Infusion of Precision Concepts in Agricultural Curricula. **\$210,000**. United States Department of Agriculture. 1998-2003. **Principal Investigator**.

Developing sustainable soil management systems for cotton production in the Tennessee Valley. **\$402,000**. The Alabama Agricultural Experiment Station (AAES). 1996-2002. **Principal Investigator**.

Experimenting and modeling cotton production systems. **\$272,203**. United States Department of Agriculture. 1996-2000. **Principal Investigator**.

Assessment of soil vegetation conditions using hyper-spectral data, GIS, and GPS technology. **\$124,176**. The Alabama Agricultural Experiment Station (AAES). 1996-1998. **Principal Investigator**.

Experimenting and Modeling tomato production systems. **\$20,000**. United States Department of Agriculture. 1996-1999. **Principal Investigator**.

Infusion of Sustainable Concepts in Agricultural Curricula. **\$191,250**. United States Department of Agriculture. 1993-1997. **Principal Investigator**.

Novel approaches to environmentally sound management of poultry waste. **\$94,000**. Alabama Universities and Tennessee Valley Authority Research Consortium (AUTRC)/Alabama Commission on Higher Education. 1993-1997. **Principal Investigator**.

Integrating Crop Residues for N, K and Si Management in Sustainable Rice Production in Malawi. **\$99,988**. The United States Agency for International Development (USAID). 1994-1997. Co-Investigator

Integrated peanut production systems for Niger. **\$150,000**. The United States Agency for International Development (USAID). 1995-1997. **Principal Investigator**.

Agronomic and economic evaluation of crop residues as feed for small ruminants in Niger. **\$98,384**. The United States Agency for International Development (USAID). 1993-1994. Co-Investigator.

An Interdisciplinary holistic approach for assisting socially disadvantaged farmers. **\$25,000**. Farmers Home Administration. 1993-1994. Co-Investigator.

Cotton production systems. **\$6,000**. Training Project. USAID. 1994. **Principal Investigator**.

Effect of row spacing and method of tillage on canopy cover and consequent soil erosion losses in cotton production systems. **\$20,059**. Soil Conservation Service. 1993. **Principal Investigator**.

Niger Applied Agricultural Research Project. **\$13,000,000**. The United States Agency for International Development (USAID). 1988-1992. Co-Investigator.

## PUBLICATIONS (252)

**Refereed journal Articles: 54**

**Books/Bulletins: 4**

**Intl. Conference Proceedings: 43**

**Extension publications: 9**

**Technical reports: 18**

**Research abstracts: 78**

**Conference Presentations and Invited Lectures: 46**

### Journal Articles

1. Mankolo, R., Reddy, K.C., Senwo, Z.N., Nyakatawa, E.Z. and Sajjala, S. 2012. Soil Biochemical Changes Induced by Poultry Litter Application and Conservation Tillage under Cotton Production Systems. *Agronomy* 2, 187-198.
2. Reddy, S.S., E.Z. Nyakatawa and K.C. Reddy, 2012. Nitrogen uptake pattern by cotton in a long-term no-tillage system with poultry litter application. *Int. J. Agric. Biol.*, 14:29-37.
3. Sainju, U.M., Senwo, Z.N., Reddy, K.C., Nyakatawa, E.Z., and Tazisong, I.A. 2010. Poultry Litter Application Increases Nitrogen Cycling Compared with Inorganic Nitrogen Fertilization. *Agronomy Journal* 102 (3):917-925.
4. Reddy, S.S., Nyakatawa, E.Z., Reddy, K.C., Raper, R.L, Reeves, D.W. and Lemunyon, J. 2009. Long-term effects of Poultry Litter and Conservation Tillage on Crop Yields and Soil Phosphorus in cotton-cotton-corn rotation. *Field Crops Research* 114:311-319.
5. Reddy, K. C., Reddy, S. S., Malik, R. K., Lemunyon, J. and Reeves, D. W. 2008. Nitrate movement and P, K, Ca and Mg accumulation in Soil as a result of 5-yr Continuous Poultry Litter Application for cotton. *Agronomy Journal* 100(4):1-9.
6. Sainju, U.M., Senwo, Z.N., Nyakatawa, E.Z., Tazisong, I.A. and K.C. Reddy. 2008. Tillage, cropping systems, and nitrogen fertilizer source effects on soil carbon sequestration and fractions. *J. Env. Quality* 37:880-888.
7. Reddy, K.C., Roberson, T., Reddy, S.S., Nyakatawa, E.Z., Raper, R.L., Reeves, D.W. and Lemunyon, J. 2008. Carbon dioxide efflux from soil with poultry litter applications

- in conventional and conservation tillage systems in North Alabama. *J. Env. Quality* 37:537-541.
8. Sainju, U.M., Senwo, Z.N., Nyakatawa, E.Z., Tazisong, I.A. and K.C. Reddy. 2008. Soil carbon and nitrogen sequestration as affected by long-term tillage, cropping systems, and nitrogen fertilizer sources. *Agriculture, Ecosystems and Environment* 127:234-240.
  9. Nyakatawa, E. Z., Jakkula, V. Reddy, K.C., Lemunyon, J.L., and Norris, Jr. B.E. 2007. Long-term effects of conservation tillage, cover crops, and poultry litter application on soil erosion estimates using RUSLE 2.0 computer model. *Soil and Tillage Research* 94: 410-419.
  10. Reddy, K.C., Malik, R. K. Reddy, S.S., and Nyakatawa, E.Z. 2007. Cotton growth and yield response to nitrogen applied through fresh and composted litter. *The Journal of Cotton Science* 11:26-34.
  11. Nyakatawa, E.Z., Reddy, K.C., and Reddy, K.R. 2004. Predicting cotton growth and yield in conservation tillage systems using GOSSYM model. *International Journal of Biotronics* 33:13-30.
  12. Reddy, K.C., Nyakatawa, E.Z., and Reeves, D.W. 2004. Tillage and poultry litter application effects on cotton growth and yield. *Agronomy Journal* 96:1641-1650.
  13. Boggs, J.L., Tsegaye, T.D., Coleman, T.L., Reddy, K.C., and Fahsi, A. 2003. Relationship between hyperspectral reflectance, soil nitrate-nitrogen, cotton leaf chlorophyll, and cotton yield: A step toward precision agriculture. *Journal of Sustainable Agriculture* 22 (3): 5-16.
  14. Tsegaye, T.D., Ranatunga, T.D., and Reddy, K.C. 2003. Variation of soil dielectric constant, moisture holding capacity, and nitrate-nitrogen as influenced by application of fresh and compost poultry litter on a Decatur silt loam soil. *Journal of Sustainable Agriculture* 22 (2):55-73.
  15. Malik, R.K. and Reddy, K.C. 2002. Effect of long-term poultry litter application to cotton on succeeding corn crop production. *Journal of Sustainable Agriculture* 19(4):47-59.
  16. Nyakatawa, E.Z., Reddy, K.C., and Brown, G.F. 2001. Residual effects of poultry litter applied to cotton in conservation tillage systems on succeeding winter rye and corn. *Field Crops Research* 71:159-171.
  17. Nyakatawa, E.Z., Reddy, K.C., and Sistani K.R. 2001. Tillage, cover cropping, and poultry litter effects on some soil chemical characteristics. *Soil and Tillage Research* 57: 440-451.
  18. Nyakatawa, E.Z., Reddy, K.C., and Lemunyon, J.L. 2001. Predicting soil erosion in conservation tillage cotton production systems using the revised universal soil loss equation (RUSLE). *Soil and Tillage Research* 57:213-224.

19. Yaffa, S., Sainju, U.M., Singh, B.P., and Reddy, K.C. 2000. Fresh market tomato yield and soil nitrogen as affected by tillage, cover cropping, and nitrogen fertilization. *Hort Science* 35 (7):1258-1262.
20. Nyakatawa, E.Z., Reddy, K.C., and Mays, D.A. 2000. Tillage, cover cropping, and poultry litter effects on cotton: II. Growth and yield parameters. *Agronomy Journal* 92:992-999.
21. Nyakatawa, E.Z. and Reddy, K.C. 2000. Tillage, cover cropping, and poultry litter effects on cotton: 1. Germination and seedling growth. *Agronomy Journal* 92:987-992.
22. Bukenya, J.O., Befecadu, J., Jones, H.S., Reddy, K.C., and Baiyee-Mbi, A. 2000. Economic feasibility of substituting fresh poultry litter for ammonium nitrate in cotton production. *Journal of Sustainable Agriculture* 16(1):81-89.
23. Sistani, K.R., Reddy, K.C., Kanyika, W., and Savant, N.K. 1998. Integration of rice crop residue into a sustainable rice production system. *Journal of Plant Nutrition* 21:1855-1866.
24. Thornton, F.C., Shurpali, N.J., Bock, B.R., and Reddy, K.C. 1998. N<sub>2</sub>O and NO emissions from poultry litter and urea applications to Bermuda grass. *Atmospheric Environment* 32:1623-1630.
25. Reddy, K.C. and Visser, P.L. 1997. Cowpea intercrop growth and yield as affected by time of planting relative to millet. *African Crop Science* 5:351-357.
26. Sistani, K.R., Savant, N.K., and Reddy, K.C. 1997. Effect of rice hull ash silicon on rice seedling growth. *Journal of Plant Nutrition* 20:195-201.
27. Okali, C., Sumberg, J.E., and Reddy, K.C. 1994. Unpacking the package: Flexible message situations. In: *Beyond Farmer First-Rural people's knowledge, agricultural research and extension practice*. Eds. Ian Scoones and John Thompson. Publ: Intermediate Technology. Book Chapter.
28. Ibro, G., Lowenberg-Deboer, J., Reddy, K.C., and Maiga, S. 1994. Comparison of insect control measures on cowpea. *Journal of West African Farming Systems Research Network* 3:33-41 (Fr).
29. Okali, C., Sumberg, J., and Reddy, K.C. 1994. Unpacking the package: Flexible messages for dynamic situations. *Experimental Agriculture* 30:299-310.
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**Research Abstracts**

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### **Conference Presentations and Invited Lectures**

1. K.C. Reddy, S. Singh, G.E. Johnson, W. Hayslett, and S. Nahashon. 2013. Recent Growth in Agricultural Programs at Tennessee State University: A case Study. Pres. Member-Universities Professional Institute, New Orleans, March 24-27, 2013.

2. K.C. Reddy and Illukpitiya, P. 2012. Challenges and opportunities in Agriculture. Pres. The Chinese Academy of Agricultural Sciences, Beijing, China, October 26<sup>th</sup>, 2012; China Agricultural University, Beijing, China, October 29<sup>th</sup>, 2012; and at the Dalian Nationalities University, Dalian, China, October 28<sup>th</sup>, 2012.
3. K.C. Reddy. 2011. Agricultural Trends, Pres. NG Ranga Agricultural University, Hyderabad, India.
4. K.C. Reddy, 2008. Global Climate Change. Panel Discussion. Indian Science Congress. Visakha Patnam, AP, India. January 05, 2008.
5. K.C. Reddy. 2006. Building Research Programs at Master's Institutions. Pres. The Council of Graduate Schools Annual Meeting, Washington, DC. December 6-9, 2006.
6. S. S. Reddy, K.C. Reddy and R. Malik. 2006. Cotton Growth and Yield Response to Nitrogen Application Through Fresh and Composted Poultry Litter. Pres. Soil and water Conservation Society, Alabama Chapter. Huntsville, AL. during 6-8, June, 2006.
7. S. Kuppireddy, E.Z. Nyakatawa, F. J. Arriaga, and K.C.Reddy. 2006. Long-term Effects of Conservation Tillage and Poultry Litter Application III. Soil Physical Properties. Pres. Soil and water Conservation Society, Alabama Chapter. Huntsville, AL. during 6-8, June, 2006.
8. Roberson, T., Nyakatawa, E.Z., Reddy, K.C., and Raper, R.L. 2006. Carbon dioxide efflux from poultry litter applied soils under conventional and conservation tillage systems in North Alabama. Pres. Soil and water Conservation Society, Alabama Chapter. Huntsville, AL. during 6-8, June, 2006.
9. Nyakatawa, E. Z., Jakkula, V., Reddy, K.C., Lemunyon, J.L., and Norris, Jr. B.E. 2006. Long-term effects of conservation tillage, cover crops, and poultry litter application on soil erosion estimates using RUSLE 2.0 computer model. Pres. Soil and water Conservation Society, Alabama Chapter. Huntsville, AL. during 6-8, June, 2006
10. Reddy, K.C. 2002. Keynote Speaker on "Unity in Freedom." 13<sup>th</sup> Asian/Pacific American Heritage Month Celebrations by US Army and Missile Command/Redstone Arsenal, AL.
11. Reddy, K.C. 2002. Panelist on Graduate Record Examination (GRE) workshop. 16<sup>th</sup> Annual National Conference of Black Physics Students, Huntsville, AL., March 13-17, 2002.
12. Nyakatawa, E.Z., Reddy, K.C., and Bishnoi, U.R. 2002. Using tillage and poultry manure to sustain water and soil for agriculture. Pres. the Alabama Sustainable Agricultural Conference, Birmingham, AL., Feb. 24-26, 2002.
13. Nyakatawa, E.Z., Reddy, K.C., and Reddy, K.R. 2002. Simulating cotton growth in conservation tillage systems using the GOSSYM Model. Pres. Beltwide Cotton Conference, Atlanta, GA., Jan. 11-12, 2002.



14. Nyakatawa, E.Z. and Reddy, K.C. 2001. Conservation tillage and poultry litter management for cotton production and environmental protection. Pres. to Alabama Agricultural County Agent Association (AACA) tour of SAES/AAMU, June 14, 2001.
15. Reddy, K.C. 2000. An update on State of the University/Faculty Senate. Pres. at the 2000-2001 Faculty/Staff Conference, Alabama A&M University held in Normal, AL during August 25, 2000.
16. Bukenya, J.O., Befecadu, J., Jones, H.S., Reddy, K.C., and Baiyee-Mbi, A. Economic feasibility of substituting fresh poultry litter for ammonium nitrate in cotton production. Paper presented at the Annual Meetings of the Northeast Agricultural and Resource Economics Association held in Morgantown, WV on June 28, 1999.
17. Reddy, K.C. and Nyakatawa, E. Poultry litter use in cotton production. Alabama Cotton Field Expo, Tennessee Valley Substation, Belle Mina, AL on August 20, 1998.
18. Reddy, K.C. 1998. Rebuilding the University. Pres. at the 1998-1999 Faculty/Staff Conference, Alabama A&M University held in Normal, AL during August 17-18, 1998.
19. Reddy, K.C. 1997. Program Viability Legislation. Pres. at the 1997-1998 Faculty/Staff Conference, Alabama A&M University held in Normal, AL during August 14-15, 1997.
20. Reddy, K.C. 1995. Modeling soil erosion in cotton production systems. Pres. at the Plant and Environmental Science Journal Club, Alabama A&M University, on Feb. 09, 1995.
21. Negatu, A., Reddy, K.C., Burmester, C.H., Tyeker, R.H., and Cebert, E. 1994. Does nitrification inhibitor work on fresh and composted poultry litter? Pres. Association of Research Directors' Tenth Biennial Research Symposium, 1994 at New Orleans, LA, USA during October 1-5, 1994.
22. Reddy, K.C. 1993. Long-term effects of intercrop systems on soil fertility. Pres. International training program on plant nutrient management for sustainable agriculture at the International Fertilizer Development Center, Muscle Shoals, AL, USA during Sept 20-October 1, 1993 (Invited Lecture).
23. Okali, C., Sumberg, J.E., and Reddy, K.C. 1992. Unpacking the package: Flexible messages for dynamic situations. Pres. Workshop on Beyond farmer first: Rural peoples' knowledge, agricultural research and extension practice at the Institute of Development Studies, University of Sussex, Brighton, UK during 27-29 Oct, 1992.
24. Reddy, K.C. 1992. Intensification of dryland agriculture in the Sahel; the case study of millet and cowpea. Pres. Seminar on sustainable management of natural resources of the agro-pastoral systems of the Sahel during 8-11 June, 1992 at Niamey organized by the International Development Program of the Netherlands (Invited lecture).
25. Reddy, K.C., Nouri, M., and Mamane, I. 1992. The new millet/cowpea intercrop technologies. A twice nationally broadcasted, invited- television debate (Jan 1st 1992 and March 12th, 1992) National Television, Niamey, Niger.
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27. Reddy, K.C. 1991. Millet/cowpea intercrop research advances at INRAN. An invited lecture at Univ. Niamey, Niger.
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