

*Curriculum Vitae*

**Greta L. Schuster, Ph.D.**

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**EDUCATION**

- Ph.D., Plant Pathology & Microbiology, Texas A&M University, College Station, TX, 1994  
DISSERTATION: Cultured peanut (*Arachis hypogaea* L.) and Tobacco (*Nicotiana glauca* L.) Cells Infected with Tomato Spotted Wilt Virus for Virus and Vector Studies.
- M.S., Agronomy, East Texas State University, Commerce, TX, 1991  
THESIS: The Use of Fungicides for the Control of Foliar Diseases in Winter Wheat (*Triticum aestivum* L.) in the Northern Texas Blacklands.
- B.S., Animal Science, East Texas State University, Commerce, TX, 1985

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**PROFESSIONAL EXPERIENCE**

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| 2017-present  | Chair, Dept. of Agriculture, Agribusiness, and Environmental Science, Texas A&M University – Kingsville, Kingsville   |
| 2016 –2017    | Interim Chair, Dept. of Agriculture, Agribusiness, and Environmental Science, Texas A&M University – Kingsville, Kingsville   |
| 2008- Present | Professor, Agronomy/Integrated Pest Management, Texas A&M University-Kingsville, Kingsville, TX<br><u>Appt:</u> 75% Teaching; 25% Texas A&M AgriLife Extension – Plant Pathology; Sept. 2013 – Promoted to Professor; Sept. 2012 – Awarded Tenure |
| 1998-2007     | Associate Professor, Integrated Pest Management, West Texas A&M University, Canyon, TX<br><u>Appt:</u> 50% Teaching; 25% Texas A&M AgriLife Extension- Plant Pathology; 25% Research; Aug. 2004 - Tenure and Promotion awarded                    |
| 1995-1998     | AgriLife Extension IPM Agent, Texas, Dimmitt, TX (Castro and Lamb Co.)  |

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**ACADEMIC HONORS AND AWARDS**

- **Dean’s Extra Mile Award**, College of Agriculture and Natural Resources, TAMUK, 2021.
- **TAMUK Distinguished Teaching Award**, Texas A&M University - Kingsville Alumni, October 14, 2016
- **Chancellor’s Academy of Teacher Educators of the A&M System’ Award**, Texas A&M University, 2014-2015.
- **Senior Teaching Award**, Dick & Mary Lewis Kleberg College of Agriculture, April, 2012-2013.
- **Advising Award**, Dick & Mary Lewis Kleberg College of Agriculture, April, 2011-2012.
- **Chancellor’s Teaching Excellence**, Texas A&M University, 2011.
- **Junior Research Award**, Dick & Mary Lewis Kleberg College of Agriculture, April 2009-2010.
- **Chancellor’s Teaching Excellence**, Texas A&M University, 2009.
- **Chancellor’s Teaching Excellence**, Texas A&M University, 2008.
- **Outstanding Club Advisor**, West Texas A&M University, 2002-2003.
- **Distinguished Graduate Faculty**, West Texas A&M University, 2001-2002.
- **Outstanding Agriculture Professor**, West Texas A&M University Alpha Zeta, 2001.
- **Gamma Sigma Delta Honor Society** at Texas A&M University, 1994.

## GRANTS RECEIVED

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### TAMU-Kingsville Funded Grants

\$574,500	USDA, APHIS, PPQ AQI Germplasm. FY 23 Germplasm Quarantine Program PI-Schuster, Clint McFarland, Ron French. 9/1/2023 - 8/31/2024
\$669,029	USDA, APHIS, PPQ AQI Germplasm. FY 22 Germplasm Quarantine Program PI-Schuster, Clint McFarland, Ron French. 8/1/2022 - 7/31/2023
\$442,702	USDA, APHIS, PPQ AQI Germplasm. <b>PI- Schuster</b> , Clint McFarland, Ron French. 9/23/2020 - 9/22/2022= \$442,702.00 (includes a No Cost Extension of one year due to COVID-19 and other unpredictable delays)
\$1,000,000	USDA-NIFA HSI GO START NOW: Getting Occupational Student Training in Agricultural Research Through Novel Workshops Collaborative Program R.Stanko, (PDs), TAMUK CoPDs: S.Nelson, S. Chumbley, G. <b>Schuster</b> , T.Machado, C. Donato, et al. 9/1/21-8/31/25
\$205,375	USDA, APHIS, PPQ Plant Germplasm Quarantine Program TX19. PI- <b>Schuster</b> , Clint McFarland, Ron French. 9/15/19-9/15/20 (no cost extension year) END SPRING 3/14/2021.
\$2,000,000	<b>\$5,000,000 Total Award</b> - NSF-CREST-SWU, Center for Sustainable Water Use (SWU). L. Clapp, B. Turner, S. Nelson, CoPI - G. Schuster. 10/1/19-8/31/23
\$20,000	<b>\$275,000 Total Award:</b> USDA HSI, PROMISE Scholars. Providing Resources and Opportunities for Minorities in STEAM Education. (PI: Nora Gaza, Laredo College; CoPI: <b>Schuster</b> ) 2019-2013.
\$244,517	USDA ARS, Feed-through and Spray on Treatments of Insect Growth Regulators for Cattle and Wildlife. (2019-2020 <b>PI - Schuster</b> )
\$147,573	USDA HEC. Enhancing Agriculture Mechanics Education and Curriculum to Higher Education (AgMechEd) (PD- Dr. Chumbley, Turner, <b>Schuster</b> )
\$100,000	USDA NRCS. Natural Resources Career Development Program. (PD - T. Machado, Stanko, Nelson, <b>Schuster</b> ). 2018-2019
\$64,000	\$362,706 Total Award -2017 - USDA-AFRI, Minimizing Diseases due to Fungal Pathosystems Program (Program Area Code A5122), TAMUK subcontract (2012-2017- Co P.I.)
\$250,000	<b>\$2,000,000 Total Award</b> - USDA-NIFA HSI Standard Proposal. START NOW: Student Training in Agricultural Research Techniques by Novel Occupational Workshops. S.D. Nelson (PD), D. Ruppert, G. <b>Schuster</b> , R. Stanko, T. Machado (TAMUK \$250,000/yr x 4 yrs), and 3 4-Yr HSIs: (FIU), (UTEP), UPRM). 9/1/16-8/31/20.
\$220,000	<b>\$1,000,000 Total Award</b> - 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. <b>Schuster</b> , C. Simpson-; R. Gilkerson (PD)-UTRGV; J. Halcomb (PD)-DMC; J. Landivar-Texas A&M AgriLife. 9/1/16-8/31/20.
\$361,000	<b>\$1,000,000 Total Award</b> USDA-NIFA-HSI (UT Pan American Lead Institution) STEP 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, <b>Schuster</b> . \$90,250/yr TAMUK. 9/1/15-8/31/19.
\$440,000	<b>\$2,000,000 Total Award</b> USDA-NIFA-HSI (UT El Paso Lead Institution) Wheels of Change: A Consor(a)tium to Develop Champions 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, <b>Schuster</b> . \$110K/yr TAMUK. 9/1/15-8/31/19.
\$8,000	Monsanto - Insecticide Corn trials - 2015 - <b>PI</b>

\$127,313 Meeting Quail Manager Needs: Development of an Easy-to-Use Qualitative Method for the Detection of Aflatoxin and Methods to Control the Fungus *Aspergillus flavus*. 2013-2014. **PI's** Henke, Fedych, **Schuster**

\$5,000 Monsanto - Insecticide Corn trials - 2014 **PI**

\$50,000 TAMUK, Title V/PPOHA Program. 2014. Mini-Grant Equipment. High Performance Liquid Chromatography in Graduate Student Research Experiments. **PI:** S. Nelson, **Co PI's** - J.C. Melgar, E. Louzada, M. Setamou, D. Ruppert, G. **Schuster**, and J. da Graca.

\$362,706 **\$5,349,650 Total Award** - USDA-AFRI Minimizing Diseases due to Fungal Pathosystems Program (Program Area Code A5122), (**2012-2017**), **PI** - Charles Wolchuk - Purdue, **Schuster Co P.I.**

\$15,000 TAMUK, Title V/PPOHA Program. 2014. Mini-Grant Equipment. John Deere Tractor **P.I.:** **Schuster**, G., **Co PI's:** S. Nelson, D. Rupert, K. McCuiston, and S. Lukefahr.

\$15,000 TAMUK, Title V/PPOHA Program. 2013. Mini Mini-Grant Equipment. Wiley Mill grinder. **PI** - McCuiston; **Schuster -Co P.I.**

\$49,650 USDA-VS, 4/15/13-4/14/14, **Co P.I.**

\$10,000 Cotton Inc., Controlling Volunteer Cotton in Other Crops in the Lower Rio Grande Valley of Texas, 2013, **P.I.**

\$ 7,983 Texas Sorghum Producers Board, Agronomic Factors for Forage Sorghum in South Texas. **Co PI** FY 13

\$ 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.

\$840,000 **\$3,200,000 Total Award.** USDA-NIFA HSI Collaborative Grants . USDA-NIFA HSI Collaborative Grants. STEP UP to USDA Career Success: Science, Technology and Environmental Programs for Undergraduate Preparation to USDA Career Success. **\$800K/yr x 4yrs (2011-2015), Collaborator**

\$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. 2011-2015, Co P.I.**

\$50,367 USDA-VS, 12/15/11 - 12/14/12, **Co P.I.**

\$7,728 Texas Sorghum Producers Board, Agronomic Factors for Forage Sorghum in South Texas, 2011-2012, **Co P.I.**

\$250,000 USDA-CSREES Agriculture and Food Research Initiative (AFRI) Integration Of Ecologically-Based Approaches To Re-Eradicate Cattle Fever Ticks From The U.S. 9/09-08/12. **P.I.**

\$9,950 TAMUK University Research, Growth and carcass traits performance of rabbit fryers fed sweet potato forage. 2010-11, **P.I.**

\$5,000 Texas Sorghum Producers Board, 2010-11, **Co P.I.**

\$5,000 Texas Sorghum Producers Board, 2009-10, **Co P.I.**

\$63,264 Texas Dept. of Agriculture, Potato Cyst Nematode Survey Plan, 2008-09, **P.I.**

\$5,485 PBI Gordon Corporation, Horn fly control insecticide efficacy, 2008, **P.I.**

#### **AgriLife Extension Funded Grants**

\$63,800 2013 Farm Bill - Texas Palm Phytoplasma Survey, 2013-2014 **P.I.'s** Ong, **Schuster (extended to August 2015)**

\$60,000 **\$2,822,422 Total Award**, USDA-SCRI #2009-51181-20178. Development of an Integrated Research and Management Program for Zebra Chip of Potato. FY **2012-2014**, **PI's** Charlie Rush, **Co-PI's** Henne, **Schuster**, French, et. al.,

\$80,000 **\$6.9 Total Award.** USDA National Institute of Food and Agriculture (NIFA) Specialty Crops Research Initiative Development of an Integrated Research and Management Program for Zebra Chip of Potato, Project 2008-04840 - (SCRI), **2009-2012 PI** -Charlie Rush, **Collaborator** - **Schuster**,

\$80,000 Texas AgriLife Research Zebra Chip Disease Program, 10-11, **Co P.I.**

- \$9,900 Texas Citrus Producers Board, Developing an Education & Outreach Program for Increase Awareness of Citrus Diseases in Texas. 09-10, Co **P.I**
- \$29,000 Texas Dept of Agriculture, An Integrated Approach Towards Understanding and Controlling Zebra Chip Disease on Potatoes, 09-10, **P.I.**
- \$7,000 Texas Dept of Agriculture, Understanding of the Role of the Potato Psyllid in Zebra Chip in South Texas, 09, **Co P.I.**
- \$9,080 Frito Lay, The Role of Potato Psyllid on Zebra Chip 08, **Co P.I.**

**PUBLICATIONS (Chronological Order)**

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- Mays D.T., Medrano E.G, Setamou M., and **Schuster G.L.** 2022. *Bacillus Thuringiensis* Derived Vegetative Insecticidal Protein Vip3Aa20 as a Potential Aflatoxin Mitigation Tool in Maize (*Zea mays*). Research Journal of Plant Pathology, Vol. 5, No. 2:5 <https://www.imedpub.com/research-journal-of-plant-pathology/>
- Shivani Reddy Kathia, Catherine Simpson, Alinna Umphres-Lopez, and Greta **Schuster.** 2021. Cornstarch-based, biodegradable superabsorbent polymer to improve water retention, reduce nitrate leaching, and result in improved tomato growth and development. HortScience 56(12):1-8.
- Medrano E. G., **Schuster G L.**, Kodalía S, 2021. Response of Commercial Cotton Varieties to *Xanthomonas citri* pv. *Malvacearum* at Early Developmental Stages in South Texas. Res J Plant Pathol., Vol.4 No. 4:01.
- Currie, Chase, David G. Hewitt; J. Alfonso Ortega-S.; Greta L. **Schuster**; Tyler A. Campbell; Kim H. Lohmeyer; David B. Wester; Adalberto Pérez de León. 2020. Efficacy of white-tailed deer (*Odocoileus virginianus*) treatment for cattle fever ticks in Southern Texas, USA. Journal of Wildlife Diseases, 56(3):588-596.
- da Silva, Julio C B, N Andy Cole, Christian H Ponce, Doug R Smith, L Wayne Greene, Greta **Schuster**, Mike S Brown. 2019. Effects of supplemental fat concentration on feeding logistics, animal performance, and nutrient losses of heifers fed finishing diets based on steam-flaked corn and sorghum-based distiller's grains. Journal of Animal Science, Volume 97, Issue 6, June 2019, Pages 2583–2597
- McCouston, K., J. L. Foster, G. **Schuster**, D. Wester, Z. Lopez, A. M. Umphres, and A. Coronado. 2017. Forage mass, nutritive value, and in situ degradation of sorghum silage treated with fibrolytic enzymes. Crop, Forage & Turfgrass Management 3:2016-12-0077. doi:10.2134/cftm2016.12.0077
- Wang, H. H., P.D. Teel, W. E. Grant. G. L. **Schuster**, and A. A. Perez de Leon. 2016. Simulated interactions of white-tailed deer (*Odocoileus virginianus*), climate variation and habitat heterogeneity on southern cattle tick (*Rhipicephalus* (Boophilus) *microplus*) eradication methods in south Texas, USA. Ecological Modelling, 342:82-96.
- Schuster, G.**, E. G. Medrano, and K. Field- Huey. 2016. Cotton (*Gossypium hirsutum* L.) boll rot and associated microorganisms in South Texas Fields. Agricultural Sciences, 7:732-746, [http://file.scirp.org/pdf/AS\\_2016102714002081.pdf](http://file.scirp.org/pdf/AS_2016102714002081.pdf)
- Goolsby, J.A., T. Mays, G. **Schuster**, J. Kashefi, L. Smith, M. Flores-Cruz, D. Amalin, and A. Perez deLeon. 2016. Rationale for classical biological control of cattle fever ticks and proposed methods for field collection of natural enemies. Subtropical Agriculture and Environments, 66:7-15.
- Vemula, Satya R., P. Porter, G. L. **Schuster**, and B. E. Lewis. 2016. Susceptibility of *Helicoverpa zea* to commercial insecticides used in green bean production on Texas High Plains. The Texas Journal of Agriculture and Natural Resource 25:1-12.

- Simpson, C.R., S.D. Nelson, J.C. Melgar, J. Jifon, and G. **Schuster**. 2015. Effects of salinity on physiological parameters of grafted and ungrafted citrus trees. *Scientia Horticulturae* 197:483-489.
- Simpson, C.R., S. King, S.D. Nelson, J. Jifon, G. **Schuster**, and A. Volder. 2015. Salinity evaluation of watermelon (*Citrullus lanatus*) grafted with different rootstocks. *Subtropical Agriculture and Environment*, 66:1-6.
- Litt, Andrea R., E.E., Cord, T.E. Fulbright, and G.L. **Schuster**. 2014. Effects of Invasive Plants on Arthropod. *Conservation Biology*, Volume 28, No. 6, 1532-1549.
- Simpson, C.R., S.D. Nelson, J.C. Melgar, S. King, J. Jifon, G. **Schuster**, G. and A. Volder. 2014. Growth response of grafted and non-grafted citrus trees to saline irrigation. *Scientia Horticulturae* 169:199-205.
- Schuster**, G. L., K. E. Moulton, J. Donaldson, M. Castelaw, J. O. Buntyn, S. M. Falkenberg, S. Willard, P. Ryan, H. A. Duoss, D. T. Dawson, T. Callaway, J. Carroll, and T. B. Schmidt. 2013. Use of biophotonic *E. coli*-Xen14 to determine time of contamination in the life cycle of the house fly, *Musca domestica* (*Diptera: Muscidae*). *Foodborne Pathogens and Disease*, Vol. 10(5): 442-447.
- Fisher, Amanda C., G. **Schuster**, W. J. Cobb, A. J. James, S. Cooper, A. Pérez de León, and P. J. Holman. 2013. Molecular characterization of *Trypanosoma* spp. infecting cattle (*Bos taurus*), white-tailed deer (*Odocoileus virginianus*) and elk (*Cervus elaphus canadensis*) and in the United States. *Veterinary Parasitological*, 197: 9-42.
- Schuster**, Greta, S., Lukefahr, K. McCuiston, and R. Hanagriff. 2012. Measuring the Economic Potential of Utilizing Sweet Potato Production in Small Animal Forage and Crop Production System: A Systems Approach. *The Journal of American Academy of Business*, Cambridge. 17(2): 212-222.
- Vemula, Satya, P. Porter, G. L. **Schuster**, and B. E. Lewis. 2012. Susceptibility of *Helicoverpa zea* to commercial insecticides in green bean production on the Texas High Plains. *The Texas Journal of Agriculture and Natural Resources*, 25:1-12.
- Wheeler, T. A. , V. Choppakatla, D. O. Porter, G. L. **Schuster**, B. G. Mullinix Jr., and A. M. Schubert 2012. Irrigation Rate and Fungicide Effects on Peanut Kernel Damage, Yield, and Net Return. *Peanut Science: July 2012*, Vol. 39, No. 2, pp. 88-94.
- Munyaneza, Joseph E., J.L. Buchman, V.G. Sengoda, J.A. Goolsby, A.P. Ochoa, J.Trevino, and G. **Schuster**. 2012. Impact of potato planting timing on potato zebra chip disease incidence in the Lower RioGrande Valley of Texas. *Southwestern Entomologist*, 37(3): 253-262.
- Pérez de León, A. A., P. D. Teel, A. N. Auclair, M. T. Messenger, F. D. Guerrero, G. **Schuster**, and R. J. Miller. 2012. Integrated strategy for sustainable cattle fever tick eradication in USA is required to mitigate the impact of global change. *Frontiers in Physiology*, June, Vol. 3, Article 9, pg. 1- 17, doi:10.3389/fphys.2012.00195.
- Flores, R., S.D. Lukefahr, G. **Schuster**, K.C. McCuiston, and T. Verma. 2011. Developing a low-cost, sustainable feeding system using sweet potato forage for growing rabbits. *J. Anim. Sci. J. Anim. Sci.* 89 (E-Suppl. 2):13.
- Rhoades, M.B., D.B. Parker, N.A. Cole, R.W. Todd, B.W. Auverman, E.A. Caraway, D. Topliff, G. L. **Schuster**. 2010. Continuous ammonia emission measurements from a commercial beef feedyard in Texas. *Transactions of the ASABE* 53(6):1823-1831.

- French-Monar , R. R. D., A. F. Patton III, and J. M. Douglas, J. A. Abad, G. **Schuster**, R. W. Wallace, and T. A. Wheeler. 2010. First Report of “*Candidatus Liberibacter solanacearum*” on Field Tomatoes in the United States. *Plant Disease*, April, Vol. 94, Number 4, Pg. 451.
- Choppakatla,V., T.A. Wheeler, G.L. **Schuster**, C. Robinson, and D.O. Porter. 2008. Relationship of Soil Moisture with the Incidence of Pod Rot in Peanut in West Texas *Peanut Science* 35:116-122.
- Wheeler, T. A., U.S. Sagaram, G.L. **Schuster**, and J.R. Gannaway. 2007. Identification of factors that influence screening for bacterial blight resistance. *Journal of Cotton Science* 11:91-97.
- Parker, D.B., M.B. Rhodes, G.L. **Schuster**, J.A. Koziel, and Z.L. Perchbacher-Buser. 2005. Odor characterization at open-lot beef cattle feedyards using triangular forced-choice olfactometry. *Transactions of the ASAE*, Vol. 48(4):1527-1535.
- Parker, D.B., M.B. Rhodes, G.L. **Schuster**, J.A. Koziel, and Z.L. Perchbacher-Buser. 2005. Odor characterization at open-lot beef cattle feedyards using triangular forced-choice olfactometry. *Transactions of the ASAE*, Vol. 48(4):1527-1535.
- Britten, D.C., G.L. **Schuster**, G.J. Michels, Jr., and D.A. Owings. 2003. Using cold-stored or overwintering *Aceria malherbae* Nuzzaci (Acarina:Eriophyiidae), a gall-forming Eriophyiid Mite, for infestation of field bindweed. *Southwestern Entomologist* 28(4):273-280.

#### REFEREED PROCEEDING/CONFERENCE PAPER/ABSTRACTS

- Shivani Reddy Kathia, Catherine Simpson, Alinna Umphres-Lopez, and Greta Schuster. 2020. Impacts of Different Rates of Superabsorbent Polymer (SAP) on Leachate, Nitrogen, and Growth of Tomatoes. 2020 ASHS Virtual Conference, Thursday, August 13 Abstract and Oral Presentation  
<https://ashs.confex.com/ashs/2020/meetingapp.cgi/Paper/32202>
- Garcia, A., J Foster, G **Schuster**, A Umphres, J McGinty. 2019. Weed Management Systems in Imidazolinone Tolerant Sorghum (*Sorghum bicolor*) in South Texas. Agronomy Society Meeting
- Crouch, Carter; Ortega-Santos, J. Alfonso; Wester, David B.; Hernández, Fidel; Brennan, Leonard A.; and **Schuster**, Greta L. 2017. Vegetation and Arthropod Responses to Brush Reduction by Grubbing and Stacking. *National Quail Symposium Proceedings*: 8:96-106.
- Schuster**, G., A. Ortiz, A. Lopez, and B. Bextine. 2013. Central and western potato psyllid biotype variation: Field trials and genomic observations. In: (Eds: F. Workneh, A. Rashed, and C.M. Rush) *Proceedings of the 13th Annual 2012 Zebra Chip Reporting Session, October 31 - November 2, 2013, San Antonio, Tx.*
- Schuster**, G., J. Trevino, A. Arp, and B. Bextine. 2012. Effects of Planting Dates on ZC Incidence on Four Varieties in Pearsall, TX. In: (Eds: F. Workneh, A. Rashed, and C.M. Rush) *Proceedings of the 12th Annual 2011 Zebra Chip Reporting Session, October 31 - November 2, 2012, San Antonio, Tx.* Pg. 145-147.
- Garza, M.T., S.D. Lukefahr, G.L. **Schuster**, and K.C. McCuiston. 2012. Developing sustainable diets for rabbits: Effect of sweet potato forage on growth and feeding traits. *Proc. 10th World Rabbit Congress*, September 3-6, 2012. Sharm El-Sheikh, Egypt. Pg. 781-785.
- Ochoa, A., G. **Schuster**, B. Bextine, S. Nelson, J. Munyaneza. 2011. Using Biotyping to Establish Temporal and Spatial Relationship between Potato Psyllid, *Bactericera cockerelli*, Populations

Colonizing Potatoes in Texas. In: (Eds: F. Workneh, A. Rashed, and C.M. Rush) Proceedings of the 11th Annual SCRI Zebra Chip Reporting Session, November 6-9, San Antonio, TX Pg., 92-96.

Trevino, J., G. **Schuster** B. Bextine, S. Nelson, A. Ochoa, and J. Munyaneza. 2011. Effects of Potato Planting Timing in Texas on Zebra Chip Incidence and Liberbacter Infection Rate in Potato Psyllids. In: (Eds: F. Workneh, A. Rashed, and C.M. Rush) Proceedings of the 11th Annual SCRI Zebra Chip Reporting Session, November 6-9, San Antonio, TX, Pg. 127-130.

Cord, Erin E., A. R. Litt, T. E. Fulbright, and G. L. **Schuster**. 2011. Changes in abundance and diversity in an arthropod community with invasive grasses. 96th ESA Annual Meeting, August 7-12, Austin, TX.

Lukefahr, S.D., G. **Schuster**, K.C. McCuiston, T. Verma, and R. Flores. 2010. Self-sustaining rabbit projects: A pilot study involving feeding of sweet potato forage. Proc. 4th Rabbit Congress of the Americas, September 21-24, 2010. Cordoba, Argentina.

Munyaneza, J. E., J. L. Buchman, J. A. Goolsby, A. P. Ochoa, and G. **Schuster**. 2010. Impact of Potato Planting Timing on Zebra Chip Incidence in Texas. Proceedings of the 10th Annual 2010 Zebra Chip Reporting Session, November 7-10, Pg. 106-109.

Ochoa, A. P., J. Richmond- Trevino, J. Lozano, and G. **Schuster** 2010. Assessment of Active Psyllid Populations in Correlation with Zebra Chip Severity and Incidence. Proceedings of the 10<sup>th</sup> Annual 2010 Zebra Chip Reporting Session, November 7-10, Dallas, TX, Pg. 196-199.

Castellaw, M. W., G. **Schuster**, D. T. Dawson, K. E. Moulton, E. L. Schenck, P. Ryan, S. Willard and T. B. Schmidt. 2009. Use of Biophotonics as a Real Time Model to Determine the Role of Filth Flies in the cross contamination of cattle with E. coli O157:H7. Merck-Merial- NIH National Scholar Symposium, NCSU, North Carolina.

Rothrock, C.S., J.D. Barham, A.B Beach, M.B. Bayles, J. Caceres, P.D. Colyer, R.C. Kermerait, K.S. Lawrence, G.B. Padgett, P.M. Phipps, G.L. **Schuster**, G.L. Sciumbato, R. Thacker, L.M. Verhalen, J.E. Woodyard. 2008. Report of the cottonseed treatment committee for 2007. 2008 Beltwide Cotton Conference, Nashville, TN, Jan. 8-11, Pg. 298- 305.

Rhoades, M.B., B.W. Auvermann, N.A. Cole, R.W. Todd, D.B. Parker, E.A. Caraway, G. **Schuster** and J. Spears. 2008. Ammonia concentration and modeled emission rates from a beef cattle feedyard ASABE Paper No.084445. In Proceedings 2008 American Society of Agricultural and Biological Engineers, Providence, Rhode Island.

**Schuster**, G. L., S. J. Loneragan, L. M. Chichester, D. J. Kunze, and G. H. Loneragan. 2006. Flies as potential vectors of resistance determinants in feedlots. International Symposium on Veterinary Epidemiology and Economics (ISVEE) Conference, Cairns, Australia, August 6-11, 2006, Pg. 453.

**Schuster**, G., K. McDonald, and S. Presley. 2006. Impact of coat color, gender, and weather on the attack rate of mosquito populations on horses in the Texas Panhandle. International Symposium on Veterinary Epidemiology and Economics (ISVEE) Conference, Cairns, Australia, August 6-11, 2006, Pg. 439.

Wheeler, T. A. and G.L. **Schuster**. 2006. Cultivar susceptibility to Verticillium wilt on the High Plains of Texas. NCC Paper #3887, 2006 Beltwide Cotton Conference, Jan. 3-6, 2006, San Antonio, TX, Pg 85 - 92.

Wheeler, T.A. and G.L. **Schuster**. 2005. New fungicides for use as seed treatments on cotton. 2005 Beltwide Cotton Conference, New Orleans, LA, Jan. 4-7, Pg 240-244.

- K.S. McDonald, G.L. **Schuster**, S. M. Presley, L.A. Baker and J.L. Pipkin 2005. Inter Host Preference of Mosquitoes Attacking Horses in the Panhandle of Texas. Nineteenth Symposium Proceedings, Equine Science Society. May, Tucson, AZ, Pg. 51-56.
- Parker, D.B., M.B. Rhodes, G.L. **Schuster**, J.A. Koziel, and Z.L. Perchbacher-Buser. 2005. Odor characterization at open-lot beef cattle feedyards using triangular forced-choice olfactometry. Transactions of the ASAE, Vol. 48(4):1527-1535.
- Fuchs, T., G. **Schuster**, and S. Armstrong. 2003. Texas IPM Internship Program. Fourth National Integrated Pest Management Symposium/ Workshop, April 8-10, Indianapolis, Indiana.
- Sagram, Uma, T. Wheeler, G. **Schuster**, and R. A. Thomason. 2003. Performance of commercial cotton cultivars against bacterial blight pathogen in the Texas High Plains. 2003 Beltwide Cotton Conference, Nashville, TN, January 6-10, Pg. 257-260.
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#### **PUBLISHED PAPERS/ARTICLES - NON-PEERED REVIEWED**

“Zebra chip: Timing is everything in Texas potato crops.” Potatoes Australia, Dec 2014/January 2015

#### **BOOK/CHAPTER CONTRIBUTION**

**Aflatoxins and Wildlife. Exposure, Problems, Detection and Control Methods.** Scott E. Henke, Ph.D. and Alan Fedynich (Editors)

- **Chapter 5.** Aflatoxin Production within Common Storage Practices of Grain (Brent C. Newman, Scott E. Henke, David B. Wester, Alan M. Fedynich, Greta L. **Schuster** and James Cathey, Department of Agricultural and Environmental Sciences, Tennessee State University, Nashville, TN, US, and others)
- **Chapter 14.** Feasibility of Novice People Testing Their Wildlife Feed for Aflatoxin (Scott E. Henke, Brent C. Newman, Greta L. **Schuster** and James Cathey, Caesar Kleberg Wildlife Research Institute, Texas A&M University-Kingsville, Kingsville, TX, US, and others)
- **Chapter 15.** Aspergillus flavus Control: The Need to Consider Spores (Jacobo Solis, Greta L. **Schuster**, Scott E. Henke and Alan M. Fedynich, Department of Agriculture, Agribusiness, and Environmental Sciences, Texas A&M University-Kingsville, Kingsville, TX, US, and others).
- **Chapter 16.** Feeding Corn to Wildlife— The Unintended Result: Collateral Aflatoxin Poisoning and What a Person Can Do (Scott E. Henke, Alan M. Fedynich, Carin Kistler-Williams, Deana



Moore and Greta L. **Schuster**, Caesar Kleberg Wildlife Research Institute, Texas A&M University-Kingsville, Kingsville, TX, US, and others)

Anciso, J. and A. Gregory. 2010. **Texas GAPs and GHPs Food Safety Training Curriculum**, Texas AgrLife Extension, 11/10.

#### **AGRICULTURAL EXTENSION PUBLICATIONS**

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**Schuster**, G., J. Krausz, and C. Rush. 2003. Karnal Bunt: An Emerging Wheat Disease. Texas Cooperative, Brochure # L-5430 10-02.

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#### **PUBLISHED ABSTRACTS/PRESENTATIONS (Chronological Order) (\*Undergraduate; \*\*Graduate)**

1. **Subtropical Agriculture and Environments Society Annual Meeting**, February 9, 2023.
  - a. Ancona, V., Garza, S., Yang, C., Calderon, M., and **Schuster**, G. Plant Pathogen Threats in Irrigation Water from the Rio Grande River.
2. **Subtropical Agriculture and Environments Society Annual Meeting**, 2020, Weslaco, TX.
  - a. \*\*Morgan McCutchen, Joshua McGinty, Megan K. Clayton, Alinna M. Umphres and Greta **Schuster**. 2020. Management of King Ranch and Kleberg Bluestems in South Texas.
  - b. \*\*Alvaro Garcia, Dr. Josh McGinty, Dr. Jamie Foster, Dr. Greta **Schuster**, Dr. Alinna Umphres. Weed management systems in imidazolinone tolerant sorghum (*Sorghum bicolor*) in south Texas. (WON 2<sup>nd</sup> Place)

- c. \*\*Srinadh Kodali, Greta **Schuster**, Alinna M. Umphres, Enrique G. Medrano. The Response of Cotton Varieties to Bacterial Blight in South Texas.
  - d. \*Cristina Castellano, Greta **Schuster**, Ronald French. Potyvirus in Ipomoea setosa virus study.
3. **Subtropical Agriculture and Environments Society**, Feb. 8<sup>th</sup>, 2019, Weslaco, TX.
    - a. \*\*Jesus G. Soto, Greta L. **Schuster**, Clayton D. Hilton, and Natasha L. Bell. 2019. White-tailed deer flavor preference for evaluation of novel methods of cattle fever tick control in south Texas.
    - b. \*Cristina Castellano, Nolan Anderson, Greta **Schuster**, Kiersten Wise. 2019. Non-ionic Surfactants and Arrested Ear Development in Corn.
    - c. \*\*Nnana Edmund, Ambrose Anoruo, Shad Nelson, Greta **Schuster**, Randall Williams. 2019. Effects of superabsorbent polymer-soil interaction on plant growth, development, water use efficiency and soil leachate
    - d. \*\*Shivani Reddy Kathi, Greta **Schuster**, Ambrose Anoruo, Alinna Umphres, Shad Nelson. 2019. Effects of Super Absorbent Polymer (SAP) on the Growth, Development, Water and Nitrogen Use Efficiency of Tomato (*Lycopersicon esculentum* Mill.) in South Texas Soils.
    - e. \*Ashley Mondragon, \*Leslie Dominguez, Alinna Umphres, Greta L. **Schuster**. 2019. Impact of Genetically Engineered Maize (*Zea mays* (L.)) on Aflatoxin Content.
    - f. \*\*Erika Ramos, Tom Isakeit, Alinna Umphres, Veronica Ancona, Greta L. **Schuster**. 2019. Susceptibility of Commercial Cotton Varieties (*Gossypium hirsutum*) to Bacterial Blight *Xanthomonas campestris* pv. *malvacearum* (Xcm).
  4. **ASA-CSSA-SSSA International Annual Meeting** | Nov. 10-13 | San Antonio, Texas, 2019
    - a. \*\*Garcia A., J. Foster, G. **Schuster**, A. Umphres and J. McGinty. 2019. Weed management systems in imidazolinone tolerant sorghum (*Sorghum bicolor*) in south Texas.
    - b. Nelson, Shad D., \*\*Scott Cardenas, \*Jonah Trevino, Greta **Schuster**, David Sotomayor, Krishnaswamy N. Jayachandran and Jose Espiritu. 2019. Utilizing Multi-Institutional Soils Educational Workshops and Soil Judging As a Means Increasing Diversity in Soil Sciences.
  5. Texas Plant Protection Conference, College Station, Tx. 2019
    - a. \*\*Garcia A., J. Foster, G. **Schuster**, A. Umphres and J. McGinty. 2019. Weed management systems in imidazolinone tolerant sorghum (*Sorghum bicolor*) in south Texas.
    - b. \*\*Kodali S., A. Umphres, G. Medrano, and G. **Schuster**. 2019. Effect of plant reproductive growth stages of the development of Bacterial Blight on cotton.
  6. American Society of Horticultural Science, July 30-Aug., Washington, D.C., 2018
    - a. \*\*Lewis, A., L. Cisneros-Zevallos, S.D. Nelson, G. **Schuster**, and C. Simpson. 2018. Infrared Thermography Applications in Stress Response. American Society of Horticultural Science, July 30-Aug., Washington, D.C. (poster)
  7. TAIA, Sept. 21, 2018, CKWRI
    - a. **Schuster, G.** 2018. Update on the Texas Fever Tick Program.
  8. Subtropical Ag and Environment Society Annual Meeting. Rio Farms, Inc., Monte Alto, TX . Feb. 9, 2018.
    - a. \*\*Pudota, M., V. Chowdary Anche, A. Anoruo, S. Nelson, G. Schuster and R. Williams. 2018. Comparability of Timed Plant Growth and Development due to Biomass and Inorganic Nutrients.
    - b. \*\*Lewis, A. L. Cisneros-Zevallos, S. Nelson, G. **Schuster**, and C. Simpson. 2018. Infrared Thermography Pre- and Post-harvest Applications
  9. Phytopathological Society Meeting, August 5-9, San Antonio.
    - a. **Schuster, G. L.**, D. Mays, M Setamou, and S. Nelson. 2017. Influence of Bt maize (*Zea mays* (L)) trait packages on aflatoxin contamination in south Texas maize production. Poster

- b. \*\*Mays, D., G. L. **Schuster**, M. Setamou, and S. Nelson. 2017 Interaction between Bt and Non-Bt corn hybrids and Afla-guard to reduce aflatoxin contamination. Poster
- 10. 65th Annual International Conference of the Wildlife Disease Association, Cortland, New York , July 31- Aug. 5, 2016.
  - a. Fedynich, A., J. Solis, S. Henke, and G. **Schuster**. *Aspergillus flavus* control: do we need to worry about spores? (abstract)
- 11. Wildlife Society Meeting 2016
  - a. \*William E. Brogan, Anthony D. Falk, Sarah B. Grant, Greta **Schuster**, Keith A. Pawelek, Forrest S. Smith. Arthropod Diversity Between Species of Texas Milkweed
- 12. Phytopathological Society Meeting, July 30-August 3, 2016, Tampa, Florida.
  - a. **Schuster**, G., T. Mays, M. Setamou, P. Porter, and S. Nelson. Reducing Mycotoxin Levels in Corn via Lepidopteran Insect Control and Application of Atoxigenic Fungi. (abstract)
- 13. 64th Annual International Conference of the Wildlife Disease Association, July 26-30, 2015, Queensland, Australia.
  - a. Fedynich, A., S. Henke, and G. **Schuster**. Evaluating Common storage methods of wildlife corn to reduce aflatoxin production.
- 14. NACTA Annual Conference. June 25-28, 2015. Atlanta, Georgia
  - a. Stanko, Randy, S. D. Nelson, T. J. Machado, G. L. **Schuster** and Consuelo Donato Molina. Challenges and Opportunities for Underrepresented Agriculture Students in obtaining USDA Job Training in the STEP UP to USDA Career Success Program.
- 15. Phytopathological Society Meeting, August 1-5, 2015, Pasadena, California.
  - a. **Schuster**, G., B. Newman, S. Henke, A. Fedynich. Potential quail consumption of aflatoxin through contaminated deer corn. *Phytopathology* Vol. 105:S4.124. Poster
  - b. \*\*Mays, Tyler D., G. **Schuster**, M. Sétamou , P. Porter, D. Wester, A. Tri. Mycotoxin management in maize (*Zea mays* (L.)) damaged by Lepidopteran insects pest. *Phytopathology* Vol.105:S4.91. Poster
- 16. 51st Annual Meeting of the Texas Chapter of The Wildlife Society, Feb. 18-21, 2015, Corpus Christi, Texas
  - a. Henke, S. E., B. C. Newman, G. L. **Schuster**, A.M. Fedynich, and J. Cathey. Aflatoxin: A needle in a haystack.
- 17. NACTA Annual Conference. June 25-28, 2014. Bozeman, MT.
  - a. Chumbley, S. and G. **Schuster**. Career Interests of Agriculture Dual Enrollment Students
  - b. Stanko, Randy L., S. D. Nelson, T. J. Machado, G. L. **Schuster** and Consuelo Donato- Molina. Challenges and Opportunities for Underrepresented Agriculture Students in obtaining USDA Job Training in the STEP UP to USDA Career Success Program.
- 18. 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. \*Garcia, A., G. Burow, J. Burke, C. Woloshuk, G. **Schuster**, and S. Nelson. Molecular Techniques for Genetic Analysis of Sorghum (poster).
- 19. Entomology Society of American Annual Meeting, November 17, 2014, Portland, OR.

- a. \*\*Rivaldi, Chissa-Louise, B. Bextine, C. Powell, and G. Schuster. 2014. Analysis of *Triatoma gerstaeckeri* microbiota next-generation sequencing data
20. 29th International Horticultural Congress, Aug. 17-22, 2014, Brisbane, Australia.
    - a. Schuster, G., B. Bextine, J.E. Munyaneza, S.D. Nelson, A. Ochoa, and J. Trevino. Effects of Potato Planting Timing in Texas on Zebra Chip Incidence and Liberibacter Infection Rate in Potato. (oral)
    - b. \*\*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).
    - c. \*\*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).
  21. 2014 ADSA-ASAS-CSAS Joint Annual Animal Science (JAM) Meeting, July, 20-24, 2014, Kansas City, MO
    - a. \*Coronado, A., K. McCuiston, J. Foster, G. Schuster, and Z. Lopez. In Situ Degradation Characteristics of Sorghum Silage Treated with Fibrolytic Enzymes. (poster)
  22. 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.
  23. 62nd Annual Meeting of the Southwestern Branch of Entomology Society of America, February 24-17, 2014, San Antonio, TX
    - a. \*\*Greenlee, A., Chissa-Louise Rivaldi, B. R. Bextine, G. Schuster and S. Henke. The effectiveness of different primer sets on detecting the presence of *Trypanosoma cruzi* in *Triatoma gerstaeckeri*.
    - b. \*\*Rivaldi, Chissa-Louise, C. Powell, A. Greenlee, G. Schuster, S. Henke, and B. Bextine. Identificaitonm of the gut microbiome of *Triatoma gerstaeckeri* using next-generation sequencing.
  24. Subtropical Agriculture & Environments, Feb 21, 2014, Weslaco, TX
    - a. \*Herrington, D., G. Schuster, A. Lewis, and P. Porter. Mycotoxin Levels Associated with Fall Armyworm (*Spodoptera frugiperda*) and Corn Earworm (*Helicoverpa zea*) Infested Corn. Undergraduate Poster competition
    - b. \*Lewis, A., J. Melgar, G. Schuster, and S. Nelson. Vermicompost Solution as a Nutrient Source in Hydroponic Crop Production. Undergraduate Poster competition (**Tied 2<sup>nd</sup> Place**)
    - c. \*Dupnik, M., C. P. Woloshuk, G. L. Schuster, and S. D. Nelson. Assessment of *Aspergillus flavus* and Aflatoxin Production Under Low Oxygen Conditions. Undergraduate Poster competition.
    - d. \*Coronado, A., K. McCuiston, J. Foster, and G. Schuster. In Situ Degradation Characteristics of Sorghum Silage Treated with Fibrolytic Enzymes. Undergraduate Poster competition.
  25. Annual Meeting of the Southern Branch of the American Society of Agronomy, Feb 2-4, 2014, Dallas, TX
    - a. \*Herrington, D., G. Schuster, A. Lewis, and P. Porter. Mycotoxin Levels Associated with Fall Armyworm (*Spodoptera frugiperda*) and Corn Earworm (*Helicoverpa zea*) Infested Corn. Undergraduate Poster competition (**Won 3<sup>rd</sup> place**)
    - b. \*Lewis, A., J. Melgar, G. Schuster, and S. Nelson. Vermicompost Solution as a Nutrient Source in Hydroponic Crop Production. Undergraduate Poster competition

- c. \*Dupnik, M., C. P. Woloshuk, G. L. **Schuster**, and S. D. Nelson. Assessment of *Aspergillus flavus* and Aflatoxin Production Under Low Oxygen Conditions. Undergraduate Poster competition.
26. USDA-NIFA HSI PDs Annual Meeting. Jan. 8-9, 2014, Washington, DC.
    - a. Nelson, S.D., G. **Schuster**, T. Machado, and R. Stanko. STEP UP to USDA Career Success. Poster.
  27. Texas State Support Project Review, Dec. 4-5<sup>th</sup>, 2013, Lubbock, TX
    - a. \*\*Pekar, J., G. **Schuster**, J. Anciso, W. Wallace. Control of Volunteer Cotton using Post-emergent Herbicide Applications in the Lower Rio Grande Valley.
  28. Entomological Society of America Annual Meeting, Nov. 10-13, 2013, Austin, TX
    - a. \*\*Potocnjak, J.H., B. Bextine, and G. **Schuster**. Detecting Phytoplasma strains of Lethal Yellowing (LY) and Texas Phoenix Palm Decline (TPPD) in South Texas.
  29. ASA-CSSA-SSSA International Annual Meeting. Nov. 3-6, 2013, Tampa, FL.
    - a. \*\*Simpson, C.R., Volder, A., Nelson, S.D., **Schuster**, G., Melgar, J.C., Jifon, J., and King, S. Physiological Effects of Salinity Stress on Grafted and Non-Grafted Fruit Trees (poster).
  30. North American Colleges and Teachers of Agriculture (NACTA), Blacksburg, VA, June 26-29, 2013
    - a. Nelson, S.D., R.L. Stanko, T. Machado, and G. **Schuster**. Providing Underrepresented Agriculture Students a STEP UP to USDA Career Success. (poster)
  31. APS-MSA Joint 2013 Meeting, August 10-12, 2013, Austin, TX
    - a. Ong, K., G. **Schuster**. Perspective of palm phytoplasma detection from a NPDP member lab in Texas. 70-S
    - b. Bextine, B., S.E. Halbert, G. **Schuster**. Molecular characterization of lethal yellows and other phytoplasma. 67-S
  32. 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. **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).
  33. Texas A&M University MEPS Symposium, May 15-16, 2013. College Station, TX.
    - a. \*\*Simpson, C.R., Volder, A., Nelson, S.D., **Schuster**, G., Melgar, J.C., Jifon, J., and King, S. Grafting Reduces Salinity Tolerance of Citrus Rootstocks.
  34. 67th Annual Meeting of the Subtropical Plant Science Society. Feb 15, 2013. Weslaco, TX. *Subtrop. Plant Sci.* Vol. 65 (posters)
    - a. \*Young, Blake, S. Biles, G. **Schuster** and S. Nelson. Economic Thresholds for Boll Feeding Bugs in Cotton.
    - b. \*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.
    - c. \*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.
  35. 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)
36. 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)
  37. 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.
  38. 10<sup>th</sup> World Rabbit Congress, World Rabbit Science Association, September 3-6, 2012, Sharm ElSheikh, Egypt.
    - a. \*\*Garza, M.T., S.D. Lukefahr, G.L. **Schuster**, and K.C. McCuiston. Developing sustainable diets for rabbits: effects of sweet potato forage on growth and feeding traits.
  39. XVII Congresso Brasileiro de Parasitologia Veterinaria, Sept. 3-6, 2012, Sao Luis, Brazil
    - a. Pérez de León, Adalberto A., Pete D. Teel, Allan N. Auclair, Matthew T. Messenger, Felix D. Guerrero, Greta **Schuster**, and Robert J. Miller. 2012. Global change and integrated approach for sustainable cattle fever tick eradication in the United States of America.
  40. American Society for Horticultural Sciences Annual Meetings. July 30- August 4, 2012, Miami, Florida.
    - a. \*\*Simpson, C.R., Volder, A., Nelson, S.D., **Schuster**, G., Melgar, J.C., Jifon, J., and King, S. Water Quality Effects on Grafted and Non-Grafted Citrus.
  41. Texas A&M University Student Research Week. March 20-23, 2012.
    - a. Simpson, C.R., Volder, A., Nelson, S.D., **Schuster**, G., Melgar, J.C., Jifon, J., and King, S. The Effects of Grafting on Citrus Salinity Tolerance. Oral Presentation
  42. 66<sup>th</sup> Annual Meeting of the Subtropical Plant Science Society, Feb 29, 2012. Weslaco, TX. *Subtrop. Plant Sci.* Vol. 64 (posters abstracts)
    - a. \*\*Ochoa, A.P., **Schuster**, G.L., Bextine, B., Nelson, S., and Munyaneza, J. Using Biotyping to Establish Temporal and Spatial Relationship Between Potato Psyllid *Bactericera cockerii*, Populations Colonizing Potatoes in Texas.
    - b. \*\*Field, K., **Schuster**, G., Nelson, S., Medrano, E., Woodward J., and Ong, K. Isolation of Bacteria from Isolated Cotton Bolls of South Texas.
    - c. \*\*Umphres-Lopez, Alinna, G. **Schuster**, K.C. McCuiston, J. Foster, Z. Lopez and R. Rhoades Agronomic Factors of Forage Sorghum in South Texas.
    - d. \*\*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.
    - e. \*\*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.
    - f. \*\*Lopez, Zak, K.C. McCuiston, G. **Schuster**, J. Foster, and A.M Umphres-Lopez Evaluation of Forage Sorghum, Sorghum x Sudangrass, and Grain Sorghum Varieties for Forage Yield and Nutritional Value
  43. Beltwide Cotton Conference, January 2012, Orlando, Florida.

- a. \*\*Field, Kendall, Greta **Schuster**, Shad Nelson, E.G. Medrano, Kevin Ong, and Jason Woodward. Isolation of bacteria isolated from diseased cotton bolls from south Texas.
44. Annual Texas Irrigation Expo, McAllen, TX. Dec 8-9, 2011
- a. Gomez, M., Simpson, C., Nelson, S., Volder, A., King, S., Melgar, J., Jifon, J., and **Schuster, G.** Salinity Impacts on Growth and Physiology of Grafted and Non-Grafted Citrus Trees. (*2nd place graduate winner*)
45. Texas A&M University Horticulture Graduate Council Poster Competition. College Station, TX. November 30, 2011.
- a. Simpson, C.R., Volder, A., Nelson, S.D., **Schuster, G.**, Melgar, J.C., Jifon, J., and King, S. The Effects of Salinity on Citrus Rootstocks in South Texas
46. The Economic, Finance & International Business Research Conference. Orlando, FL December 2011.
- a. **Schuster, G.**, Lukefahr, S., McCuiston, K., and Hanagriff, R. 2011. Measuring the economic potential of utilizing sweet potato production in small animal forage and crop production system: A systems approach.
47. 59<sup>th</sup> Annual Meeting of the Entomological Society of America, November 13-16, 2011, Reno, Nevada
- a. **Schuster, G.L.**, D.G. Hewitt, T.A. Campbell, L. Soliz, J.A. Ortega, R. B. Davey, K. Loymeyer, A.P. de Leon, J.M. Pound, E.J. Bowers, J.M. Howell, and M. T. Messenger. Integration of ecologically-based approaches to re-eradicate cattle fever ticks from the U.S. **INVITED Speaker**
48. Annual Zebra Chip Conference, November 7-8, 2011, San Antonio, Tx.
- a. \*\*Ochoa, A., G. **Schuster**, B. Bextine, S. Nelson, J. Munyaneza. 2011. Using Biotyping to Establish Temporal and Spatial Relationship between Potato Psyllid, *Bactericera cockerelli*, Populations Colonizing Potatoes in Texas.
- b. \*\*Trevino, J., G. **Schuster** B. Bextine, S. Nelson, A. Ochoa, and J. Munyaneza. 2011. Effects of Potato Planting Timing in Texas on Zebra Chip Incidence and Liberbacter Infection Rate in Potato Psyllids.
49. 18th Annual Meeting - Wildlife Society. November, 2011, Waikoloa, Hawaii.
- a. \*\*Currie, Chase, D.G. Hewitt, J.A. Ortega, G.L. **Schuster**, T. Perry, T.A. Campbell, and K. Lohmeyer. Proportion of White-tailed Deer Using Medicated Bait Sites.
50. Pathways to a Doctorate, Texas A&M University, College Station, Tx. Nov. 11, 2011
- MASTER STUDENTS
- a. Ochoa, A., G. **Schuster**, B. Bextine, S. Nelson, J. Munyaneza. Using Biotyping to Establish Temporal and Spatial Relationship between Potato Psyllid, *Bactericera cockerelli*, Populations Colonizing Potatoes in Texas.
- b. Umphres-Lopez, Alimma, G. **Schuster**, K.C. McCusition, J. Foster, Z. Lopez and R. Rhoades Agronomic Factors of Forage Sorghum in South Texas.
- c. Field, Kendall, Greta **Schuster**, Shad Nelson, Enrique Medrano, Jason Woodward, and Kevin Ong. Isolation of bacteria isolated from diseased cotton bolls from south Texas.
- d. Tasha N. Perry, Greta L. **Schuster**, David G. Hewitt, J. Alfonso Ortega, Tyler A. Campbell, Pamela L. Phillips, Ronald B. Davey, Adalberto Perez de Leon, Kim Lohmeyer, J. Mathews Pound, Liza A. Soliz. Effects of Microclimate Changes in Different Vegetation Types on Cattle Fever Tick Larval Survival
- e. Trevino, J., G. **Schuster** B. Bextine, S. Nelson, A. Ochoa, and J. Munyaneza. 2011. Effects of Potato Planting Timing in Texas on Zebra Chip Incidence and Liberbacter Infection Rate in Potato Psyllids.
- f. Segura, Lorenzo, G. **Schuster**, J. Alfonso Ortega-S, Ronald Davey, and David, Hewitt. Effects of Storage Methods on Stability of Ivermectin in Treated Corn

- g. Lopez, Zak, K.C. McCuiston, G. **Schuster**, J. Foster, and A.M Umphres-Lopez Evaluation of Forage Sorghum, Sorghum x Sudangrass, and Grain Sorghum Varieties for Forage Yield and Nutritional Value
- h. Neessen, Payton, David B. Wester, Sandra Rideout-Hanzek, and Greta **Schuster**. Soil and Vegetation Properties along a Salinity Gradient near Baffin Bay, Texas

#### UNDERGRADUATE STUDENTS

- i. Johnson, David, Steven Lukefahr, Greta **Schuster**, Kim McCuiston. Economic Potential of Utilizing Sweet Potato Production as Forage for Rabbits.
  - j. Krystal Montemayor, Steve Biles, Greta **Schuster**. Insecticide Efficacy and Determination of Impact Caused by *Caliothrips phaseoli*
51. 96th Ecology Society of America Annual Meetings, Aug. 7-12, 2011, Austin, Texas.
- a. \*\*Erin E. Cord, Andrea R. Litt, Timothy E. Fulbright, and Greta L. **Schuster**. Changes in abundance and diversity in an arthropod community with invasive grasses.
52. 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.
53. Annual Meeting – Texas Section for Society of Range Management, 2011, San Angelo, Texas.
- a. \*\*Currie, Chase, D.G. Hewitt, J.A. Ortega, G.L. **Schuster**, T.A. Campbell, and K. Lohmeyer. Annual Habitat Use Versus Habitat Availability of White-tailed Deer in Southern Texas. (*Poster Presentation: 1<sup>st</sup> Place Graduate Poster Competition*)
54. 55<sup>th</sup> Annual Meeting – Livestock Insect Workers Conference. July 16-19, 2011, St. Louis, Missouri.
- a. **Schuster**, G. Jeanne Freeman, David G. Hewitt, Alfonso Ortega-Santos, Tyler A. Campbell, Ed Bowers, Mat J. Pound, Ron B. Davey, Kim Lohmeyer, Liza Soliz, Chase R. Currie, Tasha Perry, Pia Olafson, Matthew Messenger, Adalberto A. Pérez de León. Preliminary findings of molecular survey for the presence of *B. bovis* and *B. bigemina* in cattle fever ticks and white-tailed deer from south Texas.
  - b. \*\*Currie, Chase R., D. G. Hewitt, G. L. **Schuster**, A. Ortega-Santos, T.A. Campbell, Kim Lohmeyer, Tasha Perry, Mat J. Pound, Adalberto A. Pérez de León, Liza Soliz. Proportion of White-tailed Deer Using Medicated Bait Sites in Southern Texas.
  - c. \*\*Perry, Tasha, G.L. **Schuster**, D.G. Hewitt, T.A. Campbell, L. Soliz, J.A. Ortega, R. B. Davey, K. Lohmeyer, A.P. de Leon, J.M. Pound, E.J. Bowers, J.M. Howell, and M. T. Messenger. Effects of Microclimate Changes in Different Vegetation Types on Cattle Fever Tick Larval Survival
55. 2011 Hispanic Leaders in Agriculture and the Environment Meeting. Kingsville, Texas.
- a. \*\*Currie, Chase, D.G. Hewitt, J.A. Ortega, G.L. **Schuster**, T.A. Campbell, and K. Lohmeyer. Influence of White-tailed Deer on the Cattle Fever Tick Eradication Program.
56. Caesar Kleberg Wildlife Research Institute, Current Research Publication, 2010-2011.
- a. \*\*Currie, Chase R., D. G. Hewitt, A. Ortega-Santos, G. L. **Schuster**, T.A. Campbell, Kim Lohmeyer, Prevalence of *Rhipicephalus microplus* on white-tailed deer in southern Texas. Pg 50
  - b. Currie, Chase R., D. G. Hewitt, A. Ortega-Santos, G. L. **Schuster**, T.A. Campbell, Kim Lohmeyer White-tailed deer visitation patterns at medicated bait sites. Pg 51
  - c. Currie, Chase R., D. G. Hewitt, A. Ortega-Santos, G. L. **Schuster**, T.A. Campbell, Kim Lohmeyer. White-tailed deer distribution on premises quarantined for Cattle Fever Ticks. Pg 53



57. 33<sup>rd</sup> Annual Meeting – Southeast Deer Study Group. February 20-22, 2011, Oklahoma City, Oklahoma
  - a. \*\*Currie, Chase, D.G. Hewitt, J.A. Ortega, G.L. **Schuster**, T.A. Campbell, and K. Lohmeyer. Proportion of White-tailed Deer Using Medicated Bait Sites.
  
58. Bi-National Tick, Wildlife, and Cattle Conference, March 23-24, 2011, Laredo, Texas.
  - a. **Schuster**, G. and R. Stanko. History of eradication and update of research.
  
59. 48<sup>th</sup> Annual Meeting – Texas Chapter of the Wildlife Society, February 17-19, 2011 San Antonio, Texas.
  - a. \*\*Perry, Tasha, G.L. **Schuster**, D.G. Hewitt, T.A. Campbell, L. Soliz, J.A. Ortega, R. B. Davey, K. Loymeyer, A.P. de Leon, J.M. Pound, E.J. Bowers, J.M. Howell, and M. T. Messenger. Effects of Vegetation Microclimate on Larval Cattle Fever Tick Survival
  - b. \*\*Currie, Chase, D.G. Hewitt, J.A. Ortega, G.L. **Schuster**, T.A. Campbell, and K. Lohmeyer. Proportion of White-tailed Deer Using Medicated Bait Sites (*Poster Presentation: 1<sup>st</sup> Place Graduate Poster Competition*)
  - c. \*\*Cord, E. E., A. R. Litt, T. E. Fulbright, and G. L. **Schuster**. 2011. Effects of invasive grasses on vegetation structure and composition.
  - d. \*\*Cord, E. E., A. R. Litt, T. E. Fulbright, and G. L. **Schuster**. 2011. Changes in arthropod abundance and diversity with invasive grasses. Cottam award oral presentation. **Received 3rd place in Cottam award competition.**
  
60. Annual Meetings of the American Society of Animal Science, February, 5-8, 2011, Corpus Christi.
  - a. \*Flores, A., S.D. Lukefahr, G. **Schuster**, K.C. McCuiston, and T. Verma. Developing a low-cost, sustainable system using sweet potato forage for growing rabbits. (J. Anim. Sci. 89, E-Suppl. 2 [[http://www.asas.org/abstracts/ASAS\\_2011\\_Sect\\_ABS\\_E-Supplement-2.pdf](http://www.asas.org/abstracts/ASAS_2011_Sect_ABS_E-Supplement-2.pdf)] (Abstr. no. 40). Presentation
  
61. American Society of Horticultural Science meetings. February 5-8, 2011, Corpus Christi
  - a. Simpson, C.R., Nelson, S.D., Cornell, S., **Schuster**, G. and Setamou, M. Evaluation of Salinity on Citrus and Watermelon Rootstock Seed Germination. Southern Region of American Society of Horticultural Science meetings
  
62. Caesar Kleberg Wildlife Research Institute, Current Research Publication, 2009-2010.
  - a. Cord, Erin E., Andrea R. Litt, Greta L. **Schuster**, and Timothy E. Fulbright. Effects of Invasive Grasses on Insect Diversity and Abundance. Pg 18.
  - b. Currie, Chase, D.G. Hewitt, J.A. Ortega, G.L. **Schuster**, T.A. Campbell, and K. Lohmeyer. Presence of Cattle Fever Ticks on White-tailed Deer in southern Texas. Pg 60.
  - c. Segura, Lorenzo, G.L. **Schuster**, D.G. Hewitt, T.A. Campbell, L. Soliz, J.A. Ortega, R. B. Davey, K. Loymeyer, A.P. de Leon, J.M. Pound, E.J. Bowers, J.M. Howell, and M. T. Messenger. Habitat Overlap Assessment of Cattle, Deer, and Cattle Fever Ticks. Pg. 60
  - d. Perry, Tasha, G.L. **Schuster**, D.G. Hewitt, T.A. Campbell, L. Soliz, J.A. Ortega, R. B. Davey, K. Loymeyer, A.P. de Leon, J.M. Pound, E.J. Bowers, J.M. Howell, and M. T. Messenger. Effects of Vegetation Microclimate on Larval Cattle Fever Tick Survival. Pg. 61
  - e. Currie, Chase, D.G. Hewitt, J.A. Ortega, G.L. **Schuster**, T.A. Campbell, and K. Lohmeyer. Deero Movements in Relation to Cattle Fever Tick Quarantined Areas. Pg. 61
  - f. Currie, Chase, D.G. Hewitt, J.A. Ortega, G.L. **Schuster**, T.A. Campbell, and K. Lohmeyer. Evaluating the Proportion of White-tailed Deer Using Medicated Bait Sites. Pg. 63

63. ASA-CSSA-SSSA annual conference. Oct 31-Nov 4, 2010. Long Beach, CA.
  - a. \*\*Romero, M., S.D. Nelson, M. Setamou, and G. **Schuster**. 2010. Implications of Sugarcane Harvesting Methods on Atrazine Movement.
64. American Association of Veterinary Parasitologists Proceedings, July 1, 2010, Atlanta, GA.
  - a. Pérez de León, A. A., M. Pound, G. **Schuster**, F. Guerrero, R. B. Davey, R. Miller, K. Lohmeyer, D. G. Hewitt, J. A. Ortega, T. A. Campbell, A. E. Racelis, J. A. Goolsby, J. Freeman, P. Holman, M. Messenger, D. Ellis, R. Duhaime, L. Soliz, A. Li, P. Phillips, P. Olafson, K. Lohmeyer, P. Teel, S. Wikel, D. Kamlah, G. Wagner, K. Varner, D. Brake. 2010. Shift in rules of engagement for eradication of cattle fever ticks in the United States.
65. First Annual Javelina Research Symposium, Sept. 20, 2010, Kingsville, TX.
  - a. \*\*Cord, E. E., A. R. Litt, T. E. Fulbright, and G. L. **Schuster**. 2010. Effects of invasive grasses on arthropod abundance and diversity. **Received President's Award (top award) for Oral Presentation.**
  - b. \*\*Lozano, J., G. **Schuster**, K. Ong, and J. Anscio. 2010. Lethal yellowing and Date Palm Lethal Decline in South Texas. **(Won 1<sup>st</sup> place – graduate student poster)**
66. 2010 Hispanic Leaders in Agriculture and the Environment Meeting. Kingsville, Texas 2010.
  - a. \*\*Currie, Chase, D.G. Hewitt, J.A. Ortega, G.L. **Schuster**, T.A. Campbell, and K. Lohmeyer . White-tailed deer: A threat to the Cattle Fever Tick Eradication.
67. 2010 ADSA®-PSA-AMPA-CSAS-ASAS Joint Annual Meeting, July 11-15, 2010, Denver, CO.
 

<http://adsa.asas.org/meetings/2010/>.

  - a. **Schuster**, G., K. E. Moulton, P. R. Broadway, S. Willard, J. Behrends, and T. B. Schmidt. Use of a biophotonic E. coli XEN-14 to determine time of contamination in the life cycle of the house fly, *Musca domestica* L. (Diptera: Muscidae). J. Anim. Science. 88, E-Suppl. 1 (1090).
68. 2010 MANNRRS Conference, Mar. 15-19, 2010, Orlando, FL.
  - a. \*\*Lozano, J., G. **Schuster**, K. Ong, S. Nelson, and J. Anciso. Lethal Yellowing and Date Palm Lethal Decline in South Texas.
69. 64<sup>th</sup> Annual Subtropical Science Society Meeting, Jan. 25, 2010, Weslaco, TX.
  - 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. \*\*Lozano, J., G. **Schuster**, K. Ong, and J. Anscio. 2010. Lethal yellowing and Date Palm Lethal Decline in South Texas. Subtropical Plant Science. Vol. 62.
70. Annual meeting of Texas Chapter of The Wildlife Society, January, 25<sup>th</sup>, Galveston, TX. 2010.
  - a. \*\*Cord, E. E., A. R. Litt, T. E. Fulbright, and G. L. **Schuster**. 2010. Effects of invasive grasses on arthropod abundance and diversity
71. 2010 Texas A&M AgriLife Conference, Jan. 11-14, 2010, College Station, TX.
  - a. \*\*Cord, E. E., A. R. Litt, T. E. Fulbright, and G. L. **Schuster**. Effects of invasive grasses on arthropod abundance and diversity.
  - b. \*\*Romero, M., S.D. Nelson, M. Setamou, and G. **Schuster**. Impact of Altering Harvesting Methods on the Adsorption of Atrazine to Sugarcane Residues.
  - c. \*Salas, Daniel, Greta **Schuster**, and Allen Knutson. 2010. Survey of Light Brown Apple Moth (*Epiphyas postvittana*) in South Texas. (undergraduate)
72. 2009 HLB/ZC Meeting McAllen Convention Center (MCC), McAllen, TX.

- a. Munyaneza, J., J. Buchman, V. Sengoda, J. Goolsby, and G. **Schuster**. Impact of Liberibacter infection timing on ZC incidence, potato yield, and tuber processing quality.
  - b. Munyaneza, J., V. Sengoda, J. Buchman, J. Crosslin, J. Goolsby, and G. **Schuster**. Impact of environmental factors on ZC development.
  - c. Goolsby, J., J. Adamczyk, J. Munyaneza, J. Crosslin, N. Troxclair, G. **Schuster**, P. Sloderbeck. Regional Monitoring of Potato Psyllid Populations and Associated Liberibacter Pathogen.
73. 7<sup>th</sup> Annual Texas A&M System Pathways to the Doctorate Symposium, Nov. 13-14, 2009, Laredo, TX.
- a. \*Ritchie, R., G. **Schuster**, S. Nelson, and D.D. Fromme. Evaluating Skip Row to Conventional Cotton in Lint Yield and Quality.
  - b. \*Buzek, C., G. **Schuster**, S. Nelson, and D.D. Fromme. Plant Population Effects on Lint Yield Among New Technology Varieties.
  - c. \*Lozano, J., G. **Schuster**, K. Ong, and J. Anscio. Lethal yellowing and Date Palm Lethal Decline in South Texas.
74. Texas A&M AgriLife Symposium, Graduate/Undergraduate Student Poster Competition, Jan. 2009, College Station, TX.
- Undergraduates
- a. Smith, Erin, G. **Schuster**, J. Munyaneza, J. Goolsby, J. Douglas, and R. French, The role of potato psyllids on Zebra Chip in the Texas High Plains.
  - b. Kosub, Stephen, G. **Schuster**, Benny Martinez. Preliminary evaluation of low-volume, basal-stem treatments for control of Huisache (*Acacia farnesiana*).
  - c. Hanslik, Matt, G. **Schuster**, T.W. Janak, P. Baumann, M.E. Matocha, and T. Miller. The potential for Jatropha as a biofuel crop for south Texas.
75. International Symposium on Veterinary Epidemiology and Economics (ISVEE) Conference, August 6-11, 2006, Cairns, Australia,
- a. **Schuster**, G. L., S. J. Loneragan, L. M. Chichester, D. J. Kunze, and G. H. Loneragan. 2006. Flies as potential vectors of resistance determinants in feedlots. pg 453.
  - b. **Schuster**, G., K. McDonald, and S. Presley. 2006. Impact of coat color, gender, and weather on the attack rate of mosquito populations on horses in the Texas Panhandle. pg. 439.

#### PROFESSIONAL ADDRESSES (Chronological Order)

- **Schuster, G.**, B. Bextine, J.E. Munyaneza, S.D. Nelson, A. Ochoa, and J. Trevino. 2014. Effects of Potato Planting Timing in Texas on ZebraChip Incidence and Liberibacter Infection Rate in Potato. International Horticulture Congress, Brisbane, Australia, August 10-15, 2014
- **Schuster, G.L.**, D.G. Hewitt, T.A. Campbell, L. Soliz, J.A. Ortega, R. B. Davey, K. Loymeyer, A.P. de Leon, J.M. Pound, E.J. Bowers, J.M. Howell, and M. T. Messenger 2012. 2010 – 2012 TAMUK/USDA/ARS Deer Study. Cattle Fever Tick Eradication Program Conference, Laredo, TX. **INVITED Speaker.**
- **Schuster, G.L.**, D.G. Hewitt, T.A. Campbell, L. Soliz, J.A. Ortega, R. B. Davey, K. Loymeyer, A.P. de Leon, J.M. Pound, E.J. Bowers, J.M. Howell, and M. T. Messenger. 2011. Integration of ecologically-based approaches to re-eradicate cattle fever ticks from the U.S. 59<sup>th</sup> Annual Meeting of the Entomological Society of America, November 13-16, Reno, Nevada. **INVITED Speaker**
- **Schuster, G.** and R. Stanko 2011. History of eradication and update of research. Bi-National Tick, Wildlife, and Cattle Conference, March 23-24, 2011, Laredo, Texas. **INVITED Speaker.**
- **Schuster, G.**, S. Lukefahr, K. McCusition, and R. Hanagriff. 2011. Measuring the Economic Potential of Utilizing Sweet Potato Production in Small Animal Forage and Crop Production System: A Systems Approach. The Economics, Finance and International Business Research Conference, December 9<sup>th</sup>, Miami Beach, FL.

- **Schuster**, G. Jeanne Freeman, David G. Hewitt, Alfonso Ortega-Santos, Tyler A. Campbell, Ed Bowers, Mat J. Pound, Ron B. Davey, Kim Lohmeyer, Liza Soliz, Chase R. Currie, Tasha Perry, Pia Olafson, Matthew Messenger, Adalberto A. Pérez de León. 2011. Preliminary findings of molecular survey for the presence of *B. bovis* and *B. bigemina* in cattle fever ticks and white-tailed deer from south Texas. 55<sup>th</sup> Annual Meeting – Livestock Insect Workers Conference. July 16-19, 2011, St. Louis, Missouri.
- **Schuster**, G., K. E. Moulton, P. R. Broadway, S. Willard, J. Behrends, and T. B. Schmidt. 2010. Use of a biophotonic *E. coli* XEN-14 to determine time of contamination in the life cycle of the house fly, *Musca domestica* L. (Diptera: Muscidae). 2010 ADSA®-PSA-AMPA-CSAS-ASAS Joint Annual Meeting, July 11-15, 2010, Denver, CO. <http://adsa.asas.org/meetings/2010/>.
- **Schuster**, G. and M. Setamou. 2008. Citrus Greening and Asian Citrus Psyllid: Texas Situation. Texas A&M Entomology Conference, College Station, TX.

#### **LIST OF PROFESSIONAL MEETINGS WHERE SERVED AS HOST, PANALIST, DISCUSSANT, OR COMMENTATOR**

- Judge for Poster competition at the Plant Protection Conference, College Station, Tx. 2019
- Chairman for Ryan Mott Memorial Scholarship at State FFA Degree Awards, June 5-6, Stephenville. 2018 & 2019.
- Moderator, International Horticulture Congress, Brisbane, Australia, August 10-15, 2014
- Moderator, 52<sup>nd</sup> Annual Caribbean Division of the America Phytopathological Society, Padre Island, April 16-17. 2012.
- Invited Panelist for USDA, ARS, Office of Scientific Quality Review, NP 104 Mosquito and Fly Panel Review, 2010.
- Moderator for Opening session - USDA ARS Workshop: Emergency Research on Cattle Fever Tick and Bovine Babesiosis - April 22-23, 2009 - McAllen, TX
- Co-Program Chair for the International IPM Symposium – March 2009, Portland. Oregon
- Chair of session & judge of graduate student presentations - 53<sup>rd</sup> Annual Meeting of the Entomological Society of America – (ESA) Ft. Lauderdale, Florida, December, 15-18<sup>th</sup>, 2006.
- Hosted and moderated - Annual meeting of NIMSS, Project/Activity Number: S1005 - "Sources, Dispersal and Management of Stable Flies on Grazing Beef and Dairy Cattle (S274) and NIMSS, Project/Activity Number SDC322 - "Flies Impacting Livestock, Poultry, and Food Safety, Amarillo, TX. 2006
- Chair/Coordinator/Speaker for the 50<sup>th</sup> Livestock Workers Conference in 2006 in Amarillo, Tx., Two- hundred scientist from U.S. and Australia participated in the 3 day conference.
- Hosted 4<sup>th</sup> Annual Vegetable Conference, WTAMU, Canyon, Session Moderator/Co-Host of Conference, January 23<sup>rd</sup>- 24<sup>th</sup>, 2006.
- SERA S-1005/S-1006 – Multi-state USDA/CSREES – commentator/discussant on research results and future projects. 2003-2007
- NIMSS, Project/Activity Number SDC322; Title: "Flies Impacting Livestock, Poultry, and Food Safety" – yearly meeting with email activity monthly
- NIMSS, Project/Activity Number: S1005; Title: "Sources, Dispersal and Management of Stable Flies on Grazing Beef and Dairy Cattle (S274)" – Ended in 2006 - yearly meeting with email activity monthly.

#### **TEACHING EXPERIENCE**

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##### *Texas A&M- Kingsville Courses Taught*

General Plant Science & Lab-PLSS 1407: Fundamentals of growth, development, and cultivation of plants.

Integrated Pest Management-PLSS 4312: An interdisciplinary concentration of study in Entomology, Plant Pathology and Weed Science

Introduction to Plant Pathology-PLSS 4328: Basic understanding of plant pathology  
 Introduction to Entomology- PLSS 3318: An introduction to insect biology, with a guide to basic insect taxonomy and a survey of the insect orders.  
 Weed Control-PLSS 3334: Growth, economic importance, distribution, and control methods of weeds.  
 Fruit and Vegetable Production & Lab-PLSS 3344: Study of production principles for various crops  
 Field and Forage Crop Production-PLSS 3325; Production practices; environmental considerations in the production of field crops and forage crops  
 Crop Physiology-PLSS 3381: Function of plant organs, cell growth, and environmental influences.  
 Agriculture and Human Sciences as Professions AGRI 1201: Designed to help the student define the role of Agriculture and Human Sciences in society.

## GRADUATE STUDENTS

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### Chair Master of Science Thesis/Research Project Graduates at TAMUK

- **Adrianna Ochoa.** December 2011. Research Project: Assessment of Active Psyllid Populations in Correlation with Zebra Chip Severity and Incidence. **Graduated**
- **Lorenzo Segura.** December 2011. Research Project: Effect of Storage Methods on Stability of Ivermectin in Treated Corn. **Graduated**
- **Alinna Lopez.** May 2013. Thesis: Agronomic Factors for Forage Sorghum in South Texas. **Graduated**
- **Jennifer Trevino.** May 2013. Research Project: Assessment of Active Psyllid Populations in Commercial Potato Fields in South Texas. **Graduated**
- **Kendall Field.** May 2013. Thesis: Isolation of Cottonseed-Rotting Organisms from Stink Bug and Plant Bugs from South Texas. **Graduated**
- **Jacob Pekar.** May 2014. Thesis: Controlling Volunteer Cotton in Other Crops in the Lower Rio Grande Valley of Texas. **Graduated**
- **Jorge Lozano.** Dec. 2015. Research Project: Lethal Yellowing and Date Palm Lethal Decline in South Texas. **Graduated**
- **Niki Kaiser.** August 2015. Research Project: Effects of Microclimate Changes in Different Vegetation Types on Cattle Fever Tick Larval Survival. **Graduated**
- **Tyler Mays.** Dec. 2015. Thesis: Mycotoxin Management in Maize (*Zea mays* (L.)) Damaged by Lepidopteran Insects Pest. **Graduated**
- **Ty Runge.** Dec. 2018. Project: Herbicide evaluation for weed control **Graduated**
- **Erika Ramos.** Dec. 2019. Thesis: Susceptibility of commercial cotton *Gossypium hirsutum* to bacterial blight *Xanthomonas campestris* *pv.* *malvacearum* (XCM) **Graduated**
- **Ty Runge,** May 2019. Project: Herbicide Efficacy on the Control of Silverleaf Nightshade. **Graduated**
- **Shivani Reddy Kathi,** May 2019. Thesis: Effects of Super Absorbent Polymer (SAP) on the Growth, Development, Water and Nitrogen Use Efficiency of Tomato and Determination of Optimal Dose of SAP. **Graduated**
- **Alvin Garcia,** Dec. 2020. Thesis: Evaluation of IMI Herbicide Resistance Sorghum **Graduated**
- **Srinadh Kodali,** Dec. 2020. Thesis: Field evaluation for bacterial blight resistance in cotton and timing of infection. **Graduated**
- **Morgan McCutchen,** August 2021. Thesis: The Analysis of Herbicidal Management for King Ranch and Kleberg Bluestems on the South Texas Rangelands. **Graduated**
- **Lorena Villanueva,** December 2021, Thesis: Efficacy of commercial acaricide with insect growth regulators against *Amblyomma americanum* (Acari:Ixodidae) and *Haemaphysalis longicornis* (Acari:Ixodidae) **Graduated** (Co-advisor)

- **Varshith Kommineni**, August 2022, Thesis: Response of Cotton Varieties to Potassium Fertilizer Application in South Texas
- **Gabriella Garcia**, Dec. 2022. Thesis: Forage sorghum production qualities for IMI Herbicide Resistance Sorghum.
- **Horocio Rodriquez**, May 2022 Thesis: Cannabis production in South Texas
- Reid Baty

Chair: Master of Science: Non-thesis Course Only:

- **Matthew J Rodriguez** - Graduated Dec. 2019
- **Stephanie Piece** - Graduated May 2019

Master of Science Thesis/Research Project Graduates at TAMUK (**Committee Member**)

- **Ray Hinojosa**, May 2010. Thesis: Aldicarb degradation in flood irrigated south Texas soils in relation to Asian citrus psyllid control. (Major Advisor - Dr. Nelson, Horticulture)
- **Tanmay Verma**, August 2010. Research Project: Feeding sweet potato leaves and vines to growing meat rabbits. (Major Advisor - Dr. Kim McCuiston, Animal Science)
- **Erin Cord**, May 2011. Thesis: Changes in arthropods abundance and diversity with invasive grasses. (Major Advisor - Dr. Andrea Litt, Wildlife)
- **Zack Lopez**, December 2012. Research Project: Grain and Forage Sorghum production in South Texas. (Major Advisor - Dr. Lukefahr, Animal Science)
- **Jeremy Edwardson**, December 2013. Thesis: Seedling competition studies of tanglehead and slender grama grasses. (Major Advisor - Dr. Sandra-Rideout, Wildlife)
- **Carter Couch**, December 2014. Thesis: Vegetation and arthropod response to grubbing and prescribed fire on the King Ranch. (Major Advisor - Dr. Ortega, Wildlife)
- **Hank Birdsall**, May 2015. Thesis: White-tailed Deer Management in the Cattle Fever Tick Quarantine Area. (Major Advisor - Dr. Hewitt, Wildlife)
- **Matt Garza**, May 2016. Research Project: Growth and carcass traits performance of rabbit fryers fed sweet potato forage. (Major Advisor - Dr. Lukefahr, Animal Science)
- **Charlie (Carlos) Martinez**, December 2016. Thesis: Study of soil moisture as influenced by cropping system on Victorian clay. (Major Advisor: Dr. David Ruppert)
- **Boone Bradlee**, Dec. 2016. Project: Mechanic aptitude and critical thinking of Agriculture Science majors. (Major Advisor: Dr. Williams)
- **Stephanie Rivera**, August 2016. Thesis: Atriplex as a Potential Feedstuff in Dairy and Beef Production in the Southwestern United States. (Major Advisor - Dr. Lukefahr, Animal Science)
- **Erica Petropoulos**, Dec. 2016. Research Project: (Major Advisor - Dr. Anouro)
- **Kassandra Gonzalez**, May. 2017. Thesis: Seedling regeneration, growth, and development on abandoned farmland (Major Advisor - Dr. Anouro)
- **Brandon Stoddard**, Dec. 2017. Thesis: Standing for forage effects of brush piles and exclosure, and seedbank effects of turbine construction on shallow calciustolls of the Western Edwards Plateau. (Major Advisor - Dr. Ruppert)
- **Landan Gulick**, Dec. 2017. Thesis: Intensive grazing management for improved soil health. (Major Advisor - Dr. Ruppert)
- **Joe Price**, Dec. 2017. Research Project: The effects of nutrient supplements on cantaloupe yields. (Major Advisor - Dr. Williams)
- **Ruby Saldana**. May 2018. Research Project: Development of Sustainable IPM for Citrus Barnacle Scale. (Major Advisor: M. Setamou).
- **Mounika Pudota**, May 2018. Thesis: Effect of processed organic extract on yield of Capsicum annum (Pepper). (Major Advisor - Dr. Anouro)

- **Vasha Chowdary Anche**, May 2018. Thesis: Timed effects of organic extracts and inorganic fertilizer on growth and development of *Tagetes erecta* (African marigold) (Major Advisor - Dr. Anouro)
- **Nnana Edmund**, May. 2019. Thesis: Effects of organic extract and inorganic fertilizers on crop primordial initiation and NPK content of soil leachate. (Major Advisor: Dr. Anoruo) Graduated
- **Rajitha Kavuri**, May 2019. Thesis: Optimization of Excision Events of Recombinase at Different Temperatures and Chemical Concentrations. (Major Advisor - Dr. Louzada) Graduated
- **Clarissa Guerreo**, December 2019. Thesis: Alternative method for assessing cattle temperament. (Major Advisor: Dr. Machado) Graduated
- **NagaRajitha Kavuri** (August 2019). Thesis: Optimization of recombinase mediated marker excision in citrus protoplasts. (Major Advisor: Dr. Louzada) Graduated
- **Cynthia Puente**, May 2020. Thesis: The Effect of Thermotherapy on Huanglongbing-affected citrus trees in Texas. (Major Advisor: Dr. Ancona)
- **Ganga Manoj Srirampuram**, May 2020 Thesis (Major Advisor: Dr. Anoruo)
- **Praveen Kumar Reddy Bandagonda**, May 2020 Thesis: (Major Advisor: Dr. Anoruo)
- **Ravi Teja Kumar Reddy Neelipally**, May 2020 Thesis: (Major Advisor: Dr. Anoruo)
- **Alvin Petty**, May 2020, Project: (Major Advisor: Dr. Williams)
- **Tirumala Danda**, May 2021 Thesis: Molecular Biology/Diagnostics (Major Advisor: Dr. M. Kunta)
- **Pramod Gudipally**. May 2021. Thesis: Molecular Biology/Diagnostics (Major Advisor: Dr. M. Kunta)

#### **Ph.D. Dissertation Project Graduates at TAMUK (Committee Member)**

- **Chase Currie. Ph.D. Candidate.** May 2013. Dissertation: White-tailed deer visitation rates and spatial use of medicated bait sites in southern Texas.
- **Catherine Simpson. Ph.D. Candidate.** December 2013. Dissertation: Impact of Salinity Stress on Grafted Vegetable and Citrus Crops.
- **Amanda Lewis. Ph.D. Candidate.** Dissertation:

#### **Graduate Council Representative, TAMUK**

- **Oscar Garcia**, PhD Dissertation. 2012. Factors Influencing the Academic Success of Children of a Hispanic World War II Veteran. College of Education.
- **Anastasia Krainyk**, PhD Dissertation. May 2016. Developing a decision support tool for mottled duck conservation along the Western Gulf Coast. (Major Advisor: Dr. Bart Ballard, Wildlife)
- **Kory Gann**, PhD Dissertation. August 2018. Foraging Ecology and Population Parameters of Unmanaged White-tailed Deer in Southern Texas. (Major Advisor: Dr. David Hewitt, Wildlife)
- **Anthony Falk**. PhD Dissertation 2020. Texas Native Seeds with CKWRI; Converting Bermuda grass to native warm-season grasses in the Backland Prairie and Coastal Prairies Ecoregions of Texas.
- **Jason Lombardi**, PhD Dissertation 2020. Habitat Factors Affecting Ocelot Occupancy and Conservation in the Lower Rio Grande Valley.

#### **Master of Science Thesis/Research Project Graduates at Committee Member: OFF CAMPUS**

- **Chissa-Louise Rivaldi**, August 2015. Thesis: Identification of the gut microbiome of *Triatoma gerstaeckeri* using next generation sequencing. (University of Texas at Tyler - Blake Bextine - Major Advisor, Biology)

#### **PROFESSIONAL SERVICE ASSIGNMENTS**

Certified Crop Adviser Board, Texas CCA Board Member; Trainer and site for examinations

Chagas Disease Working Group

USDA/CSREES S-1030 Multi-Flies impacting livestock, poultry, and food safety.

Editorial Board, Agronomy Section, Subtropical Ag & Environments J. - 2018-2019

TAMUK Council for Undergraduate Research Proposal Panel Review Committee - 2012-2018  
South Texas Bobwhite Brigade - 2010 - present  
Texas Ag. Industries Association - 2008 - present

### **Professional Society Service/ Appointments**

American Phytopathological Society

Teaching Committee - 2015-2017; Frank L. Howard Undergraduate Fellowship -Reviewed Scholarship applications from all over the US. The Frank L. Howard Undergraduate Research Fellowship was established to encourage the involvement of undergraduate students in plant pathology research and to encourage students to pursue advanced degrees and careers in plant pathology.

Integrated Plant Disease Management Committee - Chair 2016-2017; Vice Chair 2015-2016

American Society of Agronomy

### **DEPARTMENT CHAIRMAN ACADEMIC SERVICE & LEADERSHIP RELATED SKILLS**

1. Department management for students in the following programs: Total: 240 Undergrads + 62 Grads
  - a. 117 undergraduates in agricultural sciences
  - b. 60 undergraduates in agribusiness majors
  - c. 45 graduate students in agriculture science + 20 graduate students in plant and soil science
2. Undergraduate Curriculum Chairman for Department: created and supervised changes in degree programs for Plant and Soil Sciences, Agriculture Science, and Agribusiness.
3. Graduate Curriculum Program Chairman: Plant and Soil Science. Also supervise AGSC & AGBU programs.
4. Institutional Effectiveness Plans (IEP) for Dept: Create and assess annual departmental program effectiveness
5. 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.
6. 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.
7. Faculty evaluations: Annual assessment of faculty productivity for 8 faculty on-campus with high teaching appointment (0.75 teaching FTE /0.25 research) and 5 off-campus faculty with high research appointments (0.75 research FTE /0.25 teaching).
8. Oversight approval and recommendation of Department adjunct faculty status for external scientists.
9. Departmental budget management and faculty related allocations from course enhancement fees.
10. Facilities manager for University greenhouses and department research facility at university farm
11. Student recruitment and retention for Department, working with College Dean and Academic Advisors.