

CURRICULUM VITAE

Name: Shad D. Nelson, Ph.D.	Position: Dean, Kleberg College AgNRHS Texas A&M University-Kingsville	Title: Professor Soil and Plant Sciences
Home Address: Available upon request E-mail: Shad.nelson@tamuk.edu	Work Address: Dick & Mary Lewis Kleberg College of Agriculture, Natural Resources & Human Sciences MSC 156; Support Services Bldg Rm117 Kingsville, TX 78363	Phone Numbers: Personal Cell: 361-876-6073 Work Phone: 361-593-3711 Belinda (Assistant to Dean) Work Fax: 361-593-3788

EDUCATION

Institution and Location	Degree	Year	Major Field	Area of Training Specialty
Brigham Young Univ., UT	B.S.	1993	Horticulture Sci.	Plant Abiotic Stress Management
Brigham Young Univ., UT	M.S.	1995	Agronomy	Soil Microbiology & N Cycling
Univ. of Calif., Riverside	Ph.D.	1998	Soil Science	Ag Chemical Fate & Transport
USDA-ARS, FL & CA	Postdoc	1998-2001	Environ. Sci.	Chemical and Water Management

PROFESSIONAL EXPERIENCE

May 2017	Dean , Dick & Mary Lewis Kleberg College of Ag, Natural Resources & Human Sci., TAMUK
2016-2017	Interim-Dean, D&ML Kleberg College of Ag, Natural Resources & Human Sci., Kingsville, TX
2012-present	Professor, Plant & Soil Sciences , Texas A&M University-Kingsville, Kingsville, TX
2006-2016	Chair, Dept. of Agriculture, Agribusiness & Environmental Sciences, TAMU-Kingsville
2006-2012	Associate Professor, Texas A&M University-Kingsville, Kingsville, TX (Tenured Aug 2007)
2005-2006	Interim Chair, Dept. of Agronomy & Resource Sci., Texas A&M University-Kingsville
2001-2006	Assistant Professor, Texas A&M University-Kingsville
2000-2001	Post-Doctoral Research Associate, USDA-ARS Water Management Research Lab, Fresno, CA
1998-2000	Post-Doc Research Assistant, USDA-ARS, Crop Genetic & Environ. Res. Lab, Gainesville, FL
1995-1998	Doctoral Graduate Research & Teaching Assistant, University of California, Riverside, California
1991-1995	Undergrad/Graduate Research & Teaching Assistant, Brigham Young University, Provo, Utah
1991	Internship, Urban Forestry, Salt Lake City Parks & Recreation, Salt Lake City, Utah

TEACHING EXPERIENCE

Courses Taught: Soil & Environmental Sciences

- General Soil Science & Lab: Principles in the development, management, and preservation of soil.
- Soil Chemistry-PLSS 6326: Advanced study of the chemistry of soils, properties, & processes.
- Soil & Water Conservation/Management-PLSS 3321: Methods of reclamation, conservation and management.
- Environmental Sciences & Lab: Undergraduate study of environmental disturbances on soil, plant, and water.
- Research Experimentation/Lab-PLSS 4390: Basics of soil, water, and plant sampling for research analysis.
- Soil Microbiology-Graduate Lab: M.S.-Techniques of enumeration, sampling, microbial analysis.
- Art of Scientific Presentations-PLSS 6390: Ph.D. level introduction of enhanced scientific graphing programs and dynamics of professional science-oriented oral and poster presentations.
- Graduate Seminar-PLSS 6185: Venue for M.S. & Ph.D. students to present research results in seminar setting.
- Senior Seminar-AGRI 4171: Student opportunities for public speaking and professional presentations.

Courses Taught: Plant & Horticultural Sciences

- General Plant Science & Lab-PLSS 1407: Fundamentals of growth, development, and cultivation of plants.
- Plant Propagation & Lab-PLSS 4332: Principles and practices of plant propagation techniques.
- Greenhouse Crop Production & Lab -PLSS 4331: Methods of greenhouse maintenance and design.
- Fruit and Vegetable Production & Lab-PLSS 3344: Study of production principles for various crops.
- Landscape Design & Lab -PLSS 3319: Fundamentals of landscape designs of home and urban environs.
- Landscape Maintenance & Construction & Lab -PLSS 4313: Practical practices utilized in urban landscapes.
- Turf Management-PLSS 4390: Fundamentals of turf grass establishment, growth, and management.
- Crop Physiology-PLSS 3381: Function of plant organs, cell growth, and environmental influences.
- Weed Control-PLSS 3334: Growth, economic importance, distribution, and control methods of weeds.

- **Internship-PLSS 3995: (Spring 2017)** Real-life application of industry, science, research; writing intensive.

GRANTS Received – TAMU-Kingsville Funded Grants*

Vitae: Shad D. Nelson

	Total Funds	as P.D./P.I.	as Co-PD/Co-P.I
2002	\$ 620,904	\$620,904	\$
2003	\$ 16,000	\$ 16,000	\$
2004	\$ 313,200	\$313,200	\$
2005	\$ 314,071	\$ 16,000	\$298,071
2006	\$ 313,000	\$313,000	\$
2007	\$ 46,650	\$ 15,750	\$ 30,900
2008	\$ 67,000	\$ 37,000	\$ 30,000
2009	\$ 350,000	\$330,000	\$ 20,000
2010	\$ 347,469	\$ 49,969	\$297,500
2011	\$1,029,500	\$989,500	\$ 40,000
2012	\$1,240,442	\$1,000,000	\$240,442
2013	\$1,546,552	\$1,025,000	\$521,552
2014	\$1,176,500	\$999,500	\$182,000
2015	\$1,016,000	\$640,000	\$376,000
2016	\$2,583,794	\$2,000,000	\$583,794

>\$10.9 million total grant funds awarded to Dr. Nelson as P.I./Co-P.I. at TAMUK

With over \$15 million total collaborative grant funds awarded while at TAMU-Kingsville.

* For grant history details see pages 12-15.

HONORS/AWARDS

- **Texas Commission on Environmental Quality (TCEQ) Environmental Excellence Award: Agriculture**
May 2017. TexasAWE Citrus Water Conservation, Texas Project for Ag Water Efficiency (TexasAWE).
- **Friend of Conservation Award, Kleberg-Kenedy Soil & Water Conservation District** Feb 2017.
- **Blue Legacy Award in Agriculture**, Texas State Water Conservation Advisory Council, March 2015.
- **Senior Research Award**, Dick & Mary Lewis Kleberg College of Ag, Nat. Res. & Human Sci., April 2014.
- **J. Creighton Miller, Jr. Distinguished Educator Award**, South. Region Amer. Soc. of Hort. Sci., Feb 2014.
- **Texas Commission on Environmental Quality (TCEQ) Environmental Excellence Award** May 2011.
Agriculture, Water Conservation, Ag Demonstration Initiative Project with Harlingen Irrigation District.
- **Senior Research Award**, Dick & Mary Lewis Kleberg College of Agriculture, April 2009.
- **TCEQ Environmental Excellence Award**, Agriculture, Rio Grande Basin Initiative, April 2008.
- **Presidential Excellence Award in Teaching**, College of Agriculture, TAMUK. April 2004.
- **Certificates of Recognition**, USDA-ARS Water Management Research Lab, Fresno, CA. 2000 & 2001.
- **Outstanding Student Award**, American Society of Agronomy, Ag/Hort Dept., BYU. 1992-93.
- **Eagle Scout Award**, Boy Scouts of America, 1983.

PROFESSIONAL AFFILIATION

Soil Science Society of America (25yrs)	American Society of Horticultural Science
American Society of Agronomy (25yrs)	International Society of Horticultural Science
Crop Science Society of America (10yrs)	Southern Region Amer. Soc. of Hort. Science
Subtropical Agriculture & Environments Society (14yrs)	Phi Kappa Phi Honor Society

DISSERTATION/THESIS

- **Ph.D. Dissertation:** Nelson, S.D. 1998. Complexation of Napropamide with Dissolved Organic Matter from a Sewage Sludge Amended Soil. Dept. of Soil & Environ. Sci., Univ. of California, Riverside.
- **M.S. Thesis:** Nelson, S.D. 1995. The Effects of Soil Physical Properties and Irrigation Method on Denitrification. Department of Agronomy and Horticulture, Brigham Young University, Provo, UT.

JOURNAL PUBLICATIONS: (Peer Reviewed)

1. Sétamou, M.; C.R. Simpson; O. J. Alabi; S.D. Nelson; S. Telagamsetty; J.L. Jifon. 2016. Quality matters: Influences of citrus flush physiochemical characteristics on population dynamics of the Asian citrus psyllid (Hemiptera: Liviidae). PLOS ONE (DOI:10.1371/journal.pone.0168997). pg 18.
2. Kusakabe, A, B.A. Contreras-Barragan, C.R. Simpson, J. Enciso, S.D. Nelson, and J.C. Melgar. 2016. Application of partial rootzone drying to improve irrigation water use efficiency in grapefruit trees. *Ag Water Manag.* 178:66-75.
3. Contreras-Barragan, B.A., A. Kusakabe, J.C. Melgar and S.D. Nelson. 2016. Understanding partial rootzone drying in citrus. *Acta Horticulturae.* 1135:123-130. <http://dx.doi.org/10.17660/ActaHortic.2016.1135.15>
4. Simpson, C.R., S.D. Nelson, J.C. Melgar, S. King, J. Jifon, G. Schuster, and A. Volder. 2015. Effects of salinity on physiological parameters of grafted and ungrafted citrus trees. *Scientia Horticulturae.* 197:483-489.
5. Simpson, C.R., S. King, S.D. Nelson, J. Jifon, G. Schuster, and A. Volder. 2015. Salinity evaluation for watermelon (*Citrullus lanatus*) grafted with different rootstocks. *Subtrop. Ag & Environ.* 66:1-6.
6. Enciso, J., S.D. Nelson, H. Perea, V. Uddameri, N. Kannan, and A. Gregory. 2014. Impact of residue management and subsurface drainage on non-point source pollution in the Arroyo Colorado. *Sustainability of Water Qual. and Ecol.* 3-4:25-32. (published May 2015).
7. Melgoza, F.J., A. Kusakabe, S.D. Nelson, and J.C. Melgar. 2014. Exogenous applications of abscisic acid to increase freeze tolerance in Citrus trees. *International J. of Fruit Sci.* 14:376-387.
8. Simpson, C.R., S.D. Nelson, J.C. Melgar, S. King, J. Jifon, G. Schuster, and A. Volder. 2014. Growth response of grafted and non-grafted citrus trees to saline irrigation. *Scientia Horticulturae.* 169:199-205.
9. Williams, C.F., J.E. Watson, and S.D. Nelson. 2014. Comparison of equilibrium and non-equilibrium distribution coefficients for the human drug carbamazepine in soil. In X. Cao, I. Cousins, J. de Boer, and K. Kummerer (Eds.) *Environmental Chemistry. Chemosphere.* 95:166-173.
10. Nelson, S.D., J.M. Enciso, H. Perea, M. Setamou, L. Beniken, M. Young, and C. Williams. 2013. Alternative flood irrigation strategies that improve water conservation in citrus. *Subtrop. Plant Sci.* 65:15-23. (Manuscript submitted to Journal in Dec 2013, but release for print until Dec 2014).
11. Perea, H., J. Enciso, J. Jifon, S. Nelson, and C. Fernandez. 2013. Performance of tensiometer and granular matrix soil moisture sensors in irrigated light, medium, and heavy textured soil. *Subtrop. Plant Sci.* 65:1-7.
12. Williams, C.F., J.E. Watson, S.D. Nelson, and C.W. Walker. 2013. Sorption/desorption of lincomycin from three arid region soils. *J. Environ. Qual.* 42:1460-1465.
13. Nelson, S.D., H.A. Ajwa, T. Trout, M. Stromberger, S.R. Yates and S. Sharma. 2013. Water and methyl isothiocyanate distribution in soil after drip fumigation. *J. Environ. Qual.* 42:1555-64.
14. Ajwa, H.A., D.A. Sullivan, M.T. Holdsworth, R.D. Sullivan, and S.D. Nelson. 2013. Reduction of Methyl Isothiocyanate Atmospheric Emissions after Application of Metam Sodium by Shank Injection. *J. Environ. Qual.* 42:1652-1660.
15. Nelson, S.D., M. Young, R. Hanagriff, and S. Klose. Mar. 2012. An evaluation of flood irrigation and compost use in South Texas Rio Red grapefruit production: Are there economic values? *The Journal of American Academy of Business, Cambridge.* 17(2):23-29.
16. Setamou, M., A. Sanchez, J. Patt, S. Nelson, and E. Louzada. 2012. Diurnal patterns in flight activity and effects of light on host finding behavior of the Asian citrus psyllid. *J. Insect Behavior.* 25:264-276.
17. Nelson, S.D., M. Young, J. Enciso, S.L. Klose, and M. Setamou. 2011. Impact of irrigation method on water savings and 'Rio Red' grapefruit pack-out in South Texas. *Subtrop. Plant Sci.* 63:14-22.
18. Simpson, C.R., S.D. Nelson and H.A. Ajwa. 2011. Impact of soil texture and organic matter content on MITC volatilization from soil columns. *J. Agricultural Sci. & Techn. A* 1:194-198.
19. Williams, C.F., and S.D. Nelson. 2011. Comparison for rhodamine-WT and bromide as a tracer for elucidating internal wetland flow dynamics. *Ecological Engineering.* 37:1492-1498.
20. Simpson, C.R., S.D. Nelson, J.E. Stratmann, and H.A. Ajwa. 2010. Surface water seal application to minimize volatilization loss of methyl isothiocyanate from soil columns. *Pest Manag. Sci.* 66:686-692.
21. Uckoo, R.M., G.K. Jayaprakasha, S.D. Nelson, and B.S. Patil. 2010. Rapid simultaneous determination of amines and organic acids in citrus using high-performance liquid chromatography. *Talanta.* 83:948-954.
22. Setamou, M., D. Rodriguez, R.R. Saldana, G. Schwarzlose, D. Palrang and S.D. Nelson. 2010. Efficacy and uptake of soil-applied imidacloprid in the control of Asian citrus psyllid and citrus leafminer, two foliar feeding citrus pests. *J. Economic Entomology.* 103:1711-1719.

23. Reddy, V.P., K. Madhurababu, S.D. Nelson, J.V. da Graca and M. Skaria. 2010. Gene expression studies in sour orange and C-22 rootstocks challenged with the fungus, *Phytophthora nicotianae* and the nematode, *Tylenchulus semipenetrans*. *Pest Technology*. 4 (Special Issue 1): 29-34.
24. Uckoo, R.M., J.M. Enciso, I.W. Wesselmann, K. Jones and S.D. Nelson. 2009. Impact of compost application on citrus production under drip and microjet spray irrigation systems. In: Tennant P, Benkeblia N (Eds) *Citrus II. Tree and Forestry Science and Biotechnology*. 3 (Special Issue 1): 59-65.
25. Wiedenfeld, B., J. Enciso, J. Jifon, S. Nelson, and J. Sauls. 2009. Fertilization programs for 'Rio Red' grapefruit (*Citrus paradisi* Macf.) in South Texas. *Intern. J. Fruit Sci.* 9(3):201-210.
26. Enciso, J., B. Wiedenfeld, J. Jifon, and S. Nelson. 2009. Onion yield and quality response to two irrigation scheduling strategies. *Scientia Horticulturae*. 120:301-305.
27. Nelson, S.D., R.M. Uckoo, H. Esquivel, J.M. Enciso, and K. Jones. 2008. Effect of compost in 'Rio Red' grapefruit production in a heavy textured soil. In: Hao X-Y (Ed) *Compost I. Dynamic Soil, Dynamic Plant*. 2 (Special Issue 1): 67-71.
28. Uckoo, R.M., S.D. Nelson, K.J. Shantidas, and J.M. Enciso. 2005. Irrigation and fertilizer efficiency in South Texas grapefruit production. *Subtropical Plant Science*. 57:23-28.
29. Enciso, J.M., J.W. Sauls, R.P. Wiedenfeld, and S.D. Nelson. 2005. Irrigation of citrus in Texas-A Review. *Subtropical Plant Science*. 57:16-22.
30. Nelson, S.D., D.W. Dickson, H.A. Ajwa, and D.A. Sullivan. 2004. Efficacy of metam sodium under drip and surface spray application in Florida tomato production. *Journal of the Rio Grande Valley Horticultural Society*.
31. Ben-Hur, M., J. Letey, W.J. Farmer, C.F. Williams, and S.D. Nelson. 2003. Soluble and solid organic-matter effects on atrazine adsorption in cultivated soils. *Soil Sci. Soc. Am. J.* 67:1140-1146.
32. Ajwa, H. A., T. Trout, J. Mueller, S. D. Nelson, R. Soppe, and D. Shatley. 2002. Application of alternative fumigants through drip irrigation systems. *Phytopathology*. 92:1349-1355.
33. Nelson, S. D., S. J. Locascio, L. H. Allen, Jr., D. W. Dickson, and D. J. Mitchell. 2002. Soil flooding and fumigant alternatives to methyl bromide in tomato and eggplant production. *HortSci*. 37:1057-1060.
34. Nelson, S. D., C. Riegel, L. H. Allen, Jr., J. Gan, D. J. Mitchell, D. W. Dickson, and S. J. Locascio. 2001. The volatilization of 1,3-dichloropropene in Florida plasticulture and its effects on fall squash production. *J. Amer. Soc. Hort. Sci.* 126:496-502.
35. Riegel, C., S. D. Nelson, D. W. Dickson, L. H. Allen, Jr., and L. G. Peterson. 2001. Efficacy of 1,3-dichloropropene in soil amended with compost and unamended soils. *Suppl. J. Nematol.* 33:289-293.
36. Nelson, S. D., L. H. Allen, Jr., J. Gan, C. Riegel, D. W. Dickson, S. J. Locascio, and D. J. Mitchell. 2000. Can virtually impermeable films reduce the amount of fumigant required for pest-pathogen management in high value crops? *Soil Crop Sci. Soc. Florida Proc.* 59:85-89.
37. Nelson, S.D., W.J. Farmer, J. Letey, and C.F. Williams. 2000. Stability and mobility of napropamide complexed with dissolved organic matter in soil columns. *J. Environ. Qual.* 29:1856-1862.
38. Nelson, S.D., J. Letey, W.J. Farmer, C.F. Williams, and M. Ben-Hur. 2000. Herbicide application method effects on napropamide complexation with dissolved organic matter. *J. Environ. Qual.* 29:987-994.
39. Williams, C. F., M. Agassi, J. Letey, W. J. Farmer, S. D. Nelson, and M. Ben-Hur. 2000. Mediated transport of napropamide by dissolved organic matter through soil columns. *Soil Sci. Soc. Am. J.* 64:590-594.
40. Williams, C. F., J. Letey, W. J. Farmer, S. D. Nelson, and M. Ben-Hur. 1999. Efficiency of hexane extraction of napropamide from Aldrich humic acid and soil solutions. *J. Environ. Qual.* 28:1751-1757.
41. Williams, C. F., W. J. Farmer, J. Letey, and S. D. Nelson. 1999. Design and characterization of a new dialysis chamber for investigating dissolved organic matter-napropamide complexes. *J. Environ. Qual.* 28:1757-1760.
42. Williams, C. F., W. J. Farmer, J. Letey, and S. D. Nelson. 1999. Molecular weight of dissolved organic matter-napropamide complex as affected by napropamide-soil application methods. *J. Environ. Qual.* 28:1429-1435.
43. Nelson, S.D., J. Letey, W.J. Farmer, C.F. Williams, and M. Ben-Hur. 1998. Facilitated transport of napropamide by dissolved organic matter in sewage sludge amended soil. *J. Environ. Qual.* 27: 1994-2000.
44. Nelson, S.D. and R.E. Terry. 1996. The effects of soil physical properties and irrigation method on denitrification. *Soil Sci.* 161: 242-249.

MANUSCRIPTS IN PROGRESS

- Fuentes, C., J. Enciso, S.D. Nelson, J. Anciso, M. Setamou and S. Farag. 20xx. Yield production and water use efficiency under furrow and drip irrigation systems for watermelon in south Texas. Special Issue: Innovative Farm Management to Enhance Agricultural Sustainability. *International Journal of Agronomy*. (In Review).

- Tanner, J.D., M. Kunta, J.V. da Graca, M. Skaria and S.D. Nelson. 20xx. Seed transmission of Citrus tatter leaf virus in citrus. *Phytoparasitica J.* (Submitted June 2014).
- Romero, M., S.D. Nelson, M. Setamou, C.F. Williams, and G. Schuster. 20XX. Impact of altering sugarcane harvesting methods on atrazine adsorption to sugarcane leaf litter. *J. Environ. Qual.* (In preparation).

BOOK CHAPTERS: (Invited, Peer Reviewed)

1. Nelson, S.D., C.R. Simpson, H.A. Ajwa, and C.F. Williams. 2012. Chapter 24: Evaluating surface seals in soil columns to mitigate methyl isothiocyanate volatilization. In M.L. Larramendy and S. Soloneski (Eds.) *Integrated Pest Management and Pest Control - Current and Future Tactics.* Intech-Open Access Publisher. p. 567-580. (Book Chapter, Invited, ISBN: 978-953-51-00508.)
<http://www.intechopen.com/articles/show/title/evaluating-surface-seals-in-soil-columns-to-mitigate-methyl-isothiocyanate-volatilization>)
2. Letey, J., C. F. Williams, W. J. Farmer, S. D. Nelson, M. Agassi, and M. Ben-Hur. 2000. The role of dissolved organic matter in pesticide transport through soil. In L. J. Ross (Ed.) *Agrochemical Movement: Perspective and Scale.* American Chemical Society. p. 347-360.

PROCEEDING PUBLICATIONS: (Peer Reviewed)

Vitae: Shad D. Nelson

1. Fuentes, C., J. Enciso, S. Nelson, J. Anciso and M. Setamou. 2014. Comparing water use efficiency in South Texas furrow and drip irrigated watermelon. Irrigation Show and Education Conference. Phoenix, AZ. Nov. 17-21.
2. Nelson, S.D., M. Setamou, D.E. Garza, J. Raygoza, and M. Esparza. 2014. Nutritional Metalosate[®] supplements with calcium that reduce pest pressure in citrus production. Albion Minerals Annual Conference. Park City, UT. Jan. 13-16.
3. Nelson, S.D., M. Setamou, D.J.E. Garza, M. Esparza, and J. Raygoza. 2013. Nutritional supplements that fortuitously reduce pest pressure for sustainable citrus production and quality. Eds. M.B. Chetti, et al. *Proceedings Souvenir of the Fifth International Symposium on Human Health Effects of Fruits and Vegetables. FAV HEALTH 2012.* Dharwad, Karnataka, India. Jan. 7-11, 2013. Pp. 29-34.
4. Trevino, J., G. Schuster, S.D. Nelson, A.P. Ochoa, and J. Munyaneza. 2011. Effects of potato planting dates on psyllid populations and zebra chip incidence in Texas. Pp: 127-130. In: (Eds: F. Workneh, A. Rashed, and C.M. Rush) *Proceedings of the 11th Annual 2011 Zebra Chip Reporting Session.* San Antonio, TX. Nov. 6-9, 2011.
5. Ochoa, A., G. Schuster, B. Bextine, S. Nelson, and J. Munyaneza. 2011. Using biotyping to establish temporal and special relationships between potato psyllid populations colonizing potatoes in Texas. Pp: 92-96. In: (Eds: F. Workneh, A. Rashed, and C.M. Rush) *Proceedings of the 11th Annual 2011 Zebra Chip Reporting Session.* San Antonio, TX. Nov. 6-9, 2011.
6. Nelson, S.D., L. Rock, M. Sétamou, and J. Lloyd-Reilley. 2011. Flowering native plants able to withstand elevated abiotic salt stress. In (Eds. J.A. Pascual and F. Perez-Alfocea) *Proceeding of the 5th International Symposium on Seed, Transplant and Stand Establishment of Horticultural Crops. Acta Horticult.* 898:103-111.
7. Simpson, C.R., S.D. Nelson and H.A. Ajwa. 2010. Impact of soil texture and organic matter content on MITC volatilization from soil columns. *Proceeding of the 19th World Congress of Soil Science.* Aug. 1-6, 2010. Brisbane, Australia.
8. Uckoo, R.M., S.D. Nelson, G.K. Jayaprakasha, and B.S. Patil. 2009. Impact of low water use systems on bioactive flavonoids of grapefruit. *Proceedings of the 2nd International Symposium on Human Health Effects of Fruits and Vegetables. Acta Horticulturae.* 841:607-610.
9. Mudunuru, U, S.D. Lukefahr, S.D. Nelson, and D.O. Flores. 2008. Performance of growing rabbits fed *Lablab purpurpeus* with molasses mini-blocks and restricted commercial pellets. *9th World Rabbit Congress.* Verona, Italy. June 10-13. *Nutrition and Digestive Physiology.* 753-758.
10. Enciso J. Morales, J., B. Wiedenfeld., S. Nelson, and X. Peries. 2007. Irrigating Onions under Subsurface Drip Irrigation under Different Stress Levels. In *Proceedings of the Annual International Irrigation Show December 9-11, 2007.* San Diego, CA. Irrigation Association Meeting. Pp. 338-352.
11. Nelson, S. D., and H. A. Ajwa. 2001. Physico-chemical properties of chloropicrin with various surfactants. In *2001 Proceeding so the Annual International Research Conference on Methyl Bromide Alternatives and Emissions Reduction. Methyl Bromide Alternatives Outreach.* San Diego, CA. Nov. 5-9, 2001. 95:1-4.

12. Ben-Hur, M., J. Letey, W. J. Farmer, C. F. Williams, and S. D. Nelson. 2001. Soluble and solid organic matter effects on pesticide adsorption on soil. *In* V. A. Tsihrintzis and P. Tsalides (Eds.) *Ecological Protection of the Planet Earth. Proceedings of an International Conference, Xanthi, Greece, 5-8 June 2001.* Vol. 1:83-94.
13. Nelson, S. D., S. J. Locascio, L. H. Allen, Jr., D. W. Dickson, and D. J. Mitchell. 1999. Soil flooding and chemical alternatives to methyl bromide in tomato production. *In* 1999 Proceeding of the Annual International Research Conference on Methyl Bromide Alternatives and Emissions Reduction. *Methyl Bromide Alternatives Outreach.* San Diego, CA. Nov. 1-4, 1999.

AGRICULTURAL EXTENSION PUBLICATIONS

1. M. Young, S. Nelson, S. Klose, and J. Enciso. December 2013. Increased water use efficiency and profitability in citrus production possible in the Lower Rio Grande Valley. FARM Assistance Focus Series 2013-5. Texas AgriLife Extension Service, Dept of Agricultural Economics, Texas A&M University System. pp. 1-3.
2. M. Young, S. Nelson, S. Klose, and J. Enciso. December 2013. Water savings and higher profit margins possible in cotton and other field crops in the Lower Rio Grande Valley. FARM Assistance Focus Series 2013-4. Texas AgriLife Extension Service, Dept of Agricultural Economics, Texas A&M University System. pp. 1-3.
3. M. Young, S. Nelson, S. Klose, J. Enciso. And T. McLemore. May 2013. Farrow vs. surge irrigation in sugar cane under restricted water availability in the Lower Rio Grande Valley. FARM Assistance Focus Series 2013-1. Texas AgriLife Extension Service, Dept of Agricultural Economics, Texas A&M University System. pp. 1-4.
4. S. Nelson, M. Young, S. Klose, and J. Enciso. Feb. 2013. Narrow-border flood for citrus: Saving water while improving yields and net cash farm income. On-Farm AWESome FACTS on agricultural water conservation and efficiency, Texas Project for Ag Water Efficiency, TexasAWE.org. Report #OF-02-13.
5. Young, M., S. Nelson, S. Klose, and J. Enciso. Sept 2010. An evaluation of flood irrigation and compost use in South Texas Rio Red grapefruit production. Texas AgriLife Extension. FARM Assist. Focus 2010-5. pp. 1-3.
6. Young, M., S. Nelson, S. Klose, and J. Enciso. Aug 2010. Assessing irrigation methods based on grapefruit pack-out in the Lower Rio Grande Valley. Texas AgriLife Extension. FARM Assistance Focus 2010-4. pp. 1-3.
7. Young, M., S.L. Klose, G. Kasse, S. Nelson, and J. Enciso. July 2009. New orchard establishment: Flood and 1-line drip irrigation illustration for Rio Red grapefruit in the Lower Rio Grande Valley. Texas AgriLife Extension. FARM Assistance Focus 2009-6. pp. 1-4.
8. Young, M., S.L. Klose, G. Kasse, S. Nelson, J. Enciso, and M. Jupe. July 2008. 2-line drip and micro-jet spray irrigation illustration for Rio Red grapefruit in the Lower Rio Grande Valley. Texas AgriLife Extension. FARM Assistance Focus 2008-6. pp. 1-3.
9. Young, M., S.L. Klose, G. Kasse, S. Nelson, J. Enciso, and M. Jupe. July 2008. 1-line drip and micro-jet spray irrigation illustration for Rio Red grapefruit in the Lower Rio Grande Valley. Texas AgriLife Extension. FARM Assistance Focus 2008-5. pp. 1-3.
10. Enciso, J., J.W. Sauls, R.P. Wiedenfeld, and S.D. Nelson. May 2008. Impacts of irrigation on citrus in the Lower Rio Grande Valley. Texas AgriLIFE Extension Fact Sheet B-6205. pp 14.
11. Enciso, J., J.W. Sauls, R.P. Wiedenfeld, and S.D. Nelson. 2008. Los impactos del riego de Citricos. Texas AgriLIFE Extension Service Fact Sheet B-6205S. pp 16.
12. Young, M., S.L. Klose, G. Kasse, S. Nelson, J. Enciso, and M. Jupe. October 2007. Narrow border flood and 2-line drip irrigation illustration for Valencia, Navel and Marrs oranges in the Lower Rio Grande Valley. Texas Cooperative Extension. FARM Assistance Focus 2007-6. pp. 1-3.
13. Young, M., S.L. Klose, G. Kasse, S. Nelson, J. Enciso, and M. Jupe. August 2007. Narrow border flood and micro-jet spray irrigation illustration for Rio Red grapefruit in the Lower Rio Grande Valley. Texas Cooperative Extension. FARM Assistance Focus 2007-5. pp. 1-3.

Chair Master of Science Thesis/Research Project Graduates

- **Jerry E. Stratmann.** May 2004. Thesis: The Development of Metam-Sodium Application Methods for Minimizing Volatilization. Chair: S.D. Nelson
- **Viola Gade.** May 2004. Thesis: Molecular Characterization of Citrus Partial Hybrids Produced by Microprotoplast Mediated Chromosome Transfer. Chair: E. Louzada, Co-Chair: S.D. Nelson.
- **K.M. Julien Shantidas.** Aug 2004. Thesis: Comparative Study of the Effect of Different Irrigation Systems and Fertilizers Based on Cost and Productivity on Grapefruit (*Citrus Paradisi* (MACFAD.))
- **Catherine Simpson.** Aug 2005. Thesis: Volatilization Loss of Vapam and K-pam in Different Soil Types and Varying Organic Matter Levels. Chair: S.D. Nelson
- **Veronica Ancona.** Aug 2005. Identification and Molecular Characterization of Genes from *Poncirus trifoliata*, Down and Up Regulated by Low Temperature. Chair: E. Louzada, Co-Chair: S.D. Nelson.
- **Ram M. Uckoo.** Aug 2006. Thesis: Irrigation and Fertilization Efficiency in South Texas Grapefruit Production. Chair: S.D. Nelson
- **Ravi Adla.** Aug 2007. M.S. Research Project: Evaluation of Agricultural Water Conservation Demonstration Initiative Program Progress in Lower Rio Grande Valley, Texas. Chair: S.D. Nelson
- **Millie Jo Stevens.** Dec. 2007. M.S. Research Project: Evaluation of Poultry Litter as a Viable Fertilizer Source. Chair: S.D. Nelson
- **Delfino Rodriguez.** Aug 2008. Thesis: Effectiveness of pesticides on control of foliage-feeding citrus pests. Chair: S.D. Nelson, Co-Chair: M. Setamou.
- **LeeRoy Rock.** Aug 2008. Thesis: Salinity Tolerance of Texas Native and Introduced Grasses and Forbs. Chair: S.D. Nelson
- **Shilpa Marepally.** Aug 2008. Thesis: Molecular Identity, Infectivity and Differential Gene Expression Associated with an *Olpidium*-like Fungus. Chair: E. Louzada, Co-Chair: S.D. Nelson.
- **Yona Netha.** Aug 2008. Thesis: Effect of Host Plant on the Bionomics of Asian Citrus Psyllid *Diaphorina citri* (Homoptera; Psyllidae). Chair: M. Setamou. Co-Chair: S.D. Nelson.
- **Vamsi Pallem Reddy.** Dec 2008. Thesis: Gene Expressions in Sour Orange and C-22 Rootstocks and Rio Red Grapefruit Challenged with Soil-Borne Pest and Disease. Chair: E. Louzada, Co-Chair: S.D. Nelson.
- **Esmeralda Rodriguez.** Dec 2009. Thesis: Off-Target Soil Depositional Loss of Select Foliar Pesticides Applied on Citrus by Air-Blast Spayer Application. Chair: S.D. Nelson, Co-Chair: M. Setamou.
- **Sravani Garlapati.** Dec 2009. Thesis: Uptake of Soil-Applied Neonicotinoids by Citrus Plants and their Impact on Selected Biological Parameters of the Asian Citrus Psyllid, *Diaphorina citri*. Chair: M. Setamou. Co-Chair: S.D. Nelson.
- **Manjula Talari.** Dec 2009. Thesis: Different Water Regimes on Aldicarb Efficacy for Citrus Rust Mite Control. Chair: M. Setamou. Co-Chair: S.D. Nelson.
- **Raul Ray Hinojosa.** May 2010. Thesis: Aldicarb Degradation in Flood Irrigated South Texas Soils in Relation to Asian Citrus Psyllid Control, *Diaphorina citri* Kuwayama. Chair: S.D. Nelson, Co-Chair: M. Setamou.
- **Madahy Romero.** May 2010. Thesis: Impact of Altering Sugarcane Harvesting Methods on Atrazine Adsorption to Sugarcane Leaf Litter. Chair: S.D. Nelson, Co-Chair: M. Setamou.
- **Juan Raygoza.** May 2010. Thesis: Effects of Organic Production on *Diaphorina citri* Dynamics of and Nutrient Absorption of Citrus Trees. Chair: S.D. Nelson, Co-Chair: M. Setamou.
- **Justin Tanner.** Aug 2010. Thesis: Studies on Citrus Tatter Leaf Virus Seed Transmission. Co-Chair.
- **Haritha Dhanekula.** Aug 2010. Research Project: Effect of Sulfate and Iron Reducing Bacteria on the Uranium (VI) Reduction through Biostimulation with Hydrogen and Ethanol. Chair: S.D. Nelson.
- **Nargarjuna Prasad Peddabhoini.** May 2012. Thesis: Testing the Efficacy of an “Attract and Kill” Strategy for the Control of Citrus Leafminer in Texas. Chair: M. Setamou. Co-Chair: S.D. Nelson.
- **Diego J.E. Garza.** Dec 2012. Research Project: Foliar Applications of Micro and Macro Nutrients and Its Effects on *Diaporina citri* in Citrus. Chair: M. Setamou. Co-Chair: S.D. Nelson.
- **Marisol Esparza.** Dec 2012. Research Project: Effects of Calcium Application to Citrus on the Biology, Survival and Population Dynamics of Asian Citrus Psyllid, *Diaphorina Citri* (Kuwayama) (Hemiptera:Psyllidae). Chair: M. Setamou. Co-Chair: S.D. Nelson.
- **Franciso Melgoza.** May 2013. Thesis: Understanding and Improving Freeze Tolerance in Citrus. Co-Chair: J.C. Melgar, Co-Chair: S.D. Nelson.

- **Beatriz A. Contreras Barragan.** Dec. 2014. Thesis: Evaluation of Water-Saving Irrigation Strategies in Citrus. Chair: J.C. Melgar, Co-Chair: S.D. Nelson.
- **Liliana Cantu.** May 2015. Thesis: Effect of Nitrogen Fertilization on Host Plant Quality and on the Developmental Parameters of Asian Citrus Psyllid and its Nymphal Parasitoid *Tamarixia radiata*. Chair: M. Setamou. Co-Chair: S.D. Nelson.
- **Corina M. Fuentes.** Dec. 2015. Thesis: Irrigation Scheduling: Evaluation of Soil Moisture Sensors and Water Balance to Improve Water Productivity for South Texas Horticultural Crops. Chair: S.D. Nelson, Co-Chairs: J. Enciso, M. Setamou.
- **Pallavi M. Vedasharan.** May 2016. Thesis: Correlation of Viability of *Candidatus Liberibacter Asiaticus* with Symptom Development and Age of Leaf Tissues. Chair: E. Louzada, Co-Chair: S.D. Nelson.
- **Sri L. Telagamsetty.** May 2016. Population Densities of Asian Citrus Psyllid in Response to the Nutritional Quality of Citrus Shoot Flush. Chair: C.R. Simpson, Co-Chairs: M. Setamou, S.D. Nelson.
- **Benjamin O. Parea.** May 2016. Evaluation of Inoculum Sources, Damage, and Control of *Phytophthora nicotianae* in Grapefruit. Chair: V. Ancona, Co-Chair: S.D. Nelson.
- **Carlos X. Martinez.** Aug 2016. Soil Moisture and Soil Quality Effects of Tillage on a South Texas Victoria Clay. Chair: D. Ruppert, Co-Chair: S.D. Nelson.
- **Ana Olivares.** Dec. 2016. Isolation and Characterization of Bacterial Community Associated with Citrus Roots in Texas. Chair: V. Ancona, Co-Chair: S.D. Nelson.
- **Julian Gonzales III.** May 2017. Citrus Management Strategies and Nutrient Application and their Effects on Plant Physiology and Fruit Quality and Yield. Chair: C.R. Simpson, Co-Chair: S.D. Nelson.
- **Ruby Saldana.** May 2017. Development of Sustainable IPM for Citrus Barnacle Scale. Chair: M. Setamou. Co-Chair: S.D. Nelson.
- **Ruby Saldana.** May 2017. Development of Sustainable IPM for Citrus Barnacle Scale. Chair: M. Setamou. Co-Chair: S.D. Nelson.
- **Perla Duberney.** May 2017. Evaluation of Soil Borne Pathogens of Citrus in Texas and their Control. Chair: V. Ancona. Members: S.D. Nelson, J.L. Hernandez.

Co-Chair/Committee Member Ph.D. Graduate Dissertations

- **Madahy Romero. Ph.D. Candidate.** Aug 2014. Dissertation: Extraction, Degradation, and Microbial Respiration Effects of Mesotrione in Soil. TAMU. Soil Science. Committee Member.
- **Catherine Simpson. Ph.D.** Dec 2013. Dissertation: Water Quality Impacts of Salinity Stress on Grafted Vegetable and Citrus Crops. TAMU/TAMUK. Horticulture. **Coop PhD program. Co-Chair.**
- **Rammohan Uckoo. Ph.D.** Dec 2012. Dissertation: Relationships of water stress and citrus phytochemicals. TAMU. Horticulture. **Co-Chair.**
- **Raul Rivas Cantu. Ph.D.** Dec 2014. Dissertation: Citrus Waste Biorefinery: Process Development and Modeling for Pretreatment and Enzymatic Hydrolysis of Grapefruit Processing Waster Biomass. TAMUK. Environ. Eng. Committee Member.
- **Jessica L. Schnupp. Ph.D.** May 2014. Dissertation: Antimony and Arsenic Fractionation, Partitioning, and Release from Contaminated Streambed Sediment. TAMUK. Environ. Engineering. Committee Member.
- **Sreeram G. Singaraju. Ph.D.** Dec. 2012. Dissertation. Watershed and In-Channel Contributions for Nutrient Fate and Transport in Drainage Ditches Carrying Agricultural Runoff. TAMUK. Environ. Eng. Committee Member.
- **Sergio Santos. Ph.D. Candidate.** Aug. 2013. Treatment and Modeling of VOC Landfill Biogas Emissions Utilizing Biological Active Cover Material. TAMUK. Environ. Eng. Committee Member.
- **Matthew J. Schnupp. PhD.** Dec 2016. Dissertation: The Application of Spatially Explicit Helicopter Survey Data for Northern Bobwhite Management on King Ranch. TAMUK. Wildlife Science. Grad Council Representative.

STUDENT RESEARCH ADVISING

- Past Undergraduate Research Advisor/Mentor for Ronald E. McNair Scholars:
 - Graduated and entered grad school: **E. Borrego** (earned Ph.D. later); **J. Wilborn** (earned M.S. later), **L. Rock** (earned M.S. later), **R. Mungia** (works as Manager for Environmental Comp.)

Grant Proposals Funded – Years Funded, Amounts and Project Titles**2002**

\$ 5,930	TAMU-Kingsville Research Development Funds, University Research Grant Award. PI: S.D. Nelson. June 2002-Aug 2002.
\$300,000	Optimization of Metam Sodium Application Methods for Maximum Efficacy and Minimum Volatilization. Methyl Bromide Transitions grants. USDA Award # 2002-51102-01922. PI: S.D. Nelson (TAMUK), Co-PIs: H.A. Ajwa (UC Davis), D.Dixon (UFI), D. Sullivan (Sullivan Environmental Consulting, Inc.). Aug. 2002-Aug. 2004.
\$299,974	Meeting the Experimental Needs of South Texas Students for Career in Agricultural Science. Hispanic Serving Institutions grants. USDA/CSREES Award # 2002-38422-12168. PI: S.D. Nelson, Co-PIs: J.C. Laurenz, R.L. Stanko. July 2002-June 2004.
\$ 15,000	Task 4: On Farm Irrigation System Management. Rio Grand Basin Initiative, Texas Water Resources Institute grant. PI: S.D. Nelson.

2003

\$ 1,000	Molecular Characterization of Partial Hybrids Produced by Chromosome Transfer. Citrus Producers Board grant. PI: S.D. Nelson, CoPI: E.Louzada. Sept. 2003-Aug. 2004.
\$ 15,000	Task 4: On Farm Irrigation System Management in Citrus. Rio Grand Basin Initiative, Texas Water Resources Institute grant. PI: S.D. Nelson.

2004

\$300,000	Teaching and Mentoring South Texas Students for Careers in Agricultural Science and Research. Hispanic Serving Institutions grants. USDA/CSREES Award # 2004-38422-14608. PI: S.D. Nelson, Co-PIs: J.C. Laurenz, R.L. Stanko. July 2004-June 2006.
\$ 13,200	Task 4: On Farm Irrigation System Management for Citrus Producers. Rio Grand Basin Initiative, Texas Water Resources Institute grant. PI: S.D. Nelson.

2005-2014

\$3,775,225	On-Farm Demonstration Projects for Conserving Water with Drip Irrigation in the Lower Rio Grande Valley. \$263,071 Subcontract for: Maximization of On-farm Surface Water Use Efficiency by Integration of On-farm Application and District Delivery Systems. Texas Water Development Board grant. PI: W. Halbert (Harlingen Irrigation District), CoPI: S.D. Nelson (TAMUK). Start date: Feb. 2005 through Nov. 2014.
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2005

\$ 35,000	Salinity Tolerance of Native Grasses to South Texas. Negotiated funding with USDA-NRCS Kika de la Garza Plant Materials Center for PLSS graduate student assistantship funding for LeeRoy Rock under direction of Dr. Shad Nelson. PI: J. Lloyd-Reilley, CoPI: G.A. Rasmussen, S.D. Nelson. 2005-2007.
\$ 15,000	Task 4: On Farm Irrigation System Management for Water Savings in Citrus Production. Rio Grand Basin Initiative, Texas Water Resources Institute grant. PI: S.D. Nelson.
\$ 1,000	Experiential Learning for Undergraduate and Graduate Students Involved in Citrus and Subtropical Fruits, and Horticulture Club Activities. Student Engagement Funds, College of AgNRHS, TAMUK. PI: S.D. Nelson.

2006

\$296,000	Increasing Student Learning and Career Development Through Agricultural and Natural Resources Based Research. Hispanic Serving Institutions grants. USDA/CSREES Award # 2006-38422-17008. PI: S.D. Nelson, Co-PIs: J.Laurenz, R. Stanko, T. McGehee. 2006- 2008.
\$ 16,500	Task 4: On Farm Irrigation System Management for Citrus Irrigation Management. Rio Grand Basin Initiative, Texas Water Resources Institute grant. PI: S.D. Nelson.
\$ 500	Hort Club Student Engagement Funds, College of AgNRHS, TAMUK. PI: S.D. Nelson.

2007

\$ 30,000	Effects of Water Stress on the Efficacy of Selected Pesticides in Citrus Pest Management. TAMU-Kingsville Research Development Funds, University Research Grant Award. PI: M. Setamou, CoPI: S.D. Nelson. Sept. 1, 2007-Aug. 15, 2008.
\$ 15,000	Task 4: On Farm Irrigation System Management for Citrus Irrigation Management. Rio Grand Basin Initiative, Texas Water Resources Institute grant. PI: S.D. Nelson.

\$ 750	Grant Writers Workshop in Washington, D.C. USDA Travel Grant. PI: S.D. Nelson. 11-07.
\$ 900	Vegetative Propagation of <i>Bambusa malingensis</i> . Texas Bamboo Society. PI: J. Tanner, Co-PI: S.D. Nelson. Aug. 2007.
<u>2008</u>	
\$ 9,000	Experimental Techniques in Animal & Wildlife Sciences. Quality Enhancement Plan grants, Texas A&M University-Kingsville. PI: K. McCuistion, CoPIs: S.D. Nelson, M. Garcia. 2008.
\$ 21,000	Bayer Crop Science. Effects of Water Stress on the Efficacy of Temik and Effectiveness of Selected Bayer Products. PI: M. Setamou, CoPI: S.D. Nelson. April 2008-March 2009.
\$ 30,000	USDA/CSREES Rio Grande Basin Initiative Grant. Effects of Water Deficit Irrigation on the Efficacy of Pesticides in Citrus Pest Management. PI: S.D. Nelson, Co-PI: M. Setamou. June 2008-May 2009.
\$ 7,000	Texas Citrus Producers Board. PI: S.D. Nelson, Co-PI: M. Setamou, H. Esquivel. Sept. 2008-Aug 2009. Approach for a Sustainable Organic System for Organic Farming in the LRGV.
<u>2009</u>	
\$ 20,000	Bayer Crop Science. Field Testing for Awareness of Movento, Envidor, and Temik in Texas Citrus. PI: M. Setamou, CoPI: S.D. Nelson. Feb 2009-Jan 2010.
\$295,000	Experiential Learning and Career Development in Agricultural and Natural Resources. July 2009-June 11. PD: S.D. Nelson CoPDs: R.L. Stanko, K.C.McCuistion. USDA/CSREES HSI Grants.
\$ 28,000	USDA/CSREES RGBI. On-Farm Water Savings Project in South Texas Citrus Production. PI: S.D. Nelson, CoPI: M. Setamou. June 2009-May 2010.
\$ 7,000	Texas Citrus Producers Board. PD: S.D. Nelson CoPD: M. Setamou. Sept. 2009-Aug 2010. Approach for a Sustainable Organic System for Citrus in South Texas.
<u>2010</u>	
\$ 7,500	Experimental Techniques in Animal & Wildlife Sciences, ANSC 4385. P.I.: K. McCuistion, C-PI: S. Nelson, and M. Garcia. Jan 2010-Dec 2010. QEP 2010 Quality Enhancement Plan Grants. TAMU-Kingsville.
\$ 5,000	Impact of Saline Irrigation Water on Citrus Rootstocks in the Lower Rio Grande Valley. PD: S.D. Nelson, CoPD: C.R. Simpson. Mar 2010-Feb 2011. Texas Water Resources Institute graduate research grants. Funding provided by United States Geological Survey.
\$290,000	Developing an Experiential Learning and Career Development Program to Foster and Mentor Students in Agricultural and Natural Resources. Jun 2010-May 2012. PD: R. Hanagriff, CoPD: R.D. Rhoades, C.R. Simpson, K.C. McCuistion, F. Hernandez, S.D. Nelson. USDA-NIFA HSI.
\$ 42,669	USDA-FAS. Proposed Research Program for North African Borlaug Fellows in Irrigation Management and Water Resources. PI: S.D. Nelson, Co-PI: M. Setamou, J. daGraca, J. Enciso. Sept. 2010-Aug. 2011.
\$ 2,300	American Public Gardens Association <i>Travel Grant</i> , June 2010. P.I. S.D. Nelson. American Public Gardens Association Annual Conference, Atlanta, GA. Presentation: Incorporating College Students into a South Texas Public Landscape Horticulture Project. S.D. Nelson, C.R. Simpson, and D.T. Gardiner.
<u>2011</u>	
\$ 12,500	Texas Citrus Producers Board. Micro and Macro Nutrient Impacts at Improving Citrus Health to Combat Key Citrus Pests. P.I. Shad Nelson, Co-PI: M. Setamou, J.C. Melgar. Apr.-Aug. 2011. Project Yr 1 funding.
\$ 40,000	Title V/PPOHA Program proposal. 3D Printing for TAMUK Graduate Students. PD: L. Peel, Co-PIs: S. Ozcelik, H. Zhou, H. Li, K. Jin, F. Heidari, C. Montiel, P. Mills, L. McLauchlan, S. Nelson. 2011.
\$800,000	\$3,200,000 Total Award. USDA-NIFA HSI Collaborative Grants. STEP UP to USDA Career Success: Science, Technology and Environmental Programs for Undergraduate Preparation to USDA Career Success. PD: S.D. Nelson(TAMUK Lead), CoPDs: E. Louzada, R. Stanko, D. Ruppert; (DelMar College) J. Halcomb; (STC) Debbie Villalon; (TSTC) A. Duarte; (UTPA) M. Persans. 2011-2015. \$396,000/yr x 4 yrs = \$1,584,000 to TAMUK. \$800K/yr x 4yrs (2011-2015).
\$150,000	\$600,000 Total Award. USDA-NIFA HSI Collaborative Grants. BGREEN: Building Regional Energy and Educational alliances: A Partnership to Integrate Efforts and Collaboration to Shape Tomorrow's Hispanic Sustainable Energy Leaders. PD: (UTEP) H.A. Taboada, J.F. Espirtu, W.Hargrove, S.Hernandez, J. Noveron; (TAMUK) PD: S.D. Nelson, G.Schuster, R.D.

	Hanagriff; (TSU-San Marcos); (NMSU)T.Jin, L.Sun, R.Richarson D.Valles, H.Sohn,N.Khandan, R.Acharya. 2011-2015. \$150,000/yr x 4 yrs (\$600,000 total) to TAMUK (2011-2015). Total Grant Award Distributed Through UTEP: \$3,200,000 (2011-2015).
\$ 25,000	Texas Citrus Producers Board. Micro and Macro Nutrient Impacts at Improving Citrus Health to Combat Key Citrus Pests. P.I. Shad Nelson, Co-PI: M. Setamou, J.C. Melgar. Sept. 2011 - Aug. 2012. Continued project funding support Yr 2.
\$ 2,000	TAMUK Council for Undergraduate Research (TCUR). TAMUK Oak Tree Survey and Citrus Water Management Projects. P.I. Shad Nelson, Co-PI: Juan D. Vargas. Oct 2011-Aug 2012.
<u>2012</u>	
\$850,000	USDA-NIFA HSI Collaborative Grants. STEP UP to USDA Career Success: Science, Technology and Environmental Programs for Undergraduate Preparation to USDA Career Success. PD: S.D. Nelson(TAMUK Lead), CoPDs: E. Louzada, R. Stanko, D. Ruppert; (DelMar College) J. Halcomb; (STC) Debbie Villalon; (TSTC) A. Duarte; (UTPA) M. Persans. 2012-13.
\$150,000	USDA-NIFA HSI Collaborative Grants. BGREEN: BuildinG Regional Energy and Educational alliances: A Partnership to Integrate Efforts and Collaboration to Shape Tomorrow's Hispanic Sustainable Energy Leaders. PD: (UTEP) H.A. Taboada, J.F. Espirtu, W.Hargrove, S.Hernandez, J. Noveron; (TAMUK) PD: S.D. Nelson, G.Schuster, R.D. Hanagriff; (TSU-San Marcos); (NMSU)T.Jin, L.Sun, R.Richarson D.Valles, H.Sohn, N.Khandan, R.Acharya. 2012-13.
\$136,982	TWDB. Developing and Promoting Water Saving Irrigation Strategies to Increase Water Use Efficiency in Citrus. J.C. Melgar (PD), and S.D. Nelson (Co-PD). (2012-2014).
\$ 71,300	TDA-Crop Specialty Grant Funds. PD: I. Volder, S. King, Co-PD: C. Simpson, J. Franco, S. Nelson. Using Halophytes to Mitigate Salinity in Intercropping of Watermelons. (2012-13).
\$ 14,960	Texas A&M Univ.-Kingsville. Developing Water Saving Irrigation Strategies to Increase Water Use Efficiency in Citrus. J.C. Melgar (PD), M. Setamou, S.D. Nelson and D. Ruppert (Co-PDs). (2012-13).
\$ 10,000	Texas Citrus Producers Board. Integrated Citrus Fertilizer Management Strategies for Calcareous Soils in South Texas. J. Jifon (PD), M. Setamou, J.C. Melgar, J. daGraca, and S.D. Nelson.
\$ 7,200	TAMUK. QEP Proposal. Graduate Students as Mentors of High School Students. J.C. Melgar (PD), E. Louzada, M. Setamou, G. Schuster, and S.D. Nelson.
\$ 3,000	TAMUK. 2012-13 TCUR Proposal. Potential Plant Bioaccumulation of Caffeine in Sandy Soils. S.D. Nelson, M. Dupnik, and C. Hagen. 2012-2013.
<u>2013</u>	
\$ 10,000	Title V/PPOHA Program. Equipment Request that will Enhance the Long Term Sustainability of Agriculture-Based of Graduate Research. G. Schuster, S. Nelson, D. Ruppert, K. McCuistion, S. Lukefahr.
\$232,552	USDA/NRCS 2013 Conservation Innovation Grant. Developing Irrigation Management Strategies Under Drought Conditions in Texas. J. Enciso (PD), and Co-PDs L. Ribera, S.D. Nelson, H. Perea. 2013-2015. USDA-NRCS-NHQ-13-01.
\$825,000	USDA-NIFA HSI Collaborative Grants. STEP UP to USDA Career Success: Science, Technology and Environmental Programs for Undergraduate Preparation to USDA Career Success. PD: S.D. Nelson(TAMUK Lead), CoPDs: (DelMar College) (STC) (TSTC) (UTPA) 2013-14.
\$150,000	USDA-NIFA HSI Collaborative Grants. BGREEN: BuildinG Regional Energy and Educational alliances: A Partnership to Integrate Efforts and Collaboration to Shape Tomorrow's Hispanic Sustainable Energy Leaders. PD: (UTEP) H. Taboada; (TAMUK) PD: S.D. Nelson. 2013-14.
\$279,000	NSF. AGEP-T: Collaborative Research: Advancing Interdisciplinary STEM Graduate Studies in Energy and Sustainability Disciplines. PD: L. Challoo Co-PDs: J. Ren, S. Nelson, R. Challoo, A. Martinez. 2013-2017.
\$ 50,000	Title V/PPOHA Program. Mini-Grant Equipment. High Performance Liquid Chromatography in Graduate Student Research Experiments. S. Nelson, J.C. Melgar, E. Louzada, M. Setamou, D. Ruppert, G. Schuster, and J. da Graca. 2013-14.
<u>2014</u>	
\$182,000	USDA-NIFA NNF grants. Sustainable Agriculture in Semiarid Areas: an International and Interdisciplinary Approach to Graduate Education. JC Melgar(PD), (Co-PDs) SD Nelson, M. Setamou, E. Louzada, and M. Brewer. (2/14-2/19)

- \$ 4,500 Faculty Fellowship to Israel. Media Center International. National Jewish Fund.(5/2014-6/2014).
- \$840,000 USDA-NIFA HSI Collaborative Grants. STEP UP to USDA Career Success: Science, Technology and Environmental Programs for Undergraduate Preparation to USDA Career Success. PD: S.D. Nelson(TAMUK Lead), CoPDs: (DelMar College) (STC) (TSTC) (UTPA) 2014-15.
- \$150,000 USDA-NIFA HSI Collaborative Grants. BGREEN: BuildinG Regional Energy and Educational alliances: A Partnership to Integrate Efforts and Collaboration to Shape Tomorrow's Hispanic Sustainable Energy Leaders. PD: (UTEP) H. Taboada; (TAMUK) PD: S.D. Nelson. 2014-15.
- \$ 5,000 USDA-NRCS. Contribution Agreement between TAMUK and NRCS. PD: S.D. Nelson, and Co-PD: T. Machado, C. Donato.

2015

- \$200,000 TWDB Ag Water Conservation Grant. Development of a Novel Planting Design and Irrigation Strategy for Water Use Efficiency and Conservation in Citrus. S.D. Nelson (PD), M. Setamou, and C. Simpson. 2/1/15-1/31/18.
- \$ 15,000 TAMUK Univ. Research Award Grant. The Impact of Foliar Nutrient Sprays on Asian Citrus Psyllid Development and Population Densities. C. Simpson (PD), S. Nelson, M. Setamou. 9/1/15-6/30/16.
- \$361,000 USDA-NIFA HSI Standard Grant. Lead-UT Pan American. TAMUK-Subcontract. Title:STEP UP 2 USDA Research Success: South Texas Excellence Program to Research Success. Lead-UT Pan American R. Gilkerson (PD), M. Persans, et al. TAMUK subcontract: Stanko (PD), Nelson, Machado, Schuster. \$90,250/yr TAMUK; \$1,000,000 total. 9/1/15-8/31/19.
- \$440,000 USDA-NIFA HSI Collaborative Grant. Lead-UT El Paso. TAMUK-Subcontract. Title: Wheels of Change: A Consortium to Develop Leaders in Agriculture in the Areas of Sustainable Energy and Natural Resources. Lead-UT El Paso J. Espiritu (PD), H. Taboada, et al. TAMUK subcontract: Nelson (PD), Stanko, Machado, Schuster. \$110K/yr TAMUK; \$2,000,000 total. 9/1/15-8/31/19.

2016

- \$2,000,000 USDA-NIFA HSI Standard Proposal. START NOW: Student Training in Agricultural Research Techniques by Novel Occupational Workshops. S.D. Nelson (PD), D. Ruppert, G. Schuster, R. Stanko, T. Machado (TAMUK), and 3 4-Yr HSIs: (FIU), (UTEP), (UPRM). 9/1/16-8/31/20.
- \$ 220,000 USDA-NIFA HSI Standard Proposal. USDA Education and Research Experience in Unmanned Aircraft Vehicles for Precision Agriculture. J. Fox (PD) TAMU-CC; TAMUK-S.D. Nelson (PD), R. Stanko, G. Schuster, C. Simpson-; R. Gilkerson (PD)-UTRGV; J. Halcomb (PD)-DMC; J. Landivar-Texas A&M AgriLife. 1,000,000 9/1/16-8/31/20.
- \$ 61,600 USDA-NRCS Preparing Underrepresented Students for Careers in NRCS. T. Machado (PD), S. Nelson, and C. Donato. 10/24/16-10/24/17.
- \$ 39,998 Borlaug Fellowships Program USDA-Foreign Agricultural Service (FAS). 2016 Fellow #9, Algeria, Climate Change in Citrus Rootstocks. M. Setamou (PD), C. Simpson, S. Nelson. 9/09/2016-12/31/2018.
- \$ 40,000 Texas Water Development Board. Lower Rio Grande Valley Irrigation Education and Outreach Program. Collaborative Water Conservation Grant. Subcontract to TAMUK-\$40,000 for CoPDs: S.D. Nelson, C.R. Simpson, (and M. Young, TAES, Corpus). PD: K. Wagner, R. Lacewell (Texas A&M AgriLife-\$150,000 total. 6/1/2016-12/31/2018.
- \$ 222,194 NSF-MRI Grant. Acquisition of a Liquid Chromatograph-Inductively-Coupled Plasma-Mass Spectroscopic Instrument (LC-ICP-MS) for Speciation of Metal Ions in the Environment. L.M. Camacho (PD), and (Co-PDs): D. Ramirez, L. Clapp, C. Xiao, and S.D. Nelson. 10/1/16-9/30/19.

2017 (Pending)

- \$237,733 NSF-AGEP grant. Collaborative Research. AGEP Transformation Alliance: Texas A&M System Model for URM Success at the Dissertation and Early Career Stages of the Pathway to the Professoriate. TAMU College Station (Lead \$2,000,000 total) , TAMUK: L. Challoo(PD) , R. Challoo, L. Clapp, M. Green, S. Nelson TAMU System Collaborative Grant. 6/1/17-5/31/22.
- \$5 million NSF-CREST Water-Energy-Food grant. Collaborative Grant. TAMUK College of Engineering: W. Worak, L. Clapp, et al. and College of AgNRHS: CoPDs: S. Nelson, B. Turner, C. Simpson, et al. 9/1/17-5/31/22.

PROFESSIONAL ADDRESSES (Chronological Order)*Vitae: Shad D. Nelson*

- Sept 2017 ASHS Annual Conference, Wiakoloa, HI. Sept 19-22, 2017. S.D. Nelson, C.R. Simpson, J. Gonzalez III, S. Telagamsetty, and M. Setamou. Adoption of a New Orchard Planting Design as an Integrated On-Farm Management Approach Strategy to Improve Citrus Production in South Texas.
- Sept 2017 2017 International Conference: Cutting-Edge Solutions to Wicked Water Problems. American Water Resources Association, Water Research Center-Tel Aviv University. Tel Aviv, Israel. Sept 10-11, 2017.
 1. S.D. Nelson, C.R. Simpson, M. Setamou, B. Turner, J. Gonzales III, and S. Telagamsetty. Alternative on-farm orchard designs in citrus irrigation management that improve water savings for flood and drip irrigation systems.
 2. B. Turner, S. Nelson. Improving rangeland management models with ecohydrology connectivity.
- May 2017 Water Conservation in Citrus workshop and field day, May 17, 2017.
 1. S.D. Nelson, M. Young, C. Simpson. Impacts of Narrow Border Flood Irrigation to Improve for Saving Water Resources in Citrus Production.
 2. M. Young and S.D. Nelson. Economics of Water Technologies in Citrus in the LRGV.
 3. C. Simpson, S.D. Nelson, M. Setamou. Raised Beds and Plastic Mesh Cover for Water Savings.
- Apr 2016 30th Anniversary BioCycle WestCoast16 Conference. San Diego, CA, April 4-7, 2016 S.D. Nelson, M. Setamou, A. Kusakabe, and C. Simpson. Using Compost to Enhance Citrus Tree Health to Combat Drought Stress and Greening Disease. **(Invited)**.
- Dec 2015 Water Workshop and Forum, Santa Cruz Irrigation District #15 in partnership with TAMUK & Texas Dept of Agriculture. Weslaco, TX Dec. 9, 2015. S.D. Nelson. Strategies for Water Conservation: Overcoming the 'Hydro-illogical Cycle'. **(Invited)**.
- Oct 2015 Texas Ag Industries Association, South Texas Regional Meeting, Kingsville, TX Oct 1, 2015. S.D. Nelson, C. Simpson, and M. Young. On-Farm Orchard Management Strategies the Improve Water Sustainability & Economic Profitability for South Texas. **(Invited)**.
- Aug 2015 ASHS Annual Conference, New Orleans, LA. Aug 4-7, 2015. S.D. Nelson, M. Young, C.R. Simpson, J.C. Melgar, M. Setamou. Improving Orchards Irrigation Management Practices at the On-Farm Level: A 10 Year Case Study of Collaboration between Scientists and Citrus Producers. **(Invited)**.
- May 2015 LRGV 17th Annual Water Quality Management & Planning Conference. South Padre Island, TX. May 19-23, 2015.
 1. S.D. Nelson, M. Young, J. Enciso, and T. McLemore. Irrigation Management Practices in Citrus Groves for Advancing Sustainable Water Supplies for South Texas. **(Invited)**.
 2. T. McLemore. Provided by S.D. Nelson, M. Young, and J. Enciso. Texas Agricultural Water Efficiency (AWE)-From River to Farm. **(Invited)**.
- Aug 2014 29th International Horticultural Congress, Brisbane, Australia. Aug. 17-22, 2014. S.D. Nelson, B.A. Contreras-Barragan, A. Kusakabe, and J.C. Melgar. Efficient use of partial rootzone-drying in citrus in semiarid areas.
- Jan 2014 Albion Minerals Annual Conference. Park City, UT. Jan. 13-16, 2014. Nelson, S.D., M. Setamou, D. Garza, J. Melgoza, and M. Esparza. Nutritional Metalosate[®] supplements with calcium that reduce pest pressure in citrus production. **(Invited)**.
- Jan 2014 USDA-NIFA HSI PDs Annual Meeting. Washington, DC. Jan. 8-9, 2014. Nelson, S.D., T. Machado, and R. Stanko. STEP UP to USDA Career Success. Poster.
- Nov 2013 ASA-CSSA-SSSA Annual Meeting. Tampa, FL. Nov. 3-6, 2013. Nelson, S.D., M. Setamou, D. Garza and M. Esparza. Reduction in Psyllid Populations Using Supplemental Calcium to Trees Grown in High Calcareous Soils.
- Sept 2013 Texas Ag Industry Association Meeting. Kingsville, TX. Sept. 19, 2013. Nelson, S.D. **(Invited)**. Improving Soil Fertility through the Use of Compost Application in Texas Citrus Production.
- Aug 2013 Center for Education and Training in Agricultural and Related Sciences (CETARS) Symposium. Mayaguez, Puerto Rico. Aug. 10-14, 2013. Nelson, S.D., R.L. Stanko, G. Schuster, and T. Machado. STEP UP to USDA Career Success: A Bridge Model for 2-Yr and 4-Yr HSI Institutions. **(Invited)**.

- Jun 2013 NACTA Conference. Blacksburg, VA. June 25-29, 2013. Providing Underrepresented Agriculture Students a STEP UP to USDA Career Success. S.D. Nelson, R. Stanko, T. Machado, and G. Schuster.
- Apr 2013 Rio Grande Basin Initiative Meeting. San Antonio, TX. April 16, 2013. Proven Irrigation Strategies that Improve Water Conservation in Citrus. S.D. Nelson, J. Enciso, and M. Young
- Apr 2013 Texas Citrus Showcase. Weslaco, TX. April 4, 2013. Water Conservation Techniques for Citrus: Narrow Borders. S.D. Nelson. **(Invited)**
- Mar 2013 Texas A&M AgriLife Research, Spring Seminar Series. Crop & Water Management Strategies for Sustaining Citrus Production in South Texas. S.D. Nelson. Corpus Christi, TX. Mar. 4, 2013. **(Invited)**
- Feb 2013 73rd Annual Meeting of the Southern Region American Society for Horticultural Science, Orlando, FL. S.D. Nelson, J. Enciso, H. Perea, L. Beniken, M. Setamou, M. Young, and C.F. Williams. Alternative flood irrigation strategies that improve water conservation in citrus production. Feb. 2-5, 2013.
- Jan 2013 On-Farm Irrigation Advances for Producers. Tools, Techniques & Technology for Producers 2013 Workshop Series. S.D. Nelson. Soil water sensors and irrigation scheduling. Harlingen, TX. Jan. 24, 2013. **(Invited)**
- Jan 2013 5th International Symposium on Human Health Effects of Fruits and Vegetables (FAV Health), Dharwad, India. S.D. Nelson, M. Setamou, D.E. Garza, J. Melgoza and M. Esparza. Nutritional supplements that fortuitously reduce pest pressure for sustainable citrus production and quality. Jan. 7-11, 2013. **(Invited)**
- Oct 2012 USDA/NIFA HSI Project Directors Conference, Washington, D.C. **(Invited)**
Outcomes and Impacts of Year 1, STEP UP to USDA Career Success.
Nelson, S.D., R. Stanko, T. Machado, G. Schuster, M. Persans, D. Villalon, A. Duarte, and J. Halcomb.
- Aug 2012 American Society of Horticultural Science Annual Conference, Miami, FL **(Invited)**
S.D. Nelson, M. Young, D.E. Garza, M. Esparza, M. Setamou. Potential Benefits of Supplemental Calcium Additions for Sustaining Citrus Production and Quality. Workshop: 'Tropical Fruits and Vegetables: Impact on the US Economy, Quality, Health and Food Safety'.
- May 2012 2012 Project Directors' Conference. USDA Hispanic-Serving Institutions Education Grants Program. Edinburg, TX.
STEP UP to USDA Career Success. Nelson, S.D., R. Stanko, T. Machado, G. Schuster, M. Persans, D. Villalon, A. Duarte, and J. Halcomb.
- Apr 2012 Horticulture Dept. Graduate Seminar, College Station, TX. **(Invited)**
Irrigation and Nutrient Management Strategies for Preserving Citrus in the LRGV.
- Mar 2012 Texas A&M University Student Research Week. March 20-23, 2012
The Effects of Grafting on Citrus Salinity Tolerance. Oral Presentation.
Simpson, C.R., Volder, A., Nelson, S.D., Schuster, G., Melgar, J.C., Jifon, J., and King, S.
- Jan 2012 Soil & Crop Dept. Graduate Seminar, College Station, TX. **(Invited)**
Soil and Water Management Strategies in Citrus Production.
- Jan 2012 2012 W-2082 Annual Meeting, Weslaco, TX
Irrigation Management Impacts on Agricultural Chemical Movements in Soil. S.D. Nelson
- Dec 2011 2011 2nd Annual Texas Irrigation Expo, McAllen, TX. **(Invited)**
Citrus Irrigation Management Strategies for Saving Water. S.D. Nelson
Posters:
Garcia, L., and S. Nelson. Nutrient Load Trends in Six Kleberg County Texas Streams. 2nd Annual Texas Irrigation Expo, McAllen, TX. Dec 8-9, 2011. (1st place undergraduate winner)
Melgoza, F., Kusakabe, A., Melgar, J.C., and Nelson, S.D. Abscisic Acid Increases Cold Tolerance in Citrus. (1st place Graduate winner)
Gomez, M., C. Simpson, S. Nelson, A. Volder, S. King, J. Melgar, and G. Schuster. Salinity Impacts on Growth and Physiology of Grafted and Non-Grafted Citrus Trees. (2nd place graduate winner)
- Sept 2011 American Society of Horticultural Science Annual Conference, Waikoloa, HI.
Relating On-Farm Level Irrigation Water Use to 'Rio Red' Grapefruit Pack-Out
S.D. Nelson, M. Young and J. Enciso

- June 2011 NACTA 2011 Annual Conference, Alberta, Canada
The Power of Experiential Learning and Mentoring to Increased Underserved Minority Undergraduate Students into Graduate School.
S.D. Nelson, K. McCuiston, R. Stanko, and E. Louzada
- Apr 2011 Texas Citrus Showcase, McAllen, TX **(Invited)**
Citrus Tree Nutrition. S.D. Nelson, M. Young, M. Setamou, J. Sauls.
- Feb 2011 71st Annual Meeting of the Southern Region of ASHS, Corpus Christi, TX.
Water Use Efficiency and Water Savings in South Texas Grapefruit Production
S.D. Nelson, J. Enciso, X. Peries and M. Young
Engaging Underserved Undergraduate Student Populations through Experiential Learning for Careers in the Horticultural Sciences. S.D. Nelson and M. Setamou.
- Jan 2011 MRP Project W-2082 Annual Meeting, Honolulu, HI.
Potential Impact of Agricultural Chemical Fate in Subtropical Agricultural Systems.
S.D. Nelson, M. Romero, R.R. Hinojosa and M. Setamou
- Nov 2010 Annual ASA-CSSA-SSSA Conference, Long Beach, CA.
Implications of Sugarcane Harvesting Methods on Atrazine Movement.
S.D. Nelson, M. Romero, M. Setamou, and G. Schuster.
- Oct 2010 1st Annual Texas Irrigation Expo, Mercedes, TX.
On-Farm Water Conservation Strategies in Citrus Production for the LRGV.
S.D. Nelson, M. Young, J. Enciso, X. Peries. Oral and
3 Poster presentations, and guide for citrus and vegetable farm tour.
a. Evaluation of Compost Use in Rio Red Grapefruit Production.
b. Water savings and Irrigation Use Efficiency in South Texas Grapefruit Production.
c. Assessing Irrigation Methods Based on Grapefruit Pack-Out in the Lower Rio Grande Valley.
- June 2010 American Public Gardens Association Annual Conference, Atlanta, GA
Incorporating College Students into a South Texas Public Landscape Horticulture Project
Invited, S.D. Nelson, C.R. Simpson, and D.T. Gardiner.
- May 2010 2010 Annual Rio Grande Basin Initiative Conference, Alpine, TX.
Project Overview in On-Farm Water Conservation in South Texas.
S.D. Nelson, J. Enciso J. Jifon, D. Roland, and D. Leskovar.
(Invited, Dr. Nelson serving as RGBI Task 4 Project Coordinator for Texas).
- Apr 2010 Annual Consortium for Irrigation Research and Education (CIRE) Conference, Weslaco, TX.
'Master's Project Overview in Water Conservation and Management.' S.D. Nelson, R.R. Hinojosa, and M. Romero. **(Host; Dr. Nelson serving as CIRE Chairman elect for 2009-10).**
- Nov 2009 USDA/NIFA HSI Education Grants Program Grantees' Conference, Washington D.C.
Experiential Learning and Career Development in Agricultural and Natural Resources.
S.D. Nelson, K. McCuiston and R.L. Stanko.
- Oct 2009 5th International Symposium on Seed and Seedling Establishment and Transplants. Murcia, Spain.
Flowering Native Plants Able to Withstand Elevated Abiotic Salt Stress.
S.D. Nelson, L. Rock, J. Lloyd-Rielley.
- Aug 2009 2009 Annual Rio Grande Basin Initiative Conference, McAllen, TX.
On-Farm Water Conservation and Management in South Texas.
S.D. Nelson, D. Roland, D. Leskovar, J. Jifon, B. Wiedenfeld, and J. Enciso.
(Invited, Dr. Nelson serving as RGBI Task 4 Project Coordinator for Texas).
- May 2009 Annual Consortium for Irrigation Research and Education (CIRE) Conference, Amarillo, TX.
'Overview of Agricultural Water Conservation Demonstration Initiative (ADI) Projects in the Lower Rio Grande Valley.' S.D. Nelson, T. McLemore, J. Enciso, X. Peries, M. Young, S. Klose.
(Invited; Dr. Nelson serving as CIRE Chairman elect for 2009-10).
- May 2009 National Cooperative Soil Survey Conference 2009, Las Cruces, NM. 'Beyond State Borders: Increasing Student Career Development Through Experiential Learning and Research.'
S.D. Nelson. **(Invited)**
- Jan. 2009 Annual Meeting of the Multistate Research Project, W-1082, Riverside, CA. 'Evaluating the Physical and Biological Availability of Pesticides and Pharmaceuticals in Agricultural Contexts.'
Monitoring Pesticide Fate and Movement in Soils in the LRGV.
S.D. Nelson. **(Invited)**

- Oct. 2008 11th International Citrus Congress. Wuhan, China
Using Alternative Irrigation and Water Monitoring Technologies for Improving On-Farm Water Conservation in South Texas Citrus Production.
S.D. Nelson, H. Esquivel, R. Uckoo, X. Peries and J. Enciso.
- Nov. 2007 ASA-CSSA-SSSA Annual Meetings, New Orleans, LA.
Promoting Water Conservation Practices throughout the LRGV of Texas.
S.D. Nelson, R.M. Uckoo, H. Esquivel, and J.M. Enciso.
- Oct. 2007 USDA/CSREES HSI Education Grants Program Grantees' Conference, Washington D.C.
Increasing Student Learning and Career Development through Agricultural and Natural Resources Based Research. S.D. Nelson, R.L. Stanko, J.C. Laurenz and T.L. McGehee.
<http://www.csrees.usda.gov/nea/education/pdfs/2006-38422-17080.pdf> **(Invited)**
- May 2007 Annual Rio Grande Basin Initiative Meeting, South Padre Island, TX.
Agricultural Demonstration Water Conservation Initiative for the LRGV of Texas.
H. Esquivel and S.D. Nelson
- Nov. 2006 ASA-CSSA-SSSA Annual Meetings, Indianapolis, IN.
Seed and Seedling Salinity Tolerance of South Texas Native Plants.
S.D. Nelson, L. Rock, and J.L. Reilley.
- Oct. 2006 Texas Vegetation Management Association Annual Conference, Kerrville, TX.
Salt Tolerance of Plants for South Texas Revegetation Programs.
S.D. Nelson, R. Uckoo, J. Shantidas, and J. Enciso. **(Invited)**
- Apr. 2006 USDA/CSREES HSI 2006 Proposal Reviewers Panel, Washington, D.C. *Invited*.
Experiential Learning as a Means of Increasing Student Recruitment and Retention.
S.D. Nelson. **(Invited)**
- Nov. 2005 ASA-CSSA-SSSA Annual Meetings, Salt Lake City, UT.
On-Farm Water Conservation Strategies in South Texas Citrus Production.
S.D. Nelson, R. Uckoo, J. Shantidas, and J. Enciso.
- Nov. 2005 ASA-CSSA-SSSA Annual Meetings, Salt Lake City, UT.
Vapam and K-Pam Fate and Movement Under Varying Soil Properties
S.D. Nelson and C.R. Simpson.
- Mar. 2005 USDA CSREES/SERD Project Directors' Conference, New Orleans, LO *Invited*.
Teaching and Mentoring Students Through Experiential Learning Opportunities for Careers in Science. S.D. Nelson. **(Invited)**
- Nov. 2004 ASA-CSSA-SSSA Annual Meetings, Seattle, WA.
Minimizing soil fumigant off gassing by using a soil surface water seal.
S.D. Nelson, J.E. Stratmann, H.A. Ajwa, and C.R. Simpson.
- Nov. 2003 ASA-CSSA-SSSA Annual Meetings, Denver, CO.
Environmental implications of a new organic-based fertilizer source.
S.D. Nelson, R. Munguia, and L. Rock.
- Aug. 2003 Dept. of Agronomy and Agricultural Engineering, Tec of Monterrey, Monterrey, Mexico.
Fate and transport of chemicals in soil systems. S.D. Nelson. **(Invited)**
- Jan. 2003 Environmental Science Graduate/Undergraduate Seminar, BYU, Provo, UT. **(Invited)**
Alternatives to Methyl Bromide: Drip Fumigation. S.D. Nelson and H.A. Ajwa.
- Dec. 2002 Biochemistry Faculty Alumni Seminar, Brigham Young University, Provo, UT. **(Invited)**
Drip Fumigation as an alternative to Methyl Bromide. S.D. Nelson
- Nov. 2002 ASA-CSSA-SSSA Annual Meetings, Indianapolis, IN.
Soil-Gas Phase Distribution of Metam-Sodium Under Drip Fumigation. **(Invited)**
S.D. Nelson, H.A. Ajwa and M. Schutter.
- June 2002 USDA-ARS Field Day, Salinas, CA. **(Invited)**
Strawberry Response to Alternative Chemicals Applied by Drip Fumigation and Shank.
H.A. Ajwa, C. Winterbottom, M. Schutter, T. Trout, S.D. Nelson, and M. Hoque.
- Nov. 2001 Annual International Research Conference on Methyl Bromide Alternatives and Emissions Reductions, San Diego, CA. *Invited*.
Physico-chemical properties of chloropicrin with various surfactants.
S. D. Nelson and H. A. Ajwa.
- Oct. 2001 ASA-CSSA-SSSA Annual Meetings, Charlotte, N.C. **(Invited)**

- Mar. 2001 Physicochemical properties of chloropicrin in various surfactants. S. D. Nelson and H. Ajwa. Strawberry Commission Conference, Oxnard, CA. *Invited*.
Water and Fumigant Distribution in Soil Under Drip Fumigation.
S.D. Nelson, H. A. Ajwa, T. Trout, and M. Schutter.
- Mar. 2001 Strawberry Commission Conference, Irvine, CA. *Invited*.
Growth and Yield of Strawberries Under Drip Fumigation.
S.D. Nelson, H. A. Ajwa, T. Trout, and M. Schutter.
- Nov. 1999 ASA-CSSA-SSSA Annual Meetings, Salt Lake City, UT.
Soil Flooding and Alternative Chemical Replacements for Methyl Bromide.
S.D. Nelson, S.J. Locascio, L. H. Allen, Jr., D.W. Dickson, and D.J. Mitchell.
- Sept. 1999 Soil and Crop Science Society of Florida, Sarasota, FL.
Can Virtually Impermeable Films Reduce the Amount of Fumigant Required for Nematode and Weed Control? S.D. Nelson, L. Allen, Jr., S. Locascio, D. Dickson, and D. Mitchell.
- May 1999 American Society of Plasticulture, Tallahassee, FL.
Methyl Bromide Emissions Reduction: Potential for Barrier Films, Catalysts, Reactants, Absorbents, and Bacterial Metabolism. S. D. Nelson and L. H. Allen, Jr.
- Oct. 1998 ASA-CSSA-SSSA Annual Meetings, Baltimore, MD.
Transport of Napropamide by Dissolved Organic Matter in Soil Columns.
S. D. Nelson, J. Letey, W. J. Farmer, and C. F. Williams.
- Oct. 1997 ASA-CSSA-SSSA Annual Meetings, Anaheim, CA.
Under Estimation of Herbicide Transport by Batch Equilibria.
S. D. Nelson, J. Letey, W. J. Farmer, and C. F. Williams.
- Jan. 1997 California Plant and Soil Conference. Visalia, CA. *Invited*.
Facilitated Transport of Devrinol[®] by Dissolved Organic Matter through Soil Columns.
S. D. Nelson, C. F. Williams, J. Letey, and W. J. Farmer.
- Nov. 1996 ASA-CSSA-SSSA Annual Meetings, Indianapolis, IN.
The Role of Dissolved Organic Matter from Sewage Sludge on Facilitating Napropamide Transport through Soil. S. D. Nelson, J. Letey, W. J. Farmer, and C. F. Williams.
- Nov. 1994 ASA-CSSA-SSSA Annual Meetings, Seattle, WA. S.D. Nelson, and R.E.Terry.
The Effects of Soil Physical Properties and Irrigation Method on Denitrification.
- Aug. 1994 AAAS Annual Meetings, Western Region. San Francisco, CA. S.D. Nelson, and R.E.Terry.
The Role of Soil Physical Properties and Irrigation on Denitrification.

PUBLISHED ABSTRACTS (Chronological Order)

1. American Society of Horticultural Science. Sept. 19-22, 2017. Wiakaloa, HI.
 - a. C. Simpson, J. Gonzales III, D.E. Ruppert, M. Setamou, and S.D. Nelson. Citrus Root Distribution and Turnover as a Result of Different Orchard Management Practices.
 - b. S.D. Nelson, C.R. Simpson, J. Gonzalez III, S. Telagamsetty, and M. Setamou. Adoption of a New Orchard Planting Design as an Integrated On-Farm Management Approach Strategy to Improve Citrus Production in South Texas.
2. Southern Region of Amer. Soc. Hort. Sci. Feb 1-3, 2017. Mobile, AL
 - a. C. Simpson, S.L. Telagamsetty, J. Gonzales III, J.C. Melgar, S.D. Nelson and M. Setamou. Partnerships to Improve Sustainable Citrus Production in the Lower Rio Grande Valley.
3. Pathways to the Doctorate Symposium, Texas A&M Univ. System, Nov.4-5, 2016. Prairie View, TX.
 - a. R. Mendez, G. Schuster, A. Garcia, T. Mays, and S. Nelson. Evaluation of Transgenic Bt Insect Resistant Corn Hybrids for Mycotoxin Reduction.
 - b. D. Salinas, R. Heiniger, D. Herrington, G. Schuster, and S. Nelson. Key Elements of Management for High Corn Yields within Eastern North Carolina.
 - c. A. Garcia, K.A. Wise, N.R. Anderson, J.D. Ravellette, S. Nelson, and G. Schuster. Field Inoculation Methods for Screening Corn Germplasm to Northern Corn Leaf Blight (*Exserohilum turcicum*) and Diplodia Leaf Streak (*Stenocarpella macrospora*).
 - d. K.I. Gonzalez, A. Anoruo, S. Nelson, G. Schuster, G. Perrigo, and R. Williams. Seedling Regeneration, Growth, and Development on Abandoned Farmland.

- e. G.J. Odreman-Noriega, D. Ruppert, S. Nelson, J. Jung, M. Maeda, J. Landivar. Unmanned Aerial System (UAS) based High-Throughput Phenotyping (HTP) of Sorghum.
- f. K.N.Labrador-Rodriguez, H.L. Perotto-Baldivieso, A.Ortega-Santos, C. Wather, S.D. Nelson, and J. Jung. Biomass Estimation Before and After of Prescribed Fires using UAS (Unmanned Aerial System) Technology.
4. American Society of Horticultural Science Annual Meeting. Aug 7-11, 2016. Atlanta, GA.
 - a. J. Gonzales III, S. Telagamsetty, S.D. Nelson, M. Setamou, and C.R. Simpson. Impact of Nutrient Application on Plant Physiology and Asian Citrus Psyllid Populations.
5. American Pathological Society Annual Meeting. Aug 1-4, 2016. Tampa, FL
 - a. P.M. Vedasharan, M. Kunta, E.S. Louzada, S. D. Nelson. Viability of *Candidatus Liberibacter asiaticus* in grapefruit leaves at different stages of maturity and Huanglongbing disease symptom development.
 - b. A.L. Olivares, J.L. Hernandez, S.D. Nelson and V. Ancona. Isolation of Endophytic Bacteria Associated with Roots from Citrus Infected with *Phytophthora nicotianae*.
 - c. P. Debernae, J.L. Hernandez, S.D. Nelson, and V. Ancona. Evaluation of Soil Conditioner ORO79 for the Optimization of Mefenoxam in Control of *Phytophthora nicotianae*.
 - d. D.T. Mays, G. Schuster, P. Porter, M. Setamou, and S.D. Nelson. Reducing Mycotoxin Levels in Corn via Lepidopteran Insect Control and Application of Atoxigenic Fungi.
6. Southern Region American Society of Horticultural Science Annual Conf. Feb 5-7, 2016 San Antonio, TX.
 - a. A. Kusakabe, C.R. Simpson, S.D. Nelson, J.C. Melgar, and M. Setamou. The Effects of Water Management Strategies on Citrus Growth and Yield.
7. ASA-CSSA-SSSA International Annual Meeting. Nov. 15-18, 2015. Minneapolis, MN.
 - a. D.E. Ruppert, and S.D. Nelson. Comparison of Two Different Measures of Soil Quality in an Orchard Context. (oral)
 - b. C.X. Martinez, D.E. Ruppert, D.B. Wester, S.D.Nelson, G. Schuster, G. Perrigo and J. Enciso. Sensitivity of Neutron Probe Moisture Measurements to Use in Suboptimal Settings. (poster).
 - c. C.X. Martinez, D.E. Ruppert, G. Schuster, S.D. Nelson, D.B. Wester and J.L. Foster. Effects of Tillage on Soil Water Content in a Hyperthermic Vertisol Under Dryland Management in a Subhumid/Semi-Arid Climate. (poster).
8. 39th Bilingual Conference at Texas A&M University-Kingsville. Nov. 6, 2015. Kingsville, TX.
 - a. C. Donato, S. Nelson, G. Schuster, R. Stanko, and T. Machado. Hispanic Students in Science, Technology, Engineering and Math. (poster).
9. NNF Project Directors Conference, Washington, DC. Aug. 26-27, 2015.
 - a. C. Fuentes, J. Gonzalez, J. Enciso, S.D. Nelson, J. Anciso, and M. Setamou. Comparing Water Use Efficiency in South Texas Furrow and Drip Irrigated Watermelon. (poster).
10. ASHS Annual Conference, New Orleans, LA. Aug 4-7, 2015.
 - a. S.D. Nelson, M. Young, C.R. Simpson, J.C. Melgar, M. Setamou. Improving Orchards Irrigation Management Practices at the On-Farm Level: A 10 Year Case Study of Collaboration between Scientists and Citrus Producers. **(Invited)**.
 - b. C.R. Simpson, S.D. Nelson, A. Kusakabe, B. Contreras, S. Chaudhary, J.C. Melgar, and M. Setamou. On-Farm demonstrations of novel planting strategies: Working with growers to optimize soil environments, reduce water loss, and manage pests and diseases. **(Invited)**.
 - c. C. Fuentes, J. Enciso, S.D. Nelson, J. Anciso, and M. Setamou. Irrigation scheduling: a water balance approach to improve water efficiency for South Texas horticultural crops. (poster).
 - d. A.L. Olivares, C.R. Simpson, A. Kusakabe, M. Setamou, S.D. Nelson, and V. Ancona. Effects of citrus planting design on soil properties and *Phytophthora nicotianae* propagule counts in flood irrigated soil. (poster).
 - e. S. Telagamsetti, C.R. Simpson, S.D. Nelson, and M. Setamou. Impact of Young Citrus Flush Nutrients and Phloem Sap Composition on Asian Citrus Psyllid Populations. (poster).
 - f. B.O. Perea, S.D. Nelson, O.J. Alabi, and V. Ancona. Inoculum Sources of *Phytophthora nicotianae* in South Texas Nurseries and Groves. (poster).
11. NACTA Annual Conference. June 16-20, 2015. Athens, GA.
 - a. Stanko, R.L., S.D. Nelson, T.J. Tanner, G.L. Schuster and C. Donato-Molina. Engaging Challenges and Opportunities for Underrepresented Agriculture Students in Obtaining USDA Job Training in the STEP UP to USDA Career Success Program. (poster)
12. Subtropical Agriculture & Environments Society Conference. Feb. 6, 2015. Weslaco, TX

- a. L. Cantu, S. Nelson, D. Flores, and M. Setamou. Effect of Nitrogen Fertilization on Host Plant Quality and on the Development Parameters of Asian Citrus Psyllid and its Nymphal Parasitoid *Tamarixia radiata*. (1st place winner- poster/oral competition).
 - b. C. Fuentes, J. Enciso, S. Nelson, J. Anciso, and M. Setamou. Comparing Water Use Efficiency in South Texas Furrow and Drip Irrigated Watermelon. (poster/oral competition).
 - c. J. Ball, C. Simpson, S.D. Nelson, and M. Setamou. Nutrient Application to Citrus and its Interaction with Asian Citrus Psyllid (Hemiptera: Liviidae) Populations. (poster/oral).
 - d. S. Telagamsetti, C.R. Simpson, S.D. Nelson, and M. Setamou. Assessment of Citrus Flush Shoot Nutrient Content and Phloem Sap Compstion and their Effects on Asian Citrus Psyllid Population Densities. (poster/oral competition).
13. Water Workshop and Forum –Santa Cruz Irrigation District #15. Dec. 9, 2015. Weslaco, TX.
- a. C.R. Simpson, S.D. Nelson, A. Kusakabe, B. Contreras, S. Chaudhary, J.D. Melgar, and M. Setamou. Partnerships in Water Conservation: On-Farm Demonstrations of Water Saving Strategies.
14. National Agri-Science Education Conference. Nov. 19-22, 2014. Miami, FL.
- a. Donato-Molina, C., R. Stanko, S. Nelson, T. Machado, and G. Schuster. Engaging Underrepresented Students through Ag-Related Career and Research Training in the ‘STEP UP to USDA Career Success’ Program (poster).
 - b. Lujano, G., and S.D. Nelson. Internship Experience at APHIS Florida Field Station National Wildlife Research Center (poster).
 - c. Fuentes, C., J. Enciso, S.D. Nelson, and J. Anciso. Comparing Water Use Efficiency for Furrow and Drip Irrigated Watermelon (poster).
 - d. Pena, P., G. Sample, R. Stanko, S. Nelson. STEP UP Summer Internship with USDA-ARS Veterinary Animal Research Service (poster).
 - e. Cantu, L., M. Setamou, and S.D. Nelson. Effect of Nitrogen Fertilization on Host Plant Quality and on the Development Parameters of Asain Citrus Psyllid and its Nymphal Parasitoid *Tamarixia radiata* (poster).
 - f. Carmona, G., K.A. Wise, C. Woloshuk, G. Schuster, and S.D. Nelson. Effect of Geography and Crop Rotation on *Aspergillus flavus* Soil Populations in Indiana (poster).
 - g. Garcia, A., G. Burow, J. Burke, C. Woloshuk, G. Schuster, and S. Nelson. Molecular Techniques for Genetic Analysis of Sorghum (poster).
15. International Biotechnology Conference. Nov. 10-14, 2014. Shizouka, Japan.
- a. Contreras-Barragan, B.A., A. Kusakabe, J.C. Melgar, and S.D. Nelson. Understanding partial rootzone drying in citrus (poster).
16. ASA-CSSA-SSSA International Annual Meeting. Nov. 3-6, 2014. Long Beach, CA.
- a. Abreu, A., C.F. Williams, and S.D. Nelson. Sorption of the human drug carbamazepine to soil in the presence of other trace organics. (poster).
17. 29th International Horticultural Congress, Brisbane, Australia. Aug. 17-22, 2014
- a. S.D. Nelson, B.A. Contreras-Barragan, A. Kusakabe, and J.C. Melgar. Efficient use of partial rootzone-drying in citrus in semiarid areas (oral).
 - b. Schuster, G., B. Bextine, J.Munyaneza, S. Nelson, A. Ochoa, and J. Lopez. Impact of potato planting time on zebra chip incidence in south Texas (oral).
 - c. Simpson, C.R., J. Franco, A. Volder, S.D. Nelson, G. Schuster, and S. King. Intercropping with halophytes to mitigate salinity stress on watermelons (poster).
 - d. Simpson, C.R., S.D. Nelson, A. Volder, G. Schuster, J.C. Melgar, J. Jifon, and S. King. Grafting reduces salt tolerance in citrus. (oral).
18. 2014 Summer Internship Presentation, STEP UP to USDA Career Success, USDA-ARS, Lubbock, TX. July 24.
- a. Garcia, Alvaro. Marker Assisted Selection for Sorghum multiseeded1 (*msd1*) Trait Under Controlled Conditions. (oral).
19. NACTA Annual Conference. June 25-28, 2014. Bozeman, MT.
- a. Stanko, R.L., S.D. Nelson, T.J. Tanner, G.L. Schuster and C. Donato-Molina. Engaging Underrepresented Agriculture Students through Research and Job Training in the STEP UP to USDA Career Success Program.

- b. Donato, C., S. Nelson, G. Schuster, R. Stanko and T. Machado. Preparing Hispanic Students to be Leaders in their Communities.
20. American Society of Horticultural Science Annual Meeting. July 28-30, 2014. Orlando, FL.
 - a. Fuentes, C., Enciso, S.D. Nelson, M. Setamou, R. Lopez, and J. Anciso. Comparing Water Use Efficiency in South Texas Furrow and Drip Irrigated Cabbage. (poster)
 - b. Contreras-Barrangan, B., A. Kusabe, J.C. Melgar, and S.D. Nelson. Partial-Rootzone Drying an Effective Water Saving Strategy in Citrus. (oral-invited)
 21. Javelina Research Symposium. April 29, 2014. Kingsville, TX
 - a. Fuentes, C., J. Enciso, S.D. Nelson, M. Setamou, R. Lopez, and J. Anciso. Comparing Water Use Efficiency in South Texas Furrow and Drip Irrigated Cabbage.
 - b. Contreras-Barrangan, B., A. Kusabe, J.C. Melgar, and S.D. Nelson. Partial-Rootzone Drying an Effective Water Saving Strategy in Citrus.
 - c. Cantu, L., M. Setamou, and S.D. Nelson. Life History Parameter of *Tamarixia radiata* nymphal parasitoid of Asian citrus psyllid as affected by host plant nitrogen fertilization.
 22. Subtropical Agriculture & Environments Society Annual Conference. Feb 21, 2014. Weslaco, TX
 - a. Contreras-Barrangan, B., A. Kusabe, J.C. Melgar, and S.D. Nelson. Partial-Rootzone Drying an Effective Water Saving Strategy in Citrus. (1st place winner).
 - b. Dupnik, M., C. Woloshuk, S. Nelson, G. Schuster, and K. Wise. Growth of *Aspergillus flavus* and Aflatoxin Production under Low Oxygen Conditions.
 - c. Lewis, A., G. Schuster, S. Nelson, and J.C. Melgar. Vermicompost Solution as a Nutrient Source in Hydroponic Crop Production. (2nd place winner).
 23. ASA Southern Branch 2014 Annual Meeting. Feb. 2-4, 2014. Dallas, TX.
 - a. Dupnik, M., C. Woloshuk, S. Nelson, G. Schuster, and K. Wise. Effects of Low Oxygen on the Growth of *Aspergillus flavus* and Aflatoxin Production.
 - b. Lewis, A., G. Schuster, S. Nelson, and J.C. Melgar. Vermicompost Solution as a Nutrient Source in Hydroponic Crop Production.
 24. ASA-CSSA-SSSA International Annual Meeting. Nov. 3-6, 2013. Tampa, FL.
 - a. Nelson, S.D., M. Setamou, D. Garza and M. Esparza. Reduction in Psyllid Populations Using Supplemental Calcium to Trees Grown in High Calcareous Soils (oral).
 - b. Simpson, C.R., S.D. Nelson. Physiological Effects of Salinity Stress on Grafted and Non-Grafted Fruit Trees (oral).
 - c. Simpson, C.R. Using Halophytes to Mitigate Salinity Stress on Watermelons. (poster, 3rd place grad competition).
 - d. Romero, M., Gentry, S.D. Nelson. Accelerated Solvent Extraction of the Herbicide Mesotrione from Soils (oral).
 25. AIChE 2013 Annual Meeting. Nov. 3-8, 2013. San Francisco, CA.
 - a. Rivas, R.C, P. L. Mills, K.D. Jones, and S. Nelson. Multifunctional Reactor Engineering for Galacturonic Acid (GA) Production: Enzymatic DePolymerization of Pectin-Rich Biomass with Simultaneous Adsorption of GA onto Anion Exchange Resins.
 26. CETARS Symposium, USDA/NIFA HSI Collaborative Grants Annual Meeting. Aug. 10-15, 2013. Mayaguez, Puerto Rico.
 - a. Nelson, S.D., R.L. Stanko, G. Schuster, and T. Machado. Step Up to USDA Career Success: A Bridge Model for 2-Yr and 4-Yr HSI Institutions. (oral)
 - b. Stanko, R.L., L. Ayala, M.D. Mahan, M.A. Ramirez, E.A. Aguirre, A. Calderon, A. Arellano, F. Xie, and M.R. Garcia. Influence of Weaning Age, Diet, and Season of Birth on Age at Puberty in *Bos Indicus* Influenced Heifers. (oral)
 - c. Schuster, G., B. Bextine, J. Trevino, S.D. Nelson, A.P. Ochoa, and A. Arp. Effects of Potato Planting Timing in Texas on Zebra Chip Incidence and *Candidatus Liberibacter* Infection Rate in Potato Psyllids. (oral)
 - d. Ayala, L., A. Calderon, A.A. Arrellano, E. Taylor, R. Taylor, R. Flores, R.L. Stanko, and M.R. Garcia. The Effect of Age on the Expression of Estrogen Receptors Alpha and Beta in the Choroid Plexus. (poster)
 - e. Montemayor, K., T. Machado, K. McCuiston, M. Rouquette, and J. Paschal. The Correlation of Residual Feed Intake on Carcass Characteristics of Brahman and Brahman Influenced Steers. (poster)

- f. Donato, C., S.D. Nelson, R.L. Stanko, and T. Machado. Preparing Hispanic Students to be Leaders in Their Communities. (poster)
- 27. 59th Annual NACTA Conference. June 25-29, 2013. Blacksburg, VA.
 - a. Nelson, S.D., R. Stanko, T. Machado, and G. Schuster. Providing Underrepresented Agriculture Students a STEP UP to USDA Career Success. (oral)
- 28. Rio Grande Basin Initiative Meeting. April 15-16, 2013. San Antonio, TX
 - a. S.D. Nelson, J. Enciso, and M. Young. Proven Irrigation Strategies that Improve Water Conservation in Citrus.
 - b. J. Enciso, S. Nelson, and M. Young. Irrigation Management Strategies for Water Conservation in the Lower Rio Grande Basin Initiative.
- 29. 67th Annual Meeting of the Subtropical Plant Science Society. Feb 15, 2013. Weslaco, TX. *Subtrop. Plant Sci.* Vol. 65 (posters)
 - a. Melgoza, Franciso, A. Kusakabe, J.C. Melgar and S. Nelson. Understanding and Improving Cold Tolerance in Citrus. (2nd place winner)
 - b. Young, Blake, S. Biles, G. Schuster and S. Nelson. Economic Thresholds for Boll Feeding Bugs in Cotton.
 - c. Mays, Tyler, G. Schuster and S. Nelson. Evaluation of *Bacillus thuringiensis* against Helioverpa populations in cotton varieties grown in the upper coastal bend of Texas.
 - d. Dupnik, Megan, G. Schuster, S. Nelson and J. Halcomb. Incidence and prevalence of bacterial boll rot in Coastal Bend and Rio Grande Valley cotton production.
 - e. Ortiz, Stephanie, M. Chapa, K. Rod Summy, and F.W. Judd. Enhancing Rooting Success of Black Mangrove Propagules (UTPA-HSI grant funded poster)
 - f. Velez, Aida, K. Summy, J. Goolsby, W. Osbrink and D. Thomas. Evolution of Ant Diversity and Phenology at Field Sites for the Biological Control Program for *Arundo donax* on the Rio Grande. (UPTA-HSI grant funded poster), [Also presented at: 61st Annual Meeting of the Southwestern Branch of the Entomological Society of America and the Annual Meeting of the Society of Southwestern Entomologists. 25-28 February 2013, Las Cruces, NM. 1st place winner, poster)
- 30. 73rd Annual Meeting of the Southern Region American Society for Horticultural Science, Orlando, FL. Feb. 2-5, 2013.
 - a. S.D. Nelson, J. Enciso, H. Perea, L. Beniken, M. Setamou, M. Young, and C.F. Williams. Alternative flood irrigation strategies that improve water conservation in citrus production.
- 31. 5th International Symposium on Human Health Effects of Fruits and Vegetables (FAV Health), Dharwad, India. Jan. 7-11, 2013
 - a. S.D. Nelson, M. Setamou, D.E. Garza, J. Melgoza and M. Esparza. Nutritional supplements that fortuitously reduce pest pressure for sustainable citrus production and quality. (**Invited**, oral)
- 32. 2013 Beltwide Cotton Conference, San Antonio, TX. Jan. 7-10, 2012
 - a. K.N. Field, G.L. Schuster, S. Nelson, E.G. Medrano, J. Woodward, and K. Ong. Isolation of bacteria from cotton bolls in the Texas Coastal Bend and Rio Grande Valley. (poster)
 - b. T. Mays, C. Crumley, G. Schuster, and S. Nelson. Evaluation of *Bacillus thuringiensis* against Helioverpa populations in cotton varieties grown in the upper coastal bend of Texas. (poster)
 - c. B. Young, S.P. Biles, G. Schuster, and S. Nelson. Evaluation of economic thresholds for boll feeding bugs in cotton. (poster)
 - d. L.S. Pruter, M.J. Brewer, J. Halcomb, and J.J. Nelson. Regional Cropping and Landscape Analysis Applied to Cotton Pest Management: Risk Assessment of a Sucking Bug. (poster). Del-Mar College student (HSI grant funded intern-Collaborative funds).
- 33. Clute Institute Annual Conference, Maui, HI. Jan 2, 2013.
 - a. R.D. Hanagriff, T. Whitis, R. Rhoades, and S. Nelson. Assessment of an Experimental Learning/Mentoring and Research Program for Recruitment, Retention and Career Development into Agriculture, Natural Resource and Human Sciences for Hispanic Students.
- 34. 2012 SCRI Zebra Chip Annual Reporting Session, San Antonio, TX. Oct. 30-Nov 2, 2012.
 - a. J. Trevino, G. Schuster, S. Nelson, and B. Bextine. Evaluating the impact of planting dates on psyllid populations and ZC disease incidence in Pearsall, TX.
- 35. American Institute of Chemical Engineers (AIChE) Annual Meeting. Pittsburg, PA. Oct 28-Nov 2, 2012.

- a. R.C. Rivas, P.L. Mills, K.D. Jones, and S. Nelson. Adsorption of Galacturonic Acid onto Anion-Exchange Resins to Enhance the Enzymatic Hydrolysis in a Proposed Citrus Processing Waste Biorefinery. (oral)
 - b. R.C. Rivas, K.D. Jones, P.L. Mills, and S. Nelson. Utilization of Citrus Processing Waste as a Renewable Feedstock for Biorefinery Applications: Technical Advances, and Analysis of Engineering Challenges for the Pretreatment and Enzymatic Hydrolysis Steps. (oral)
36. Texas Section Society of Range Management. Fredericksburg, TX. Oct. 10-12, 2012.
- a. R. Silguero, E. Biediger, M. Clayton, R. Lyons, E. Montemayor, H. Martinez, R. Stanko, and S. Nelson. Invasive tanglehead management using broadcast herbicide applications. (poster).
 - b. E. Biediger, R. Silguero, M. Clayton, B. Yarta, G. Gonzales, R. Stanko, and S. Nelson. Supplemental requirements for beef cattle fed native and improved forage using fecal analysis. (poster).
37. American Society of Horticultural Science Annual Conference. Miami, FL. July 31-Aug 3, 2012
- a. S.D. Nelson, M. Esparza, D.E. Garza, M. Setamou, and M. Young. Potential Benefits of Supplemental Calcium Additions for Sustaining Citrus Production and Quality. (**invited**, oral)
 - b. C.R. Simpson, S.D. Nelson, A. Volder, G. Schuster, S. King, J. Jifon, and J.C. Melgar. Water Quality Effects on Grafted and Non-Grafted Citrus (oral).
 - c. F. Melgoza, A. Kusakabe, S.D. Nelson, and J.C. Melgar. Foliar and Ground Application of Abscisic Acid to Increase Cold Tolerance in Citrus. (poster)
 - d. D.E. Garza, S.D. Nelson, and M. Setamou. Foliar Applications of Micro and Macro Nutrients to Control ACP in Citrus. (poster)
38. 2012 Project Directors' Conference. USDA/NIFA HSI Grants Program. May30-June 1, Edinburg, TX.
- a. S.D. Nelson, R. Stanko, T. Machado, G. Schuster, M. Persans, D. Villalon, A. Duarte, and J. Halcomb. STEP UP to USDA Career Success. (oral)
 - b. F. Melgoza, A. Kusakabe, S.D. Nelson, and J.C. Melgar. Foliar and Ground Application of Abscisic Acid to Increase Cold Tolerance in Citrus. (poster)
39. 27th Annual MANRRS Conference. Mar. 29-Apr. 1, 2012. Atlanta, GA.
- a. Vargas, D., J.D. Garza, and S. Nelson. The TAMUK Southern Live Oak Tree Survey.
40. 2012 Southeastern/Southwestern Joint Annual Branch Meeting of the Entomological Society of America. Sharing Insect Science Globally. Little Rock, Arkansas Mar. 4-7, 2012
- a. Esparza, M., Raygoza, J., Nelson, S.D. and Setamou, M. Effect of Soil and Foliar Calcium Sources on the Survivorship and Population Dynamics of Asian Citrus Psyllid. (poster).
 - b. Garza, D., Nelson, S. and Setamou, M. Effects of Micro and Macro Nutrients on Major Citrus Pests in Texas. (oral).
41. 66th Annual Meeting of the Subtropical Plant Science Society. Feb 29, 2012. Weslaco, TX. *Subtrop. Plant Sci.* Vol. 64 (posters)
- a. Garza, D., Nelson, S. and Setamou, M. Effects of Micro and Macro Nutrients on Major Citrus Pests in Texas.
 - b. Melgoza, F., Kusakabe, A., Melgar, J.C., and Nelson, S.D. Abscisic Acid Increases Cold Tolerance in Citrus.
 - c. Ochoa, A.P., Schuster, G.L., Bextine, B., Nelson, S., and Munyaneza, J. Using Biotyping to Establish Temporal and Spacial Relationship Between Potato Psyllid *Bactericera cockerii*, Populations Colonizing Potatoes in Texas.
 - d. Field, K., Schuster, G., Nelson, S., Medrano, E., Woodward J., and Ong, K. Isolation of Bacteria from Isolated Cotton Bolls of South Texas.
 - e. Kaiser, T.N., Schuster, G.L., Hewitt, D.G., Ortega, J.A., Phillips, P.L., and Nelson, S.D. Effects of Microclimate Changes in Different Vegetation Types on Cattle Fever Tick Larval Survival.
 - f. Trevino, J., Schuster, G. Nelson, S. Bextine, B. and Munyaneza, J. Effects of Potato Planting Timing in Texas on Zebra Chip Incidence and *Liberibacter* Infection Rate in Potato Psyllids.
42. Southern Agricultural Economics Association annual meeting. Feb 4-7, 2012. Birmingham, AL.
- a. M. Young, S.D. Nelson, S. Klose and J. Enciso. Assessing Irrigation Methods Based on Grapefruit Pack-Out in the Lower Rio Grande Valley.
43. The Economics, Finance and International Business Research Conference, Miami, FL. Dec. 9, 2011
- a. S. Nelson, M. Young, R. Hanagriff and S. Klose. An Evaluation of Flood Irrigation and Compost Use in South Texas Rio Red Grapefruit Production: Are There Economic Values?
44. 9th Annual Texas A&M System Pathways to the Doctorate Symposium, College Station, TX. Nov. 11, 2011

- a. Gomez, M., C. Simpson, S. Nelson, A. Volder, S. King, J. Melgar and G. Schuster. Salinity Impacts on Growth and Physiology of Grafted and Non-Grafted Citrus Trees.
 - b. De Leon, V., and S. Nelson. Impact of Organic Matter on Carbon Dioxide Evolution.
 - c. Garcia, L., and S. Nelson. Nutrient Load Trends in Six Kleberg County Texas Streams.
 - d. Vargas, D., and S. Nelson. The TAMUK Southern Live Oak Tree Survey.
 - e. Field, K., G. Schuster, S. Nelson, K. Ong, and J. Woodward. Isolation of Organisms Causing Boll Rot from Feeding Insects of South Texas.
 - f. Trevino, J., G. Schuster, S. Nelson, B. Bextine, and J. Munyaneza. Effects of Potato Planting Timing in Texas on Zebra Chip Incidence and Liberibacter Infection Rate in Potato Psyllids.
 - g. Gomez, M., C. Simpson, S. Nelson, A. Volder, S. King, J. Melgar, and G. Schuster. Salinity Impacts on Growth and Physiology of Grafted and Non-Grafted Citrus Trees.
45. Annual Meeting of the ASA-CSSA-SSSA. Oct. 2011. San Antonio, TX
- a. Simpson, C.R., A. Volder, S. Nelson, G. Schuster, J.C. Melgar, J. Jifon, and S. King. *Assessing the Impact of Salinity on Citrus Rootstocks in the Lower Rio Grande Valley.*
 - b. Williams, C.F., S. Castle, S.D. Nelson, and N. Prabhaker. *Linking Soil Sorption to Plant Uptake of the Systemic Insecticide Imidacloprid in Viticulture.*
46. Annual Meeting of the American Society of Horticultural Sciences. Sept 2011. Waikoloa, HI.
- a. S.D. Nelson, M. Young and J. Enciso. *Relating On-Farm Level Irrigation Water Use to 'Rio Red' Grapefruit Pack-Out.* HortScience 46(9):S139. (Abstr.).
47. NACTA 2011 Annual Conference, June 2011, Edmonton, Alberta, Canada.
- a. S.D. Nelson, K. McCuiston, R. Stanko, and E. Louzada. *The Power of Experiential Learning and Mentoring to Increased Underserved Minority Undergraduate Students into Graduate School.* 2011 Abstracts: NACTA Journal. Vol. 55, Suppl. 1, No. 015, p. 8-9.
48. Joint American Phytopathological Society APS-IPPC meeting. Aug 2011. Honolulu, HI
- a. Tanner, J.D., M. Kunta, J.V. da Graca, M. Skaria and S.D. Nelson. *Evidence of a Low Rate of Seed Transmission of Citrus Tatter Leaf Virus in Citrus.*
49. 65th Annual Meeting of the Subtropical Plant Science Society. Feb 9, 2011. Weslaco, TX. *Subtrop. Plant Sci.* Vol. 63.
- a. Esparza, M., Raygoza, J., Nelson, S.D. and Setamou, M. *Effect of Soil and Foliar Calcium Sources on the Survival of Asian Citrus Psyllid.* (1st place winner).
 - b. Peddabhoini, N.P., Setamou, M., Saldana, R. and Nelson, S.D. *Testing the Efficacy of an "Attract and Kill" Strategy for the Control of Citrus Leafminer in Texas.* (3rd place winner).
50. 71st Annual Meeting of the Southern Region ASHS. Feb 5-8, 2011. Corpus Christi, TX.
- a. S.D. Nelson, and M. Setamou. *Engaging Underserved Undergraduate Student Populations through Experiential Learning for Careers in Horticultural Sciences.* HortScience 46(9):S15. (Abstr.).
 - b. C.R. Simpson, S.D. Nelson, S. Cornell and M. Setamou. *Evaluation of Salinity on Citrus and Watermelon Rootstock Seed Germination.* (oral, 2nd place winner, PhD contest)
 - c. M. Esparza, J. Raygoza, M. Setamou and S.D. Nelson. *Impact of Plant Available Calcium to Reduce Asian Citrus Psyllid Survival in 'Rio Red' Grapefruit.* (poster)
 - d. S.D. Nelson, M. Young, M. Setamou, X. Peries and J. Enciso. *Evaluation of Compost Management in Citrus for Improved Crop Sustainability.* (poster)
51. ASA-CSSA-SSSA annual conference. Oct 31-Nov 4, 2010. Long Beach, CA.
- a. Romero, M., S.D. Nelson, M. Setamou, and G. Schuster. *Implications of Sugarcane Harvesting Methods on Atrazine Movement.*
52. USDA-NIFA, Hispanic Serving Institution leadership meeting, Sept. 26-29. 2010. Washington, D.C.
- a. M. Esparza, J. Raygoza, M. Setamou and S.D. Nelson. *Impact of Plant Available Calcium to Reduce Asian Citrus Psyllid Survival in Citrus Production.*
53. 2010 Javelina Research Symposium, Kingsville, TX. Apr 26, 2010.
- a. H. Dhanekula, S.D. Nelson, and L.W. Clapp. *Sulfate and Iron Reducing Bacteria for the Reduction of Uranium (VI).*
54. 2010 MANNRRS Conference, Orlando, FL. Mar. 15-19, 2010.
- a. Romero, M., S.D. Nelson, and M. Setamou. *Impacts of Sugarcane Organic Matter on Atrazine Adsorption in Soils.*

- b. Lozano, J., G. Schuster, K. Ong, S. Nelson, and J. Anciso. Lethal Yellowing and Date Palm Leathal Decline in South Texas.
55. 64th Annual Subtropical Science Society Meeting, Weslaco, TX. Jan. 25, 2010.
- a. Romero, M., S.D. Nelson, M. Setamou, and G. Schuster. Impact of Altering Harvesting Methods on the Adsorption of Atrazine to Sugarcane Residues.
 - b. Tanner, J., M. Kunta, J.V. da Graca, M. Skaria, and S.D. Nelson. Studies on Citrus Tatter Leaf Virus Seed Transmission. (2nd place graduate winner)
 - c. Raygoza, J, M. Setamou, and S.D. Nelson. Organic Production Practices on the Dynamics of Major Citrus Pests.
56. 2010 Texas A&M AgriLife Conference, Texas A&M Univ., College Station, TX. Jan. 11-14, 2010.
- a. Romero, M., S.D. Nelson, M. Setamou, and G. Schuster. Impact of Altering Harvesting Methods on the Adsorption of Atrazine to Sugarcane Residues.
57. 7th Annual Texas A&M System Pathways to the Doctorate Symposium, Laredo, TX. Nov. 13-14, 2009
- a. Saenz, N., J. Yu, and S. Nelson. GIS-Based Crime Occurrence Analysis for City of Alice, TX (1st place undergraduate winner)
 - b. Romero, M., and S.D. Nelson. Impacts of Sugarcane Leaf Litter and Organic Matter on Atrazine Adsorption in Soil.
 - c. Simpson, C.R., D. Gardiner, and S.D. Nelson. Incorporating Horticulture into a South Texas Community.
 - d. Raygoza, J, M. Setamou, and S.D. Nelson. Organic Production Practices on the Dynamics of Major Citrus Pests. (2nd place graduate winner)
 - e. Hinojosa, R.R., S.D. Nelson, and M. Setamou. Movement and Efficacy of Aldicarb in Relation to Flood Irrigation Timing.
 - f. Rodriguez, E., S.D. Nelson, M. Setamou, and R.R. Saldana. Off-Target Soil Depositional Loss of Select Foliar Pesticides Applied to Citrus.
 - g. Galindo, A.N., S.D. Nelson, J. Tanner, M. Setamou, and M. Skaria. Cultivation and Yield Performance of Oyster Mushroom on Various Substrates.
 - h. Dhunekula, H., S.D. Nelson, and L.W. Clapp. Sulfate and Iron Reducing Bacterial Reduction of Uranium (VI).
 - i. Tanner, J., M. Kunta, J.V. da Graca, M. Skaria, and S.D. Nelson. Studies on Citrus Tatter Leaf Virus Seed Transmission. (1st place graduate winner)
 - j. Talari, M., M. Setamou, S.D. Nelson, and J.V. da Graca. Different Water Regimes on Aldicarb Efficacy for Citrus Rust Mite Control.
 - k. Ritchie, R., G. Schuster, S. Nelson, and D.D. Fromme. Evaluating Skip Row to Conventional Cotton in Lint Yield and Quality.
 - l. Buzek, C., G. Schuster, S. Nelson, and D.D. Fromme. Plant Population Effects on Lint Yield Among New Technology Varieties.
58. Nelson, S.D., L. Rock, J. Lloyd-Rielley. 2009. Flowering Native Plants Able to Withstand Elevated Abiotic Salt Stress. 5th International Symposium on Seed, Transplant and Stand Establishment of Horticultural Crops (SEST2009). Murcia, Spain. Sept. 27-Oct. 1.
59. Hinojosa, R.R., S.D. Nelson, M. Setamou, and E. Rodriguez. Adsorption, Degradation, and Efficacy of Aldicarb in Relation to Flood Irrigation Timing in South Texas Soils. NOPHNRCSE (National Org. of Prof. Hispanic Natural Resource Conservation Service Employees) 2009 Conference, Philadelphia, PA. Aug. 3-7.
60. Stanko, R.L., S.D. Nelson, J.C. Laurenz, and M.R. Garcia. Enhancing underrepresented, minority student learning through agricultural and natural resources based research. 2009 Joint Annual Meeting ADSA-CSAS-ASAS, Montreal, Canada. July 12-16. J. Anim. Sci. Vol.87: E-Suppl. 2, p. 382.
61. National Cooperative Soil Survey Conference 2009, Las Cruces, NM. May 9-16.
- a. Hinojosa, R.R., S.D. Nelson, M. Setamou, and E. Rodriguez. Aldicarb Degradation in Flood Irrigated South Texas Soils in Relation to Citrus Pest Efficacy.
 - b. Rodriguez, E., S.D. Nelson, M. Setamou, R.R. Saldana, and R.R. Hinojosa. Off-Site Soil Quantification of Foliar Pesticides Applied on Citrus.
 - c. Romero, M., S.D. Nelson, J.M. Enciso, and X. Peries. Sugarcane Leaf Litter and Ash Organic Matter Effects on Atrazine Sorption and Movement in Soils.
62. Southern Association of Agricultural Sciences Annual Conference. Atlanta, GA. Jan. 31-Feb. 3. Young, M., S. Klose, G. Kaase, S. Nelson, and J. Enciso. 2009. Evaluating Alternative Irrigation Systems and Water Pricing in Rio Red Grapefruit Production in the Lower Rio Grande Valley.

63. 63rd Annual Meeting of the Rio Grande Valley Horticultural Society. Jan. 21. 2009. Weslaco, TX.
- Romero, M., S.D. Nelson, J.M. Enciso, X. Peries, and R.R. Hinojosa. Assessing the Agricultural Nonpoint Source Contaminants of the Arroyo Colorado.
 - Hinojosa, R.R., S.D. Nelson, M. Setamou, and E. Rodriguez. Movement and Citrus Pest Control Efficacy of Aldicarb in South Texas Heavy Textured Soils.
 - Rodriguez, E., S.D. Nelson, M. Setamou, R.R. Saldana, R.R. Hinojosa, and M. Romero. Non-target Environmental Assessment of Chemical Spray Application and Quantification of Active Ingredient Persistence in Soil and Foliage.
 - Raygoza, J., S.D. Nelson, and M. Setamou. Effects of Organic Production Practices on the Dynamics of Major Citrus Pests and the Productivity of Citrus Trees.
 - Garlapati, S., M. Setamou, S.D. Nelson, and J.V. da Graca. Concentration of Neonicotinoid Insecticides in Citrus Leaves and Their Impact on Asian Citrus Psyllid (*Diaphorina citri* Kuwayama).
 - Talari, M., M. Setamou, S.D. Nelson, and J.V. da Graca. Effect of Different Water Regime on the Efficacy of Aldicarb in the Control of Major Citrus Pests.
 - Tanner, J., and S.D. Nelson, and J. Lozano. Sodium Chloride Tolerance of Sea Breeze Bamboo, *Bambusa malinzensis*.
64. Saenz, N., J. Yu, and S. Nelson. 2008. GIS based traffic demands estimation for hurricane evacuation: A case study for Corpus Christi, TX. Annual TAMUS Pathways to the Doctorate Symposium. Commerce, TX. Nov. 3-4. (1st place winner, undergraduate environmental science section).
65. Nelson, S.D., H. Esquivel, R. Uckoo, X. Peries and J. Enciso. 2008. Using Alternative Irrigation and Water Monitoring Technologies for Improving On-Farm Water Conservation in South Texas Citrus Production. 11th International Citrus Congress. Wuhan, China. Oct. 26-30.
66. Uckoo, R.M., G.K. Jayaprakasha, B.S. Patil and S.D. Nelson. 2008. Simultaneous Determination of Amines and Organic Acids in Citrus using a Rapid HPLC Technique. American Society for Horticultural Science Annual Conference. Orlando, FL. July 21-24.
67. American Pathological Society Annual Meetings. July 26-30, 2007. St. Paul, MN.
- Reddy, V.R., M. Kunta, J.V. daGraca, S.D. Nelson and M. Skaria. Infectivity Studies in Sour Orange and C-22 Rootstocks Challenged with the Nematode *Tylenchulus semipenitrans* and the Fungus *Phytophthora parasitica*.
 - Marepally, S., M. Kunta, J.V. daGraca, S.D. Nelson and M. Skaria. Molecular Identity, Infectivity, and Differential Gene Expression Associated with an *Olpidium*-like Fungus in Citrus and Vegetables.
68. Mudunuru, U, S.D. Lukefahr, S.D. Nelson, and D.O. Flores. 2008. Performance of Growing Rabbits Fed Lablab purpureus with Molasses Mini-Blocks and Restricted Commercial Pellets. 9th World Rabbit Science Association (WRSA) Congress. Verona, Italy. June 10-13.
69. Saenz, N., J. Yu and S. Nelson. 2008. GIS Based Traffic Demands Estimation for Hurricane Evacuation: A Case Study of Corpus Christi, TX. Assoc. of Amer. Geographer's Annual Conf. Boston, MA. Apr. 15-19.
70. Rodriguez, D., S.D. Nelson, M. Setamou and R. Saldana. 2008. Effects of Soil-Applied Imidacloprid on the Control of Two Foliage Feeding Citrus Pests. Southern Section of the ASA. Dallas, TX. Feb. 3-5. (2nd Place graduate student competition award winner).
71. 62nd Annual Meeting of the Rio Grande Valley Horticultural Society. Jan. 30, 2008. Weslaco, TX. Abstracts:
- Saldana, R.R., M. Setamou, D. Rodriguez, S.D. Nelson and V. French. Uptake of Imidacloprid Level in Citrus Leaves and Evaluation of its Effects in the Control of Citrus Pests.
 - Marepally, S., M. Kunta, J.V. daGraca, S.D. Nelson and M. Skaria. Molecular Identity, Infectivity, and Differential Gene Expression Associated with an *Olpidium*-like Fungus in Citrus and Vegetables.
 - Netha, Y., M. Setamou, S.D. Nelson, and J.V. daGraca. Effect of Host Plant on the Bionomics of Asian Citrus Psyllid *Diaphorina citri* (Hemiptera: Psyllidae).
 - Reddy, V.R., M. Kunta, J.V. daGraca, S.D. Nelson and M. Skaria. Infectivity Studies in Sour Orange and C-22 Rootstocks Challenged with the Nematode *Tylenchulus semipenitrans* and the Fungus *Phytophthora parasitica*.
72. Enciso, J., J. Morales, B. Wiedenfeld, S.D. Nelson and X. Peries. 2007. Irrigating Onions with Subsurface Drip Irrigation Under Different Stress Levels. 28th Annual Irrigation Association Show. San Diego, CA. Dec. 9-11.
73. ASA-CSSA-SSSA annual conference. Nov. 4-8, 2007. New Orleans, LA.
- Nelson, S.D., R.M. Uckoo, H. Esquivel and J.M. Enciso. Promoting Water Conservation Practices Throughout the Lower Rio Grande Valley of Texas.
 - Uckoo, R.M., S.D. Nelson, J.M. Enciso, I. Wesselman and K. Jones. Assessment of Compost Application in South Texas Grapefruit Production.

74. 5th Annual TAMUS Pathways to the Doctorate. Nov. 2-3, 2007. Stevensville, TX.
 - a. Borrego, E., L. Rock and S.D. Nelson. High salinity tolerance of native grass seed and seedlings.
 - b. Saenz, N., J. Yu and S. Nelson. 3D GIS model and animation, Texas A&M University-Kingsville campus.
75. Gonzalez, O., T. McGehee and S. Nelson. Groundwater doming adjacent to red mud impoundments. 5th Annual TAMUS Pathways to the Doctorate. Stevensville, TX. Nov. 2-3.
76. Borrego, E., L. Rock and S.D. Nelson. 2007. Influence of high salinity on seed germination of native grasses and forbs species. Soc. for the Advancement of Chicanos and Native Americans in Science (SACNAS) conference. Kansas City, MO. Oct. 10-14.
77. Uckoo, R.M., S.D. Nelson, G.K. Jayaprakasha, and B.S. Patil. 2007. Impact of Low Water Use Systems on Bioactive Flavonoids of Grapefruit. 2nd International Symposium on Human Health Effects of Fruits and Vegetables. Houston, TX. Oct. 9-13.
78. Annual Joint Rio Grande Basin Initiative meeting. May 14-17, 2007. South Padre Island, TX.
 - a. Esquivel, H. and S.D. Nelson. Agricultural demonstration water conservation initiative (ADI) for the lower Rio Grande Valley of Texas.
 - b. X. Peries, J. Enciso, J. Morales and S. Nelson. Using Flexible Pipe (poly-pipe) with Surface Irrigation.
 - c. X. Peries, J. Enciso, J. Morales and S. Nelson. Improving Irrigation Use Efficiency in the LRGV: Result Demonstration Reports.
79. 61st Annual Rio Grande Horticultural Society meeting. Jan. 30, 2007. UT-PanAm, Edinburg, TX.
 - a. Uckoo, R.M., S.D. Nelson, and J.M. Enciso. Effect of compost application in South Texas grapefruit production. (1st place poster contest winner).
 - b. Esquivel, H., and S.D. Nelson. Water conservation initiative project for the Lower Rio Grande Valley of Texas.
80. Rock, L., S.D. Nelson, and J.L. Reilley. 2006. Screening South Texas native plant seedlings for salinity tolerance. ISHS 4th International Symposium on Stand Establishment. San Antonio, TX. Dec. 3-6.
81. ASA-CSSA-SSSA annual conference. Nov. 12-16, 2006. Indianapolis, IN.
 - a. Esquivel, H., and S.D. Nelson. Water conservation agricultural demonstration initiative project for the Lower Rio Grande Valley.
 - b. Rock, L., S.D. Nelson, and J.L. Reilley. Seed and seedling salinity tolerance of South Texas native plants.
82. Texas Vegetation Management Association Annual Conference. Oct. 23-25, 2006. Kerrville, TX.
 - a. Esquivel, H., and S.D. Nelson. Vegetative control using herbicide adjuvant CT-301 to glyphosate.
 - b. Rock, L., S.D. Nelson, and J.L. Reilley. Salt tolerance of plants for South Texas revegetation programs.
83. ASA-CSSA-SSSA annual conference. Nov. 6-10, 2005. Salt Lake City, UT.
 - a. Nelson, S.D., R.M. Uckoo, J. Shantidas, and J.M. Enciso. On-farm water conservation strategies in South Texas citrus production.
 - b. Simpson, C.R., and S.D. Nelson. Vapam and K-pam fate and movement under varying soil properties.
 - c. Khan, A.R., H.A. Ajwa, and S.D. Nelson. Adsorption and transformation of chloropicrin as affected by surfactants.
84. 3rd Annual Texas A&M Univ. System Pathways to the Doctorate Symposium. Nov. 4-5, 2005. Kingsville, TX.
 - a. Rodriguez, D., A. Galindo, and S.D. Nelson. Impact of South Texas heat on the efficacy of Stabitol.
 - b. Vela, A.J., H. Esquivel, and S.D. Nelson. Evaluation of weed suppression using a herbicide additive to glyphosate.
 - c. Uckoo, R.M., S.D. Nelson, and J. Enciso. Management strategies for irrigation use efficiency in grapefruit production.
85. Southern Section of American Society of Agronomy. June 19-20. 2005. San Antonio, TX.
 - a. Simpson, C., and S.D. Nelson. Soil organic matter effects on fumigant fate and movement in soils. Southern Section of American Society of Agronomy. San Antonio, TX. June 19-20.
 - b. Ancona, V., S.D. Nelson, and E. Louzada. Identification of cold responsive genes from *Poncirus trifoliata*.
86. Rock, L., and S.D. Nelson. 2005. Influence of biosolid vs. inorganic nitrogen-based fertilizer additions on greenhouse pepper plant production. 7th Annual Texas National McNair Scholars' Research Conference. University of North Texas, Denton, TX. Feb. 18-20.
87. 2005 Agriculture Program Conference. Jan. 11-12, 2005. Texas A&M, College Station, TX.

- a. Munguia, R., Jr., and S.D. Nelson. Water infiltration rates on varying soil types from phytase applied swine effluent.
 - b. Simpson, C.R., and S.D. Nelson. Soil fumigant fate and movement in soil organic matter systems. Agriculture Program Conference Student Poster Competition.
88. Munguia, R., Jr., and S.D. Nelson. Evaluation of phytase in the swine waste stream to reduce P loading in soils. Symposium on the State of Science of Animal Manure & Waste Management. San Antonio, TX. Jan. 5-7, 2004.
 89. Nelson, S.D., J.E. Stratmann, H.A. Ajwa, and C.R. Simpson. 2004. Minimizing soil fumigant off gassing by using a soil surface water seal. Annual ASA-CSSA-SSSA Meetings, Seattle, WA. Oct. 31-Nov. 4, 2004.
 90. TAMUS 2nd Annual Pathways to the Doctorate Symposium. Oct. 15-16, 2004. TAMU-Corpus Christi.
 - a. Ancona, V., S.D. Nelson, and E. Louzada. Cold Tolerance Genes in Citrus.
 - b. Simpson, C.R., and S.D. Nelson. Volatilization loss of vapam and K-pam in different soil types and varying organic matter levels.
 - c. Rock, L., and S.D. Nelson. Influence of biosolid vs. inorganic nitrogen-based fertilizer additions on greenhouse pepper plant production.
 - d. Wilborn, J.C., and S.D. Nelson. Post-emergence application of pre-emergence herbicides in growing corn.
 91. Allen, L.H. Jr., and S.D. Nelson. 2004. Can Rhizoma perennial peanut sequester soil carbon? 63rd Annual Conference of the Soil and Crop Science Society of Florida. May 19-21, 2004.
 92. 1st Annual Pathways Research Symposium. Nov. 14-15, 2003. Galveston, TX.
 - a. Gade, V., S.D. Nelson, and E.S. Louzada. Molecular characterization of partial hybrids in citrus by microplast mediated chromosome transfer.
 - b. Munguia, R. Jr., S.D. Nelson, and K.M.J. Shantidas. Evaluation of nitrate leaching potential of a biosolid-based fertilizer, Xtend.
 - c. Rock, L., and S.D. Nelson. Compost application and various fertilizer impacts on greenhouse tomato production.
 - d. Shantidas, K.M.J., S.D. Nelson, and T. Cadena. Water conservation and fertility management strategies on citrus cost and productivity.
 - e. Stratmann, J., S.D. Nelson, and L. Rock. Development of metam-sodium application methods for minimizing volatilization.
 93. Ajwa, H.A., S.D. Nelson, and T. Trout. 2003. Water and methyl isothiocyanate distribution in soil after drip fumigation with metam sodium. *In* Proceedings 2003 Annual International Research Conference on Methyl Bromide Alternatives and Emissions Reductions. San Diego, CA. Nov. 3-6, 2003.
 94. Annual ASA-CSSA-SSSA Meetings. Nov. 2-6, 2003. Denver, CO.
 - a. Nelson, S. D., R. Munguia, and L. Rock. Environmental implication of using a new organic-based fertilizer source.
 - b. Sharmasarkar, S., H.A. Ajwa, and S.D. Nelson. MITC distributions in soil fumigated with metam sodium.
 95. Nelson, S. D., and H. A. Ajwa. 2002. Soil-Gas Phase Distribution of Metam-Sodium Under Drip Fumigation. Annual ASA-CSSA-SSSA Meetings, Indianapolis, IN. Nov. 10-14, 2002. Invited.
 96. 2001 Annual International Research Conference on Methyl Bromide Alternatives and Emissions Reductions. San Diego, CA. Nov. 5-8, 2001.
 - a. Nelson, S. D., and H. A. Ajwa. 2001. Physico-chemical properties of chloropicrin with various surfactants. *In* 95:1-4. Invited.
 - b. Ajwa, H. A., M. Schutter, S. D. Nelson, and T. Trout. Efficacious application rates of propargyl bromide and iodomethane/chloropicrin for strawberry production. 24:1-3. Invited.
 - c. Ajwa, H. A., T. Trout, S. D. Nelson, and M. Schutter. 2001. Drip fumigation: water and fumigant distribution in soil. 50:1-2. Invited.
 97. Annual ASA-CSSA-SSSA Meeting. Charlotte, NC. Oct. 15-18, 2001.
 - a. Nelson, S. D., and H. A. Ajwa. Physico-chemical properties of chloropicrin with various surfactants. Invited.
 - b. Ajwa, H. A., T. Trout, S. D. Nelson, and M. Schutter. Dissipation of methyl bromide alternative fumigants in soils. Invited.
 98. Riegel, C., S. D. Nelson, D. W. Dickson, and L. H. Allen, Jr. 2000. Efficacy of Telone (1,3-dichloropropene) on plant parasitic nematodes in non- and composted soils. Annual Nematology Conference. Tallahassee, FL.
 99. Annual ASA-CSSA-SSSA Meeting. Oct. 31-Nov. 4, 1999. Salt Lake City, UT..

- a. Nelson, S. D., S. J. Locascio, L. H. Allen, Jr., D. W. Dickson, and D. J. Mitchell. 1999. Soil flooding and alternative chemical replacements for methyl bromide. p. 103.
 - b. Williams, C. F., J. Letey, W. J. Farmer, S. D. Nelson, and T. Arteaga. Facilitated transport of napropamide: molecular weight of the DOM-napropamide complexes. p. 346.
100. Locascio, S. J., S. D. Nelson, L. H. Allen, Jr., D. W. Dickson, and D. Mitchell. 1999. Soil flooding and chemical alternatives to methyl bromide in tomato production. *In* 1999 Annual International Research Conference on Methyl Bromide Alternatives and Emissions Reductions. San Diego, CA. Oct. 31-Nov. 4.
101. Annual ASA-CSSA-SSSA Meeting Abstracts. Oct., 1998. Baltimore, MD.
- a. Nelson, S. D., J. Letey, W. J. Farmer, and C. F. Williams. Transport of napropamide with dissolved organic matter in soil columns. p. 354.
 - b. Williams, C. F., J. Letey, W. J. Farmer, and S. D. Nelson. The effect of application method on DOM-napropamide complexation. p. 355.
102. Annual ASA-CSSA-SSSA Meeting Abstracts. Oct., 1997. Anaheim, CA.
- a. Nelson, S. D., J. Letey, W. J. Farmer, and C. F. Williams. Under estimation of herbicide transport by batch equilibria. p. 34.
 - b. Williams, C. F., J. Letey, W. J. Farmer, and S. D. Nelson. The effect of soil chemical properties on the efficiency of hexane extraction of napropamide from simulated soil. p. 36.
103. Annual ASA-CSSA-SSSA Meeting Abstracts. Nov., 1996. Indianapolis, IN.
- a. Nelson, S. D., J. Letey, W. J. Farmer, and C. F. Williams. 1996. The role of dissolved organic matter from sewage effluent on facilitating napropamide transport. *In* 1996 p. 35.
 - b. Williams, C. F., J. Letey, W. J. Farmer, and S. D. Nelson. 1996. Facilitated transport of napropamide by dissolved organic matter through soil columns. p. 29.
104. Nelson, S. D., and R. E. Terry. 1994. The effects of soil physical properties and irrigation method on denitrification. *In* 1994 Annual ASA-CSSA-SSSA Meeting Abstracts. Seattle, WA. Nov., 1994. p. 279.

Published Newsletters:***Texas A&M University Kingsville Citrus Center Newsletter***, <http://kcc-weslaco.tamu.edu>

- Nov 2012 Water Savings in Citrus Production for 2011 On-Farm Water Conservation Demonstration Sites. S.D. Nelson. Fall 2012. Vol. 30. No.2. Pgs 1-2.
http://kcc-weslaco.tamu.edu/files/newsletter/2012/Fall_2012_Vol_30_No_2.pdf
- Mar 2011 Student Recognition for Research at the 65th Annual Meeting of the Subtropical Plant Science Society, S.D. Nelson, President, 2010 Subtropical Plant Science Society. Vol. 29. No. 1. Pg 4.
Department Has New Name. S.D. Nelson. Vol. 29. No. 1. Pg 4.
Evaluating Water Use and Yield from Various Irrigation Systems in Citrus Production. S.D. Nelson, M. Young, and J. Enciso. Vol. 29. No. 1. Pg 2-3.
- Dec 2010 Drip Irrigation Line Placement for Adequate Soil Moisture in Citrus Production Systems. S.D. Nelson, J. Enciso, and M. Young. Vol. 28. No. 6, pg.
- Dec 2009 TAMU-Kingsville Citrus Center Students Sweep Graduate Agricultural Division Awards S.D. Nelson. Vol. 27, No. 6. Pg 1-2.
- June 2009 Compost Use for Citrus Water Conservation and Sustaining Yield. S.D. Nelson and J. Enciso. Vol. 27, No. 3, pg. 3.
- Apr 2008 Water Conservation Researchers Receive Texas Environmental Excellence Award. H. Esquivel and S.D. Nelson. Vol. 26, No. 2, pg. 6.
- Feb 2004 Water Conservation and Fertilizer Management Strategies on Citrus. S.D. Nelson and J. Shantidas.

Rio Grande Basin Initiative Outcomes Newsletter, <http://riogrande.tamuk.edu>

- Dec 2008 Comparing Citrus Irrigation Averages Versus Traditional Flood. H. Esquivel and S.D. Nelson. Vol. 7, No. 2, pg. 4.
- May 2007 Agricultural Demonstration Initiative Collaborators Evaluate Irrigation Water Use Efficiency in Citrus. D. Supercinski, S.D. Nelson, and H. Esquivel. Vol. 6, No. 2, pg. 2.

Harlingen Irrigation District Newsletter, ADI newsletter. <http://www.hidcc1.org>

- Mar 2011 Evaluating Water Use and Yield from Various Irrigation Systems in Citrus Production. S.D. Nelson, M. Young, and J. Enciso.
- Dec 2010 Drip Irrigation Line Placement for Adequate Soil Moisture in Citrus Production Systems. S.D. Nelson, J. Enciso, and M. Young.
- Dec 2007 Results of an ADI Survey from the Perspective of Participating ADI Growers. S.D. Nelson, R. Adla and H. Esquivel. Vol. 7, pg. 2.
- Oct 2006 TAMUK On-Site Installations with Citrus Farmers. S.D. Nelson and H. Esquivel. Vol. 5, pg. 3.
- May 2006 Soil Moisture Monitoring to Improving Irrigation Scheduling. S.D. Nelson, R. Uckoo, and H. Esquivel. Vol. 4, pg. 2.
- Feb 2006 ADI-TAMU-K. Update on ADI Program Progress. S.D. Nelson. Vol. 3. pg.

Research Promotional Related Published Works:***Texas Project for Ag Water Efficiency published works***. <http://www.TexasAWE.org>

- On-Farm AWEsome Facts on Agricultural Water Conservation and Efficiency. Factsheet.***
Feb 2013 Narrow-Border Flood for Citrus: Saving Water While Improving Yields and Net Cash Farm Income. S.D. Nelson and M. Young.

Texas AWE Reporter. Newsletter.

- Fall 2014 Partial Root-Zone Drying Augments Water-Savings in Citrus Production. Vol. 2, Issue 2.
Summer 2013 Raised Beds & Furrow Flood Irrigation Reduce Risk of Citrus Diseases. Vol. 1, Issue 1.

TexasAWE Videos. Texas Project for Ag Water Efficiency: From River to Farm.

- Spring 2013 On-Farm Irrigation Efficiencies (Video). www.texasawe.org/videos
Fall 2014 Narrow Border Flood in Citrus (Video). NBF: <http://youtu.be/wHZ0tBCGlms>
Surge Irrigation: <http://youtu.be/pQeFdG1B3qw>

TAMUK Publications

- Javelina Today. Official Magazine of Texas A&M University-Kingsville.***
Spring 2013 Saving Water is Top Priority for Research Scientists. J.C. Melgar and S.D. Nelson. p. 12-16.

STEP UP to USDA Success Videos.

Fall 2016 USDA-NRCS Earth Team Volunteer Program with TAMUK STEP UP student interns
<https://www.youtube.com/watch?v=WGMMfBHGEyA&feature=share>

Other Manuscripts Published (by Dr. Nelson Securing Funding for Graduate Students)

R.C. Rivas-Cantu, K.D. Jones and P.L. Mills. 2013. A citrus waste-based biorefinery as a source of renewable energy: technical advances and analysis of engineering challenges. *Waste Manag. Res.* 31:413-420.
 R.C. Rivas-Cantu. PhD. Dissertation, TAMUK. Environmental Engineering. Dec. 2014. 'Citrus Waste Biorefinery: Process Development and Modeling for Pretreatment and Enzymatic Hydrolysis of Grapefruit Processing Waste Biomass.'

PROFESSIONAL SERVICE ASSIGNMENTS

2015-16 ASHS Membership Committee
 2015-17 Southern Region ASHS Professional Educators Awards Committee
 2014 ASHS Undergraduate Student Competition Judge
 2014 ASA Undergraduate Student Poster Competition Judge
 2012-15 Editorial Board, Agronomy Section, Subtrop. Ag & Environments J.
 2010-15 TAMUK Council for Undergraduate Research Proposal Panel Review Committee
 2010 Pathways to the Doctorate, TAMU System Student Research Competition Judge

Professional Society Service Appointments

2015-18 Outstanding Graduate Educator Awards Committee, Amer. Soc. of Hort. Science
 2015-17 Distinguished Educators Awards Committee, Southern Region Amer. Soc. Hort Sci.
 2010-15 Associate Editor-Agronomy, Editorial Board, Journal of the Subtropical Plant Science Society
 2011-12 Program Coordinator, W-2082 Multistate Research Project Group
 2009-10 President Elect, Subtropical Plant Science Society
 2009-10 Chairman Elect, Texas Consortium for Irrigation Research and Education (CIRE)
 2008-11 On-Farm Task 4 Group, Appointed Coordinator for Texas, Rio Grande Basin Initiative (RGBI)

Elected Professional Society Positions

W-2082 2012 Meeting Coordinator	(2011-12)	W-2082 National Specialty Research Working Group
RGBI Task 4 Group Coordinator	(2008-09)	Rio Grande Basin Initiative, On-Farm Irrigation
CIRE Vice-Chair, Chair elect	(2008-09, 09-10)	Consortium for Irrigation Research & Education
President Elect	(2009-10)	Rio Grande Valley Horticultural Society
Vegetables Section Director	(2008)	Rio Grande Valley Horticultural Society
Vegetables Section Vice Pres	(2006-07)	Rio Grande Valley Horticultural Society
Elected Official to Board of Directors	(Jan 2007)	Rio Grande Valley Horticultural Society

Host and Conference Organizer

Jan 2012 W-2082 National Research Working Group Annual Meeting. Jan 4-5, 2012. Weslaco, TX.
 Feb 2011 The 65th Annual Meeting of the Subtropical Plant Science Society, Feb. 9, 2011. Weslaco, TX
 "Facing the Challenges for Agriculture and the Environment in an Era of Sustainability"
 Shad D. Nelson, 2011 President of Subtropical Plant Science Society
 Oct 2010 1st Annual Texas Irrigation Expo, Mar. 20-22, 2011. Mercedes, TX
 Agricultural Water Conservation Demonstration Initiative (ADI) Showcase
 Shad D. Nelson, Lead Scientist for Field Tours, Presentations, and Student Poster Contest.
 Apr 2010 The 4th Annual Consortium for Irrigation Research and Education (CIRE) Meeting, Weslaco, TX.
 Shad D. Nelson, 2010 CIRE Chairman

PROFESSIONAL DEVELOPMENT

Human Resource Management	Certificate of Attendance, KRIRM	Sept 2016
Supervisor Training	Excelling as a First-Time Supervisor Certificate of Attendance USDA-ARS	Dec., 2000
	Fred Pryor Seminars; CareerTrack; Evelyn Wood Reading Dynamics	
	Supervisory Training TAMUK	Sept. 2007
	Web-based Instruction, 30 hours course	
Grant Writer's Workshop	Grant Writing Seminars and Workshops Steven Russel and Texas A&M University	Feb, 2001
	Tom Fretz & Michael Harrington, USDA	Oct. 2007
Cooperative Learning	Foundation Course in Cooperative Learning Certificate of Completion TAMUK	June 2005
	Johnson & Johnson 30 hr course, Center for Teaching Effectiveness	
Web-based Instruction	Jump Start: Introduction to Web-Based Teaching Certificate of Completion TAMUK	May 2006

Publications by students funded by Grants**STEP UP to USDA Career Success**

Ruiz, Amy, C.C. Parra, J.V. daGraca, B. Salas, N.S.A. Malik, and M. Kunta. 2014. Molecular characterization and pathogenicity assays of *Colletotrichum acutatum*, causal agent for lime antracnose in Texas. *Revista Mexicana de Fitopatologia*. Vol. 32:52-61.

DEPARTMENT CHAIRMAN ACADEMIC SERVICE & LEADERSHIP RELATED SKILLS

1. Department management for students in the following programs: Total: 180 Undergrads + 55 Grads
 - a. 120 undergraduates in agricultural sciences: (100 ag sci/ag ed majors; 20 plant & soil science majors)
 - b. 60 undergraduates in agribusiness majors +10 graduate students in ranch management/agribusiness
 - c. 25 graduate students in agriculture science + 20 graduate students in plant and soil science
2. Departmental course distribution and management each semester, and faculty EPAs.
3. Faculty Search Committee Chairman: 6 searches, with full hiring authority and negotiation phase with candidates for 4 agribusiness positions and 2 plant science positions
4. Undergraduate Curriculum Chairman for Department: created and supervised changes in degree programs for Plant and Soil Sciences, Agriculture Science, and Agribusiness.
5. Graduate Curriculum Program Chairman: Plant and Soil Science. Also supervised AGSC & AGBU programs.
6. Institutional Effectiveness Plans (IEP) for Dept: Create and assess annual departmental program effectiveness
7. Strategic Planning for Dept and College of Ag: Annual assessment review and work on strategic planning for improving departmental and college short-term and long-range goals and imperatives.
8. Student Learning Outcomes (SLOs): Oversaw the established of course SLOs within the Dept, and annually assess goals and measurements as part of Departmental IEP reports.
9. Faculty evaluations: Annual assessment of faculty productivity for 8 faculty on-campus with high teaching appointment (0.75 teaching FTE /0.25 research or extension) and 5 off-campus faculty with high research appointments (0.75 research FTE /0.25 teaching). Faculty and Staff Assessments for Merit Raises: Annual assessment and allocation authority for merit based raises when available.
10. Working with Land-grant institutional department heads for faculty with partial extension appointments.
11. Oversight approval and recommendation of Department adjunct faculty status for external scientists.
12. Departmental budget management and faculty related allocations from course enhancement fees.
13. Facilities manager for University greenhouses, headhouse, University gardens and Agricultural farmland.
14. Student recruitment and retention for Department, working with College Dean and Academic Advisors.

References:

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Dr. Shad D. Nelson. The following is a list of my Leadership and Philosophy Statements.

1) Statement on **Leadership and Vision:**

I have benefited greatly in my life by having excellent mentor-leaders, from my early youth to my current position as interim Dean. I have served in many leadership positions from volunteer groups, horticulture-oriented clubs/societies, service and academic appointments. I feel that the past decade of academic leadership experience has provided me with experience that will benefit the faculty, staff, students, and stakeholders of Texas as a representative for the College and as an advocate for TAMUK's interests at state and federal levels.

I believe that TAMUK is well positioned to grow substantially in the future in regards to both student enrollment and program recognition on a national scale. It is an essential part of this position for a representative to provide positive leadership, who can work across Colleges, to ensure that the College remains strong and promotes initiatives to the State, Nation and world. Strategic enrollment and positive engagement activities for new students from diverse cultures and ethnicities is critical to the growth of the University as well. The future is extremely bright for TAMUK in my opinion. Appropriate and strategic planning and direction in education and research with faculty and students working in concert with local communities will allow all facets of the college to grow along with the State's increase in population. TAMUK will always play a functional and essential role in the livelihood and contentment of the people that live and are educated here. The recruitment and retention of enthusiastic, diverse and quality faculty and students to TAMUK that are passionate about Javelina pride and values should also be a natural process of the institution. I consider leadership by an enthusiastic and committed leader that values all faculty, staff and students contributions can unify and sustain a viable and growing research portfolio whereby students and faculty benefit in a synergistic and natural way.

2) Statement on **Administrative Philosophy:**

My philosophy for administration is simple. Lead by example, respect and treat people fairly, and praise when merit is deserved. I value people and enjoy my time working with them. It typically doesn't take people long for them to see that I'm very approachable. I enjoy helping others and seeing them succeed in life, regardless if they are student, staff or faculty member. For the most part, as an administrator I maintain an open-door policy when I'm working in the office. Thus, I value approachability as part of my administrative duties seeing as it assists me in the training, guiding, listening and counseling of others. As an administrator, assessment of performance is important. I believe that faculty and staff deserve honest information on what are the expectations for promotion, tenure, and merit increases. Thus, I see my role as critical in the professional career and advancement of young faculty on P&T track. Sometimes, this requires tailored flexibility in a faculty member's appointment to help them exceed benchmark goals. I understand the importance of diversity in faculty appointments, with differences in expectations for teaching, research, extension and outreach. The value of good teaching is just as critical to a department's success as quality research & extension for the students we aim to serve. I see my role as an administrator to do whatever I can to help the University as whole to succeed and grow. As a leader, I have written several grants that brought in funds to the College specifically for helping other faculty in the college have financial resources to hire undergraduate and graduate students. In my administrative duties, I follow the chain of command. Going over an administrator or supervisor's head tends to only complicate things. So it is a practice I do not do. When my faculty, students or staff within the college have a challenge, I am pleased to do my best to resolve it, because I see it as my responsibility to correct them the best I can. For this, the faculty and staff inside and outside my department take notice and generally appreciate this approach. I do share my personal opinions and viewpoints to my supervisor as necessary. This too is part of my responsibility as an advocate for College needs, so that the Provost can take them under consideration and provide counsel and advice on how to move forward.

3) Statement on the **Advancement of Diversity and Inclusion:**

The luxury of my position and current employment is that inclusion of diversity is inherent to our Institution and my research program. As TAMUK is a Hispanic Serving Institution (HSI), over 50% of the institution's student population comes from an underserved population base in the U.S.A. My research appointment was housed for 15 years at the Citrus Center in Weslaco, TX, less than ten miles from the Texas/Mexico border. In this region, over 90% of the student population is Hispanic. Since my arrival to Kingsville, I have been specifically driven in my research program to target and bring in external Federal research funding support to assist these students and their families to achieve higher education goals and offset the financial burdens associated with education. Many of these students are 1st generation college students. I have been blessed since the very 1st year of employment at TAMUK to have continuous funding source through the USDA-NIFA HSI grants program. In total, I have led the charge at TAMUK for bringing in over \$15,000,000 across multiple campuses that benefit current and future Hispanic and other underserved student populations, such as African American, etc.

My involvement in these grants has provided me with the skillset, and training and experience of how to build collaborative teams to bring in larger amounts of external funding for the benefit of the University, students, and the local community. Furthermore, I have been able to build a network of contacts for students to find summer employment opportunities due to our linking students into internships with Federal agencies, State agencies and Industry partners. The most meaningful indicator of success of these programs is what we have been able to do to the lives of our graduating students. TAMUK is now among the top 25 Higher Education institutions listed in the 'Social Mobility Index'. This index shows the positive financial change in a person's socioeconomic status after graduation. We are taking students from well below the U.S. poverty status level for their region to getting them employed in jobs with financial pay at or above middle class pay. This does a tremendous change in life style for not only themselves, but their siblings that follow them, and their immediate families who sacrificed to get them to college. One of the biggest challenges for 1st generation college students in this region of the U.S. is having their parents feel comfortable about their child(ren) to leave home and go to college. TAMUK is located less than 2 hours north of the southern Texas border, and yet many parents are hesitant to permit their children to 'go that far away' from home. This concern further increases when we provide students with research and internship opportunities during the summer outside of their home state. But, when the parents see the positive change in their children's lives and their enthusiasm for what they have done and achieve after even one summer experience, there is complete support by their parents. Such that after graduation these parents are thankful that their children are taking jobs away from home, and often outside of Texas.

Diversity is a blessing to a University's vision, growth potential and unity. I am a very strong supporter of student and faculty diversity. Diversity is an academic institution's strength, where contributions in education, research and extension from females and males is valuable and needed for its success and growth. When I assumed my Dept Chair position at TAMUK, it was a completely male, mostly Caucasian, dominated department. Although we are an HSI institution, I was surprised that I was the only person who spoke Spanish in our Department on-campus. Over my tenure and promotion process I have fully encouraged my female students to continue into graduate and PhD programs, all of whom are now gamefully employed as Assistant Professors /Scientists shortly after graduation. As Chair, we have had positive changes with hiring three females in the department and of varying racial backgrounds. This has been a benefit and blessing to both the undergraduate and graduate advising and mentoring of students at TAMUK. Furthermore, I have been heavily involved in recruitment of research scientists, and collaborations with countries such as Morocco, Spain, China, Egypt and Israel.

4) Statement on **Outreach and Engagement with Stakeholders:**

Prior to my hire at TAMUK, I worked three years with the USDA-ARS in Gainesville, FL and Fresno (Parlier), CA. These years were critical education years for me, because although I was hired to perform research full-time, our work involved on-farm projects located at research stations and on growers' fields. Thus, I was able to be mentored on the integration of collaborating with State Extension agents, and to

stakeholders through commodity specific engagement and outreach (growers and commodity industry representatives). In Florida we had engagement with stakeholders in the tomato and summer squash industry, while in California we focused on the strawberry industry. In California, we worked through the Strawberry Growers Association for research funding. Our work involved specific field day training events on new irrigation management and alternative replacements for Methyl Bromide in horticultural crops, and providing information updates for those needing continuing education units (CEUs). This experience in outreach was attractive to Texas Citrus Growers Association and commodity board when I applied for my position at Texas A&M University-Kingsville. Thus, I became the first on-campus faculty hired with an off-campus research appointment, where my 25% time research appointment is paid by the Citrus Center (located 2 hours south of Kingsville). I have honored that appointment to the fullest, serving the citrus industry through research and outreach to producers and other horticultural commodity groups.

Although I do not have an extension related appointment (since TAMU-Kingsville is not the land grant institution), I have been able to morph my research appointment into both an extension, outreach and research relevant appointment to the benefit of producers and irrigation district managers in south Texas. Shortly after my arrival in Kingsville, I made specific research direction in the area of crop water saving management strategies. South Texas is prone to extensive periods of intense droughts, and perennial crops like citrus require water year round. I have been blessed with continuous funding support by the Texas Water Development Board with complementary support by the Texas Citrus Producers Board to work specifically with citrus growers on on-farm water conservation demonstration projects located on growers' land. In essence, I knew that adoption of more water conserving irrigation practices would not occur without producer 'buy-in'. Thus, after working with the most highly respected and key citrus growers in the region, my team was able to collect data on new practices for saving water and we utilized the growers to become the voice to other growers and stakeholders for promoting water conservation while sustaining economically viable citrus production. The work we have done over the past 15 years has led to several field days, Extension publications, promotional videos, outreach-related newsletters, peer-reviewed publications, and personal and team award recognitions.

Land Grant Institutions are fortunate to have an Extension and Outreach component as part of enhancing the education of people to the importance of horticultural sciences and landscape architecture. The luxury of having targeted funding to Agricultural Experiment Stations throughout the State is an invaluable asset that not only blesses the lives of the faculty and staff that work with these locations, but sustains the surrounding communities as well. At TAMUK, we are strategically located to benefit from two nearby Texas A&M AgriLife Research & Extension Centers (Corpus Christi next to Kingsville campus, and Weslaco next to the Citrus Center). Through my research and outreach program, I have been able to work with research specialists at both Centers. I see the value of stakeholder input that has been critical to the success and direction of today's research and extension needs for the State. Inclusion of industry partners and private advocacy groups has also been essential to meet our goals for advancing agriculture sustainability in our State. Our collaborative efforts have led to increased funding to support team-oriented proposals to better investigate complex problems.

Lastly, my time at TAMUK has proved to me the importance of outreach to private individuals who care about commodities and industry success. As an example of the power and importance of stakeholders that have commodity specific interests. Through private donations, our College of Agriculture has established three industry specific research Institutes/Centers (The Citrus Center, The King Ranch Institute for Ranch Management [KRIRM], and The Ceaser Kleberg Wildlife Research Institute [CKWRI]). The KRIRM in my Department was established with a \$10 million endowment built solely by private contributions, and is the only Graduate Level Ranch Management Professional training program in the world. Together the CKWRI and KRIRM hold an annual 'South Texas Charity Weekend' funding campaign that raises nearly \$1 million annually. With such a legacy in place, I envision that the current College AgNRSH Dean will learn much from effective directors of foundations for the CKWRI and KRIRM to enhance the College's funding portfolio and planning for other stakeholders interested in the stability of programs such as Veterinary Technology and the Citrus Center.