

Curriculum Vitae: **CLAY ROBINSON, Ph.D.**

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**Education and Certification:**

P.G. 2003 1416, Licenced Professional Geoscientist: Soils, Texas Board of Professional Geoscientists

CPSS 1999 28054, Certified Professional Soil Scientist, SSSA Soils Certification Board

Ph.D. 1993 Iowa State University, Ames, Iowa, Soil Science (Soil Management)

M.S. 1988 West Texas State University, Canyon, Texas, Agriculture

B.S. 1984 West Texas State University, Canyon, Texas, Magna cum Laude

**Employment:**

Feb 2014 - present Agronomy and Soil Science Education Mgr., (Affiliation of Crop, Soil, and Environmental Science Societies)

June 2011 - Feb. 2014 Senior Soil Scientist, Stetson Engineers

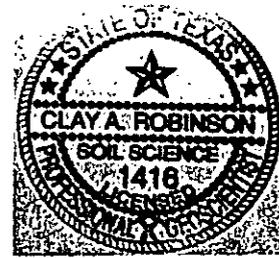
Sep., 1994 - May 2011 Assistant, Associate, and Full Professor of Soil Science, West Texas A&M Univ.

Sep., 1992 - 1994 Instructor, Farm Mgr., Asst. Prof. of Agriculture, Eastern New Mexico Univ.

Sep., 1988 - 1992 Teaching Assistant (88-90), Research Assistant (90-92), Iowa State University

Jan., 1986 - 1988 Research and Teaching Assistant, West Texas State University

May, 1984 - 1986 Research Technician, ARCO Seed Company, Triticale Division



**Teaching and Related Activities:**

Taught undergraduate and graduate courses and associated labs in soils, soil fertility, soil and water conservation, soil morphology and classification, irrigation, field crops, forage crops and pastures, grain and forage crops, landscape gardening, horticulture, statistics, environmental issues and ethics, and seminar. Coached soil and crops judging teams.

Regularly presented soils topics to farmers/consultants, homeowners, and K-12 students

Assistant director of a 2-week Training Workshop in Dryland Agriculture that addressed principles of sustainable management in the Central and Southern Great Plains: 7 years, 150 participants, 31 countries.

**Consulting:**

Research and documentation on total petroleum hydrocarbon determination methods. 2013.

Expert witness for chloride movement in the vadose zone, and chloride test methods used in NMAC 19.15.17.13 before the New Mexico Oil Conservation Commission in Pit Rule hearings, 2011, 2013.

Provided professional opinion and/or expert witness services for several agronomic production damage claims, environmental and soil effects on several pipeline projects, application of oilfield brine to rangeland, and agronomic planning associated with beneficial use of treated wastewater through irrigation.

Participated in several land classification assessments to determine material suitability for topsoil replacement during reclamation of a hard-rock mine, practicably irrigable acres on four Native American Reservations, and salinity of a marsh in a National Wildlife Refuge.

Developed calibrated models for constituents in salt and nutrient management plans for Raymond and Main San Gabriel Basins, CA.

*Program Reviews:*

Renewable Resources Program review, College of Applied Life Sciences, University of Louisiana-Lafayette  
Provided written report with recommendations.

Columbia National Department of Agriculture external reviewer for competitive grant program

**Achievements:**

2011 Outstanding Associate Editor, Journal of Natural Resources and Life Sciences Education  
2005-2006 WTAMU Provost's Appreciation Award for Outstanding Contributions  
2005-2006 WTAMU Curriculum Innovation Award for role in "Forensic Science" Course Development  
2002 American Society of Agronomy Educational Materials Awards Program Certificate of Excellence, Internet Web Page Category for "K-12 Teaching Resources and Activities (by Dr. Dirt)"  
NACTA Teaching Award, WTAMU, 1999-2000  
2000 SSSA S-6 (Soil and Water Conservation Division) Young Scholar Award  
Alpha Zeta WTAMU Outstanding Professor in Agriculture, 1998-1999.

**Professional Society Memberships and recent activities:**

*American Society of Agronomy, since 1989*  
A536.1 Rapid Response Team. Assist executive committee in addressing national/international issues  
Resident Education Division Chair for planning Annual Meetings, Long Beach CA, 2010  
Associate Editor, Natural Sciences Education (formerly J. Natural Resources and Life Sciences Educ.)  
*Soil Science Society of America, since 1989*  
Chair, S591 Committee, K-12 Soils Outreach  
STEM Task Force  
Reviewer, 2012 Next Generation Science Standards, K-12 National science standards  
Council of Soil Science Examiners board  
ACS528 Minorities in Agronomy, Crop and Soil Sciences  
Soil and Water Conservation Society  
National Association of College Teachers of Agriculture  
International Soil Science Society

**University and Community Service:**

Actively involved in university, community and church activities, volunteering, and serving on committees and boards, including PTA president, and the inaugural Canyon Economic Development Board.  
Volunteer for local schools: PTA activities science fair judge, soils and natural resources presentations provided for 20,000+ 4-6<sup>th</sup> graders annually in county Agriculture days, classroom visits, and field trips.  
Workshops and presentations for more than 500 K-12 teachers with hands-on activities to use soils to teach other concepts: Physics, chemistry, biology, ecology, geology, water cycle, etc.  
*Established community gardens in Canyon, TX, coordinated volunteer groups to care for the gardens from civic service organizations and local churches, 2009 to 2011.*

**Research overview:**

Evaluated soil physical, chemical, and biological properties of native and agronomic production lands, and on the variability of those properties.  
Evaluated Central and Southern Great Plains precipitation frequency, reliability, quantity, timing, and variability in the Ogallala Aquifer region.  
Evaluated methods to facilitate revegetation of highway rights-of-way.

**Bibliographical list of publications** - Co-editor for one book. Author or contributing co-author for 39 refereed publications including journals, proceedings, books chapters, international journal, technical report an encyclopedia entries, and for 32 non-refereed articles, abstracts and proceedings. Developed 7 pedagogical publications. Maintain Dr. Dirt's K-12 Teaching Resources and Activities (doctordirt.org, drdirtsoilvideos/youtube.com) and Dr. Dirt's Homeowner Q&A web pages.