

Carey A. Williams

Title and Address:

Associate Extension Specialist, Department of Animal Sciences
Associate Director of Extension, Equine Science Center
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EDUCATION

Ph.D. in Animal and Poultry Sciences, Equine Nutrition

Virginia Polytechnic Institute and State University, Blacksburg, VA

Graduation: June 2003

Dissertation: "Oxidative Stress and Antioxidant Supplementation during Endurance Exercise in the Horse"

M.S. in Animal and Poultry Sciences, Equine Nutrition

Virginia Polytechnic Institute and State University, Blacksburg, VA

Graduation: August 2000

Thesis: "Glycemic Response in Thoroughbred Mares"

B.S. in Equine Science, Science Concentration

Colorado State University, Fort Collins, CO

Graduation: May 1998

EMPLOYMENT HISTORY

2009-present¹ **Rutgers, The State University of New Jersey**, School of Environmental and Biological Sciences, Department of Animal Sciences, New Brunswick, NJ

Associate Extension Specialist (equivalent to Associate Professor), with tenure

2003-2009 **Rutgers, The State University of New Jersey**, Cook College, Department of Extension Specialists, New Brunswick, NJ

Assistant Extension Specialist (equivalent to Assistant Professor)

1999-2003 **Virginia Polytechnic Institute and State University**, Middleburg Agricultural Research and Extension Center, Middleburg, VA

Fellow in Equine Nutrition

¹ In 2009 after promotion my line split went from 70% Extension, 30% Research to 50% Extension, 30% Research, 20% Teaching. Also the year prior to promotion and tenure in 2008 the Department of Extension Specialists was dissolved and my discipline department of Animal Sciences became my primary department.

POSITION DETAILS

Research Specialization: The broad theme of my research area is equine nutrition; specifically, how nutrition affects the performance of the equine athlete, and how pasture content affects horse's metabolism of soluble carbohydrates. One area of focus has been to examine the effects of reducing oxidative stress and inflammation using various antioxidant supplements affects performance of the equine athlete. A second, and more recent, area of focus is to investigate the effects of different grazing systems for horses and the impact on the vegetation and the soil along with horse health and farm economics. This project is in collaboration with plant and soil specialists at Rutgers University, as well as investigators from across the country.

Extension Responsibilities: I facilitate and coordinate educational programs for the equine industry in NJ as well as multi-state and multidisciplinary programs in whole farm management. Many of these educational programs have focused on making horse farms environmentally friendly by using proper Best Management Practices.

Teaching Responsibilities: Currently I teach one classroom lecture-based course in the fall semester and summer session. During fall and spring semesters, I am also responsible for equine sections of experienced-based courses including research in animal science, animal handling and fitting, and practicums at the barns. I also serve as academic advisor for undergraduates and honors students and am on the Department's curriculum committee.

HONORS AND AWARDS

- 2016 *New Jersey Association of 4-H Agents* **Educator of the Year Award** – to the Rutgers Faculty and Staff Supporting the Annual Junior Breeder's Livestock Symposium. I serve as the Equine Session organizer.
- 2015 *American Society of Animal Science (ASAS) and the Equine Science Society*, **Equine Science Award** – “To recognize outstanding achievement in the areas of extension, research, teaching or agribusiness in the equine industry.”
- 2010 *USDA National Institute of Food and Agriculture (NIFA)*, **Partnership Award**, to the leadership team of eXtension HorseQuest (I served as Vice Chair) – “For developing and sustaining web content and a resource team of national experts providing innovative equine educational resources.”
- 2010 *Colorado State University, Department of Animal Sciences*, “Creating the Mold” **Distinguished Young Alum Award**
- 2009 *eXtension*, **Outstanding Community of Practice** – HorseQuest (I served as Vice Chair) was recognized for the outstanding outreach it presents to its stakeholders.
- 2009 *Equine Science Society*, **Outstanding Young Professional** – “This award recognizes an individual under the age of 40 with less than 10 years of service in academia or industry, who has made meritorious contributions to equine science, in teaching, research public service or industry.”

- 2008 *United States Pony Club, Academy of Achievement Inductee* – “In recognition of outstanding achievements after graduation from a member club of the United States Pony Clubs, Inc., and for participation in the 2008 National Youth Congress.”
- 2007 *Rutgers University’s, Merle V. Adams Award* – “In recognition of outstanding achievements in research, teaching and outreach by a Junior Faculty Member.”
- 2007 *Northeast ADSA-ASAS, Outstanding Young Educator Award* – “In recognition of outstanding contributions to animal/dairy science.”
- 2007 *Rising Women of Rutgers, Outstanding Woman Educator* – Awarded to “a professor who, through outstanding teaching skills, dedication to her field of study and commitment to excellence, has contributed to the academic and personal growth of Rutgers University women.”

PUBLICATIONS

Publication Type (published or in press)	First Author	Last Author	Co-Author	Total
Journal articles (refereed)	13	13	18	44
Book chapters	7	3	1	11
Conference proceedings (refereed)	3	0	1	4
Conference proceedings (non-refereed)	13	2	0	15
Extension publications & newsletters	20	11	3	34
Extended abstracts (refereed)	14	8	4	26
Abstracts	11	26	8	45
Popular press articles (as author)	32	2	0	34

Articles in Refereed Journals

1. Kenny, L. B., D. Ward, M. Robson, **C. A. Williams**. 2017. Technical note: Comparing four techniques for estimating desired grass species composition in horse pastures. *J. Anim. Sci.* (in press).
2. Splan, R., M. Spindler, K. Anderson, C. Skelly, M. Westendorf, **C. Williams**, L. Kenny, and R. C. Bott-Knutson. 2017. Opportunities for equine science student development through the transdisciplinary and global challenges of climate change. *NACAA J.* (in press).
3. Coffin, D., R. Causey, B. Staniar, **C. Williams**, K. McKeever, C. Gradil, J. Nadeau, A. Sanchez, A. Lichtenwalner, and A. Biddle. 2017. Assessing research and education needs to improve equine gastrointestinal health. *NACAA J.* 10(1):e-pub (<http://www.nacaa.com/journal/index.php?jid=708>).
4. Martinson, K. L., P. Siciliano, C. C. Sheaffer, B. McIntosh, A. M. Swinker and **C. A. Williams**. 2017. A review of equine grazing research methodologies. *J. Equine Vet. Sci.* 51:92-104. doi: 10.1016/j.jevs.2017.01.002

5. Smarsh, D. N., and **C. A. Williams**. 2016. Oxidative stress and antioxidant status in Standardbreds: Effect of age and training in resting plasma and muscle. *J. Equine. Vet. Sci.* 48:93-102. doi: 10.1016/j.jevs.2016.07.020
6. Smarsh, D. N., and **C. A. Williams**. 2016. Oxidative stress and antioxidant status in Standardbreds: Effect of age and acute exercise before and after training. *J. Equine. Vet. Sci.* 47:92-106. doi: 10.1016/j.jevs.2016.07.019
7. **Williams, C. A.** 2016. The effect of oxidative stress during exercise in the horse. *J. Anim. Sci.* 94:4067-4075. doi: 10.2527/jas.2015-9988
8. Bott, R. C., E. A. Greene, N. L. Trottier, **C. A. Williams**, M. L. Westendorf, A. M. Swinker, S. L. Mastellar, and K. L. Martinson. 2016. Environmental implications of nitrogen output on horse operations: A review. *J. Equine Vet. Sci.* 45:98-106. doi: 10.1016/j.jevs.2015.08.019
9. Trottier, N. L., R. C. Bott, A. Woodward, E. A. Greene, **C. A. Williams**, M. L. Westendorf, A. M. Swinker, S. L. Mastellar, and K. L. Martinson. 2016. Gastrointestinal nitrogen metabolism of equids and impact on protein requirement. *J. Equine Vet. Sci.* 45:78-86. doi: 10.1016/j.jevs.2016.06.002
10. Westendorf, M.L., **C. A. Williams** and L. B. Kenny. 2015. Protection of environmental resources through the implementation of optimum feed-management practices on equine farms. *Prof. Anim. Sci.* 31:296-301. doi: 10.15232/pas.2014-01379
11. Westendorf, M. L., and **C. A. Williams**. 2015. Effects of excess dietary phosphorus on fecal phosphorus excretion and water extractable phosphorus in horses. *J. Equine Vet. Sci.* 35:495-498. doi: 10.1016/j.jevs.2015.01.020
12. Bott, R. C., E. A. Greene, K. Koch, K. L. Martinson, P. D. Siciliano, **C. A. Williams**, N. L. Trottier, A. Burk, and A. Swinker. 2013. Production and environmental implications of equine grazing. *J. Equine Vet. Sci.* 33:1031–1043. doi: 10.1016/j.jevs.2013.05.004
13. **Williams, C. A.**, and A.O. Burk. 2012. Antioxidant status in elite three-day event horses during competition. *Oxid. Med. Cell Longev.* 2012:(E-pub) doi:10.1155/2012/572090, 8 pp.
14. Lamprecht, E. D., and **C. A. Williams**. 2012. Biomarkers of antioxidant status, inflammation, and cartilage metabolism are affected by acute intense exercise but not superoxide dismutase supplementation in horses. *Oxid. Med. Cell Longev.* 2012:(E-pub) doi:10.1155/2012/920932, 15 pp.
15. Westendorf, M. L., **C. Williams**, A. O. Burk, N. Trottier, K. Martinson, P. D. Siciliano, A. M. Swinker, E. A. Greene, R. Bott. 2012. Environmental Impacts of Equine Operations: A U.S. Department of Agriculture Multistate Project. *J. Equine Vet. Sci.* 32:324-326. doi: 10.1016/j.jevs.2011.12.001
16. Komar, S., R. Miskewitz, M. Westendorf, and **C. A. Williams**. 2012. Effects of bedding type on compost quality of equine stall waste: Implications for small horse farms. *J. Anim. Sci.* 90:1069-1075. doi: 10.2527/jas.2010-3805
17. Eastman, S., R. F. Redden, and **C. A. Williams**. 2012. Venograms for use in laminitis treatment. *J. Equine Vet. Sci.* 32:757-759. doi:10.1016/j.jevs.2012.02.020
18. **Williams, C. A.** 2010. Antioxidant supplementation to the exercising horse. *R. Bras. Zootec. (Revista Brasileira de Zootecnia) Supl.* 39:145-150.

19. **Williams, C. A.** and A. O. Burk. 2010. Nutrient intake during an elite level three-day event competition is correlated to inflammatory markers and antioxidant status. *Equine Vet. J.* 42(Suppl. 38):116-122. doi: 10.1111/j.2042-3306.2010.00193.x
20. Smarsh, D. N., N. Liburt, J. Streltsova, K. McKeever and **C. A. Williams**. 2010. Oxidative stress and antioxidant status in intensely exercising horses administered nutraceutical extracts. *Equine Vet. J.* 42(Suppl. 38):317-322. doi: 10.1111/j.2042-3306.2010.00182.x
21. Leahy, E. R., A. O. Burk, E. A. Greene, and **C. A. Williams**. 2010. Nutrition-associated problems facing elite level three-day eventing horses. *Equine Vet. J. Suppl.* 42(Suppl 38):370-374. doi: 10.1111/j.2042-3306.2010.00233.x
22. Greene, E. A., A. S. Griffin, J. Whittle, **C. A. Williams**, A. B. Howard, and K. P. Anderson. 2010. Development and usage of eXtension's HorseQuest: An online resource. *J. Anim. Sci.* 88:2829-2837. doi: 10.2527/jas.2010-2810
23. Westendorf, M. L., T. Joshua, S. J. Komar, **C. Williams**, and R. Govindasamy. 2010. Effectiveness of Cooperative Extension manure management programs. *J. Equine Vet. Sci.* 30:322-325. doi: 10.1016/j.jevs.2010.04.008
24. Arent, S. M., J. K. Pellegrino, **C. A. Williams**, D. A. DiFabio, and J. C. Greenwood. 2010. Nutritional supplementation, performance, and oxidative stress in college soccer players. *J. Strength Cond. Res.* 24:1117-1124.
25. Westendorf, M. L., T. Joshua, S. J. Komar, **C. Williams**, and R. Govindasamy. 2010. Manure management practices on New Jersey equine farms. *Prof. Anim. Sci.* 26:123-129.
26. Arent, S. M., P. Davitt, D. L. Golem, **C. A. Williams**, K. H. McKeever, and C. Jaouhari. 2009. The effects of a post-workout nutraceutical drink on body composition, performance and hormonal and biochemical responses in Division 1 college football players. *Comp. Ex. Physiol.* 6:73-80. doi: 10.1017/S1755254009990134
27. Treiber, K., R. Carter, L. Gay, **C. Williams**, and R. Geor. 2009. Inflammatory and redox status of ponies with a history of pasture-associated laminitis. *Vet. Immunol. Immunopathol.* 129:216-220. doi: 10.1016/j.vetimm.2008.11.004
28. Lamprecht, E. D., C. A. Bagnell, and **C. A. Williams**. 2009. Inflammatory responses to three modes of intense exercise in Standardbred mares – a pilot study. *Comp. Ex. Physiol.* 5:115-125. doi: 10.1017/S1478061509294448
29. Fiorellino, N. M., E. D. Lamprecht, and **C. A. Williams**. 2009. Absorption of different oral formulations of natural vitamin E in horses. *J. Equine Vet. Sci.* 29:100-104. doi: 10.1016/j.jevs.2008.12.007
30. **Williams, C. A.** 2008. Oxidative stress or oxidant/antioxidant dis-equilibrium in horses? A hot topic. *Vet. J.* 177:157-158. (Guest editorial) doi: 10.1016/j.tvjl.2007.11.005
31. **Williams, C. A.**, and E. D. Lamprecht. 2008. Some commonly fed herbs and other functional foods in equine nutrition: A review. *Vet. J.* 178:21-31. doi: 10.1016/j.tvjl.2007.06.004
32. **Williams, C. A.**, M. E. Gordon, C. L. Betros, and K. H. McKeever. 2008. Apoptosis and antioxidant status are influenced by age and exercise training in horses. *J. Anim. Sci.* 86:576-583. doi: 10.2527/jas.2007-0585

33. Burk, A. O., and **C. A. Williams**. 2008. Feeding management practices and supplement use in top-level event horses. *Comp. Ex. Physiol.* 5:85-93. doi: 10.1017/S1478061508062786
34. Hess, T. M., K. M. Greiwe-Crandell, J. E. Waldron, **C. A. Williams**, M. A. Lopes, L.S. Gay, P. A. Harris, and D. S. Kronfeld. 2008. Potassium-free electrolytes and calcium supplementation in an endurance race. *Comp. Ex. Physiol.* 5:33-41. doi: 10.1017/S1478061508925470
35. Hess, T. M., D. S. Kronfeld, K. H. Treiber, K. E. Crandell, J. N. Waldron, **C. A. Williams**, W. B. Staniar, M. A. Lopes, and P. A. Harris. 2007. Fat adaptation affects insulin sensitivity and elimination of horses during an 80 km endurance ride. *Pferdeheilkunde.* 23:241-246.
36. **Williams, C. A.**, and S. A. Carlucci. 2006. Oral vitamin E supplementation on oxidative stress, vitamin and antioxidant status in intensely exercised horses. *Equine Vet. J. Suppl.* 36:617-621.
37. **Williams, C. A.**, D. S. Kronfeld, T.M. Hess, K. E. Saker, J. E. Waldron, K. M. Crandell, and P. A. Harris. 2005. Comparison of oxidative stress and antioxidant status in endurance horses in three 80-km races. *Equine Comp. Ex. Physiol.* 2:153-157. doi: 10.1079/ECP200562
38. **Williams, C. A.**, D. S. Kronfeld, T. M. Hess, K. E. Saker, J. E. Waldron, and P. A. Harris. 2005. Vitamin E intake and systemic antioxidant status in competitive endurance horses. *Equine Comp. Ex. Physiol.* 2:149-152. doi: 10.1079/ECEP200565
39. Ordakowski-Burk, A. L., D. S. Kronfeld, **C. A. Williams**, L. S. Gay, and D. J. Sklan. 2005. Temporal folate status during lactation in mares and growth in foals. *Am. J. Vet. Res.* 66:1214-1224.
40. Hess, T. M., D. S. Kronfeld, **C. A. Williams**, R. M. Hoffman, J. N. Waldron, P. M. Graham-Thiers, K. M. Crandell, M. A. Lopes, and P. A. Harris. 2005. Potassium supplementation affects acid-base status and plasma ion concentrations of horses during endurance exercise. *Am. J. Vet. Res.* 66:466-473.
41. **Williams, C. A.**, D. S. Kronfeld, T. M. Hess, K. E. Saker, J. N. Waldron, K. M. Crandell, R. M. Hoffman, and P. A. Harris. 2004. Antioxidant supplementation and subsequent oxidative stress of horses during an 80-km endurance race. *J. Anim. Sci.* 82:588-594.
42. Hoffman, R. M., T. M. Hess, **C. A. Williams**, D. S. Kronfeld, K. M. Griewe-Crandell, J. E. Waldron, P. M. Graham-Thiers, L. S. Gay, R. K. Splan, K. E. Saker, and P. A. Harris. 2002. Speed associated with plasma pH, oxygen content, total protein and urea in an 80 km race. *Equine Vet. J. Suppl.* 34:39-43.
43. **Williams, C. A.**, D. S. Kronfeld, W. B. Staniar, and P. A. Harris. 2001. Plasma glucose and insulin responses of Thoroughbred mares fed a meal high in starch and sugar or fat and fiber. *J. Anim. Sci.* 79:2196-2201.
44. **Williams C. A.**, R.M. Hoffman, D. S. Kronfeld, T. M. Hess, K. E. Saker, and P. A. Harris. 2001. Lipoic acid as an antioxidant in mature Thoroughbred geldings: A preliminary study. *J. Nutr.* 132:1628S-1631S.

Articles in Refereed Journals – In Preparation

1. Nazarenko, Y., M. L. Westendorf, **C. A. Williams**, and G. Mainelis. 2017. The effects of stall bedding type on stall air quality and the potential consequences for health and performance of equines. *J. Equine Vet. Sci.* (in preparation- final edits).

2. **Williams, C. A.**, L. B. Kenny, and H. Anderson. 2017. Hydration, feed intake, and fecal output in horses fed hay biscuits, blocks, and long-stem hay. *J. Equine Vet. Sci.* (in preparation- final writing).
3. **Williams, C. A.**, L.B. Kenny, M. Robson, B. Meyer, and A.O. Burk. 2017. Effects of rotational vs. continuous grazing of horses on plant health, soil quality, horse condition, and production cost. *J. Anim. Sci.* (in preparation- data analysis).
4. **Williams, C. A.**, L. B. Kenny, and A. O. Burk. 2017. Grazing system affects horse glucose and insulin metabolism and forage carbohydrate content. *J. Anim. Sci.* (in preparation- final editing).

Book Chapters

1. Kenny, L. B., A. O. Burk, and **C. A. Williams**. 2016. Managing Equine Grazing for Pasture Productivity. In: *Equine Pasture Management*, edited by P. Sharpe. Elsevier Science, St. Louis, MO. (in press).
2. Kenny, L. B., M. Westendorf, and **C. A. Williams**. 2016. Managing Manure, Erosion, and Water Quality In and Around Horse Pastures. In: *Equine Pasture Management*, edited by P. Sharpe. Elsevier Science, St. Louis, MO. (in press).
3. Muñiz, E., R. K. Shaw, D. Gimenez, **C. A. Williams**, L. Kenny. 2016. Use of ground-penetrating radar to determine depth to compacted layer in soils under pasture. In: *Digital Soil Morphometrics*, edited by A. E. Hartemink and B. Minasny. Springer International Publishing, Switzerland. pp 411-421.
4. **Williams, C. A.** 2012. Specialized dietary supplements. In: *Equine Applied and Clinical Nutrition*, edited by R. Geor, P. Harris, and M. Coenen. Elsevier Science, St. Louis, MO. pp. 351-366.
5. **Williams, C. A.** 2012. Nutrition: Herbs and other supplements. In: *Clinical Veterinary Advisor: The Horse*, edited by D. A. Wilson. Elsevier Science, St. Louis, MO. pp. 783-785.
6. **Williams, C. A.** 2011. Vitamins essential for horses. In: *Horse Industry Handbook* (Fall 2011 update). American Youth Horse Council, Pueblo West, CO. pp. 730-1 to 730-3.
7. **Williams, C. A.** 2011. Cereal grains and dietary supplements. In: *Horse Industry Handbook* (Fall 2011 update). American Youth Horse Council, Pueblo West, CO. pp. 742-1 to 742-6.
8. **Williams, C. A.**, W.B. Staniar, A. Swinker, K. Martinson, and B. McIntosh. 2011. Forages: pasture and hay. In: *Horse Industry Handbook* (Fall 2011 update). American Youth Horse Council, Pueblo West, CO. pp. 740-1 to 740-12.
9. Nielsen B. D. and **C. A. Williams**. 2011. Nutrition for the athletic horse. In: *Horse Industry Handbook* (Fall 2011 update). American Youth Horse Council, Pueblo West, CO. pp. 755-1 to 755-5.
10. **Williams, C. A.** 2009. Simple ways to 'greener' pastures. In: *Eco-Horsekeeping*, edited by Lucinda Dyer. Trafalgar Square Books, North Pomfret, VT. pp. 101-106.
11. **Williams, C. A.** 2009. Herbs and nutraceuticals. In: *Current Therapy in Equine Medicine*, edited by N. Edward Robinson (6th ed.). Elsevier Science, St. Louis, MO. pp. 87-93.

Conference Proceedings

Refereed:

1. **Williams, C. A.** 2013. Oxidative stress in sport horses: Does it matter and if so, how should we feed them? In: *Applied Equine Nutrition and Training*, edited by Arno Lindner. Equine Nutrition and Training Conference (ENUTRACO) 2013, Bonn, Germany. pp. 31-43.
2. Dowling, M., A. D. Fahey, V. P. Gath, **C. A. Williams**, V. Duggan, and F. J. Mulligan. 2013. Assessment of a novel antioxidant supplement enriched with fish oils on the muscle cell physiology of exercising Thoroughbred horses. In: *Applied Equine Nutrition and Training*, edited by Arno Lindner. ENUTRACO, Bonn, Germany. pp. 153-159.
3. **Williams, C. A.**, and E. D. Lamprecht. 2006. Herbs and other functional foods in equine nutrition. Proc. Eur. Assoc. Anim. Prod. Antalya, Turkey. September 18-20, 2006.
4. **Williams, C. A.**, D. S. Kronfeld, T. M. Hess, K. E. Saker, and P. A. Harris. 2004. Lipoic acid and vitamin E supplementation to horses diminishes endurance exercise induced oxidative stress, muscle enzyme leakage, and apoptosis. In: *The Elite Race and Endurance Horse*, edited by Arno Lindner. Conference on Equine Sports Medicine and Science (CESMAS) 2004, Oslo, Norway. pp. 105-119.

Non-Refereed:

1. **Williams, C. A.** 2017. Vitamin E requirements, supplements and disorders. Minnesota Nutrition Conference, Prior Lake, MN. 78:251-257.
2. **Williams, C. A.** 2016. Human diet fads and their effect on horse nutrition. Minnesota Nutrition Conference, Prior Lake, MN. 77:219-224.
3. **Williams, C. A.** 2013. Feeding the equine athlete to combat oxidative stress. Mid-Atlantic Nutr. Conf. Proc., Timonium, MD. 11:123-125.
4. **Williams, C. A.** 2011. Commonly fed herbs in equine nutrition. Calif. Anim. Nutr. Conf. Proc., Fresno, CA. pp. 109-117.
5. **Williams, C. A.** 2010. Antioxidant research and its application to feeding horses. 17th Kentucky Equine Research Nutr. Conf. Proc., Lexington, KY. pp. 17-22.
6. **Williams, C. A.** and A. O. Burk. 2010. Feeding the three-day event horse. 17th Kentucky Equine Research Nutr. Conf., Lexington, KY. pp. 120-126.
7. **Williams, C. A.** 2008. Antioxidants and their application to feeding horses. 26th Am. College Vet. Internal Med., San Antonio, TX. pp. 9-11.
8. **Williams, C. A.**, and E. D. Lamprecht. 2008. The efficacy of some commonly supplemented herbs in equine nutrition. 6th Mid-Atlantic Nutr. Conf. Proc., Timonium, MD. pp. 166-176.
9. Burk, A. O., and **C. A. Williams**. 2008. Feeding management practices and supplement use in top level event horses. 6th Mid-Atlantic Nutr. Conf. Proc., Timonium, MD. pp. 200-211.
10. Lamprecht, E. D., C. A. Bagnell, and **C. A. Williams**. 2008. Current research in equine joint health: Inflammatory responses to three modes of intense exercise in Standardbred mares – a pilot study. 6th Mid-Atlantic Nutr. Conf. Proc., Timonium, MD. pp. 192-199.

11. **Williams, C. A.** 2006. Facts and Myths about Equine Nutrition and Supplements. Horses 2006 Conf. Proc., Ithaca, NY. pp. 56-61.
12. **Williams, C. A.** 2006. Mid-Atlantic Equine Pasture Initiative: What does it mean for you? 4th Mid-Atlantic Nutr. Conf. Proc., Timonium, MD. pp. 49-55.
13. **Williams, C. A.** 2004. Antioxidant supplementation and oxidative stress in the exercising horse. 2nd Mid-Atlantic Nutr. Conf. Proc., Timonium, MD. pp. 195-205.

Extended Abstracts

1. **Williams, C. A.** 2017. Nutrient cycling in horse pastures. Waste to Worth Conf. Proc. Raleigh, NC. Online: <http://articles.extension.org/pages/74361/nutrient-cycling-in-horse-pastures>.
2. **Williams, C. A.,** L. B. Kenny, M. L. Westendorf. 2015. Protection of environmental resources through the implementation of optimum feed management practices on equine farms. Waste to Worth Conf. Proc. Seattle, WA. Online: <http://www.extension.org/pages/72881>.
3. Kenny, L., A. O. Burk and **C. A. Williams.** 2015. Effects of rotational vs continuous grazing systems on horse condition and vegetation. Waste to Worth Conf. Proc. Seattle, WA. Online: <http://create.extension.org/node/100707>.
4. **Williams, C.A.,** D. Sharma, S.L. Ralston and C.A. Bagnell. 2012. Using research to enhance the undergraduate animal science curriculum. Proc. of the Teaching and Learning in the Animal Sciences: A National Conference to Challenge Old Assumptions and Break New Ground for the 21st Century, Madison, WI. June 19-22, 2012. p. 80.
5. **Williams, C.A.,** C. Urban, and M.L. Westendorf. 2011. Dietary protein affects nitrogen and ammonia excretion in horses. J. Equine Vet. Sci. 31:305-306.
6. Westendorf, M.L. and **C.A. Williams.** 2011. Effects of excess dietary phosphorus on fecal phosphorus excretion and water extractable phosphorus in horses. J. Equine Vet. Sci. 31:306.
7. **Williams, C. A.,** E. D. Lamprecht, H. Roessner and K. Lloyd. 2009. Microhydrin[®] supplementation reduced plasma lactate in exercising Standardbred mares. J. Equine Vet. Sci. 29:301-302. Abstract #31601.
8. **Williams, C. A.,** M. Westendorf, C. Obropta, S. Ralston, W. Bamka and K. Malinowski. 2009. Development of an equine best management practice demonstration working horse farm. J. Equine Vet. Sci. 29:467-468. Abstract #31600.
9. Greene, E. A., J. L. Whittle, A. S. Griffin, C. H. Wood, K. Anderson, and **C. A. Williams.** 2009. Using Web 2.0 technology (YouTube) to reach Extension clientele. J. Equine Vet. Sci. 29:439-440. Abstract #31438.
10. Lamprecht, E. D., C. A. Bagnell, and **C. A. Williams.** 2009. Superoxide dismutase supplementation does not affect erythrocyte superoxide dismutase activity or systemic inflammatory cytokine responses in an equine exercise model. J. Equine Vet. Sci. 29:298-299. Abstract #31882.
11. **Williams, C. A.,** and A. O. Burk. 2007. Antioxidant status in horses competing in the Jersey Fresh CCI** and CCI*** three-day event. Equine Sci. Soc. Symp. Proc. 20:85-86.

12. **Williams, C. A.,** D. Foulk, M. Westendorf, D. Kluchinski, R. Mickel, W. Bamka, W. Sciarappa, A. O. Burk, E. Petersen, D. Marshall, D. Ludwig, and P. Craig. 2007. Mid-Atlantic equine pasture initiative. *Equine Sci. Soc. Symp. Proc.* 20:205-206.
13. Lamprecht, E. D., C. A. Bagnell, and **C. A. Williams.** 2007. Inflammatory responses to three modes of intense exercise in Standardbred mares. *Equine Sci. Soc. Symp. Proc.* 20:76-77.
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20. King, M. 2008. Hot Weather Trailering Tips. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. July. pp. 43-46.

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22. Kane, E. 2008. Nutrition's role in stallion fertility. In: *DVM360.com* (veterinarynews.dvm360.com/dvm). June.
23. Oke, S. 2008. Understanding feeds for the busy owner. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. May. pp. 61-65.
24. Oke, S. 2008. Biotin: Does it Work? In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. March. pp. 70-76.
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27. King, M. 2007. Vets' Top 9 Questions about Equine Nutrition. In: *Veterinary Practice News*. BowTie, Irvine, CA. October. pp. 106-113.
28. Oke, S. 2007. Pros and Cons of Equine Herbal Supplements. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. October. pp.18.
29. King, M. 2007. Winding Down. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. October. pp. 55-64.
30. Stephens, S. 2006. They Are What They Eat. In: *Stable Management*. Beardsley Publishing Corp., Woodbury, CT. October. pp. 10-14.
31. King, M. 2006. Immunity through Nutrition. In: *The Blood Horse*. Blood-Horse Publications, Lexington, KY. March. pp. 1532-1537.
32. Rasin, B. 2006. The 2006 equine career guide: Carey Williams always has good advice for New Jersey horsemen. In: *The Chronicle of the Horse*. Chronicle of the Horse, Middleburg, VA. March 31. pp. 12.
33. King, M. 2006. Well nourished: nutritional guidelines that will help ensure your Quarter Horse's good health. In: *Popular Horses – Quarter Horse*. BowTie, Irvine, CA. pp. 106-113.
34. Anderson, M. 2006. Keeping it Green. In: *Stable Management*. Beardsley Publishing Corp., Woodbury, CT. February. pp. 34-36.
35. King, M. 2006. Mind over Matter. In: *Horses USA*. BowTie Magazines, Irvine, CA. pp. 17-23.
36. King, M. 2005. Winter Nutrition. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. December. pp. 69-75.
37. McFarland, C. 2005. Time for Horseplay. In: *Thoroughbred Times*. Thoroughbred Times Co., Lexington, KY. August. pp. 21-23.
38. King, M. 2005. Working with a Nutritionist. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. September. pp. 73-78.

39. King, M. 2005. Dangers of vitamin E. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. January. pp. 20.
40. King, M. 2005. Immunity through Nutrition. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. January. pp. 55-60.
41. Smith Thomas, H. 2004. Role of Antioxidants. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. January. pp. 59-65.

LECTURES AND MEDIA

Presentation Type	Total Number
Invited Addresses (International)	13 (3)
Oral Research Symposia (International)	25 (6)
Other Presentations/Demonstrations	20
Other Web-based Media	31

Invited Addresses

- 2015 *American Dairy Science Association - American Society of Animal Science Joint Annual Meeting*, “The effect of oxidative stress during exercise in the horse,” Orlando, FL.
- 2013 *Equine Nutrition and Training Conference*, “Oxidative stress in sport horses: Does it matter and if so, how should we feed them?” Bonn, Germany.
- 2012 *Alltech International Animal Nutrition Conference*, “Antioxidant supplementation in endurance horses,” Lexington, KY.
- 2011 *California Nutrition Conference*, “Commonly used herbal supplements in equine nutrition,” Fresno, CA.
- 2010 *Brazilian Animal Science Society*, “Antioxidant supplementation to the exercising horse,” Salvador, BA.
- 2010 *Kentucky Equine Research Nutrition Conference*, “Antioxidant research and its application to feeding horses,” Lexington, KY.
- 2010 *Kentucky Equine Research Nutrition Conference*, “Feeding the three-day event horse,” Lexington, KY.
- 2010 *Northeast Extension Directors Annual Meeting*, “Using eXtension as an educational tool – HorseQuest,” Tampa Bay, FL.
- 2008 *American College of Veterinary Internal Medicine*, “Antioxidants and their application of feeding horses,” San Antonio, TX.
- 2007 *National Riding Instructors Convention*, “Antioxidants, supplements and the equine athlete,” Naples, FL.

- 2007 *International Association of Animal Behavior Consultants*, “Basic horse behavior,” Cleveland, OH.
- 2007 *International Association of Animal Behavior Consultants*, “Are you ‘stressing out’ your horse?”, Cleveland, OH.
- 2006 *European Association of Animal Production*, “Herbs and other functional foods in equine nutrition,” Antalya, Turkey.

Oral Presentations at National and International Meetings

- 2015 *Equine Science Society Symposium*, “Hydration, feed intake, and fecal output in horses fed hay biscuits, blocks, and long-stem hay,” St. Petersburg Beach, FL.
- 2011 *Equine Science Society Symposium*, “Dietary protein affects nitrogen and ammonia excretion in horses,” Murfreesboro, TN.
- 2010 *International Conference of Equine Exercise Physiology*, “Nutrition-related problems facing elite level three-day event horses.” Cape Town, South Africa.
- 2010 *International Conference of Equine Exercise Physiology*, “Nutrient intake during an elite level three-day eventing competition is correlated to inflammatory markers and antioxidant status.” Cape Town, South Africa.
- 2009 *eXtension Annual Conference*, “Developing Forage Based Online Learning Lessons for Horse Owners,” St. Louis, MO.
- 2009 *Equine Science Society Symposium*, “Microhydrin[®] supplementation reduced plasma lactate in exercising Standardbred mares,” Keystone, CO.
- 2009 *Equine Science Society Symposium*, “Development of an equine best management practice demonstration working horse farm,” Keystone, CO.
- 2008 *American Society of Animal Science National Meeting*, “Inflammation and vitamin E intake in horses during a CCI**/CCI*** three-day event,” Indianapolis, IN.
- 2008 *American Academy of Veterinary Nutritionists*, “Elite three-day event horses are over-supplemented during competition,” San Antonio, TX.
- 2007 *Equine Science Society Symposium*, “Antioxidant status in horses competing in the Jersey Fresh CCI** and CCI*** three-day event,” Hunt Valley, MD.
- 2007 *Equine Science Society Symposium*, “Mid-Atlantic Equine Pasture Initiative,” Hunt Valley, MD.
- 2006 *International Conference of Equine Exercise Physiology*, “Oral vitamin E supplementation and oxidative stress, vitamin and antioxidant status in intensely exercising horses,” Fontainebleau, France.
- 2005 *Equine Science Society Symposium (formally ENPS)*, “Apoptosis and antioxidant status after intense exercise in old vs. young horses before and after exercise training,” Tucson, AZ.
- 2005 *Equine Science Society Symposium (formally ENPS)*, “A unique web site for equine youth and extension in New Jersey,” Tucson, AZ.
- 2005 *Equine Science Society Symposium (formally ENPS)*, “Agricultural management practices for commercial equine operations; a New Jersey state publication,” Tucson, AZ.

- 2004 *International Conference of Equine Sports Medicine and Science*, “Lipoic acid and vitamin E supplementation to horses diminishes endurance exercise induced oxidative stress, muscle enzyme leakage, and apoptosis,” Oslo, Norway.
- 2003 *Equine Nutrition and Physiology Society Symposium (ENPS)*, “Comparison of oxidative stress in horses for three 80-km endurance rides,” East Lansing, MI.
- 2003 *Equine Nutrition and Physiology Society Symposium (ENPS)*, “Vitamin E intake and oxidative stress in endurance horses,” East Lansing, MI.
- 2002 *American Society of Animal Science National Meeting*, “Oxidative stress and antioxidant supplementation in horses during a competitive endurance ride,” Quebec City, Canada.
- 2002 *American Association of Veterinary Nutritionists Symposium*, “Antioxidant supplementation and oxidative stress in endurance horses,” Dallas, TX.
- 2001 *Waltham International Research Symposium*, “Lipoic acid as an antioxidant in mature geldings: a preliminary study,” Vancouver, Canada.
- 2001 *American Association of Veterinary Nutritionists Symposium*, “Lipoic acid depresses lipid hydroperoxides horses: a preliminary study,” Baltimore, MD.
- 2001 *Equine Nutrition and Physiology Society Symposium*, “Glucose and insulin responses in Thoroughbred mares are influenced by reproductive stage and diet,” Lexington, KY.
- 2000 *American Society of Animal Science National Meeting*, “Glycemic response in thoroughbred mares fed a high fat and fiber or high sugar and starch pasture supplement,” Baltimore, MD.

Other Presentations / Demonstrations (TV, Radio)

- 2017 **“Let’s Talk Horses” RFD Radio Newtork** – “Pasture Seeding Recommendations” (will air Spring 2017)
- 2017 **“Let’s Talk Horses” RFD Radio Newtork** – “Human Diet Fads and their Effect on Horse Nutrition: Part 4” (will air Spring 2017)
- 2017 **“Let’s Talk Horses” RFD Radio Newtork** – “Human Diet Fads and their Effect on Horse Nutrition: Part 3” (will air Spring 2017)
- 2017 **“Let’s Talk Horses” RFD Radio Newtork** – “Human Diet Fads and their Effect on Horse Nutrition: Part 2” (will air Spring 2017)
- 2017 **“Let’s Talk Horses” RFD Radio Newtork** – “Human Diet Fads and their Effect on Horse Nutrition: Part 1” (will air Spring 2017)
- 2016 **“Let’s Talk Horses” RFD Radio Newtork** – “Sugar Content in Horse Pasture” (aired on May 20).
- 2015 **“Let’s Talk Horses” RFD Radio Newtork** – “Horse Supplement Myths” (aired on February 28).
- 2015 **“Let’s Talk Horses” RFD Radio Newtork** – “Horse Supplements” (aired on February 14).

- 2015 **“Horses in the Morning” on Horse Radio Network** – “Winter Feeding Fact or Fiction” (aired on Jan. 28). <http://www.horsesinthemorning.com/hitm-for-01-28-2015-winter-feeding-fact-or-fiction-farrier-school-for-vets-horse-country-tv/>
- 2014 **“Horse Talk” Radio** – “Hot Weather Horse Care and Preventing Heat Stress” (aired on June 14).
- 2014 **“Horse Talk” Radio** – “Winter Care for Horses” (aired on November 20).
- 2014 **“Horses in the Morning” on Horse Radio Network** – “Horses and Antioxidants and Oxidative Stress” (aired on July 30). <http://www.horsesinthemorning.com/hitm-for-07-30-2014-the-ribbon-quilt-goes-viral-how-antioxidants-work-happy-trivia/#t=52:10.603>
- 2014 **Across the Fence** – “The Science of Horse Supplements” (aired on 9/16/14 WCAX TV3 University of Vermont Extension and the Agricultural Experiment Station). <https://www.youtube.com/watch?v=zmiKRwGx1aw> 20-min TV interview and demonstration.
- 2010 **Living the Country Life** – “Stall Walking,” Radio Interview. December 6, 2010. <http://www.livingthecountrylife.com/radio/>
- 2010 **Living the Country Life** – “Choosing Horse Supplements,” Radio Interview. December 20, 2010. <http://www.livingthecountrylife.com/radio/>
- 2010 **Living the Country Life** – “Bad Trees for Horses,” Radio Interview. May 17, 2010. <http://www.livingthecountrylife.com/radio/>
- 2010 **Living the Country Life** – “Leg Wraps for Horses,” Radio Interview. January 21, 2010. <http://www.livingthecountrylife.com/radio/>
- 2009 **Living the Country Life** – “Blanketing your Horse,” Radio Interview. December 7, 2009. <http://www.livingthecountrylife.com/radio/>
- 2009 **Across the Fence** – “Best Management Practices for Livestock and Equine Owners” (aired on 9/21/09 WCAX TV3 University of Vermont Extension and the Agricultural Experiment Station). http://www.uvm.edu/extension/?Page=acrossfence_episodes.html 20-min TV interview and demonstration.
- 2007 **Pet Stop** – “Rutgers Equine Science Center, Equine Research”. Channel 12, 30-min TV interview and demonstration.

Other Web-based Media (Webinar, Video, Audio)

- 2017 **YouTube Video** – “Nutrient Cycling in Horse Pastures” Conference presentation at Waste to Worth Conference 2017, Raleigh, NC. Posted May 5, 2017. (<https://www.youtube.com/watch?v=i6uLaTe0s8M>).
- 2017 **Webinar** – “Human Diet Fads and How they Affect Horse Nutrition” online seminar hosted by Nebraska Cooperative Extension. March 1, 2017.
- 2016 **Webinar** – “Human Diet Fads and How they Affect Horse Nutrition” online seminar hosted by Rutgers Equine Science Center. November 29, 2016. <http://esc.rutgers.edu/resources/library/multimedia/>

- 2016 **Webinar** – “Human Diet Fads and How they Affect Horse Nutrition” online seminar hosted by Minnesota Cooperative Extension. September 27, 2016.
<https://umn.webex.com/umn/ldr.php?RCID=777fd89f1e97298aa10b842873b255d8>
- 2016 **YouTube Video** – “Feeding Your Horse Supplements,” posted January 29, 2016.
(<https://www.youtube.com/watch?v=nJmDihZrLGg>).
- 2016 **YouTube Video** – “Nutrition Myths in Horses,” posted January 29, 2016.
(https://www.youtube.com/watch?v=WC9_kgEEUcM).
- 2015 **Webinar** – “How to Implement Rotational Grazing in Equine Facilities: Improving Pasture for Reduced Feed Costs,” online seminar hosted by Natural Resource Conservation Service. June 24, 2015. Archived:
<http://www.conservationseminars.net/webinars/how-to-implement-rotational-grazing-in-equine-facilities/?searchterm=equine>
- 2015 **PodCast** – USEA Podcast Series, Jersey Fresh International Rutgers Research Studies. May 7, 2015. Archived: <http://useventing.com/news/podcast-katherine-cooper-and-dr-carey-williams>
- 2015 **Webinar** – “Conditioning Your Horse for the Riding Season,” online seminar hosted by University of Minnesota. March 24, 2015. Archived:
<http://www.extension.umn.edu/agriculture/horse/webinars/>
- 2014 **Webinar** – “Pasture Management for Horses,” online seminar hosted by Rutgers Equine Science Center. April 23rd, 2014. Archived:
<http://esc.rutgers.edu/resources/library/multimedia/>
- 2014 *eXtension ‘HorseQuest’*, nationwide educational equine website
(<http://campus.extension.org/course/view.php?id=941&username=guest>). Co-author of learning lesson “Management Strategies for Over- and Underweight Horses”
- 2013 **Webinar** – “Choosing Your Supplements Wisely,” online seminar hosted by Maryland Cooperative Extension. May 13th, 2012. Not accessible on line.
- 2012 **Webinar** – “Digestive Anatomy: Why we feed horses the way we do,” online seminar hosted by My Horse University. September 25th, 2012. Archived:
http://www.myhorseuniversity.com/resources/webcasts/digestive_anatomy
- 2012 **YouTube Video** – “Digestive Anatomy: Why we feed horses the way we do,” posted September 10th, 2012. (<https://www.youtube.com/watch?v=pki-SfmCsNk>).
- 2012 **YouTube Video** – “Horse Pasture Management Tips,” posted February 13th, 2012.
(<https://www.youtube.com/watch?v=p0D5HIc6Wi8>).
- 2012 **Webinar** – “Choosing Your Supplements Wisely,” online seminar hosted by Maryland Cooperative Extension. January 18, 2012. Not accessible on line.
- 2011 **Webinar** – “Winter Care and Feeding for Your Horse,” online seminar hosted by My Horse University. November 29th, 2011. Archived:
http://www.myhorseuniversity.com/resources/webcasts/nov_2011

- 2011 **Webinar** – “Equine Nutrition and How It Relates to Pasture,” online seminar hosted by the Natural Resource Conservation Service. May 26th, 2011. Archived: <http://www.nrcs.usda.gov/about/ntsc/east/workshops.html>
- 2011 **Webinar** – “Choosing Your Supplements Wisely,” online seminar hosted by Nebraska Cooperative Extension. March 9th, 2011. Archived: <http://breeze.unl.edu/p66079956/>
- 2011 *eXtension ‘HorseQuest’*, nationwide educational equine website (<https://www.extension.org/pages/25157/horsequest-learning-lesson:-horse-hay#.VLAq2SvF98E>). Co-author of learning lesson “Horse Hay”
- 2010 **Webinar** – “Winter Care for Horses,” online seminar hosted by Rutgers Equine Science Center. October 19, 2010. Archived: <http://esc.rutgers.edu/resources/library/multimedia/>
- 2009 **Webinar** – “Choosing Your Supplements Wisely,” online seminar hosted by My Horse University. December 15, 2009. Archived: http://www.myhorseuniversity.com/resources/webcasts/supplements_dec_09
- 2009 **Webinar** – “Importance of Pasture to Horses,” online seminar hosted by Rutgers Equine Science Center. October 26, 2009. Archived: <http://esc.rutgers.edu/resources/library/multimedia/>
- 2009 **Webinar** – “Equine Nutrition Myths & Facts,” online seminar hosted by Rutgers Cooperative Extension. June 24, 2009.
- 2009 *eXtension ‘HorseQuest’*, nationwide educational equine website (<https://www.extension.org/pages/9592/horsequest-learning-lesson:-equine-pasture-management#.VLAqqCvF98E>). Co-author of learning lesson “Equine Pasture Management”
- 2008 **Podcasts** – Based on several Rutgers NJAES Cooperative Extension Fact Sheets. Downloadable on iTunes (<iTunes.rutgers.edu>).
- 2008 **Webinar** – “Equine Stress,” online seminar hosted by My Horse University. November 17, 2008. Archived: http://www.myhorseuniversity.com/resources/webcasts/equine_stress_nov08
- 2007 **10-disk DVD set** – *Horses 2007* “Farm and Land Management Short Course”. Video documentation of the 16 hour program (including on-farm demonstrations)
- 2006-2007 **Online Professional Chats**, *eXtension ‘HorseQuest’* Community of Practice. One of 3 ‘experts’ for an online panel to discuss Conditioning your Horse Summer and Conditioning your Horse for Different Equine Events. Chat Transcripts found: (<http://www.extension.org/pages/33826/conditioning-your-horse-for-the-summer#.VfcdmRFVhBc>) and (<http://www.extension.org/pages/11609/conditioning-horses-for-different-equine-events#.VfcdwRFVhBc>).
- 2005-present *eXtension ‘HorseQuest’*, nationwide educational equine website (www.extension.org/horses). Develop and review content, answer frequently asked questions, participate in online chats and webinars.
- 2005-present **Equine Science Center website**, “Ask the Expert” (<http://esc.rutgers.edu/ask-the-expert/>). Manage the question and answer area on website.

FUNDING

Source of Funds	Total Amount	As PI/co-PI
External Competitive Grants	\$580,820	\$343,913
Internal Competitive Grants	\$649,115	\$599,718
Donations and Other Support	\$93,808	\$93,808
TOTAL	\$1,323,743	\$1,037,439

Externally Funded Competitive Grants

- 2017-2018 **\$14,997** (Total Cost) – USDA Northeast Sustainable Agriculture Research and Extension (SARE)
 -- **PI** for the project “Increasing horse pasture productivity by integrating warm-season grasses into cool-season rotational grazing systems” **Williams, C.A. (PI)**, and J. Weinert
- 2015-2017 **\$162,000** (Total Cost) – New Jersey Department of Agriculture Animal Waste Management Program
 -- **Collaborator** to organize the “Best Management Practices Implementation Program.” Westendorf, M. L. (PI), D. Lee, R. C. Mickel, S. Komar, **C.A. Williams**
- 2012-2014 **\$14,816** (Total Cost) – USDA Northeast Sustainable Agriculture Research and Extension (SARE)
 -- **PI** for the project “Improving the Sustainability of the Horse Industry through Equine-Related Business Planning” **Williams, C.A. (PI)**, R. Brumfield, L.B. Gladney
- 2009-2012 **\$74,907** (Total Cost) – USDA Natural Resources Conservation Service (NRCS), NJ Conservation Innovation Grant
 -- **Collaborator** to organize the “Protection of Environmental Quality using Improved Feed Management Practices on Equine Farms” Westendorf, M. L. (PI), **C. A. Williams**
- 2005-2009 **\$130,000** (Total Cost) – Environmental Protection Agency and Department of Environmental Protection
 -- **Co-PI** to organize the “Creation of an Environmental Best Management Practices Showcase at the Equine Science Center, Rutgers Cook College” Obropta, C. (PI), **C.A. Williams**, M. Westendorf
- 2005-2009 **\$75,000** (Total Cost) – USDA Natural Resources Conservation Service (NRCS), NJ Conservation Innovation Grant
 -- **PI** to organize the “Creation of an Environmental Best Management Practices Showcase at the Equine Science Center, Rutgers Cook College” **Williams, C.A. (PI)**, C. Obropta, M. L. Westendorf, S. Ralston, D. Foulk, R. Mickel, W. Bamka, and M. Fennell
- 2005-2007 **\$30,000** (Total Cost) – New Jersey Department of Agriculture
 -- **PI** to organize the “Creation of an Environmental Best Management Practices Showcase at the Equine Science Center, Rutgers Cook College” **Williams, C.A (PI)**, M. Westendorf, C. Obropta

2004-2007 **\$79,100** (Total Cost) – USDA Northeast Sustainable Agriculture Research and Extension (SARE)
-- **PI** for “Sustainable Pasture Management for Horses” **Williams, C.A. (PI)**, D. Foulk, M. Westendorf, D. Kluchinski, R. Mickel, W. Bamka, W. Sciarappa

Internally Funded Competitive Grants

Rutgers NJAES Enhanced Multi-State Funding

2017-2018 **\$35,867**– NJAES Enhanced Multi-State Funding
-- **Co-PI** to perform research under the multi-state project “Environmental Impacts of Equine Operations (Project #06260)” **Williams, C.A. (Co-PI)** and M.L. Westendorf (Co-PI).

2016-2017 **\$36,770**– NJAES Enhanced Multi-State Funding
-- **Co-PI** to perform research under the multi-state project “Environmental Impacts of Equine Operations (Project #06260)” **Williams, C.A. (Co-PI)** and M.L. Westendorf (Co-PI).

2015-2016 **\$38,628** – NJAES Enhanced Multi-State Funding
-- **Co-PI** to perform research under the multi-state project “Environmental Impacts of Equine Operations (Project #06260)” **Williams, C.A. (Co-PI)** and M.L. Westendorf (Co-PI).

2014-2015 **\$29,374** – NJAES Enhanced Multi-State Funding
-- **Co-PI** to perform research under the multi-state project “Environmental Impacts of Equine Operations (Project #06260)” **Williams, C.A. (Co-PI)** and M.L. Westendorf (Co-PI).

2013-2014 **\$28,462** – NJAES Enhanced Multi-State Funding
-- **Co-PI** to perform research under the multi-state project “Environmental Impacts of Equine Operations (Project #06260)” Westendorf, M.L. (Co-PI), and **C.A. Williams (Co-PI)**

2012-2013 **\$26,310** – NJAES Enhanced Multi-State Funding
-- **Co-PI** to perform research under the multi-state project “Environmental Impacts of Equine Operations (Project #06260)” Westendorf, M.L. (Co-PI), and **C.A. Williams (Co-PI)**

Rutgers Equine Science Center Funding (previously the State Equine Initiative)

2017-2018 **\$24,969** – Rutgers Equine Science Center Funding
-- **PI** to organize the “Integrated Cool- and Warm-Season Equine Rotational Grazing Systems: Pasture Production, Forage Preference, Metabolism and the Gut Microbiome” **Williams, C.A. (PI)**, W. Meyer, and J. Weinert

2015-2016 **\$17,830** – Rutgers Equine Science Center Funding
-- **PI** to organize the “Effects of Rotational Vs Continuous Grazing Systems for Horses on Environmental Quality, Animal Health, and Production Cost” **Williams, C.A. (PI)**, L. Kenny, M. Robson, W. Meyer, M. Westendorf, A. Burk

2013-2015 **\$13,499** – Rutgers Equine Science Center Funding

-- **PI** to organize the “Effects of Rotational Vs Continuous Grazing Systems for Horses on Environmental Quality, Animal Health, and Production Cost” **Williams, C.A. (PI)**, L. Kenny, M. Robson, W. Meyer, M. Westendorf, A. Burk

2012-2013 **\$5,000** – Rutgers Equine Science Center Funding – Planning Grant
-- **Co-PI** to organize the program “Improving the Sustainability of the Horse Industry through Equine-Related Business Planning” **Williams, C.A. (PI)**, R. Brumfield, L.B. Gladney

Rutgers NJAES State Equine Initiative

- 2009-2010 **\$37,797** – Rutgers NJAES State Equine Initiative
-- **Collaborator** to organize the “Environmental Impacts of Equine Operations” Westendorf, M. L. (PI), **C. A. Williams**, G. Maenelis, D. Gimenez, and S. Komar, C. Obropta, and S. Murphy.
- 2008-2009 **\$40,000** – Rutgers NJAES State Equine Initiative
-- **PI** to organize the “Creation of an Environmental Best Management Practices Showcase at the Equine Science Center, Rutgers Cook Campus” **Williams, C. A. (PI)**, C. Obropta, M. L. Westendorf, S. Ralston, D. Foulk, R. Mickel, and W. Bamka
- 2008-2009 **\$11,600** – Rutgers NJAES State Equine Initiative
-- **Collaborator** to organize the “Influence of diet and bedding characteristics on manure excretion, manure characteristics and air quality” Westendorf, M. L. (PI), **C. A. Williams**, G. Maenelis, and S. Komar
- 2007-2008 **\$33,419** – Rutgers NJAES State Equine Initiative
-- **Co-PI** to study “Effects of Nutritional Supplements on Exercise-induced Inflammation and Oxidative Stress in Horses” **Williams, C.A.** and C. Bagnell
- 2006-2007 **\$20,590** – Rutgers NJAES State Equine Initiative
-- **Co-PI** to study “Development of an Exercise-Induced Joint Inflammation Model in Horses” **Williams, C.A.** and C. Bagnell
- 2006-2007 **\$50,000** – Rutgers NJAES State Equine Initiative
-- **PI** to organize the “Creation of an Environmental Best Management Practices Showcase at the Equine Science Center, Rutgers Cook College” **Williams, C. A. (PI)**, C. Obropta, M. L. Westendorf (Co-PI), S. Ralston, D. Foulk, R. Mickel, W. Bamka and M. Fennell
- 2005-2006 **\$35,000** – Rutgers NJAES State Equine Initiative
-- **Co-PI** to study “Joint Inflammation in Horses and Cytokine Assay Development” **Williams, C.A.** and C. Bagnell
- 2005-2006 **\$50,000** – Rutgers NJAES State Equine Initiative
-- **PI** to organize the “Creation of an Environmental Best Management Practices Showcase at the Equine Science Center, Rutgers Cook College” **Williams, C. A. (PI)**, C. Obropta, M. L. Westendorf, S. Ralston, D. Foulk, R. Mickel, W. Bamka and M. Fennell
- 2004-2005 **\$44,000** – Rutgers NJAES State Equine Initiative
-- **Co-PI** to study “Inflammation in Horses and Cytokine Assay Development” **Williams, C.A.**, K.H. McKeever and C. Bagnell

- 2004-2005 **\$50,000** – Rutgers NJAES State Equine Initiative
 -- **PI** to organize the “Creation of an Environmental Best Management Practices Showcase at the Equine Science Center, Rutgers Cook College” **Williams, C. A. (PI)**, C. Obropta, M. L. Westendorf, S. Ralston, D. Foulk, R. Mickel, W. Bamka and M. Fennell
- 2003-2005 **\$20,000** – Rutgers NJAES State Equine Initiative
 -- **PI** to study “Oxidative Stress and Antioxidant Status in Racing Standardbreds and Thoroughbreds” **Williams, C. A. (PI)**, C. Obropta, M. L. Westendorf, S. Ralston, D. Foulk, R. Mickel, W. Bamka and M. Fennell

Donations and Other Support

- 2017 **\$2,250** – 3-\$750 sponsorships from private donors
 -- Rutgers University Teaching Herd (RUTH) donations to support the foster horses for a 3 month period of time while they are here to teach Animal Handling and Fitting
- 2016 **\$4,750** – 6-\$750, 1-\$250 sponsorships from private donors
 -- Rutgers University Teaching Herd (RUTH) donations to support the foster horses for a 3 month period of time while they are here to teach Animal Handling and Fitting
- 2015 **\$2,290** – Poulin Grain Inc.
 -- 2 tons of feed for the project “Effects of Rotational Vs Continuous Grazing Systems for Horses on Environmental Quality, Animal Health, and Production Cost”
- 2014 **\$13,460** – Square Meal Feeds LLC, Happy Horse TMR, Cokato, MN
 -- For a study comparing hydration in horses on their hay cubes vs. a compressed hay block vs. long stem hay
- 2013 **\$3,060** – Health EZ Hay Feeder, Inc., St. Louis, MO
 -- For a study on their hay feeder vs. no hay feeder
- 2013 **\$3,000** – Connolly’s Red Mills, Goresbridge, Co. Kilkenny, Ireland
 -- For processing of horse blood samples for oxidative stress measures
- 2013 **\$3,000** – University College Dublin, Animal Science Department, Dr. Finbar Mulligan
 -- For processing of horse blood samples for oxidative stress measures
- 2012 **\$2,940** – Pennfield Corporation
 -- 3.5 tons of feed for the project “Exercise Training and Age Affect Oxidative Stress in Blood and Skeletal Muscle of Exercising Horses”
- 2012 **\$3,000** – University College Dublin, Animal Science Department, Dr. Finbar Mulligan
 -- For processing of horse blood samples for oxidative stress measures
- 2011 **\$4,000** – University of Delaware, Animal Science Department, Dr. William Saylor
 -- For processing of poultry muscle samples for oxidative stress measures
- 2009 **\$500** – Eastern States Dressage and Combined Training Association (ESDCTA) Educational Grant
\$250 – United States Eventing Association (USEA) Area II Adult Riders Educational Grant
 -- Personal educational competitive grants to ride with Olympian Phillip Dutton and other clinicians

- 2008 **\$22,422** – RBC Life Sciences, Inc.
-- **PI** to study “Microhydrin® Supplementation in Exercising Horses”
- 2007 **\$840** – Nutrena Feed
-- 2 tons of feed for the project “Superoxide Dismutase Supplementation in Exercising Horses”
- 2007 **\$14,842** – NutraMax Laboratories, Inc.
-- **PI** to study “Superoxide Dismutase Supplementation in Exercising Horses”
- 2007 **\$4,510** – Stuart Products, Inc.
-- **PI** to study “Various Forms of Vitamin E Supplementation in the Horse”
- 2006 **\$1,120** – AlcheraBio, Inc.
-- **PI** of “Feasibility Study”
- 2006 **\$1,500** – Stuart Products, Inc.
-- **PI** to study “Beta-Carotene Supplementation in the Horse”
- 2006 **\$2,974** – Stuart Products, Inc.
-- **PI** to study the “Efficacy of an Antioxidant/Fatty Acid Supplement in Exercising Horses”
- 2004 **\$2,350** – Stuart Products, Inc.
-- **PI** to study the “Efficacy of Natural vs. Synthetic Vitamin E and β -Carotene in Standardbred Mares”
- 2004 **\$750** – Pennfield Corporation
-- 1.5 tons of feed for the project “Oxidative Stress and Vitamin E Research Horses”

TEACHING ACTIVITIES

Courses or Lectures Taught

Rutgers, The State University of New Jersey, New Brunswick, NJ

Undergraduate Courses:

- 2019 *Equine Nutrition* 11:067:???, Spring Semester; 3 credits
-- 100% responsibility
-- Starting the spring of 2019, revising course for Juniors/Seniors based on current recommendations for feeding horses including new research in the field
-- Also revised the online portion of the course and plan to make it nationally recognized
- 2013-present *Animal Evaluation and Selection* 11:067:260, Fall Semester; 3 credits (8-15 students)
-- 20% responsibility (Horse Section) of new course
-- Hands-on course focused on teaching students basic techniques to proper judging and evaluation of various classes of livestock (horse, swine, beef, dairy, sheep)

- 2011-present *Animal Handling and Fitting* 11:067:175, Spring Semester; 1 credit (16 Students + 16 Supervisors)
 -- 100 % responsibility (Horse Section) of course (50% responsibility prior to Spring 2016)
 -- Hands-on course teaching novice horse students how to groom, handle and show a horse for Ag Field Day
 -- Also manage 16 student supervisors as teaching assistants (TAs) for 1.5 credits under “*Studies in Animal Science*”; these students help teaching the new students. Each student and supervisor participates 3-80 minute sessions per week.
- 2011-present *Comparative Mammalian Anatomy* 11:067:391, Fall Semester; 3 credits (~30 students) since 2011; and Summer Session (12-16 students) since 2014
 -- 100% responsibility
 -- Developed this new course in Fall 2011, including lectures and laboratories dealing with basic internal and external mammalian anatomy; the relationship of animal body structure, its diversity and the comparative physiology behind it; and structural differences between the anatomy of the body systems in various mammals.
 -- Adapted semester-long course to a 6-week summer session taught for 4 hours a day over 11 sessions
- 2010-present *Horse Practicum* 11:067:200/207, Fall and Spring Semester; 2 credits (8-10 students)
 -- 2015 to present, only course coordinator, taught by Anthony Sacchetti, farm staff
 -- 50% responsibility (2010-2015)
 -- Lecture and hands-on lab based course where students learn the basics of horse handling and care
- 2003-present *Research in Animal Science* 11:067:493/494, Fall and Spring Semester (8-20 students)
 -- 100% responsibility of my research section
 -- Hands-on course covering all aspects of research with antioxidants and exercise

Guest Lecturer:

- 2007-present *Careers in Animal Science* 11:067:101, Spring semester (70-80 students), 1 lecture
- 2005, 2006, 2009 *Horse Management* 11:067:222, Fall semester (~ 60 students), 1-2 lectures
- 2003-present *Introduction to Animal Science* 11:067:142, Fall semester (150-270 students), 3 lectures on animal nutrition
- 2003-2005 *Animal Practicum* 11:067:200, Horse section (~10 students), 5 lectures and demonstrations

University of Vermont, Burlington, VT

Guest Lecturer:

- 2014 *Introduction to Equine Studies* ASCI 115, 1-hr pasture management lecture

University of Pennsylvania School of Veterinary Medicine, Philadelphia, PA

Guest Lecturer:

- 2014-present *Animal Nutrition*, 2 1-hr lectures on the basics of Equine Nutrition

Gloucester County College, Gloucester, NJ

Guest Lecturer:

2011-present *Equine Capstone Practicum* BIO 216, 2 2-hr pasture walks, and anatomy lecture and demonstration at a private farms or Rutgers Demonstration Horse Farm

Midway College, Midway, KY

Guest Lecturer:

2010 *Equine Nutrition and Equine Exercise Physiology* (Combined Classes), *Research Writing and Interpretation*, 2 1.5-hr lectures on feeding the athletic horse and a lecture on how to interpret and present research results

University of Delaware, Newark, DE

Guest Lecturer:

2011 *Introduction to Equine Science* AN 220, 1-hr lecture on equine supplements
2005-2009 *Introduction to Equine Science* AN 220, 3-hr lecture on basic equine nutrition

University of Maryland, College Park, MD

Guest Lecturer:

2005, 2006 *Equine Science* ANSC 330, 1-hr lecture on equine reproduction

County College of Morris, Randolph, NJ

Guest Lecturer:

2004, 2005, 2006 *Nutrition and Principals of Feeding* VET 110, 1-hr lecture on equine nutrition

STUDENTS SUPERVISED

Year	# Undergrad Students Advised	# PhD/MS Students Advised	# PhD/MS Committee Member	# Undergraduate Research Advised	# Undergraduate Research Reviewer
Pre-Tenure (2003-2008)	10	1	0	11	13
Post-Tenure (2009-present)	143	3	4	13	5
TOTAL	153	4	4	24	18

Master's or Doctoral Students at Rutgers University (Advisor)

2016-present Jennifer Weinert, Endocrinology and Animal Bioscience Ph.D. Student (beginning Fall 2016). Dissertation topic TBD.

2012-2015 Laura Kenny² –Rutgers University, Plant Science M.S. student, “Effects of Rotational Vs Continuous Grazing Systems for Horses on Environmental Quality, Animal Health, and Production Cost”

² Masters student Laura Kenny, was my program associate from May 2011 to Dec. 2015. In 2012 she started as a part time Master’s student in the Plant Science Department with Dr. Mark Robson as her advisor, yet I remained as her Thesis Research PI and her direct supervisor.

- 2009-2013 Danielle Smarsh, Endocrinology and Animal Bioscience Ph.D. Student. Dissertation: “The Impact of Age and Exercise on Antioxidants and Oxidative Stress in Horses.”
- 2004-2009 *Co-Advisor*; Emily Lamprecht – Endocrinology and Animal Bioscience Ph.D. Student, “Inflammatory and Antioxidant Status of Horses Undergoing Intense Exercise and Nutritional Supplementation.”

Master's or Doctoral Students (Committee Member)

- 2015-2016 Sean Conway – Rutgers University, Kinesiology and Applied Physiology M.S. Student, “Changes in Markers of Stress, Recovery, Training Load and Performance During a Women’s Division I Field Hockey Season”
- 2011-2012 Matthew Orange – UMDNJ and Rutgers University, Physiology and Integrative Biology Ph.D. student, “The Role of MG53 and Dysferlin in T-tubule Fidelity”
- 2009-2013 Devon Golem – Rutgers University, Nutritional Science Ph.D. Student, “Improving Physical Performance: the role of jaw-repositioning”
- 2010-2011 Jennifer Zambito – University of West Virginia, Animal Science M.S. Student, “Resveratrol Supplementation in Exercising Horses”

Undergraduate Student Projects at Rutgers University (Advisor)

- 2017-2018 Caroline Pawlowski - George H. Cook Honors Research, “Recovery of Forages in Rotational vs. Continuous Grazed Horse Pastures”
- 2016-2017 Michael Botros - George H. Cook Honors Research, “Effects of Rotational vs. Continuous Grazing on Forage Nutrient Content”
- 2016-2017 Elena Rizzo - George H. Cook Honors Research, “Season along with Rotational vs. Continuous Grazing Systems in Horses Effects Glucose and Insulin Response”
- 2015-2016 An Le – Independent Study Research, “Rotational vs. Continuous Grazing Systems in Horses Effects Glucose and Insulin Response”
- 2014-2015 Catherine Seeds – George H. Cook Honors Research, “Effects of Grazing System on Grasses, Soil and Horse Health”
-- Recipient of \$1,100 Aresty Research Center for Undergrads, Research Grant
- 2011-2013 Brianna Stafford – George H. Cook Honors Research, “Gastric ulcers in the racehorse”
- 2011-2012 Susan Eastman – George H. Cook Honors Research, “Lipid peroxidation in blood and skeletal muscle after intense exercise in horses”
- 2010-2011 Jennifer Hanke – George H. Cook Honors Research, “Effects of a blend of amino acids on weight gain in horses”
- 2010-2011 Cara Urban – George H. Cook Honors Research, co-advisor, “Effects of dietary protein on nitrogen excretion in the horse”
- 2009-2010 Kathleen Richards – Student to Professional Internship Network (SPIN; or formally a Cooperative Education Project), “Assistant Horse Trainer and Barn Manager”

- 2009-2010 Rachel Waltzer – George H. Cook Honors Research, “Oxidative stress in equine skeletal muscles after exercise”
-- Recipient of \$1,000 Aresty Research Center for Undergrads, Research Grant
- 2008-2009 Elizabeth Leahy – Independent Study Research, “Nutritional concerns for the three-day event horse and rider”
- 2008-2009 Holly Roessner – Independent Study Research, “Microhydrin® decreases lactate response in exercising horses”
- 2007-2008 Laura Gladney – George H. Cook Honors Research, “The effects of superoxide dismutase on markers of oxidative stress in exercising Standardbred mares”
- 2007-2008 John Lucy – George H. Cook Honors Research, “The effects of superoxide dismutase on inflammation in exercising horses”
- 2007-2008 Victoria Shekk – George H. Cook Honors Research, “The effects of exercise intensity on plasma nitric oxide and antioxidant status in horses performing in a CCI** and CCI*** 3-day event”
- 2007-2008 Beth Ann Parise – Independent Study Research, “Supplement use and nutrient intake in elite three-day event horses”
- 2007-2008 Nicole Fiorellino – Independent Study Research, “Effect of different forms of vitamin E on plasma a-tocopherol in horses”
- 2007-2008 Elizabeth Leahy – Cooperative Education Project, “Equine Ambulatory”
- 2006-2007 Jessica Lee – George H. Cook Honors Research, “Beta-carotene supplementation in horses”
- 2006-2007 Jessica DeWitt – George H. Cook Honors Research, “Oxidative stress in equine joints in response to exercise”
- 2006-2007 Stephanie Cruz – Independent Study Research, “Effect of an antioxidant and fatty acid supplement in exercising horses”
- 2006-2007 Carrie Muller – Cooperative Education Project, “Life after Seeing Eye”
- 2004-2006 Jaime Betancourt – Independent Study Research, “Efficacy of Natural vs. Synthetic Vitamin E and β-Carotene in Standardbred Mares”

Undergraduate Student Projects at Rutgers University (Reviewer)

- 2014-2015 Laura Lindsay – George H. Cook Honors Research, *Project reviewer*, “Mitigating the Effects of Equine Facilities on Watersheds through Landscape Architecture”
- 2011-2012 Divya Ramnath – George H. Cook Honors Research, *Project reviewer*, “Behavior responses of mustangs on a high starch diet versus a low starch diet”
- 2008-2009 Katharine Ziegler – George H. Cook Honors Research, *Project reviewer*, “Detection of metabolic markers in young horses affected with osteochondrosis dissecans”
- 2008-2009 Jennie Zambito – George H. Cook Honors Research, *Project reviewer*, “The effects of nutraceuticals in exercising horses”

- 2007-2009 Jessica Roos – George H. Cook Honors Research, *Project reviewer*, “The effects of nutraceuticals on glucose and insulin response in exercising horses”
- 2006-2008 Melissa Hobor – George H. Cook Honors Research, *Co-Advisor*, “Glucose and insulin response to a total mixed ration hay cube in growing horses”
- 2007-2008 Catherine Shatynski – George H. Cook Honors Research, *Project reviewer*, “Detection of metabolic markers in young horses affected with osteochondrosis dissecans”
- 2007-2008 Cara Allen – George H. Cook Research, *Project reviewer*, "Plasma vitamin C following prolonged supplementation in the horse following 48+ hours of induced transportation stress"
- 2006-2007 Tom Caltabilota – George H. Cook Honors Research, *Project reviewer*, “Effect of sucralfate on total carbon dioxide concentration in horses subjected to a simulated race test”
- 2006-2007 Justin Milizio – George H. Cook Honors Research, *Project reviewer*, “Effect of a new electrolyte supplement on plasma tCO₂ concentration in Standardbred horses subjected to a simulated race test”
- 2005-2007 Taylor Doyle – George H. Cook Honors Research, *Co-Advisor*, “The effects of caffeine on response time, accuracy, and performance in collegiate fencers”
- 2005-2006 Michelle Stives – George H. Cook Honors Research, *Co-Advisor*, “Ascorbic acid supplementation following transportation stress in weanlings”
- 2004-2005 Stefanie Schmitz – George H. Cook Honors Research, *Co-Advisor*, “Exercise as a means to reduce stereotypic behaviors among children and adolescents with autism”
- 2004-2005 Elaine Allen – George H. Cook Honors Research, *Project reviewer*, “Variation in soluble sugar content of pasture and turf grasses”
- 2003-2004 Courtney Dean – George H. Cook Honors Research, *Project reviewer*, “Leptin concentration in weanling horses”
- 2003-2004 Elizabeth Cotrell – George H. Cook Honors Research, *Project reviewer*, “Soaking hay has an effect on sugar content”

EXTENSION ACTIVITIES

Year	# Meetings Hosted	# Meetings Co-Hosted	# Presentations	Total Attendance
Pre-Tenure (2003-2008)	9	9	63	5,335
Post-Tenure (2009-present)	20	17		7,559
TOTAL	29	26	151	12,894

Extension Programs Organized

- 2018 **Co-Host**, *Junior Breeder Symposium*. ??? youth and adult attendees. A livestock symposium (horse, dairy, beef, pig, small ruminant, rabbit, and poultry species sessions) in collaboration with the New Jersey Department of Agriculture. April 7, 2018.
- 2018 **Host**, *Rutgers Annual Horse Management Seminar*. ?? attendees “Gastrointestinal Health and Management” February 11, 2018.
- 2017 **Co-Host**, *An Evening of Wine and Equine*: 4-locations, 25 attendees South (June 19th), 25 attendees North (June 26th), 60 attendees Central (October 4th), and 30 attendees North (October 11th). In conjunction with NJ Natural Resource Conservation Service (NRCS).
- 2017 **Co-Host**, *Junior Breeder Symposium*. 315 youth and adult attendees. A livestock symposium (horse, dairy, beef, pig, small ruminant, rabbit, and poultry species sessions) in collaboration with the New Jersey Department of Agriculture. April 1, 2017.
- 2017 **Co-Host**, *Horses 2017, Educational Horse Seminar*, 420 attendees. March 18 & 19, 2017.
- 2016 **Co-Host**, *An Evening of Wine and Equine: Environmental stewardship for horse farm owners*. 3-locations, 50 attendees Central (May 19th), 48 attendees North (May 26th), 20 attendees South (June 2nd). In conjunction with NJ Natural Resource Conservation Service (NRCS).
- 2016 **Co-Host**, *Junior Breeder Symposium*. 210 youth and adult attendees. A livestock symposium (horse, dairy, beef, pig, small ruminant, rabbit, and poultry species sessions) in collaboration with the New Jersey Department of Agriculture. April 2, 2016.
- 2016 **Host**, *Rutgers Annual Horse Management Seminar*. 95 attendees “Why do they do that? Behavior and Training of Horses” February 14, 2016.
- 2015 **Host**, *Equine Science Center Pasture Walk*, 16 attendees “Benefits of Rotational Grazing and to Analyze the Quality of your Pastures”. July 29, 2015.
- 2015 **Co-Host**, *Junior Breeder Symposium*. 205 youth and adult attendees. A livestock symposium (horse, dairy, beef, pig, small ruminant, rabbit, and poultry species sessions) in collaboration with the New Jersey Department of Agriculture. March 28, 2015.
- 2015 **Host**, *Rutgers Annual Horse Management Seminar*. 75 attendees “Equine Grazing Rewards and Pasture Concerns” February 8, 2015.
- 2014 **Host**, *Equine Science Center Fall Webinar Series*, about 25 live participants over the series. November 18 & December 2, 2014.
- 2014 **Host**, *Equine Science Center Spring Webinar Series*, about 16 live participants over the series. April 23rd & 30th, 2014.
- 2014 **Co-Host**, *Junior Breeder Symposium*. 210 youth and adult attendees. A livestock symposium (horse, dairy, small ruminant, rabbit, and poultry species sessions) in collaboration with the New Jersey Department of Agriculture. April 5, 2014.
- 2014 **Host**, *Rutgers Annual Horse Management Seminar*. 65 attendees “Caring for your Equine Athlete” February 9, 2014.

- 2013 **Co-Host, *Equine Business Planning Workshop***. A series of 7 workshops for equine business owners to help make their business more profitable by developing a business plan. Two locations with live and distance learning portions in two locations (North – 16 attendees and South – 17 attendees, NJ). Every Tuesday starting February 5, 2013.
- 2013 **Co-Host, *Junior Breeder Symposium***. 210 youth and adult attendees. A livestock symposium (horse, dairy, small ruminant, rabbit, and poultry species sessions) in collaboration with the New Jersey Department of Agriculture. March 23, 2013.
- 2013 **Co-Host, *Feed and Ration Management Seminar - Managing Nutrient Loss in Horses by Modifying Intake of Nutrients in the Feed***. 20 attendees. February 28, 2013.
- 2013 **Host, *Rutgers Annual Horse Management Seminar***. 50 attendees “Equine Stress and Transportation” February 10, 2013.
- 2012 **Host, *Equine Science Center Fall Webinar Series***, about 25 live participants over the series. November 15 & December 4, 2012.
- 2012 **Co-Host, *Horse Diet Management Seminars***, A series of 2 pasture workshops were run in North and South NJ, on October 4th (8 attendees) and October 16th (20 attendees), 2012, respectively.
- 2012 **Host, *Equine Science Center Spring Webinar Series***, about 30 live participants over the series. April 3 & 10, 2012.
- 2012 **Co-Host, *Junior Breeder Symposium***. 200 youth and adult attendees. A livestock symposium (horse, dairy, small ruminant, rabbit, and poultry species sessions) in collaboration with the New Jersey Department of Agriculture. March 31, 2012.
- 2012 **Host, *Rutgers Annual Horse Management Seminar***. 80 attendees. “Responsible Horse Ownership in a Tough Economic Climate” February 4, 2012.
- 2011 **Host, *Equine Science Center Pasture Walk Series***, A series of 3 pasture walks were run in South, North and Central NJ, on July 23 (15 attendees), 29 (20 attendees) and September 29th (20 attendees), 2011, respectively.
- 2011 **Host, *Equine Science Center Fall Webinar Series***, about 30 live participants over the series. October 26 & November 9, 2011.
- 2011 **Co-Host, *Junior Breeder Symposium***. 205 youth and adult attendees. A livestock symposium (horse, dairy, small ruminant, rabbit, and poultry species sessions) in collaboration with the New Jersey Department of Agriculture. March 26, 2011.
- 2011 **Host, *Equine Science Center Spring Webinar Series***, about 40 live participants over the series. March 15 & 22, 2011.
- 2011 **Host, *Rutgers Annual Horse Management Seminar***. 110 attendees. “Care and Management of the Older Horse” February 13, 2011.
- 2010 **Host, *Equine Science Center Fall Webinar Series***, about 55 live participants over the series. Oct. 7, 21, Nov. 5 and 19, 2010.
- 2010 **Co-Host, *Junior Breeder Symposium***. 200 youth and adult attendees. A livestock symposium (horse, dairy, small ruminant, rabbit, and poultry species sessions) in collaboration with the New Jersey Department of Agriculture. March 20, 2010.

- 2010 **Host**, *Equine Science Center Spring Webinar Series*, about 40 live participants over the series. March 9 & 23, 2010.
- 2010 **Host**, *Rutgers Annual Horse Management Seminar*, 68 attendees. “So You Want to Keep your Horse Sound...” February 7, 2010.
- 2009 **Host**, *Equine Science Center Fall Webinar Series*, over 100 live participants over the series. October 26, November 2, 9, 16, 2009.
- 2009 **Host**, *Equine Farm and Land Management Workshop*, 50 attendees. October 16, 2009.
- 2009 **Co-Host**, *Junior Breeder Symposium*. 185 youth and adult attendees. A livestock symposium (horse, dairy, small ruminant, rabbit, and poultry species sessions) in collaboration with the New Jersey Department of Agriculture. March 21, 2009.
- 2009 **Co-Host**, *Horses 2009, Education Horse Seminar*, ~ 750 attendees. March 28 & 29, 2009.
- 2008 **Host**, *Equine Farm and Land Management Seminar*, 32 attendees, Partnered with Salem, Hunterdon, and Sussex County Cooperative Extension (David Lee, Bob Mickel, and Steve Komar), May 15 & 22, 2008.
- 2008 **Overall Program Chair**, *6th Mid-Atlantic Nutrition Conference*, 220+ attendees. March 26 & 27, 2008.
- 2008 **Co-Host**, *Junior Breeder Symposium*. 175 youth and adult attendees. A livestock symposium (horse, dairy, small ruminant, rabbit, and poultry species sessions) in collaboration with the New Jersey Department of Agriculture. March, 2008.
- 2008 **Host**, *Rutgers Annual Horse Management Seminar*, 110 attendees. “So You Want to Own a Horse? And if you already do...Now what?” January 26, 2008.
- 2007 **Co-Host**, *Equine Science Center Science and Management Update*, 162 attendees. December 11, 2007.
- 2007 **Host**, *Equine Farm and Land Management Short Course*, 42 attendees. Partnered with Monmouth County Cooperative Extension (Dr. Bill Sciarappa), October 5 & 6, 2007.
- 2007 **Co-Host**, *Horses 2007, “Farm and Land Management Short Course,”* 50 attendees. March 31 & April 1, 2007.
- 2007 **Co-Host**, *Horses 2007, Education Horse Seminar*, ~ 800 attendees. March 31 & April 1, 2007.
- 2007 **Co-Host**, *Junior Breeder Symposium*. 198 youth and adult attendees. A livestock symposium (horse, dairy, small ruminant, rabbit, and poultry species sessions) in collaboration with the New Jersey Department of Agriculture. March, 2007.
- 2006 **Co-Host**, *Equine Science Center Science and Management Update*, 160 attendees, December 12, 2006.
- 2006 **Hosted/Taught** *Undergraduate Equine Anatomy*, 20 attendees, 2 hours each on 2 evenings, volunteer lecture series, November 8 & 13, 2006.
- 2006 **Co-Host**, *Junior Breeder Symposium*. 185 youth and adult attendees. A livestock symposium (horse, dairy, small ruminant, rabbit, and poultry species sessions) in collaboration with the New Jersey Department of Agriculture. March, 2006.

- 2006 **Host**, *Rutgers Annual Horse Management Seminar*, 60 attendees, “So You Want to Breed Your Horse?” February 11, 2006.
- 2005 **Host**, *SARE Sustainable Pasture Management for Horses*, 46 and 75 attendees respectively, “Mid-Atlantic Equine Pasture Initiative Training Seminar,” December 8 & 15, 2005.
- 2005 **Co-Host**, *Equine Science Center Management Update*, 80 attendees, “Update of Equine Rules and Regulations,” December 13, 2005.
- 2005 **Host**, *Equine Management Short Course*, 60 attendees, “Horse Health Issues,” February 10 & 11, 2005.
- 2004 **Co-Host**, *Equine Forages: Risks and Rewards Seminar and Summit*, 90 attendees, October 22 & 23, 2004.
- 2004 **Host**, *Rutgers Annual Horse Management Seminar*, 70 attendees, “General Horse Management” March 14, 2004.

Extension Presentations (Organized and Invited)

#	Date	Program/Event (Location)	Title of Presentation	Program Duration ^a	Audience	Resp ^b	# ^c
	11/17	Equine Affaire Horse Expo (MA)	Reducing Feeding Costs by using Good Pasture Management	4 d expo	Horse owners	1 hr lec	x
	11/17	Equine Affaire Horse Expo (MA)	Are You Stressing out your Horse?	4 d expo	Horse owners	1 hr lec	x
	9/17	Minnesota Nutrition Conference (MN)	Vitamin E Requirements, Supplements and Disorders	1 d sem	Horse owners	1 hr lec	38
	6/17	Natural Resource Conservation Service (NRCS) Grazing Training	Horse Pasture Best Management Practices	2 d sem	NRCS staff	1 hr lec	35
1	4/17	Mid-Atlantic Arabian Horse Association, Inc. (NJ)	Healthy Horse Clinic	2 hr sem	Horse Owners	2 hr lec/demo	12
2	4/17	Penn State Cooperative Extension Horse Owner Workshop (PA)	Equine Metabolic Syndrome and the effect of grazing on your horse	2 hr sem	Horse Owners	2 hr lec	42
3	4/17	Junior Breeders Symposium (NJ)	Vaccine, disease and biosecurity Jeopardy	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	50
3	4/17	Junior Breeders Symposium (NJ)	Sportsmanship	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	55
4	3/17	Horses 2017 Conference (NJ)	The No Carb Diet: The Impact of Human Diet Fads on Equine Nutrition	2 d sem	Horse Owners, Farm manager, youth, etc.	1 hr lec	25
5	3/17	Horses 2017 Conference (NJ)	What’s For Dinner: Basic Nutrition for the Healthy Horse	2 d sem	Horse Owners, Farm manager, youth, etc.	1 hr lec	35
6	2/17	Pineland Riders Pony Club Unmounted Educational Session (NJ)	Digestive Anatomy of Horses and Why we Feed them the Way we Do?	1.5 hr sem	Pony Clubbers and parents	1.5 hr lec	35

#	Date	Program/Event (Location)	Title of Presentation	Program Duration ^a	Audience	Resp ^b	# ^c
7	1/17	CHS Annual Equine Nutrition Seminar Series for veterinarians (OR)	Feeding the 21 st Century Equine Athlete	half d sem	Veterinarians/Vet Technicians	1.25 hr lec	55
8	1/17	CHS Annual Equine Nutrition Seminar Series for horse owners (OR)	Feeding the Equine Athlete	half d sem	Horse owners	50 min lec	32
9	1/17	CHS Annual Equine Nutrition Seminar Series for veterinarians (ID)	Feeding the 21 st Century Equine Athlete	half d sem	Veterinarians/Vet Technicians	1.25 hr lec	30
10	9/16	Maine Cooperative Extension Horse Owner meeting (ME)	Essentials of Equine Pasture Management	half d sem	Horse owners	1 hr lec	15
11	9/16	Minnesota Nutrition Conference (MN)	Human Nutrition Fads in Horse Diets	1 d sem	Horse owners	1 hr lec	35
12	03/16	Junior Breeders Symposium (NJ)	Horse Anatomy Jeopardy	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	58
13	03/16	Junior Breeders Symposium (NJ)	Horse vs. Human Skeletal Anatomy	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	75
14	02/16	Rutgers Annual Horse Management Seminar	How Nutrition can Effect Behavior	1 d sem	Horse owners	Organized seminar & 30 min lec	95
15	11/15	Soil and Water Conservation Service NJ Chapter meeting	Best Management Practices for Equine Operations	Half day	NRCS/SWCS, other field technical staff	1 hr lec, 1 hr farm tour	22
16	10/15	Foundation Equine's Horse Health Day	How to Feed a Horse with Laminitis	1 d sem	Horse owners	1 hr lec	55
17	09/15	Somerset Hills Pony Club Unmounted Educational Session	Equine Conformation	1 hr sem	Pony Clubbers and parents	1 hr lec	24
18	07/15	Equine Science Center Summer Showcase	Comparison of Equine Anatomy to the Human Body	2 hr demo	Horse owners/horse lovers	3-20 min demos	110
19	06/15	Spotlight on Stewardship (VA)	Overview of Equine Pasture Management for Healthy Land	2 d sem/demos	Horse/farm owners	1 hr lec	35
20	03/15	Junior Breeders Symposium (NJ)	Horse Nutrition Jeopardy	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	30
21	03/15	Junior Breeders Symposium (NJ)	What Feeds should I Feed My Horse?	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	30
22	12/14	Southern States Equine Feed Master Program (VA)	Nutritionally Related Diseases of the Horse	3 d sem	Feed Sales Reps (beginner)	1 hr lec	45
23	12/14	Southern States Equine Feed Master Program (VA)	Feed Intake, Hay Quality and Feedstuffs Identification	3 d sem	Feed Sales Reps (beginner)	1 hr lec	45
24	11/14	Equine Affaire Horse Expo (MA)	Reducing Feeding Costs by using Good Pasture Management	4 d expo	Horse owners	1 hr lec	25

#	Date	Program/Event (Location)	Title of Presentation	Program Duration ^a	Audience	Resp ^b	# ^c
25	11/14	Equine Affaire Horse Expo (MA)	Equine Digestive Model: Why we feed them the way we do?	4 d expo	Horse owners	1 hr lec	50
26	09/14	University of Vermont, Pasture Walks (VT)	Best Management Practices on Horse Farms	2 – 2+ hr demos	Horse owners	1 of 2 presenters	24
27	08/14	PA Pasture and Grasslands Council (NJ/PA)	Importance of Pasture in your Horses Feeding Program	1 d sem	Horse owners	2 hr lec	74
28	08/14	Amwell Valley Pony Club Unmounted Educational Session	Digestive Anatomy of Horses and Why we Feed them the Way we Do	1 hr sem	Pony Clubbers and parents	1hr lec	22
29	07/14	Equine Science Center Summer Showcase	Comparison of Equine Anatomy to the Human Body	2 hr demo	Horse owners/horse lovers	3-20 min demos	95
30	04/14	Jersey Shore Pony Club Unmounted Educational Session	Conditioning for Competition and Long Format Competitions	1 hr sem	Pony Clubbers and parents	1hr lec	15
31	03/14	Junior Breeders Symposium (NJ)	How to do Show Braids	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	40
32	03/14	Junior Breeders Symposium (NJ)	Proper Bandaging of Horses	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	43
33	11/13	Rutgers Equine Science Center, Equine Science Update	The Power of Youth Fights Oxidative Stress	2 hr sem	Horse owners & veterinarians	15 min lec	230
34	11/13	Jersey Shore Pony Club Unmounted Educational Session	Introduction to using studs in competition	2 hr sem	Pony Clubbers and parents	1.5 hr demo	15
35	08/13	Keenan McAlister Equine Health Day	To Grain...or Not to Grain?	1 d sem	Horse owners	1 hr lec	120
36	07/13	Equine Science Center Summer Showcase	Comparison of Equine Anatomy to the Human Body	2 hr demo	Horse owners/horse lovers	3-20 min demos	80
37	04/13	Tools for Equine Health & Soundness (NJ/PA)	Matching Feeding Programs to Your Horse's Energy Needs	1 d sem	Horse owners	2 hr lec	88
38	04/13	Delaware Horse Expo (DE)	Choosing Supplements Wisely	2 d expo	Horse owners	1 hr lec	23
39	03/13	Mid-Atlantic Nutrition Conference (MD)	Feeding the Equine Athlete to Combat Oxidative Stress	1 d sem	Horse Industry, Vets, Feed reps, etc	Organizing committee & 60 min lec	64
40	03/13	Junior Breeders Symposium (NJ)	Digestive Anatomy of the Horse	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	50
41	03/13	Junior Breeders Symposium (NJ)	Pasture Management Jeopardy	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	50
42	2/13	Feed and Ration Management Seminar	Overfeeding Nitrogen to Horses and Effects on Environmental Quality	1 d sem	Technical Service Providers (NRCS, etc)	20 min lec	20

#	Date	Program/Event (Location)	Title of Presentation	Program Duration ^a	Audience	Resp ^b	# ^c
43	2/13	Feed and Ration Management Seminar	Feed Management Evaluation; Recommendations on Program Farms; and, One-Year Farm Follow-ups	1 d sem	Technical Service Providers (NRCS, etc)	20 min lec	20
44	12/12	Rutgers Equine Science Center, Equine Science Update	Antioxidants for Exercising Horses: Are they Beneficial?	2 hr sem	Horse owners & veterinarians	20 min lec	200
45	08/12	University of Vermont Cooperative Extension Seminar (VT)	Feeding Supplements Wisely	2 hr sem	Horse owners	30 min lec	22
46	08/12	Regional Pony Club Camp educational session (NJ)	Digestive Anatomy and Why we Feed Horses the Way we Do	1 hr lec	Youth/Parents	1 hr lec	35
47	03/12	Junior Breeders Symposium (NJ)	Equine Exercise Physiology and Research	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	50
48	02/12	Rutgers Annual Horse Management Seminar	Improving Pasture for Reduced Feed Costs	1 d sem	Horse breeders	Organized seminar & 1 hr lec	80
49	01/12	United States Eventing Association, Area II Annual Meeting (VA)	Taking the Confusion out of Supplements	1 d sem	Horse owners and eventers	1 hr lec	25
50	12/11	Rutgers Equine Science Center, Equine Science Update	“Love your Horse, Love the Environment” Latest Environmental Best Management Practices for Horse Farms	2 hr sem	Horse owners & veterinarians	20 min lec	215
51	10/11	Gloucester County Pasture Walk (NJ)	Pasture Walk	2 hr demo	Horse farm owners and county college students	2 hr demo	15
52	03/11	Junior Breeders Symposium (NJ)	Leg Anatomy of Horses	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	50
53	03/11	Amwell Pony Club (NJ)	Digestive Anatomy and Nutrition	2 hr lec	Youth	2 hr lec	11
54	03/11	Somerset Pony Club (NJ)	Advanced Nutrition of the Pony Club Horse	2 hr lec	Youth	2 hr lec	22
55	03/11	Salem County Equine Risk Meeting (NJ)	Saving Money on Pastures while Maintaining Nutrition	2 hr	horse owners	1 hr lec	12
56	03/11	Camden County Horse Educational Series (NJ)	Feeding and Care of the Older Horse	2 hr	horse owners	2 hr lec	25
57	02/11	Southern States Equine Feed Master Program (NC)	Commonly Fed Herbs in Equine Nutrition	3 d sem	Feed Sales Reps (advanced)	1 hr lec	40
58	02/11	Southern States Equine Feed Master Program (NC)	Feeding the Three-Day Event Horse	3 d sem	Feed Sales Reps (advanced)	1 hr lec	40
59	01/11	Univ. of DE and Rutgers Cooperative Extension, Women and Ag Conference (DE)	Saving Money on Pastures while Maintaining Nutrition	1.25 hr lec	Horse owner, barn managers	1.25 hr lec	12
60	01/11	Maryland Horse World Expo (MD)	Feeding the Three-Day Event Horse	4 d expo	horse owners	1 hr lec	21

#	Date	Program/Event (Location)	Title of Presentation	Program Duration ^a	Audience	Resp ^b	# ^c
61	12/10	Rutgers Equine Science Center, Equine Science Update	The "Scoop on Poop": Latest Environmental Best Management Practices for Horse Farms	2 hr sem	Horse owners & veterinarians	20 min lec	195
62	11/10	Penn State, Equine Speaker Series (PA)	Research and Riding: Mixing Business with Pleasure	2 hr sem	Students and horse owners	2 hr lec	47
63	08/10	Minnesota Horse Management Seminar (MN)	Myths and Facts about Equine Supplements	3 hr sem	horse owners	1 hr lec	45
64	04/10	Somerset Pony Club (NJ)	Anatomy and Conformation	2 hr demo	Youth	2 hr demo	15
65	03/10	Ocean County 4-H (NJ)	Digestive Anatomy and Nutrition	2 hr lec	Youth, adult horse owners	2 hr lec	60
66	02/10	Somerset Pony Club (NJ)	Equine Nutrition	2 hr lec	Youth	2 hr lec	22
67	01/10	Livestock, Forage and Grain Forum (IN)	Debunking the Myths of Feeding Horses	1 d sem	horse owners	1 hr lec	18
68	01/10	Maryland Horse World Expo (MD)	Feeding the Equine Athlete	4 d expo	horse owners	1 hr lec	42
69	12/09	Rutgers Equine Science Center, Equine Science Update	Creation of an Environmental BMP Showcase at Rutgers Equine Science Center	2 hr sem	Horse owners & veterinarians	20 min lec	220
70	10/09	National Agricultural Research, Extension, Education, and Economics Advisory Board (DC)	eXtension	3 d mtg	USDA appointed committee	15 min lec	25
71	09/09	University of Vermont, Pasture Walks (VT)	Best Management Practices on Horse Farms	2 – 2+ hr demos	Horse owners	1 of 3 presenters	38
72	08/09	The Science of Horses (NJ)	Nutrition	1 d sem	Youth, adult horse owners	Org committee & 3 -1 hr lec/demos	26
73	08/09	The Science of Horses (NJ)	Careers & Education	1 d sem	Youth, adult horse owners	Org committee & 3 -1 hr lec/demos	26
74	07/09	Michigan State Univ. Extension – Equine Lecture Series (MI)	Supplements: Getting the Most for your Money	3 hr	Youth, adult horse owners	1.5 hr lec	11
75	07/09	Michigan State Univ. Extension – Advanced Horsemanship Summer Camp (MI)	Beginning jumping lessons, and How to Body Condition Score your Horse	1 d demo	youth	1 d demos	21
76	07/09	Equine Nutrition seminar – NJ Equine Clinic (NJ)	Equine Nutrition – the building blocks of a balanced diet	1 hr	Veterinary practice staff/vets	1 hr lec	18
77	06/09	Equine Management Webinar Series	Equine Nutrition Myths & Facts	1 hr	horse owners	45 min web lec	12
78	06/09	Women in Science and Technology Workforce Summit (NJ)	Panel of speakers for Emerging Fields in the Green Workforce	1 d sem	Women in science	3 -1 hr panel sessions	60
79	05/09	Upper Raritan Watershed Association Mtg (NJ)	Best Management Practices for Equine Operations	3 hr mtg	Watershed members	1 hr lec	12
80	05/09	Southern States Forage Seminar (PA)	Importance of Pasture for Horses	2 hr	horse owners	1 hr lec	15
81	05/09	Salem County Equine Risk Meeting (NJ)	Proper Use of Feed Supplements	2 hr	horse owners	30 min lec	23

#	Date	Program/Event (Location)	Title of Presentation	Program Duration ^a	Audience	Resp ^b	# ^c
82	04/09	Equine Seminar – Colts Neck Equine Practice (NJ)	Equine Digestive Anatomy	2 hr	horse owners	1 hr lec	45
83	04/09	Sussex County Equine Management Workshop (NJ)	Common Equine Nutrition Myths: What Do Horses Really Need?	2 hr	horse owners	1 hr lec	24
84	03/09	Horses 2009 Educational Conference (NJ)	Basic Equine Nutrition	2 d sem	Horse Industry	30 min lec & session moderator	432
85	03/09	Junior Breeders Symposium (NJ)	Body Condition Scoring your Horse	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	110
86	03/09	Wayne-Pike Horse Owners School (PA)	The Yeas and Neighs of Equine Supplements	2 hr	horse owners	2 hr lec	22
87	03/09	Camden County Horse Educational Series (NJ)	Beautiful but Deadly: Plants Toxic to Horses	2 hr	horse owners	2 hr lec	26
88	02/09	Southern States Equine Feed Master Program (NC)	Forages for Hind Gut Health	3 d sem	Feed Sales Reps (advanced)	1 hr lec	42
89	02/09	Southern States Equine Feed Master Program (NC)	Cutting Edge Aspects of Equine Exercise Physiology	3 d sem	Feed Sales Reps (advanced)	1 hr lec	42
90	01/09	Maryland Horse World Expo (MD)	Managing Horses with Metabolic Syndrome	4 d expo	horse owners	1 hr lec	38
91	05/08	Equine Farm & Land Management Seminar (Woodstown, NJ)	Horse Feeds Demonstration	2 d sem	Horse Industry	1hr demo	7
92	05/08	Equine Farm & Land Management Seminar (Woodstown, NJ)	Importance of Pasture to Horses	2 d sem	Horse Industry	40 min lec	7
93	05/08	New Jersey Horse Expo (NJ)	Comparative Equine Confirmation and Anatomy	2 d expo	Horse Industry	1 hr demo	25
94	05/08	Equine Farm & Land Management Seminar (Pittstown, NJ)	Horse Feeds Demonstration	2 d sem	Horse Industry	1hr demo	22
95	05/08	Equine Farm & Land Management Seminar (Pittstown, NJ)	Importance of Pasture to Horses	2 d sem	Horse Industry	40 min lec	22
96	05/08	Jersey Fresh Three-Day Event (NJ)	Research Results from 2006 & 2007	30 min lec	competitive riders	30 min lec	80
97	04/08	Nutritional Management of Horses Seminar (DE)	Herbal Supplements for Horses	1 d sem	horse owners	3-1 hr lec	23
98	04/08	Nutritional Management of Horses Seminar (DE)	Balancing Rations Lecture...Learning the How to Do's	1 d sem	horse owners	3-1 hr lec	21
99	04/08	Nutritional Management of Horses Seminar (DE)	Balancing Rations Workshop...The Doing	1 d sem	horse owners	3-1 hr lec	21
100	04/08	Junior Breeders Symposium (NJ)	Animal Safety, Horse Section	1 d sem	Ag Industry Youth	Organizing committee & 6 hr demo	100
101	03/08	Mid-Atlantic Nutrition Conference (MD)	The efficacy of some commonly supplemented herbs in equine nutrition	1 d sem	Horse Industry, Vets, Feed reps, etc	Organizing committee & 1 hr lec	80
102	03/08	Camden County Horse Educational Series (NJ)	Stress and Your Horse	2 hr	horse owners	2 hr lec	30

#	Date	Program/Event (Location)	Title of Presentation	Program Duration ^a	Audience	Resp ^b	# ^c
103	02/08	Sussex County Equine Nutrition Seminar (NJ)	Basic Equine Nutrition and Winter Feeding	2 hr	horse owners	1 hr lec	20
104	01/08	Maryland Horse World Expo (MD)	Herbal Supplements for the Equine Athlete	4 d expo	horse owners	1 hr lec	24
105	12/07	Rutgers Equine Science Center, Equine Science Update	Jersey Fresh CCI: What the Pro's are Feeding their Horses	2 hr sem	Horse owners & veterinarians	20 min lec	162
106	10/07	Equine Farm & Land Management Short Course (NJ)	Horse Feeds Demonstration	2 d sem	Horse Industry	3-1hr demos	42
107	10/07	Equine Farm & Land Management Short Course (NJ)	Importance of Pasture to Horses	2 d sem	Horse Industry	30 min lec	42
108	09/07	Horse Owners Seminar, Equestrian Village (NY)	The Yeas and Neighs of Equine Supplements	2 hr seminar	Horse Industry	2 hr lec	30
109	07/07	National Agricultural Education Association Region VI Conference (NJ)	Balance and Confirmation	2 d sem	High School Ag Educators	1 hr lec	12
110	05/07	Millstone Township Horse Owners Association, Special Seminar (NJ)	The Yeas and Neighs of Equine Supplements	1.5 hr sem	Horse Owners	1 hr lec	30
111	03/07	Triple Crown Client Seminar (NJ)	Equine Pasture Management	3 hr sem	Horse owners & Feed Reps	45 min lec	40
112	03/07	Gloucester County 4-H Horse Mini Series (NJ)	The Yeas and Neighs of Equine Supplements	2 hr sem	4-H Youth & Horse Industry	2 hr lec	40
113	03/07	Horses 2007, Farm and Land Management Short Course (NJ)	Importance of Pasture to Horses	2 d sem	Horse Industry & Township members	30 min lec	52
114	02/07	North East Pasture Consortium (NE region)	Equine Pasture Management Program Progress	2 d sem	Farmers & Academics	30 min lec	70
115	02/07	Upper Raritan Watershed, Wake Up Call Breakfast (NJ)	Best Management Practices for Equine Operations	1 hr sem	Horse owners & watershed members	45 min lec	15
116	02/07	Horse Owners Workshop, (MA)	The Yeas and Neighs of Equine Supplements	2 hr sem	Horse owners	2 hr lec	70
117	01/07	Maryland Horse World Expo (MD)	Trail Riding Etiquette	4 d expo	Horse owners	45 min lec	40
118	01/07	Delaware Ag Week (DE)	The Yeas and Neighs of Equine Supplements	6 d sem	Horse owners	1 hr lec	17
119	12/06	Rutgers Equine Science Center, Equine Science Update	Creation of an Environmental BMP Showcase at Rutgers Equine Science Center	2 hr sem	Horse owners & veterinarians	20 min lec	160
120	12/06	New Jersey Pony Club Rating Prep (NJ)	Basic Equine Nutrition and GI Anatomy	2 day clinic	Pony Club members	2 hr demo	16
121	11/06	College Level Equine Anatomy	Equine Skeletal and Muscular Anatomy	2-2 hr lec/demos	UG and Grad Students	2-2 hr lec/demos	20
122	11/06	Southern States Equine Feed Master Program (NC)	Equine Exercise Physiology and Feeding the Equine Athlete, Evaluating and Maximizing Pasture Value, Pasture Management and the Horse	3 d sem	Feed Sales Reps	2.5 hrs of lec (3 separate lec)	45
123	10/06	Cornell Cooperative Extension of Orange County (NY)	Mare and Foal Nutrition	2 hr sem	Horse breeders	2 hr lec	18
124	09/06	Small Farm Expo (NJ, NY, PA)	Basic Equine Nutrition and GI Anatomy	2 d expo	Ag Industry	1 hr demo	15

#	Date	Program/Event (Location)	Title of Presentation	Program Duration ^a	Audience	Resp ^b	# ^c
125	04/06	Horses 2006 (NY)	Facts and Myths about Equine Nutrition and Supplements	2 d sem	Horse Industry & youth	2-1 hr lec	40
126	04/06	Monmouth County 4-H Horse Education Seminar (NJ)	Basic Equine Nutrition and GI Anatomy	2 hr sem	4-H Youth & Horse Owners	2 hr demo	22
127	03/06	Junior Breeders Symposium (NJ)	Basic Equine Nutrition and GI Anatomy	1 d sem	Ag Industry Youth	Organizing committee & 3-1 hr demos	45
128	03/06	Mid-Atlantic Nutrition Conference (MD)	Mid-Atlantic Equine Pasture Initiative; what does it mean for you?	1 d sem	Horse Industry, Vets, Feed reps, etc	Organizing committee & 30 min lec	80
129	02/06	Waymouth Horse Owners Association Educational Seminar (NJ)	Basic Equine Nutrition and GI Anatomy	2 hr seminar	Horse owners	2 hr demo	20
130	02/06	Gloucester County 4-H Horse Mini Series (NJ)	Stress of the Equine Athlete	2 hr sem	4-H Youth & horse owners	2 hr lec	30
131	02/06	Pony Club of Somerset County (NJ)	Basic Equine Nutrition and GI Anatomy	2 hr sem	Pony Club members & parents	2 hr demo	25
132	02/06	North East Pasture Consortium (NE region)	Opportunities for multistate research and educational programs to address equine industry grazing priority needs in the NE Region	2 d sem	Farmers & Academics	1 hr lec	40
133	02/06	University of New Hampshire Grazing Conference (NH)	Pasture Management for Horses	2 d sem	Horse Industry	1 hr lec	35
134	02/06	Rutgers Annual Horse Management Seminar	Eating for Two: Proper Broodmare Nutrition	1 d sem	Horse breeders	Organized seminar & 1 hr lec	65
135	12/05	Sustainable Pasture Management for Horses (NJ / PA)	Importance of Pasture to Horses	2-1 d seminars	Ag Industry Professionals	Organized seminars & 1 hr lec	75
136	12/05	Rutgers Equine Science Center, Equine Science Update	Vitamin E and Stress in your Horse	2 hr sem	Horse Industry & Vets	20 min lec	100
137	06/05	Warwick Valley Stables, Equine Nutrition Seminar (NY)	Basic Equine Nutrition	3 hr sem	Horse owners	Organized speakers & 1.5 hr lec	20
138	06/05	RCRE of Sussex County, Equine Management Basics Seminar (NJ)	Basic Equine Nutrition	3 hr sem	Horse owners	1 hr lec	25
139	04/05	HOW Seminar (Horse Owners Workshop; NJ)	Introduction to Equine Research and the NJ Horse Council	3 hr sem	Horse owners	1 hr lec	75
140	04/05	Delaware Horse Expo (DE)	Basic Equine Nutrition	1 d expo	Horse owners	1 hr lec	15
141	04/05	Delaware Horse Expo (DE)	Supplements, Choosing them Wisely	1 d expo	Horse owners	1 hr lec	15
142	02/05	Equine Management Short Course (NJ / PA)	Stress in the Athletic Horse	2 d sem	Horse Industry	Organized seminar & 1 hr lec	50
143	02/05	Gloucester County 4-H Horse Mini Series (NJ)	Plants Toxic to Horses	2 hr sem	4-H Youth & horse owners	2 hr lec	40
144	01/05	Maryland Horse World Expo (MD)	Best Management Practices for Horse Pastures	4 d expo	Horse Industry	1 hr lec	50
145	04/04	Barn Manager's Short Course (NJ / PA)	Feeding the Performance Horse	2 d sem	Horse Industry	1 hr lec	50

#	Date	Program/Event (Location)	Title of Presentation	Program Duration ^a	Audience	Resp ^b	# ^c
146	04/04	Barn Manager's Short Course (NJ / PA)	Choosing your Supplements Wisely	2 d sem	Horse Industry	1 hr lec	50
147	03/04	Hunterdon County Horse and Pony Association (NJ)	Antioxidants, Supplements, and the Equine Athlete	1 d sem	Horse owners	1 hr lec	75
148	03/04	Mid-Atlantic Nutrition Conference (MD)	Antioxidant Research in the Athletic Horse	1 d sem	Horse Industry, Vets & Feed reps	Organizing committee & 1 hr lec	40
149	02/04	Ocean County 4-H Horse Seminar (NJ)	Feeding the Equine Athlete	2 hr sem	4-H Youth & Horse Industry	2 hr lec	30
150	02/04	Gloucester County 4-H Horse Mini Series (NJ)	Feeding the Equine Athlete	2 hr sem	4-H Youth & Horse Industry	2 hr lec	60
151	01/04	Maryland Horse World Expo (MD)	Feeding the Equine Athlete	4 d expo	Horse Industry	1 hr lec	15
152	10/03	Orange County Horse Council (NY)	When Oxygen goes Bad: Antioxidants can help!	2 hr sem	Horse Industry	2 hr lec	30
153	02/03	Virginia Horse Council annual meeting	Nutrition for the Endurance Horse: Antioxidant Supplementation	1 d sem	Horse Industry	30 min lec	75

^a lec = lecture, sem = seminar

^b Resp = My responsibility in the program

^c # = Number of attendees

SERVICE

Leadership Committees—National

Equine Science Society:

- 2017-present Board of Directors
- 2010-2015 Chair, Exercise Physiology Committee
- 2007-2010 Member, Exercise Physiology Committee

***eXtension* 'HorseQuest' Community of Practice:**

- 2009-2010 Vice Chair
- 2005-present Member

Other:

- 2016-present Coordinating Committee Member, National Research Support Project (NRSP-9) National Animal Nutrition Program
- 2014-present Committee Member, Equine Oat Research Advisory Board
- 2004-2009 Chair of Communications Sub-Committee, State Horse Council Advisory Committee (Advisory Committee for the American Horse Council)

Leadership Committees—Regional

Mid-Atlantic Nutrition Conference:

- 2008-present Student Poster Competition Chair
- 2008 & 2014 Overall Program Chair

2003-present Equine Organizing Committee

Other:

2005-2009 Rutgers Extension Representative, Northeast Pasture Consortium

Leadership Committees—State

NJ Equine Advisory Board:

2015-2016 Past Chair (2-year term)

2013-2014 Chair (2-year term)

2011-2012 Vice Chair (2-year term)

2003-present Rutgers Delegate and Chair of Education Committee

NJ Horse Council:

2003-present Special Advisor to Board of Directors

Service to Rutgers University

School of Environmental and Biological Sciences (formerly Cook College):

2015-2016 Chair, Academic Forum

2012-2015 Secretary, Academic Forum

2012-2015 Member, Affirmative Action Committee

NJAES/Rutgers Cooperative Extension:

2015-2016 Member, Extension Specialist in Weed Science Search Committee

2008 Member, Extension Specialist in Forage and Pasture Search Committee

2004-2009 Member, 4-H Camp Faculty Advisory Council

2003-present Associate Director of Extension, Equine Science Center

Graduate School—New Brunswick:

2015-present Member, Institute for Food, Nutrition, and Health

Graduate Program in Endocrinology and Animal Biosciences

2016-present Admissions Committee member

2004-present Member

Graduate Program in Kinesiology and Applied Physiology

2014-present Founding Member (e.g., helped develop program by-laws and Exam format/guidelines)

Department of Animal Sciences:

2013-2014	Chair, Instructor Search Committee
2013 & 2018	Event Co-Organizer, NESA (<i>North East Student Affiliate of the American Society of Animal Science</i>)
2011-present	Member, Curriculum Committee
2009-present	Faculty Co-Advisor, NESA
2007-present	Undergraduate Student Advising, 153 total undergrads
2006	Poster Contest Judge, Cook College/NJAES Scientific Communications Awards
2005	Horse Judging Coordinator, Rutgers hosted NESA
2004-present	Faculty Advisor, RUPD Mounted Patrol
2004-2014	Faculty Advisor, Equine Science Club
2004-2011	Equine Member, Cook Campus Animal Care Faculty Advisory Committee
2004-2007	Member, Cook Campus Buildings and Grounds Committee
2004-2005	Faculty Floor Mentor, Residence Life

Grant Reviewer (with number reviewed in parentheses)

2014	<i>The National Science Centre, Poland, Life Science Grant Proposal (1)</i>
2013	<i>University of Kentucky, Kentucky Science & Engineering Foundation Grant (1)</i>
2009	<i>University of West Virginia, Faculty Senate Grant for Research and Scholarship (1)</i>
2008	<i>University of Guelph, Research Proposal Scientific Merit (1)</i>
2004-2007	<i>University of Maryland, MAES Grant (2)</i>

Scientific Journal Peer Reviews (with number reviewed in parentheses)

2016	<i>Antioxidants (1)</i>
2016	<i>PLOS ONE (1)</i>
2015	<i>Irish Veterinary Journal (1)</i>
2009-present	<i>Equine Veterinary Journal (10)</i>
2009-present	<i>Research in Veterinary Science (3)</i>
2008-present	<i>Comparative Exercise Physiology (Previously Equine and Comparative Exercise Physiology) (12)</i>
2007	<i>Stress: The International Journal on the Biology of Stress (1)</i>
2007-present	<i>Journal of Equine Veterinary Science (21)</i> -- Awarded a "Certificate of Outstanding Contribution in Reviewing" in recognition of the contributions made to the quality of the journal.
2007-2012	<i>The Veterinary Journal (5)</i>

- 2007 *South African Journal of Animal Science* (1)
- 2006 *Equine Exercise Physiology* (3)
- 2005-2007 *Equine and Comparative Exercise Physiology* (3)
- 2005 *American Journal of Clinical Nutrition* (1)
- 2004 *Journal of Veterinary Medicine* (1)
- 2003-present *Journal of Animal Science* (15)

Other Reviews (with number reviewed in parentheses)

- 2009-present Outside reviewer, Promotion and Tenure Packets (4)
- 2007 Virginia Cooperative Extension, Fact Sheet (1)
- 2007 Maryland Cooperative Extension, Fact Sheet (1)
- 2006-present eXtension ‘HorseQuest’ Community of Practice, Frequently Asked Questions reviewer
- 2006 Connecticut Cooperative Extension, Fact Sheet (2)

Service to Other Public Bodies

- 2016 Jersey Fresh International 3-Day Event Volunteer Award
- 2016 Eastern States Dressage and Combined Training Association (ESDCTA), Eventing Volunteer of the Year
- 2014 Future Farmers of America (NJ Chapter): Team Sales Competition Judge and Annual Luncheon Professional Attendee
- 2012-2013 Eastern States Dressage and Combined Training Association (ESDCTA): Eventing Member-at-Large
- 2010-2013 Pony Club Starter Horse Trials, Horse Park of New Jersey: Cross-Country Course Designer and Steward
- 2009-present Eastern States Dressage and Combined Training Association (ESDCTA): Eventing Committee Member and United States Eventing Association Delegate
- 2008 4-H NJ State Presentations Competition, Somerset and Burlington, NJ: Judge
- 2004-present Jersey Fresh CCI**/** 3-Day Event Volunteer and Organizing Committee member (since 2012), Allentown, NJ
- 2004 & 2012 New Jersey Equestrian of the Year competition: Judge
- 2004-2006 4-H Drill Team, Allentown, NJ: Judge
- 2004 Maryland State 4-H Horse Judging Contest, Timonium, MD: Judge