

**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

- 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:

- Provides vision and dynamic leadership to the land grant mission of the Tennessee State University's College of Agriculture, Human and Natural Sciences; leads and represents 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.

- Administers and provides leadership within the Tennessee State University on all College research, extension, academic programs, and financial affairs. Works closely with the senior university administration including deans of other colleges of the university.
- Responsible for the programmatic leadership of the College including hiring, placement of faculty, and budget management.
- Represents the College to external constituents in Tennessee and on national and international levels.
- Works 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.
- Secures private endowments and increases extramural funding.

Key Accomplishments

Restructuring: The key components of the land-grant mission: teaching, research, and extension, were integrated. Basic tenets of this restructuring included joint appointments for faculty with responsibilities in two or more mission areas, graduate faculty status to qualified research and extension faculty, and common salary structure to teaching and research faculty. A new strategic plan that envisions several new academic programs and higher levels of faculty scholarship and student enrollment was developed. A new faculty evaluation instrument was developed. A new Business Office was created to manage and streamline the College's operations including personnel, finances, and facilities. An Executive Committee was established to develop and implement policies and procedures for the College.

Student Enrollment: Student enrollment doubled in agricultural programs in three years as a result of innovative recruitment strategies including summer internship programs, Dean's Scholars program, a graduate research assistantship program, and increased diversity and inclusiveness efforts.

Research: Faculty Focus Groups were created to develop a new vision for research programs. Several new research faculty were hired in national priority areas such as biofuels. New faculty productivity goals and standards were developed that emphasize scholarship, creativity, securing external grant funds, publications, and excellence in teaching.

Extension: Hired several new extension faculty and agents which helped double the county operations (12 to 30 counties) in a short period of time. This strategy has expanded the overall outreach of the Cooperative Extension Program to stakeholders by several-fold. Also, a close partnership has been developed with the University of Tennessee and the County governments to improve effectiveness of TSU's outreach efforts.

External Funding: Faculty grant applications and external funding have increased by 300%. Total research and extension dollars under the College has steadily increased from \$18 million to \$46 million and annual faculty procurement of external grants moved up from \$2 million in 2008 to \$12 million in 2012.

Facilities: To accommodate the rapid growth in students and faculty, physical facilities of the College have been refurbished and remodeled; six new greenhouses and a landscape studio were built and construction will commence soon for a new biotechnology building and an agricultural education workshop. The main campus agricultural research and education center is being modernized. The College's website has been revamped and updated on a regular basis.

Fund Raising: Alumni and legislative relations have been cultivated to effectively implement the College's mission. Among other things, these efforts have resulted in an additional \$1.5 million dollar annual allocation to the agricultural research and extension budget by the state legislature. Additionally, these relationships resulted in 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:

- Responsible for overseeing university-wide graduate programs and improving quality of graduate education and research at Alabama A&M University.
- Playing leadership role in policy development for graduate education, reviewing new programs, and fostering interdisciplinary programs in collaboration with graduate faculty and graduate council.
- Working closely with the academic departments and coordinating all aspects of graduate education and research including: admissions, programs of study, comprehensive examinations, quality control of thesis/dissertation research, implementing assistantship, scholarship, and fellowship programs, appointment of graduate faculty, and curricula development and scheduling of graduate courses.

Key Accomplishments:

- Developed new graduate programs; a Ph.D. program in Reading was initiated and obtained Sloan Foundation grant to develop a new Professional Masters 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. Developed a robust website for Graduate School. Streamlined the policies and procedures governing the Graduate School.

- Improved the quality of life for graduate students; instituted a competitive graduate assistantship program, established the Graduate Student Council, International Graduate Student Association, and a graduate honor society.
- Increased visibility of 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.

Duties and Responsibilities:

- Was elected three consecutive terms as the President of the University's Faculty Senate and in that role, represented faculty on various university-wide governance committees including the University's Board of Trustees.

Key Accomplishments:

- Strengthened *shared governance* of the University by establishing a new framework for faculty participation in the University administration. 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.
- As Faculty Senate President, played a key role in retaining agricultural and engineering programs that were scheduled for closure under a reorganization plan of the University's central administration.
- Importantly, as Faculty Senate president, 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. Also, published a lab manual for an undergraduate course, *Introduction to Plant Science*.
- Established the only long-term field experiment (1996-current) in the SE USA to study the *Effects of Poultry Litter Application to Soils in Different Tillage/Cover-crop Environments on Cotton Production*. Obtained \$3 million grants as the Principal Investigator since 1992 to support this program; total \$16 million.

- Helped move conservation tillage adoption in the Tennessee Valley region from 15% to 80%. Developed a new cropping scheme for the region that alleviates P pollution problem, when poultry litter is continuously applied to croplands.
- 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*.

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

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 by the USAID and led by Purdue University in Niger during 1984-1992. Additionally, acted as the Assistant Team Leader, Project Coordinator, and the Chair of the Production Systems Research Working Group for these projects. Responsible for training Nigerien agronomists and leading agronomic research on pearl millet, cowpea, sorghum, and peanuts and equipping the agricultural research stations with necessary infrastructure for agronomic research. As an Assistant Team Leader, was responsible for administering the Project and leading the multi-institutional team (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 the widely known publication, *Alternative Production Strategies for Rainfed Millet and Cowpea Production in Niger*.
- 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.
- Extended the research results to farmers in Niger and other regions of West Africa. The impact assessment study by Mazzacato and Ly (USAID, 1993) showed that the TN-5-78 cowpea and associated intercropping practices were having a substantial impact on production and the well being of Nigerien farmers.

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.**
- 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

- 2012 **Tennessee State Government Resolution** to Commend Honorable and
Astute Service to Tennessee State University, House Joint Resolution
1084, 2012.
- 2011 **Honorary FFA Degree,** Tennessee FFA Organization, Gatlinburg, TN
- 2010 **Fellow,** the Soil Science Society of America, Madison, WI.
- 2010-2012 **Fellow,** the Food Systems Leadership Institute (FSLI), APLU,
Washington, DC
- 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 2nd 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**, EarthMatters, Nashville, TN
- 2008 **Chairman, Review Panel, National Program on Agronomic Cropping Systems**, Agricultural Research Service /USDA, Washington, DC.
- 2008 **Chairman, Symposium of Abiotic Stresses in Crop Production**, International Crop Science Congress, Jeju, Korea.
- 2007 **Chairman, Symposium on Environmental Remediation and Panelist along with Dr. Swamy Nathan on Climate Change**, the Indian Science Congress, Visakhapatnam, AP (st), 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.**
- 2005 **Member-at-large and Secretary**, Executive Committee, Alabama Council of Graduate Deans, 2003-2005.
- 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 and 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)

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

Chair, Student Research Awards, Agricultural Research Directors Conference, Atlanta, GA 2009

Chair, Academic Master Plan Committee on University Travel Procedures, TSU, 2008-2009

Member, Provost Advisory Council, TSU, 2008-present

Member, Workload Committee, TSU, 2008-present

Member, Academic Master Plan, 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 6th National Small Farm Conference in collaboration with USDA and University of Tennessee, Memphis, TN, September 18-20th, 2012.

Organized study tours for Nigerien scientists and administrators to several International Agricultural Research Centers; to International Crops Research Institute for Semi-Arid Tropics (ICRISAT), Hyderabad, India in 1985, 1988 and 1991; to International Livestock Center for Africa (ILCA) in 1986; to International Institute for Tropical Agriculture (IITA) in 1987; to US Universities and Research Centers in 1989 and 1991.

Conducted several national and international workshops in Niger; 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 Masters 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 hyperspectral 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 (251)

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-45

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. and Reddy, K.C. 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., 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. N₂O and NO emissions from poultry litter and urea applications to Bermuda grass. *Atmospheric Environment* 32:1623-1630.
25. Reddy, K.C., 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.
30. Klaij, M.C., Renard, K.C. and Reddy, K.C. 1994. Low-input technology options for millet-based cropping systems in the Sahel. *Experimental Agriculture* 30:77-82.
31. Reddy, K.C., Visser, P.L., Renard, C. and Klaij, M.C. 1994. Continuous cropping effects of traditional millet/cowpea intercrop and improved sole millet and cowpea on soil and crop productivity. *Experimental Agriculture* 30:83-88.
32. Reddy, K.C. and Visser, P. 1993. Late Planting Effects on Early Versus Late Pearl Millet Genotypes in Niger. *Experimental Agriculture* 29:121-129.
33. Shapiro, B.I., Sanders, J.H., Reddy, K.C. and Baker, T.G. 1993. Evaluating and adapting new technologies in a high-risk agricultural system-Niger. *Agricultural Systems* 42:153-171.
34. Ibro, G., Kadi, M., Lowenberg-Deboer, J. and Reddy, K.C. 1992. The microeconomic viability of new technologies: the case of millet-cowpea intercropping in Niger. *La Review de la Recherche Agronomique* 2:49-57 (Fr).
35. Buckner, P., Reddy, K.C. and Serkin, A.H. 1992. Exploratory animal traction studies in millet/cowpea intercropping. *La Review de la Recherche Agronomique* 2:37-48 (Fr).
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Conference Presentations and Invited Lectures

1. K.C. Reddy and Illukpitiya, P. 2012. Challenges and opportunities in Agriculture. Pres. The Chinese Academy of Agricultural Sciences, Beijing, China, October 26th, 2012; China Agricultural University, Beijing, China, October 29th, 2012; and at the Dalian Nationalities University, Dalian, China, October 28th, 2012.

2. K.C. Reddy. 2011. Agricultural Trends, Pres. NG Ranga Agricultural University, Hyderabad, India.
3. K.C. Reddy, 2008. Global Climate Change. Panel Discussion. Indian Science Congress. VisakhaPatnam, AP, India. January 05, 2008.
4. 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.
5. 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.
6. 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.
7. 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.
8. Nyakatawa, E. Z., Jakkula, V. Reddy, K.C., Lemunyon, J.L., 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
9. Reddy, K.C. 2002. Keynote Speaker on "Unity in Freedom". 13th Asian/Pacific American Heritage Month Celebrations by US Army and Missile Command/Redstone Arsenal, AL
10. Reddy, K.C. 2002. Panelist on Graduate Record Examination (GRE) workshop. 16th Annual National Conference of Black Physics Students, Huntsville, AL., March 13-17, 2002.
11. 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.
12. 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.
13. 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 (AACAA) tour of SAES/AAMU, June 14, 2001.
14. 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 at Normal, AL during August 25, 2000.
 15. 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 at Morgantown, WV on June 28, 1999.
 16. 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.
 17. Reddy, K.C. 1998. Rebuilding the University. Pres. at the 1998-1999 Faculty/Staff Conference, Alabama A&M University held at Normal, AL during August 17-18, 1998.
 18. Reddy, K.C. 1997. Program Viability Legislation. Pres. at the 1997-1998 Faculty/Staff Conference, Alabama A&M University held at Normal, AL during August 14-15, 1997.
 19. 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.
 20. 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.
 21. 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).
 22. 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.
 23. 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).
 24. 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.
25. Nouri, M., Reddy, K.C. and Germaine, I. 1991. On-farm evaluations of the new millet/sorghum intercrop technologies. Pres. at the Semi-Arid Food Grain Research and Development (SAFGRAD) annual workshop on 13-15 May, 1991 at Ouagadougou, Burkina Faso.
 26. Reddy, K.C. 1991. Millet/cowpea intercrop research advances at INRAN. An invited lecture at Univ. Niamey, Niger.
 27. Shapiro, B.I, Sanders, J.H. and Reddy, K.C. 1991. Using agro-meteorological information to devise adaptive technology recommendations in the Niamey region of Niger. Pres. the 11th annual AFSRE Symposium (5-10 Oct, 1991) Michigan State Univ. East Lansing, MI, USA.
 28. Reddy, K.C. 1991. An evaluation of millet/cowpea demonstrations in Zinder department. pres. Training workshop organized by NAARP/IPDR/Extension Service of Niger at Zinder on 18-19 March, 1991 (Invited lecture).
 29. Reddy, K.C. 1991. How to apply alternative millet/cowpea production strategies in practice: pres. Training workshop organized by NAARP/IPDR/Extension Service of Niger/Care International at Maradi on 20-21 March, 1991 (Invited lecture).
 30. Abdoulaye, T., Lowenberg-Deboer, J., Abbot, P. and Reddy, K.C. 1991. Socio-economic constraints at the farm level on the intensification of cowpea production in Niger. Pres. the 11th annual AFSRE Symposium (5-10 Oct, 1991) Michigan State Univ., East Lansing, MI, USA.
 31. Ibro, G., Lowenberg-Deboer, J., Reddy, K.C., Kadi, M. and Maiga, S. 1991. Comparaison des méthodes de traitements phytosanitaires de niébé au Niger. Pres. Inter-network conference on food grain research and production (SAFGRAD) held at Niamey, Niger on 7-14 March, 1991.
 32. Reddy, K.C. 1990. Niger cropping systems. An invited lecture at Univ. of Niamey, Niger.
 33. Reddy, K.C. and Ly, S.A. 1989. Farming Systems Research: some suggestions for agronomists. Pres. the Regional Agronomists Training Workshop organized by SAFGRAD/ICRISAT/USAID at Bamako, Mali on 18-30 Sept. 1989.
 34. Ibro, G., Lowenberg-Deboer, J. and Reddy, K.C. 1989. Les technologies developpees par la recherche sur les systemes agricoles, sont-ils soutenables? Le cas de la culture associee mil-niebe au Niger. Pres. the Farming Systems Research/extension symposium at Fayetteville, Ar, USA on 8-11 October, 1989.
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