

Carey A. Williams

Title and Address:

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

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|------------------------|--|
| 2019-present | Rutgers, The State University of New Jersey , School of Environmental and Biological Sciences, Department of Animal Sciences, New Brunswick, NJ
<i>Extension Specialist</i> (equivalent to <i>Professor</i>), with tenure |
| 2009-2019 ¹ | Rutgers, The State University of New Jersey , School of Environmental and Biological Sciences, Department of Animal Sciences, New Brunswick, NJ
<i>Associate Extension Specialist</i> (equivalent to <i>Associate Professor</i>), with tenure |
| 2003-2009 | Rutgers, The State University of New Jersey , Cook College, Department of Extension Specialists, New Brunswick, NJ
<i>Assistant Extension Specialist</i> (equivalent to <i>Assistant Professor</i>) |
| 1999-2003 | Virginia Polytechnic Institute and State University , Middleburg Agricultural Research and Extension Center, Middleburg, VA
<i>Fellow in Equine Nutrition</i> |

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. The Rutgers School of Environmental and Biological Sciences was formerly named Cook College.

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 and the gut microbiome. 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 nutrition, health and microbiome.

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 not only horse nutrition but also 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 spring session (*Comparative Mammalian Anatomy*) and one fully online course in the spring (*Equine Nutrition*). During fall and spring semesters, I am also responsible for equine sections of the experienced-based courses *Animal Handling, Fitting and Exhibition* for students and supervisors. I also provide various guest lectures for other Animal Science courses. In addition, I serve as academic advisor for undergraduates and honors students and am on the department's curriculum committee as well as serve on two graduate faculties (Endocrinology and Animal Bioscience (EAB) and Kinesiology and Applied Physiology (KAP)).

HONORS AND AWARDS

- 2019 *American Feed Industry Association (AFIA) **Award for Equine Nutrition Research*** – This award is given every other year in combination with the Equine Science Society and is “...designed to stimulate research excellence in equine nutrition.”
- 2016 *New Jersey Association of 4-H Agents, **Educator of the Year Award*** – group 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***, group 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, **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 only)	First Author	Last Author	Co-Author	Total
Journal articles (refereed)	16	16	19	51
Book chapters	7	3	2	12
Conference proceedings (refereed)	3	1	1	5
Conference proceedings (non-refereed)	11	2	0	13
Extended abstracts (refereed)	14	8	4	26
Abstracts	12	37	9	58
Extension publications, newsletter articles, etc.	23	13	3	39
Popular press articles (as author)	58	3	0	61

Articles in Refereed Journals (* Williams undergraduate or graduate student)

1. *Weinert-Nelson, J. R., A. Biddle, and **C. A. Williams**. 2022. Metabolism and fecal microbiome of grazing horses managed in integrated warm- and cool-season grass rotational grazing systems. *Ani. Microbiome*. (in preparation).
2. *Weinert-Nelson, J. R., A. Biddle, and **C. A. Williams**. 2022. Fecal microbiome of horses transitioning between warm-season and cool-season grass pasture within integrated rotational grazing systems. *Ani. Microbiome*. (in preparation).
3. *Weinert-Nelson, J. R., W. Meyer, and **C. A. Williams**. 2022. Crabgrass as an equine pasture forage: impact of establishment method on yield, nutrient composition, and horse preference. *Transl. Anim. Sci.* (submitted).
4. *Weinert-Nelson, J. R., W. Meyer, and **C. A. Williams**. 2022. Diurnal variation in forage nutrient composition of mixed cool-season grass, crabgrass, and Bermudagrass pasture forage. *J. Equine Vet. Sci.* 110:1-6. doi: 10.1016/j.jevs.2021.103836
5. *Weinert-Nelson, J. R., W. Meyer, and **C. A. Williams**. 2021. Yield, nutritive composition, and horse condition in integrated crabgrass and cool-season grass rotational grazing pasture systems. *Transl. Anim. Sci.* 5:1-18. doi: 10.1093/tas/txab208

6. **Williams, C. A.,** L. B. Kenny*, J. R. Weinert*, K. Sullivan, W. Meyer, and M. G. Robson. 2020. Effects of twenty-seven months of rotational vs. continuous grazing on horses and pasture condition. *Transl. Anim. Sci.* 4:1-17. doi: 10.1093/tas/txaa084
7. *Weinert, J. R., J. Werner, and **C. A. Williams.** 2020. Validation and implementation of a chew-sensor based remote monitoring device as tool for equine grazing research. *J. Equine Vet. Sci.* 88:1-11. doi: 10.1016/j.jevs.2020.102971
8. **Williams, C. A.,** L. B. Kenny*, and A. O. Burk. 2019. Effects of grazing system, season, and forage carbohydrates on glucose and insulin dynamics of the grazing horse. *J. Anim. Sci.* 97:2541–2554. doi: 10.1093/jas/skz103
9. *Weinert, J. R. and **C. A. Williams.** 2018. Recovery of pasture forage production following winter rest in continuous and rotational horse grazing systems. *J. Equine Vet. Sci.* 70:32-37. doi: 10.1016/j.jevs.2018.06.017
10. *Kenny, L. B., D. Ward, M. Robson, and **C. A. Williams.** 2018. Technical note: Comparing four techniques for estimating desired grass species composition in horse pastures. *J. Anim. Sci.* 96:2219-2225. doi: 10.1093/jas/sky111
11. Nazarenko, Y., M. L. Westendorf, **C. A. Williams,** and G. Mainelis. 2018. The effects of bedding type in stalls and activity of horses on stall air quality. *J. Equine Vet. Sci.* 67:91-98. doi: 10.1016/j.jevs.2018.03.014
12. Splan, R., M. Spindler, K. Anderson, C. Skelly, M. Westendorf, **C. Williams,** L. Kenny*, and R. C. Bott-Knutson. 2018. Opportunities to address the transdisciplinary and global challenges of climate change in an equine science context. *N. Am. Colleges Teachers Ag. J.* 62(1):28-34.
13. 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. *Nat. Assoc. County Ag. Agents J.* 10(1):e-pub (<http://www.nacaa.com/journal/index.php?jid=708>).
14. 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
15. *Smarsh, D. N., and **C. A. Williams.** 2017. 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
16. *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
17. **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
18. 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
19. 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

20. 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
21. 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
22. 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
23. **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.
24. *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.
25. Westendorf, M. L., **C. Williams**, A. O. Burk, N. Trottier, K. Martinson, P. D. Siciliano, A. M. Swinker, E. A. Greene, and 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
26. 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
27. *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
28. **Williams, C. A.** 2010. Antioxidant supplementation to the exercising horse. *R. Bras. Zootec. (Revista Brasileira de Zootecnia) Supl.* 39:145-150.
29. **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
30. *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
31. *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
32. 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
33. 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
34. 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.

35. 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.
36. 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
37. 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
38. *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
39. *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
40. **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
41. **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
42. **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
43. 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
44. 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
45. 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.
46. **Williams, C. A.**, and S. A. Carlucci*. 2006. Oral vitamin E supplementation on oxidative stress, vitamin E and antioxidant status in intensely exercised horses. *Equine Vet. J. Suppl.* 36:617-621.
47. **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
48. **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
49. 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.

50. 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.
51. **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.
52. 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.
53. **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.
54. **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.

Book Chapters (* Williams undergraduate or graduate student)

1. Westendorf, M. L., **C. A. Williams**, S. Murphy, L. B. Kenny*, and M. Hashemi. 2019. Generation and Management of Manure from Horses and other Equids. In: *Animal Manure: Production, Characteristics, Environmental Concerns and Management*, edited by H. M. Waldrip, P. H. Pagliari, and Z. He. ASA-SSSA-CSSA, Special Publications, Madison, WI. pp. 145-163. doi:10.2134/asaspecpub67.c8
2. *Kenny, L. B., A. O. Burk, and **C. A. Williams**. 2019. Managing equine grazing for pasture productivity. In: *Horse Pasture Management*, edited by P. Sharpe. Academic Press, London, UK. pp. 141-155. doi: 10.1016/B978-0-12-812919-7.00009-3
3. *Kenny, L. B., M. Westendorf, and **C. A. Williams**. 2019. Managing manure, erosion, and water quality in and around horse pastures. In: *Horse Pasture Management*, edited by P. Sharpe. Academic Press, London, UK. pp. 245-259. doi: 10.1016/B978-0-12-812919-7.00014-7
4. 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.
5. **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.
6. **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.
7. **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.
8. **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.
9. **Williams, C. A.**, and 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.
10. 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.

11. **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.
12. **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 - Full Papers

Refereed:

1. Martinson, K. and **C. Williams**. 2020. How to select forages for equine athletes. Conf. Am. Assoc. Equine Pract. (AAEP). Las Vegas, NV (virtual due to COVID-19). 66:45-49.
2. **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.
3. 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.
4. **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.
5. **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.** 2019. Specialized dietary supplements for athletic horses. International Conference on Equid Husbandry, Lavras, Minas Gerais, Brazil. pp. 1-10.
2. **Williams, C. A.** 2017. Vitamin E requirements, supplements and disorders. Minnesota Nutrition Conference, Prior Lake, MN. 78:251-257.
3. **Williams, C. A.** 2016. Human diet fads and their effect on horse nutrition. Minnesota Nutrition Conference, Prior Lake, MN. 77:219-224.
4. **Williams, C. A.** 2013. Feeding the equine athlete to combat oxidative stress. Mid-Atlantic Nutr. Conf. Proc., Timonium, MD. 11:123-125.
5. **Williams, C. A.** 2011. Commonly fed herbs in equine nutrition. Calif. Anim. Nutr. Conf. Proc., Fresno, CA. pp. 109-117.
6. **Williams, C. A.** 2010. Antioxidant research and its application to feeding horses. 17th Kentucky Equine Research Nutr. Conf. Proc., Lexington, KY. pp. 17-22.
7. **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.
8. **Williams, C. A.** 2008. Antioxidants and their application to feeding horses. 26th Am. College Vet. Internal Med., San Antonio, TX. pp. 9-11.

9. **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.
10. 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.
11. 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.
12. **Williams, C. A.** 2006. Facts and Myths about Equine Nutrition and Supplements. Horses 2006 Conf. Proc., Ithaca, NY. pp. 56-61.
13. **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.
14. **Williams, C. A.** 2004. Antioxidant supplementation and oxidative stress in the exercising horse. 2nd Mid-Atlantic Nutr. Conf. Proc., Timonium, MD. pp. 195-205.

Conference Proceedings - Extended Abstracts (* Williams undergraduate or graduate student)

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*, and 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.
14. *Lee, J., and **C. A. Williams.** 2007. The effects of beta-carotene supplementation on vitamin levels of horses. *Equine Sci. Soc. Symp. Proc.* 20:54-55.
15. *DeWitt, J., E. D. Lamprecht*, and **C. A. Williams.** 2007. Nitric oxide concentration in plasma and synovial fluid of intensely exercising horses. *Equine Sci. Soc. Symp. Proc.* 20:64-65.
16. *Cruz, S., and **C. A. Williams.** 2007. The effects of a supplemental antioxidant mixture on exercising Standardbred mares. *Equine Sci. Soc. Symp. Proc.* 20:56-57.
17. Treiber, K. H., R. A. Carter, L. A. Gay, **C. A. Williams,** and R. J. Geor. 2007. Oxidative stress and inflammatory markers in laminitis-prone ponies. *Equine Sci. Soc. Symp. Proc.* 20:142-143.
18. **Williams, C. A.,** M. B. Gordon, C. Betros, S. Carlucci, and K. McKeever. 2005. Apoptosis and antioxidant status after intense exercise in old vs. young horses before and after exercise training. *Equine Sci. Soc. Symp. Proc.* 19:121-122.
19. **Williams, C. A.,** and K. Malinowski. 2005. A unique web site for equine youth and extension in New Jersey. *Equine Sci. Soc. Symp. Proc.* 19:247-248.
20. **Williams, C. A.,** and D. Foulk. 2005. Agricultural management practices for commercial equine operations; a New Jersey state publication. *Equine Sci. Soc. Symp. Proc.* 19:270-271.
21. **Williams, C. A.,** D. S. Kronfeld, T. M. Hess, J. N. Waldron, K. E. Saker, R. M. Hoffman, and P. A. Harris. 2003. Comparison of oxidative stress in horses for three 80-km endurance rides. *Equine Nutr. Phys. Soc. Proc.* 18:47-52.
22. **Williams, C. A.,** D. S. Kronfeld, T. M. Hess, J. E. Waldron, K. E. Saker, R. M. Hoffman, and P. A. Harris. 2003. Vitamin E intake and oxidative stress in endurance horses. *Equine Nutr. Phys. Soc. Proc.* 18:134-135.
23. Hess, T. M., K. M. Greiwe-Crandell, D.S. Kronfeld, J. N. Waldron, **C. A. Williams,** M. A. Lopes, R.M. Hoffman, L. Gay, D. Ward, and P.A. Harris. 2003. Potassium-free electrolytes and calcium supplementation in an endurance race. *Equine Nutr. Phys. Soc. Proc.* 18:148-149.
24. **Williams, C. A.,** D. S. Kronfeld, W. B. Staniar, and P. A. Harris. 2001. Glucose and insulin responses in Thoroughbred mares are influenced by reproductive stage and diet. *Equine Nutr. Phys. Soc. Proc.* 17:178-179.
25. Ordakowski, A.L., D.S. Kronfeld, **C. A. Williams,** and L.S. Gay. 2001. Folate status during lactation and growth in the Thoroughbred. *Equine Nutr. Phys. Soc. Proc.* 17:134-135.
26. Staniar, W. B., R. M. Akers, **C. A. Williams,** D. S. Kronfeld, and P. A. Harris. 2001. Plasma insulin-like growth factor-I (IGF-I) in growing Thoroughbred foals fed a fat and fiber versus a sugar and starch supplement. *Equine Nutr. Phys. Soc. Proc.* 17:176-177.

Conference Proceedings – Abstracts (* Williams undergraduate or graduate student)

1. *Weinert, J. R., W. Meyer, and **C. A. Williams**. 2021. Pasture Production in Integrated Warm- and Cool-Season Grass Horse Rotational Pasture Systems. J. Equine Vet. Sci. 100:1035847. Abstract #84.
2. *Weinert, J. R., A. S. Biddle, and **C. A. Williams**. 2021. Exploring Relationships Between Forage Nutrients and the Equine Fecal Microbiome. J. Equine Vet. Sci. 100:103512. Abstract #49.
3. *Weinert, J. R., A. S. Biddle, and **C. A. Williams**. 2021. Integrated Warm- and Cool-Season Grass Rotational Grazing Management and the Equine Fecal Microbiome. J. Equine Vet. Sci. 100:103510. Abstract #47.
4. *Weinert, J. R., A. S. Biddle, and **C. A. Williams**. 2020. Fecal microbiome of horses grazing integrated warm- and cool-season grass rotational pasture systems. J. Anim. Sci. 98:E-Suppl. 1.
5. **Williams, C. A.**, K. Sullivan, and L. B. Kenny*. 2019. Effects of twenty-seven months of rotational vs. continuous grazing on horse and pasture condition. J. Equine Vet. Sci. 76:102-103. Abstract #139.
6. *Weinert, J. and **C. A. Williams**. 2019. Glucose and insulin responses of horses grazing integrated warm- and cool-season grass rotational pasture systems. J. Equine Vet. Sci. 76:103. Abstract #140.
7. *Weinert, J., J. Werner, and **C. A. Williams**. 2019. Implementation of a chew-sensor based technology as a tool for equine grazing research. J. Equine Vet. Sci. 76:91-92. Abstract #114.
8. Burk, A. O., F. M. Andrews, C. C. Liu, W. B. Staniar, S. M. Reuss, and **C. A. Williams**. 2018. Gastric ulcers in eventing horses is affected by exercise intensity and housing. Proc. Int. Conf. Equine Exer. Physiol. Lorne, Australia. Comp. Ex. Physiol. 11 (Supp. 1):S35. doi:10.3920/CEP2018.S1
9. *Powlowski, C., J. Weinert*, and **C. A. Williams**. 2018. Forage recovery in rotational vs continuous pasture systems after intensive horse grazing. Mid-Atlantic Nutr. Conf. Proc. 16 (<https://ansc.umd.edu/extension/mid-atlantic-nutrition-conference/past-proceedings>).
10. Marlin, D., B. Nielsen, C. Robison, and **C. Williams**. 2017. Owner reported experiences of feeding turmeric to horses. J. Equine Vet. Sci. 52:88. Abstract #111.
11. **Williams, C. A.**, L. B. Kenny*, and A. O. Burk. 2017. Effects of grazing system and season on glucose and insulin dynamics of the grazing horse. J. Equine Vet. Sci. 52:87. Abstract #108.
12. *Rizzo, E., A. O. Burk, and **C. A. Williams**. 2017. The effects of continuous vs. rotational grazing on forage soluble carbohydrate content and blood glucose and insulin concentration in horses. Mid-Atlantic Nutr. Conf. Proc. 15 (<https://ansc.umd.edu/extension/mid-atlantic-nutrition-conference/past-proceedings>).
13. *Le, A., L. B. Kenny*, A. O. Burk, and **C. A. Williams**. 2016. Impact of grazing system on forage carbohydrates and horse metabolism. Mid-Atlantic Nutr. Conf. Proc. 14 (<https://ansc.umd.edu/extension/mid-atlantic-nutrition-conference/past-proceedings>).
14. **Williams, C. A.** 2015. The effect of oxidative stress during exercise in the horse. J. Anim. Sci. J. Anim. Sci. 93(E-Suppl. s3):535.
15. *Kenny, L. and **C. A. Williams**. 2015. Comparing four techniques for estimating species composition in horse pastures. Mid-Atlantic Nutr. Conf. Proc. 13 (<https://ansc.umd.edu/extension/mid-atlantic-nutrition-conference/past-proceedings>).
16. *Seeds, C., L. Kenny*, and **C. A. Williams**. 2015. The effects of continuous vs. rotational grazing systems on horse condition and plant performance. Mid-Atlantic Nutr. Conf. Proc. 13 (<https://ansc.umd.edu/extension/mid-atlantic-nutrition-conference/past-proceedings>).

17. **Williams, C. A.,** L. B. Kenny*, and H. Anderson. 2015. Hydration, feed intake, and fecal output in horses fed hay biscuits, blocks, and long-stem hay. *J. Equine Vet. Sci.* 35:428-429. Abstract #106.
18. *Kenny, L. B., A. O. Burk, and **C. A. Williams.** 2015. Effects of rotational versus continuous grazing on horse condition and plant performance. *J. Equine Vet. Sci.* 35:420. Abstract #85.
19. *Smarsh, D. N., and **C. A. Williams.** 2014. Effects of age and exercise training on skeletal muscle and blood in mature and yearling horses. *Proc. Int. Conf. Equine Exer. Physiol.* Chester, England. *Equine Vet. J.* S46:10.
20. *Smarsh, D. N., and **C. A. Williams.** 2013. The effects of acute exercise on oxidative stress in the skeletal muscle and blood of yearling and mature horses. *J. Equine Vet. Sci.* 33:324.
21. *Smarsh, D. N., and **C. A. Williams.** 2013. The effect of age and exercise training on oxidative stress in equine skeletal muscle and blood. *Mid-Atlantic Nutr. Conf. Proc.* 11:166.
22. *Stafford, B., and **C. A. Williams.** 2013. The effects of gastric ulcers on Thoroughbred racehorses. *Mid-Atlantic Nutr. Conf. Proc.* 11:168.
23. *Smarsh, D. N., N. Liburt, S. Eastman*, and **C. A. Williams.** 2012. Oxidative stress and antioxidant status in equine skeletal muscle and blood after intense exercise. *Mid-Atlantic Nutr. Conf. Proc.* 10:131.
24. *Eastman, S., D. N. Smarsh*, and **C. A. Williams.** 2012. Lipid peroxidation in blood and skeletal muscle after intense exercise in horses. *Mid-Atlantic Nutr. Conf. Proc.* 10:133.
25. *Hanke, J., E. D. Lamprecht*, M. Fugaro, S. Hulat, and **C. A. Williams.** 2011. Body condition improvements in underweight horses fed senior horse feed. *Mid-Atlantic Nutr. Conf. Proc.* 9:182.
26. *Urban, C. A., M. Westendorf, and **C. A. Williams.** 2011. Dietary protein levels affect nitrogen excretion in horses. *Mid-Atlantic Nutr. Conf. Proc.* 9:184.
27. *Smarsh, D., N. Liburt, J. Streltsova, N. Liburt, K. McKeever, and **C. A. Williams.** 2010. Nutraceutical extracts affect oxidative stress and antioxidant status in intensely exercising horses. *J. Anim. Sci.* 88(E-Suppl. 2):641.
28. *Leahy, E. R., A. O. Burk, and **C. A. Williams.** 2010. Nutrition-related problems facing elite level three-day event horses. *Mid-Atlantic Nutr. Conf. Proc.* 8:181.
29. *Smarsh, D., N. Liburt, J. Streltsova, N. Liburt, K. McKeever, and **C. A. Williams.** 2010. Nutraceutical extracts affect oxidative stress and antioxidant status in intensely exercising horses. *Mid-Atlantic Nutr. Conf. Proc.* 8:176.
30. **Williams, C.A.,** K. Martinson, and A. Swinker. 2009. Developing Forage Based Online Learning Lessons for Horse Owners. *eXtension Annual Conference Proc., St. Louis, MO.* pp. 37.
31. *Roessner, H.A., E. D. Lamprecht*, K. L. Lloyd, and **C. A. Williams.** 2009. Effect of Microhydrin® on lactate response in exercising mares. *Mid-Atlantic Nutr. Conf. Proc.* 7:198.
32. *Lamprecht, E. D., C. A. Bagnell, and **C. A. Williams.** 2009. Effect of exercise and superoxide dismutase on systemic antioxidants and nitric oxide in horses. *Mid-Atlantic Nutr. Conf. Proc.* 7:193.
33. Karavidas, M., S. Parks, G. Tiu, L. Lewis, A. Interian, **C. Williams,** and A. Tobia. 2009. A program design of an experiential course to teach empathic communication skills. 117th Annual Convention Am. Psychol. Assoc. (August 6-9), Toronto, Canada.
34. **Williams, C. A.,** E. D. Lamprecht*, and A. O. Burk. 2008. Inflammation and vitamin E intake in horses during a CCI**/CCI*** three-day event. *J. Anim. Sci.* 86(E-Suppl. 2):375.
35. *Lamprecht, E. D., C. A. Bagnell, and **C. A. Williams.** 2008. Effect of exercise and superoxide dismutase on systemic antioxidants and nitric oxide in horses. *J. Anim. Sci.* 86(E-Suppl. 2):433-434.

36. **Williams, C. A.**, B. A. Parise, and A. O. Burk. 2008. Elite three-day event horses are over-supplemented during competition. *Am. Assoc. Vet. Nutr. Proc.* 8:5.
37. *Fiorellino, N., and **C. A. Williams**. 2008. Different forms of vitamin E supplementation and their absorption in horses. *Mid-Atlantic Nutr. Conf. Proc.* 6:222.
38. *Gladney, L. B., J. M. Lucy*, E. D. Lamprecht*, and **C.A., Williams**. 2008. The effects of supplemental superoxide dismutase on performance and oxidative stress in exercising horses. *Mid-Atlantic Nutr. Conf. Proc.* 6:223
39. *Lucy, J. M., L. B. Gladney*, E. D. Lamprecht*, and **C. A. Williams**. 2008. The Effect of supplemental superoxide dismutase on plasma nitric oxide in exercising horses. *Mid-Atlantic Nutr. Conf. Proc.* 6:225.
40. *Parise, B. A., and **C. A. Williams**. 2008. Supplement use and nutrient intake in elite three-day event horses. *Mid-Atlantic Nutr. Conf. Proc.* 6:226.
41. *Shekk, V., E. D. Lamprecht*, and **C. A. Williams**. 2008. The effects of intense exercise on plasma nitric oxide in horses performing in a CCI** and CCI*** three-day event. *Mid-Atlantic Nutr. Conf. Proc.* 6:228.
42. Pellegrino, J., M. Epstein, M. Senso, D. Freidenreich, **C. A. Williams**, K. H. McKeever, C. J. McCune, and S. M. Arent. 2007. The effects of a post-workout nutraceutical drink on power, inflammation, muscle breakdown, and oxidative stress in college football players. *J. St. Cond. Res.* 21(Suppl. 5):e41.
43. Arent, S. M., J. Pellegrino, K. H. McKeever, M. Epstein, M. Senso, D. Freidenreich, **C. A. Williams**, and R. Monaco. 2007. Nutritional supplementation, body composition, performance, and hormonal responses in division I college football players. *Med. Sci. Sports Ex.* 39(Suppl. 5):S361.
44. **Williams, C. A.**, and E. D. Lamprecht*. 2006. Herbs and other functional foods in equine nutrition. *Proc. Eur. Assoc. Anim. Prod. Antalya, Turkey.* pp. 285.
45. Mickel, R. C., D. L. Foulk, D. Kluchinski, W. Sciarappa, **C. Williams**, and M. Westendorf. 2006. Mid-Atlantic equine pasture initiative. *Nat. Assoc. County Ag. Agents Proc.* 91:159.
46. Arent, S. M., J. Pellegrino, D. DiFabio, J. Greenwood, and **C. A. Williams**. 2005. Nutritional supplementation in male college soccer players: effects on performance and oxidative stress. *J. St. Cond. Res.* 19(Suppl. 4):e4.
47. Arent, S. M., J. Pellegrino, D. DiFabio, J. Greenwood, and **C. A. Williams**. 2005. The impact of nutritional supplementation on performance and muscle breakdown in collegiate soccer players. *Med. Sci. Sports Ex.* 37(Suppl. 5):S44.
48. Hess T. M., K. Treiber, D. S. Kronfeld, J. N. Waldron, **C. A. Williams**, M. S. Freire, A. M. G. B. Silva, L. S. Gay, D. A. Ward, and P. A. Harris. 2004. Potassium supplementation affects plasma [K+] during an 80 km endurance test on the treadmill. *J. Anim. Sci.* 82(Suppl. 1):97.
49. **Williams, C. A.**, R. M. Hoffman, D. S. Kronfeld, T. M. Hess, J. E. Waldron, R. K. Splan, K. E. Saker, and P. A. Harris. 2002. Oxidative stress and antioxidant supplementation in horses during a competitive endurance ride. *J. Anim. Sci.* 80(Suppl. 1):171.
50. Hoffman, R. M., T. M. Hess, **C. A. Williams**, D. S. Kronfeld, K. M. Greiwe-Crandell, J. E. Waldron, P. M. Grahm-Thiers, L. S. Gay, K. E. Saker, and P. A. Harris. 2002. Dietary grain and endurance exercise. *J. Anim. Sci.* 80(Suppl. 1):171.
51. Hess, T. M., R. M. Hoffman, J. E. Waldron, P. M. Grahm-Thiers, **C. A. Williams**, K. M. Greiwe-Crandell, D.S. Kronfeld, and P.A. Harris. 2002. Endurance exercise: is potassium supplementation beneficial? *J. Anim. Sci.* 80(Suppl. 1):172.

52. Ordakowski, A. L., D. S. Kronfeld, **C. A. Williams**, J.L Holland, and L.S. Gay. 2002. Pyrimethamine and sulfadiazine administration lowers plasma folate and increases plasma homocysteine in horses. J. Anim. Sci. 80(Suppl. 1):156.
53. **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. Waltham Int. Symp. Proc. pp. 19.
54. **Williams, C. A.**, D. S. Kronfeld, W. B. Staniar, and P. A. Harris. 2000. Glycemic response in Thoroughbred mares fed a high fat and fiber or high sugar and starch pasture supplement. J. Anim. Sci. 78(Suppl. 1):149.
55. Staniar, W. B., **C. A. Williams**, D. S. Kronfeld, and P.A. Harris. 2000. Glycemic response of mares fed a meal of a typical pelleted horse feed. J. An. Sci. 78(Suppl. 1):150.

Extension Fact Sheets/Bulletins (* Williams undergraduate or graduate student)

1. **Williams, C. A.** 2022. Does My Horse Need Supplements? Rutgers Cooperative Extension. Exxx. New Brunswick, NJ. pp. x-x. (under review).
2. *Weinert-Nelson, J., C. Dolan*, and **C. Williams**. 2022. Non-structural Carbohydrates and Equine Warm-season Grass Pastures. Rutgers Cooperative Extension. FS1340. New Brunswick, NJ. pp. 1-6.
3. *Weinert-Nelson, J., and **C. Williams**. 2021. Crabgrass Integration in New Jersey Horse Pastures. Rutgers Cooperative Extension. FS1339. New Brunswick, NJ. pp. 1-5.
4. **Williams, C. A.**, and D. M. Fonseca. 2020. Questions Regarding Eastern Equine Encephalitis and Horses. Rutgers Cooperative Extension. FS737 Updated. New Brunswick, NJ. pp 1-4.
5. **Williams, C. A.**, and A. Toledo. 2020. Ticks, Lyme Disease, and other Tick-Borne Diseases in Horses. Rutgers Cooperative Extension. FS1323. New Brunswick, NJ. pp. 1-5.
6. Westendorf, M., M. Conlin, E. Emmanouilidis, and **C. Williams**. 2017. Farm Animal Dentition – What teeth can tell you. Rutgers Cooperative Extension. E351. New Brunswick, NJ. pp. 1-8.
7. **Williams, C. A.**, and N. R. Liburt. 2017. Tying-up in Horses. Rutgers Cooperative Extension. FS1277. New Brunswick, NJ. pp. 1-4.
8. *Fojtik, A. and **C. A. Williams**. 2017. A Guide to More Productive and Nutrient Dense Horse Pastures. Rutgers Cooperative Extension. FS1271. New Brunswick, NJ. pp. 1-4.
9. Liburt, N. R., K. M. Malinowski, and **C. A. Williams**. 2016. Measuring Temperature, Pulse, & Respiration (TPR): What's Normal for My Horse? Rutgers Cooperative Extension. FS1262. New Brunswick, NJ. pp. 1-2.
10. Westendorf, M. L., **C. A. Williams**, and R. Mickel. 2016. Recommended Guidelines for Home Animal Agriculture in Residential Areas. Rutgers Cooperative Extension. E353. New Brunswick, NJ. pp. 1-6.
11. Westendorf, M. L., and **C. A. Williams**. 2014. Can Animal Feeding Practices Influence Nutrient Runoff? Rutgers Cooperative Extension. FS1191. New Brunswick, NJ. pp. 1-2.
12. Westendorf, M. L., and **C. A. Williams**. 2013. Managing Manure on Horse Farms: Exercise or Sacrifice Lots for Horses. Rutgers Cooperative Extension. FS1190. New Brunswick, NJ. pp. 1-2.
13. Bamka, W. J., B. M. Barbour, **C. A. Williams**, and L. Gladney*. 2013. Poisonous Weeds in Horse Pastures. FS938. New Brunswick, NJ. pp. 1-6.
14. Bamka, W. J., **C. A. Williams**, L. Gladney*, and J. R. Justin. 2012. Establishing and Managing Horse Pastures. FS368. New Brunswick, NJ. pp. 1-4.

15. **Williams, C. A.**, and S. L. Ralston. 2011. Winter Feeding for Horses. Rutgers Cooperative Extension. FS1143. New Brunswick, NJ. pp. 1-4.
16. Ralston, S. L., and **C. A. Williams**. 2011. Winter Care for Horses. Rutgers Cooperative Extension. FS1142. New Brunswick, NJ. pp. 1-3.
17. Liburt, N. R., and **C. A. Williams**. 2008. To Blanket or Not to Blanket? Rutgers Cooperative Extension. FS1081. New Brunswick, NJ. pp. 1-2.
18. **Williams, C. A.**, L. E. Atherly*, and J. D. Hirsch*. 2007. Antioxidants and Your Horse. Rutgers Cooperative Extension. FS1065. New Brunswick, NJ. pp. 1-4.
19. Ralston, S. L., and **C. A. Williams**. 2007. Metabolic Problems in the Horse: Sorting out the Diagnosis. Rutgers Cooperative Extension. FS1067. New Brunswick, NJ. pp. 1-2.
20. Westendorf, M. L., and **C. A. Williams**. 2007. Nutrient Management on Livestock Farms: Tips for Feeding. Rutgers Cooperative Extension. FS1064. New Brunswick, NJ. pp. 1-4.
21. Margentino, M. R., K. Malinowski, and **C. A. Williams**. 2007. Horse Trailer Maintenance and Trailering Safety. Rutgers Cooperative Extension. FS607. New Brunswick, NJ. pp. 1-4.
22. **Williams, C. A.** 2005. Are you 'Stressing Out' your horse? Rutgers Cooperative Research and Extension. FS656. New Brunswick, NJ. pp. 1-4.
23. **Williams, C. A.**, and J. Elishans. 2005. Trail Riding Etiquette for Horse Enthusiasts. Rutgers Cooperative Research and Extension. FS370. New Brunswick, NJ. pp. 1-4.
24. **Williams, C. A.** 2004. The Basics of Equine Nutrition. Rutgers Cooperative Extension. FS038. New Brunswick, NJ. pp. 1-4.
25. **Williams, C. A.** 2004. The Basics of Equine Behavior. Rutgers Cooperative Extension. FS525. New Brunswick, NJ. pp. 1-4.
26. **Williams, C. A.**, W. Crans, and J. Gruener. 2004. West Nile Virus in Horses: Frequently Asked Questions. Rutgers Cooperative Extension. FS526. New Brunswick, NJ. pp. 1-4.

Articles in Extension Newsletters

1. **Williams, C. A.** and L. B. Gladney. 2011. Parasites in pasture. In: Equine Essentials, edited by **C. A. Williams**, W. J. Bamka, S. J. Komar, R. Mickel, W. Sciarappa, and J. S. Carleo. Rutgers Cooperative Extension. Summer issue, p. 2.
2. **Williams, C. A.** 2010. What is alsike clover, and is it toxic to horses? In: Equine Essentials, edited by **C. A. Williams**, W. J. Bamka, S. J. Komar, R. Mickel, W. Sciarappa, and J. S. Carleo. Rutgers Cooperative Extension. October issue, p. 1.
3. **Williams, C. A.** 2010. Rutgers equine feed management project. In: Equine Essentials, edited by **C. A. Williams**, W. J. Bamka, S. J. Komar, R. Mickel, W. Sciarappa, and J. S. Carleo. Rutgers Cooperative Extension. October issue, p. 2.
4. **Williams, C. A.** 2009. Nutrient management on horse farms: Tips for feeding. In: Equine Essentials, edited by **C. A. Williams**, W. J. Bamka, S. J. Komar, R. Mickel, W. Sciarappa, and J. S. Carleo. Rutgers Cooperative Extension. November issue, p. 4.
5. **Williams, C. A.** 2009. Decreasing transport stress. In: Equine Essentials, edited by **C. A. Williams**, W. J. Bamka, S. J. Komar, R. Mickel, W. Sciarappa, and J. S. Carleo. Rutgers Cooperative Extension. May issue, p. 2.

6. **Williams, C. A.** 2009. Are you stressing your horse out? In: Equine Management Tips, edited by C. Smith. Virginia Equine Extension, Warren County. Spring issue, pp. 1-4.
7. **Williams, C. A.** 2008. Best management practices at Rutgers Ryders Lane Farm. In: Equine Essentials, edited by **C. A. Williams**, W. J. Bamka, S. J. Komar, R. Mickel, W. Sciarappa, and J. S. Carleo. Rutgers Cooperative Extension. December issue. p. 2.
8. **Williams, C. A.** 2008. Supplements, supplements, so many supplements! In: Equine Essentials, edited by **C. A. Williams**, W. J. Bamka, S. J. Komar, R. Mickel, W. Sciarappa, and J. S. Carleo. Rutgers Cooperative Extension. August issue, p. 4.
9. **Williams, C. A.** 2008. Adapting a horse to pasture. In: Equine Essentials, edited by **C. A. Williams**, W. J. Bamka, S. J. Komar, R. Mickel, W. Sciarappa, and J. S. Carleo. Rutgers Cooperative Extension. May issue, p. 2.
10. **Williams, C. A.** 2008. Winter feeding. In: Equine Essentials, edited by **C. A. Williams**, W. J. Bamka, S. J. Komar, R. Mickel, W. Sciarappa, and J. S. Carleo. Rutgers Cooperative Extension. January issue, pp. 1-2.
11. **Williams, C. A.**, and E. D. Lamprecht. 2007. The latest research...Some commonly fed herbs and other functional foods in equine nutrition: A review. In: Virginia Equine Extension, Northern District, edited by S. Porr. September issue, p. 2.
12. **Williams, C. A.** 2006. Winter feeding n' supplements. In: Equine Line, edited by A. Reith. Cornell Cooperative Extension. January-February issue, pp. 2-3.

Other Extension Publications

1. Brumfield, R. G., L. B. Kenny, A. Lippett-Faczak, **C. A. Williams**. 2013. Equine Business Planning Workbook. As part of the USDA Northeast Sustainable Agriculture Research and Extension (SARE) program "Improving the Sustainability of the Horse Industry through Equine-Related Business Planning".

Articles in Popular Press Magazines

As Author:

1. **Williams, C. A.** March 2021-present. The same newspaper decreased their distribution; therefore, my column went to every other month. In: *New Jersey Farmer*.
2. **Williams, C. A.** June 2016-March 2021. Regular monthly column, 1st of each month on horse related topics (i.e. nutrition, management, behavior, hot topics, etc.). In: *New Jersey Farmer*. Approximately 66 total column articles.
3. **Williams, C. A.**, and A. Burk. 2018. "The event horse gastrointestinal health survey: What did we learn?" In: *Eventing USA*. May/June. pp. 50-52.
4. **Williams, C. A.** and J. Elsishans. 2017. "Equine etiquette: Practice courtesy and safety while trail riding". In: *Out Here Magazine*. March.
5. **Williams, C. A.** 2015. Winter Horse Feeding. In: *New Jersey Farmer*. November 1. pp. 6 & 11.
6. **Williams, C. A.** 2015. Ask the Expert: Natural feeding, is it recommended? In: *Dressage Today*. May. pp. 75-76.
7. **Williams, C. A.** 2013. Equine Consultants: Time for an oil change? In: *Equus*. Cruz Bay Publishing, El Segundo, CA. September. pp. 432-433.
8. **Williams, C. A.** 2012. Equine Consultants: When horses need blankets. In: *Equus*. Cruz Bay Publishing, El Segundo, CA. January. pp. 65-66.

9. **Williams, C. A.** 2009. How do I increase his appetite? In: *Practical Horseman*. Primedia Enthusiast Publications, New York, NY. May. pp. 62-64.
10. **Williams, C. A.** 2008. Winter Feeding and Supplements. In: *Pennsylvania Equestrian*. Shertzer/Lawson Marketing & Publishing, Lancaster, PA. 15(10):26-29.
11. **Williams, C. A.** 2007. Winter Nutrition. In: *Idaho/Eastern Oregon Equine Magazine*. Baker Publishing Co., Baker City, OR. Winter/Spring. p. 4.
12. Pascoe, E., and **C. A. Williams**. 2007. Poison in the Pasture. In: *Practical Horseman*. Primedia Enthusiast Publications, New York, NY. March. pp. 66-72.
13. **Williams, C. A.** 2006. Wrestling with Mud. In: *Horse Illustrated*. BowTie, Irvine, CA. February. p. 26.
14. **Williams, C. A.**, and D. Foulk. 2005. Healthy pastures. In: *Horse Illustrated*. BowTie Magazines, Irvine, CA. July. p. 38.
15. **Williams, C. A.** 2004. Studies show supplementation with antioxidants may reduce oxidative stress in the exercising horse. In: *Feedstuffs*. Miller Publishing Co., Carol Stream, IL. 76(13):11-14.

As Part of Interview:

1. Oke, S. 2020. Popular Dietary Products for Your Horse's Palate (and Other Body Systems). In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY.
2. Frank, K. 2018. Best-suited Supplements. In: *Western Horseman*. Morris Communications Company, Augusta, GA. April. pp. 59-63.
3. Thomas, H. S. 2017. Vitamin E: If your horse's diet is based on hay, he may not be getting enough of this essential nutrient. In: *Equus*. Cruz Bay Publishing, El Segundo, CA. August.
4. Rice, D. 2017. Adding Fuel to the Fire? What and how you're feeding your horse could be causing undesirable behavior. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. June. pp. 35-38.
5. Steffanus, D. 2017. Too Much of a Good Thing: When Extra Nutrients Become Harmful To Horses. In: *Paulick Report*. Blenheim Publishing, LLC, Lexington, KY. February. online.
6. Flietner, M. B., 2016. Managing Toxic Trees on Horse Farms. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. April. online.
7. Conrad, S. E., 2015. Horse Feeding Basics: Learn how to properly craft your horse's diet. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. January. pp. 35-38.
8. Thomas, H. S. 2014. Storing Toxic Substances in Stables. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. April. pp. 38-40.
9. Westley, L. J., 2013. Blanketing Basics. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. December. pp. 44-46.
10. Baril, K. E. 2012. Old friends: Keeping our senior horses healthy. In: *Equus*. Cruz Bay Publishing, El Segundo, CA. May. pp. 61-67.
11. Baril, K. E. 2012. Winning the War on Mosquitoes. In: *Equus*. Cruz Bay Publishing, El Segundo, CA. February. pp. 58-66.
12. Barakat, C. 2011. Do Eventing Horses need a Special Menu? In: *Equus*. Cruz Bay Publishing, El Segundo, CA. August. p. 12.

13. Mendik, N. D. 2011. Sweet Slumber: An inside look at horses and their sleep habits. In: *Equine Journal*. July, pp. 120-126.
14. Rosenthal, M. 2010. Individualized Hay Feeding Program Best for Horses. In: *theHorse.com, Your Guide to Equine Health Care*. (<http://www.thehorse.com/articles/26516/individualized-hay-feeding-program-best-for-horses>). December.
15. Oke, S. 2010. Antioxidants Beneficial If Not Overdone. In: *theHorse.com, Your Guide to Equine Health Care*. (<http://www.thehorse.com/articles/25524/antioxidants-beneficial-if-not-overdone>). May.
16. Raia, P. 2009. Weighty Issues. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. December. pp. 45-52.
17. Raia, P. 2009. Keeping Weekend Warriors Fit. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. July. pp. 24-28.
18. Putney, J. B. 2009. Feeding for the Ages. In: *The Blood Horse*. Blood-Horse Publications, Lexington, KY. September. pp. 3388-3393.
19. King, M. 2008. Winter Workouts. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. December. pp. 59-66.
20. Kane, E. 2008. Stallion nutrition. In: *Washington Thoroughbred*. November. pp. 45-47.
21. Oke, S. 2008. ACVIM Conference Highlights. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. October. pp. 33-38.
22. King, M. 2008. Hot Weather Trailering Tips. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. July. pp. 43-46.
23. Oke, S. 2008. Researchers caution against high doses of vitamin E. In: *theHorse.com, Your Guide to Equine Health Care*. (<http://www.thehorse.com/articles/21400/researcher-cautions-against-high-doses-of-vitamin-e>). June.
24. Kane, E. 2008. Nutrition's role in stallion fertility. In: *DVM360.com* (veterinarynews.dvm360.com/dvm). June.
25. Oke, S. 2008. Understanding feeds for the busy owner. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. May. pp. 61-65.
26. Oke, S. 2008. Biotin: Does it Work? In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. March. pp. 70-76.
27. Oke, S. 2007. Study: prebiotics might help prevent digestive upset. In: *theHorse.com, Your Guide to Equine Health Care*. (<http://www.thehorse.com/articles/20086/study-prebiotics-might-help-prevent-digestive-upset>). November.
28. Munniksmma, L. 2007. Holly Jolly Horse Treats. In: *Horsechannel.com, the Website for Horse Lovers*. (www.horsechannel.com/). December.
29. King, M. 2007. Vets' Top 9 Questions about Equine Nutrition. In: *Veterinary Practice News*. BowTie, Irvine, CA. October. pp. 106-113.
30. Oke, S. 2007. Pros and Cons of Equine Herbal Supplements. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. October. p.18.
31. King, M. 2007. Winding Down. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. October. pp. 55-64.

32. Stephens, S. 2006. They Are What They Eat. In: *Stable Management*. Beardsley Publishing Corp., Woodbury, CT. October. pp. 10-14.
33. King, M. 2006. Immunity through Nutrition. In: *The Blood Horse*. Blood-Horse Publications, Lexington, KY. March. pp. 1532-1537.
34. 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. p. 12.
35. 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.
36. Anderson, M. 2006. Keeping it Green. In: *Stable Management*. Beardsley Publishing Corp., Woodbury, CT. February. pp. 34-36.
37. King, M. 2006. Mind over Matter. In: *Horses USA*. BowTie Magazines, Irvine, CA. pp. 17-23.
38. King, M. 2005. Winter Nutrition. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. December. pp. 69-75.
39. McFarland, C. 2005. Time for Horseplay. In: *Thoroughbred Times*. Thoroughbred Times Co., Lexington, KY. August. pp. 21-23.
40. King, M. 2005. Working with a Nutritionist. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. September. pp. 73-78.
41. King, M. 2005. Dangers of vitamin E. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. January. p. 20.
42. King, M. 2005. Immunity through Nutrition. In: *The Horse Magazine*. Blood-Horse Publications, Lexington, KY. January. pp. 55-60.
43. 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 (International)
Invited Addresses	29 (8)
Oral Research Symposia	26 (6)
Other Presentations/Demonstrations	29
Other Web-based Media	53

Invited Addresses

- 2022 *Hambletonian Veterinary Continuing Education Seminar, "Nutrition you can use in your practice,"* East Rutherford, NJ. (Up coming August 2022).
- 2020 *Exposición Nacional Equina Fedequinas, "Vitamins / Minerals: Importance on Equine Performance",* Headquarters Asdesilla, Rionegro Antioquia, Colombia, South America.

- 2020 *Exposición Nacional Equina Fedequinas*, “The Effects of Fat on Performance Horses”, Headquarters Asdesilla, Rionegro Antioquia, Colombia, South America
- 2019 *EponaMind Educational Event*, “Grazing/Forages: Nutritional Rewards and Laminitis Risks”, Paso Robles, CA.
- 2019 *Quebec Veterinary Conference*, “Grazing/Forage: Nutritional Rewards and Laminitis Risks”, Montreal, Quebec, Canada.
- 2019 *Quebec Veterinary Conference*, “Equine Nutrition you can use in your Practice”, Montreal, Quebec, Canada.
- 2019 *International Conference of Equid Husbandry*, “Specialized dietary supplements (for Athletic Horses)”, Lavras, Minas Gerais, Brazil, South America.
- 2018 *United States Eventing Association, Area II Annual Meeting*, “Gastrointestinal Health and Management: Survey Results”, Washington, DC.
- 2017 *United States Eventing Association Annual Convention*, “Gastrointestinal Health and Management: Survey Results”, South Beach, CA.
- 2017 *Minnesota Nutrition Conference*, “Vitamin E Requirements, Supplements and Disorders”, Mankato, MN.
- 2016 *Minnesota Nutrition Conference*, “Human Nutrition Fads in Horse Diets”, Minneapolis, MN.
- 2015 *Hambletonian Veterinary Continuing Education Seminar*, “Grazing: Nutritional rewards and laminitis risks,” East Rutherford, NJ.
- 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.
- 2013 *Mid-Atlantic Nutrition Conference*, “Feeding the Equine Athlete to Combat Oxidative Stress”, Timonium, MD.
- 2012 *Hambletonian Veterinary Continuing Education Seminar*, “Antioxidant research & its application for use in exercising horses,” East Rutherford, NJ.
- 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, Brazil.
- 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.

- 2008 *Mid-Atlantic Nutrition Conference*, "The efficacy of some commonly supplemented herbs in equine nutrition", Timonium, MD.
- 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.
- 2004 *Mid-Atlantic Nutrition Conference*, "Antioxidant Research in the Athletic Horse", Timonium, MD.

Oral Presentations at National and International Meetings

- 2019 *Equine Science Society Symposium*, "Effects of twenty-seven months of rotational vs. continuous grazing on horse and pasture condition," Asheville, NC.
- 2019 *Equine Science Society Symposium*, Workshop - Application of Models to Predict Nutrient Requirements: Perspective for Equids, Introductory speaker "Role of the National Animal Nutrition Program: Outlook on Equids," Asheville, NC.
- 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, Podcasts)

- 2022 **Podcast** – “Tack Box Talk” - “Does my horse really need a supplement?”. Featuring C. Williams, PhD, Rutgers. <https://www.buzzsprout.com/>. Soon to be posted.
- 2022 **Podcast** – “Tack Box Talk” - “Young Horse Show Series: The story of a new adventure for Dr. Williams”. Featuring C. Williams, PhD, Rutgers. <https://www.buzzsprout.com/242373/9862138-young-horse-show-series-the-story-of-a-new-adventure-for-dr-williams>. Posted on January 10, 2022. 33:25 minutes. 126 downloads as of Feb. 2022.
- 2021 **Podcast** – “Tack Box Talk” - “Fecal Water Syndrome: The Story of brown butts and matted tails”. Featuring C. Williams, PhD, Rutgers and A. Burk, PhD, Univ. of Maryland. <https://www.buzzsprout.com/242373/9756295-fecal-water-syndrome-the-story-of-brown-butts-and-matted-tails?t=0>. Posted on December 23, 2021. 35:27 minutes. 128 downloads as of January 2022.

- 2021 **Podcast** – “Tack Box Talk” - “*Updates!: The stories of Pinky and Mickie continued*”. Featuring C. Williams, PhD, Rutgers. <https://www.buzzsprout.com/242373/7434844-updates-the-stories-of-pinky-and-mickie-continued> Posted on January 22, 2021. 37:55 minutes. 116 downloads as of January 2022.
- 2020 **Podcast** – “Tack Box Talk” - “*To Blanket or Not to Blanket: The Story of putting it on and taking it off!*”. Featuring C. Williams, PhD, Rutgers, and K. Martinson, PhD, University of Minnesota. <https://podcasts.apple.com/us/podcast/to-blanket-or-not-to-blanket-story-putting-it-on-taking/id1492355719?i=1000497551950> Posted on November, 6, 2020. 29:00 minutes. 140 downloads as of January 2021.
- 2020 **Podcast** – “Tack Box Talk” - “*Serious Injuries: The Stories of Holly, Mickie, Pinky and Chester*”. Featuring C. Williams, PhD, Rutgers, C. Brady, PhD, Perdue, and K. Martinson, PhD, University of Minnesota. <https://www.buzzsprout.com/242373/2521540-serious-injuries-the-stories-of-holly-micky-pinky-and-chester> Posted on January 25, 2020. 35:33 minutes. 69 downloads as of January 2021.
- 2019 **Podcast** – “Tack Box Talk” - “*Pasture Peculiarities: The Story of Florida, New Jersey, Minnesota, and Arizona*”. Featuring C. Williams, PhD, Rutgers; C. Wickens, PhD, University of Florida; B. Greene, PhD, University of Arizona; and K. Martinson, PhD, University of Minnesota. <https://www.buzzsprout.com/242373/2316938-pasture-peculiarities-the-story-of-florida-new-jersey-minnesota-and-arizona> Posted on December 19, 2019. 25:34 minutes. 124 downloads as of January 2021.
- 2019 **Podcast** – “Tack Box Talk” - “*Ouch my Stomach Hurts: The Stories of Pinky and Pippa*”. Featuring C. Williams, PhD, Rutgers and K. Martinson, PhD, University of Minnesota. <https://www.buzzsprout.com/242373/2316857-ouch-my-stomach-hurts-the-stories-of-pinky-and-pippa> Posted on December 19, 2019. 22:55 minutes. 118 downloads as of January 2021.
- 2019 **Podcast** – “Tack Box Talk” - “*Thin Horses: The Story of Pinky and Ozzie*”. Featuring C. Williams, PhD, Rutgers and T. Fabus, MS, Michigan State University Extension. <https://www.buzzsprout.com/242373/1003786-thin-horses-the-story-of-pinky-and-ozzie> Posted on March 20, 2019. 23:17 minutes. 157 downloads as of January 2021.
- 2018 **“Let’s Talk Horses” RFD Radio Network** – “Using Ration Balancers in Feeding Horses” (aired on September 8)
- 2017 **“Let’s Talk Horses” RFD Radio Network** – “Human Diet Fads and their Effect on Horse Nutrition: Part 4” (aired on April 26)
- 2017 **“Let’s Talk Horses” RFD Radio Network** – “Human Diet Fads and their Effect on Horse Nutrition: Part 3” (aired on April 20)
- 2017 **“Let’s Talk Horses” RFD Radio Network** – “Human Diet Fads and their Effect on Horse Nutrition: Part 2” (aired on April 13)
- 2017 **“Let’s Talk Horses” RFD Radio Network** – “Human Diet Fads and their Effect on Horse Nutrition: Part 1” (aired on April 7)
- 2017 **“Let’s Talk Horses” RFD Radio Network** – “Pasture Forage Planning” (aired on February 15)
- 2016 **“Let’s Talk Horses” RFD Radio Network** – “Stress in Horses” (aired on November 3).
- 2016 **“Let’s Talk Horses” RFD Radio Network** – “Sugar Content in Horse Pasture” (aired on January 6).
- 2015 **“Let’s Talk Horses” RFD Radio Network** – “Winter Care for Horses” (aired on December 23).

- 2015 **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
"Let's Talk Horses" RFD Radio Network – "Horse Nutrition Myths" (aired on April 15).
- 2015 **"Let's Talk Horses" RFD Radio Network** – "Horse Supplements" (aired on February 9).
- 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.
- 2008 **Podcasts** – Based on several Rutgers NJAES Cooperative Extension Fact Sheets. Downloadable on iTunes (iTunes.rutgers.edu).
- 2007 **Pet Stop** – "Rutgers Equine Science Center, Equine Research". Channel 12, 30-min TV interview and demonstration.

Other Web-based Media (Webinar, Video, Modules, Graphics)

- 2022 **Panel Discussion** – "Pasture Management for the Laminitic/Obese Horse". An online panel discussion hosted by Vet PD. Served on an international panel of experts. March 9, 2022.
- 2022 **Learning Lesson Station** – "Hippology Academy 2022" - "Choosing Supplements for your Horse Wisely". Launched on February 7, 2022. A total of 76 individuals registered for the course in 2022.

- 2022 **Webinar** – “Choosing Supplements Wisely” online seminar hosted by University of Tennessee Cooperative Extension. February 10, 2022. 80 live attendees.
- 2022 **Workshop** – “Feeding Horses During the Wintertime”. An online workshop hosted by FeedXL. Served as the invited expert speaker for their paid program ‘Master Classes’. January 10, 2022.
- 2021 **Webinar** – “Winter Feeding” online seminar hosted by Garden State Horse and Carriage. October 12, 2021. 15 live attendees.
- 2021 **Webinar** – “Choosing Supplements for your Horse Wisely” online seminar hosted by Penn State Extension. August 3, 2021. 94 live attendees. Archived: <https://extension.psu.edu/choosing-supplements-for-your-horse-wisely>
- 2021 **Infographic** – “Extinguishing Heat Stress for the Horse & Rider” – Posted on ExtensionHorses.org website and Facebook page July 8, 2021. Reached 20,790 individuals, as of Jan. 2022, with 246 shares and 278 likes.
- 2021 **Webinar** – “Choosing Supplements Wisely” online seminar hosted by On Course Equine Nutrition. June 16, 2021. 8 live attendees.
- 2021 **Blog Post** – “Annual Rutgers Horse Management Seminar is a “Virtual” Success!” – Posted on the Plant & Pest Advisory website, February 18, 2021. <https://plant-pest-advisory.rutgers.edu/horse-management-seminar/>.
- 2021 **Blog Post** – “Taking Care of your Horse in the Winter” – Posted on 4-H Animal Science Resource Blog January 4, 2021. <https://4hanimalscience.rutgers.edu/2021/01/04/taking-care-of-your-horse-in-the-winter/>.
- 2021 **Infographic** – “Body Condition Scoring Horses” – Posted on ExtensionHorses.org website and Facebook page January 18, 2021. Reached 9,472 individuals, as of Jan. 2022, with 136 shares and 129 likes.
- 2020 **Infographic** – “The Ins and Outs of Winter Riding” – Posted on ExtensionHorses.org website and Facebook page Nov. 17, 2020. Reached 17,798 individuals, as of Jan. 2022, with 181 shares and 304 likes.
- 2020 **Webinar** – “What Type of Hay is Best for Horses” by Rutgers Cooperative Extension. November 17, 2020. 33 live attendees. Archived: <https://www.youtube.com/c/RutgersEquineScienceCenter/videos> 42 archive views, as of Jan. 2021.
- 2020 **Webinar** – “Farm of the Future Session VI: Farmer Innovators” Hosted by University of Pennsylvania; One of 4 Panelists; talk title “Environmental Pasture BMPs for Equine Operations”, November 11, 2020, 2-4:00 pm. 86 live attendees. Archived: <https://www.design.upenn.edu/pennpraxis/farm-future>.
- 2020 **Webinar** – “Ask the Experts - LIVE”, hosted by Rutgers Equine Science Center. November 4, 2020. 42 live attendees. Archived: <https://www.youtube.com/c/RutgersEquineScienceCenter/videos> 14 archive views, as of Jan. 2021.
- 2020 **Facebook Live Interview** – “How to Feed Horse Supplements Wisely” – Live on October 20, 2020. 165 live attendees, shared 4 times, as of Nov. 1 the interview reached 1400 people. Posted on <https://www.facebook.com/ExtensionHorses>. Reached 1,604 individuals, as of Jan. 2021.
- 2020 **Webinar** – “Choosing Supplements Wisely” online seminar hosted by University of Tennessee Cooperative Extension. October 22, 2020. 49 live attendees.

- 2020 **Webinar** – “Antioxidant Research and its Application for Exercising Horses”, hosted by Rutgers Equine Science Center. September 24, 2020. 34 live attendees. Archived: <https://www.youtube.com/c/RutgersEquineScienceCenter/videos> 17 archive views, as of Jan. 2021.
- 2020 **Webinar** – “Using Stress Lots to Maximize your Pasture Production” by Rutgers Cooperative Extension. September 21, 2020. 10 live attendees. Archived: <https://www.youtube.com/c/RutgersEquineScienceCenter/videos>, 10 archive views, as of Jan. 2021.
- 2020 **Blog Interview** – “Lord Nelson’s Blog – Investigating Equine Metabolic Syndrome” by Rutgers Cooperative Extension. September 14, 2020. Archived: <https://www.youtube.com/c/RutgersEquineScienceCenter/videos>, 19 archive views, as of Jan. 2021.
- 2020 **Infographic** – “Top 4 Tips for Getting your Horse to Gain Weight” – Posted on ExtensionHorses.org website and Facebook page August 13, 2020. Reached 8,172 individuals, as of Jan. 2022, with 66 shares and 150 likes.
- 2020 **Webinar** – “Equine Management for COVID 19” by Rutgers Cooperative Extension. May 18, 2020. 48 live attendees. Archived: <https://www.youtube.com/c/RutgersEquineScienceCenter/videos>, 7 archive views, as of Jan. 2021.
- 2020 **Webinar** – “Choosing Supplements Wisely” online seminar hosted On Course Equine Nutrition. April 16, 2020. 23 live attendees.
- 2020 **Webinar** – “Importance of Pasture for Horses” online seminar hosted by Rutgers Cooperative Extension. April 14, 2020. 60 live attendees. Archived: <https://www.youtube.com/c/RutgersEquineScienceCenter/videos>, 59 archive views, as of Jan. 2021.
- 2020 **Infographic** – “Ouch! My Stomach Hurts!” – Posted on ExtensionHorses.org website and Facebook page April 16, 2020. Reached 55,238 individuals, as of Jan. 2022, with 56 shares and 81 likes.
- 2020 **Learning Lesson Station** – “Hippology Academy 3.0” - “Week 6: Reading Feed Tags and Formulating a Ration”. Launched February 17, 2020. A total of 46 individuals registered for the course.
- 2019 **Learning Lesson Station** – “Hippology Academy 1” - “Week 4: Nutrients and Nutrient Requirements”. Launched on February 11, 2019. A total of 274 individuals registered for the course in 2019. 54 new individuals registered in 2020.
- 2018 **Infographic** – “Tips for Cooling Out Hot Horses” – Posted on ExtensionHorses.org website and Facebook page April 3, 2018 and again on July 15, 2020. Reached over 131,000 individuals, as of Jan. 2022, with 169 shares and 320 likes.
- 2018 **Infographic** – “New Laws for Hauling Horses” - Posted on ExtensionHorses.org website and Facebook page January 4, 2018. Reached over 1.5 million viewers, engaged 174,000 individuals, shared 18,167 times.
- 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. Archived: <https://www.youtube.com/c/RutgersEquineScienceCenter/videos>, 192 archive views, as of Jan. 2021.
- 2016 **Webinar** – “Human Diet Fads and How they Affect Horse Nutrition” online seminar hosted by Minnesota Cooperative Extension. September 27, 2016.
- 2016 **YouTube Video** – “Feeding Your Horse Supplements,” posted January 29, 2016. (<https://www.youtube.com/watch?v=nJmDihZrLGg>). 257 archive views, as of Jan. 2021.
- 2016 **YouTube Video** – “Nutrition Myths in Horses,” posted January 29, 2016. (https://www.youtube.com/watch?v=Wc9_kgEEUcM). 1,197 archive views, as of Jan. 2021.
- 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.conservationwebinars.net/webinars/how-to-implement-rotational-grazing-in-equine-facilities/?searchterm=equine>
- 2015 **Webinar** – “Conditioning Your Horse for the Riding Season,” online seminar hosted by University of Minnesota. March 24, 2015.
- 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.
- 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>). 3,083 archive views, as of Jan. 2021.
- 2012 **YouTube Video** – “Horse Pasture Management Tips,” posted February 13th, 2012. (<https://www.youtube.com/watch?v=p0D5Hlc6Wi8>). 1,102 archive views, as of Jan. 2021.
- 2012 **Webinar** – “Choosing Your Supplements Wisely,” online seminar hosted by Maryland Cooperative Extension. January 18, 2012.
- 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#.VLAqgCvF98E>). Co-author of learning lesson “Equine Pasture Management”
- 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 (not including those submitted)	Total Amount	As PI/co-PI
External Competitive Grants	\$581,320	\$344,913
Internal Grants	\$773,994	\$724,597
Donations and Other Support	\$112,362	\$112,362
TOTAL	\$1,467,676	\$1,181,872

Externally Funded Competitive Grants

2021-2022	\$500 (Total Cost) – Extension Horses.org Travel Grant -- Funding to travel to the 2022 Face-to-Face working ExtensionHorses.org annual meeting in Louisville, KY.
2020-2021	\$500 (Total Cost) – Extension Horses.org Travel Grant -- Funding to travel to the 2021 Face-to-Face working ExtensionHorses.org annual meeting in Louisville, KY.
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 -- Co-PI to organize the “Protection of Environmental Quality using Improved Feed Management Practices on Equine Farms” Westendorf, M. L. (PI), C. A. Williams , D. Lee, R. C. Mickel, S. Komar, and B. Bamka
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), and C. A. Williams
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, and W. Bamka
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 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)

- 2019-2020 **\$25,000** – Rutgers Equine Science Center Funding
-- **PI** to organize the “Impact of a Crabgrass Pasture Forage Grazing Strategy on Weight, Metabolism, and the Hindgut Microbiome of Obese Horses” **Williams, C.A. (PI)**, W. Meyer, and J. Weinert
- 2018-2019 **\$24,972** – 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
- 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
-- **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. Mainelis, 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

- 2020 **\$3,828** – BUCKEYE™ Nutrition, Mars Horsecare US, Stampede Timothy Alfalfa Cubes
-- 6 tons of feed for the project “Dietary protein and it’s effects on the equine hind gut microbiome”
- 2020 **\$7,656** – Square Meal Feeds, High and Low protein specialty total mixed ration cube
-- 12 tons of feed for the project “Dietary protein and its effects on the equine hind gut microbiome”
- 2019 **\$1,070** – Poulin Grain Inc.
-- 1 ton of feed for the project “Increasing horse pasture productivity by integrating warm-season grasses into cool-season rotational grazing systems”
- 2019 **\$3,750** – 5-\$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
- 2018 **\$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
- 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. -- to study “Superoxide Dismutase Supplementation in Exercising Horses”
2007	\$4,510 – Stuart Products, Inc. -- to study “Various Forms of Vitamin E Supplementation in the Horse”
2006	\$1,120 – AlcheraBio, Inc. -- to conduct “Feasibility Study”
2006	\$1,500 – Stuart Products, Inc. -- to study “Beta-Carotene Supplementation in the Horse”
2006	\$2,974 – Stuart Products, Inc. -- to study the “Efficacy of an Antioxidant/Fatty Acid Supplement in Exercising Horses”
2004	\$2,350 – Stuart Products, Inc. -- 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:

- 2020-present *Animal Handling and Fitting Supervisor Prep* 11:067:176, Fall Semester; 1 credit (5 Students)
 -- 100% responsibility (with help of a farm crew member and senior student)
 -- In response to the lack of hands-on courses during COVID this course was offered to teach advanced horse students or students who have taken the 175 class how to become supervisors.

- 2019-present *Equine Nutrition* 11:067:390 (sections 01, in class (2019 only); 90, on line), Spring Semester; 3 credit (Spring 2019; 14 Students in class + 18 Students online, Spring 2020, 2021, 2022; 21, 18, 28 students online only, respectively)
 -- 100% responsibility for both sections
 -- Developed this newly revised course in the Spring of 2019, including lectures, case studies, mini-labs, final group project, and assessment tools as an upper-level course focused on the proper way to feed horses and reason behind it.
 -- The materials in this course were adapted for a fully on line section including lectures, videos, discussions, assignments, case studies, video assignments and the final group project.
 -- This class has a Continuing Professional Education (CPE) section where horse owners and barn managers can take the class worldwide through the online format. These students are managed alongside the Rutgers students and they are encouraged to partner up for group projects and interact in discussions. Each semester there are 8-12 CPE students)
- 2013-present *Animal Evaluation and Selection* 11:067:260, Fall Semester; 3 credits (8-15 students)
 -- 18% responsibility (Horse Section)
 -- Hands-on course focused on teaching students basic techniques for 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 (16-18 Students + 16-18 Supervisors)
 -- 100% responsibility for Horse Section (50% responsibility prior to Spring 2016)
 -- Hands-on course teaching novice 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 teach the new students. Each student and supervisor participates in 3-80 minute sessions per week.
- 2011-present *Comparative Mammalian Anatomy* 11:067:391, 3 credits; Fall Semester (~30 students) 2011-present; Summer Session (12-20 students) 2014-2019; Spring Semester (30 students) 2021-present
 -- 100% responsibility (70 & 84% for Sp 20 and FA21, respectively)
 -- Developed this new course in Fall 2011, including lectures and laboratories dealing with basic internal and external mammalian anatomy; 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
- 2010-2015 *Horse Practicum* 11:067:200/207, Fall and Spring Semester; 2 credits (8-10 students)
 -- 50% responsibility (2010-2015)
 -- Lecture and hands-on 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 in horses (2003-2013)

-- Hands-on course introducing students to research applications dealing with pasture management and grazing horses (2013-present)

Guest Lecturer:

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|------------------|---|
| 2007-2017 | <i>Careers in Animal Science</i> 11:067:101, Spring semester (70-80 students), 1 lecture |
| 2005, 2006, 2009 | <i>Horse Management</i> 11:067:222, Fall semester (~ 60 students), 1-2 lectures |
| 2003-present | <i>Introduction to Animal Science</i> 11:067:142, Fall semester (150-270 students), 3 lectures on animal nutrition (12% of class) |
| 2003-2005 | <i>Animal Practicum</i> 11:067:200, Horse section (~10 students), 5 lectures and demonstrations |

University of Tennessee

Guest Lecturer:

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| 2020 | <i>Equine Industries</i> ANSC 496, 1-hr lecture on using supplements in equine nutrition (Zoom Lecture, 19 live attendees) |
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University of Vermont, Burlington, VT

Guest Lecturer:

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| 2014 | <i>Introduction to Equine Studies</i> ASCI 115, 1-hr pasture management lecture |
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University of Pennsylvania School of Veterinary Medicine, Philadelphia, PA

Guest Lecturer:

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| 2014-2018 | <i>Animal Nutrition</i> , 2 1-hr lectures on the basics of Equine Nutrition |
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Gloucester County College, Gloucester, NJ

Guest Lecturer:

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| 2011-2018 | <i>Equine Capstone Practicum</i> BIO 216, 2 2-hr pasture walks, and anatomy lecture and demonstration at a private farms or Rutgers Demonstration Horse Farm |
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Midway College, Midway, KY

Guest Lecturer:

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| 2010 | <i>Equine Nutrition and Equine Exercise Physiology</i> (Combined Classes), <i>Research Writing and Interpretation</i> , 2 1.5-hr lectures on feeding the athletic horse and a lecture on how to interpret and present research results |
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University of Delaware, Newark, DE

Guest Lecturer:

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|-----------|--|
| 2011 | <i>Introduction to Equine Science</i> AN 220, 1-hr lecture on equine supplements |
| 2005-2009 | <i>Introduction to Equine Science</i> 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

RESEARCH STUDENTS SUPERVISED

Year	# PhD/MS Students (Mentor)	# PhD/MS Students (Committee Member)	# Undergraduate Research Students (Mentor)
Pre-Tenure (2003-2008)	1	0	11
Post-Tenure (2009-present)	3	4	15
Post-Promotion (Full; 2020-present)	1	0	1
TOTAL	4	4	28

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

2016-2021 Jennifer Weinert, Endocrinology and Animal Bioscience Ph.D. Student. Dissertation topic: "Integrated Cool- and Warm-Season Equine Rotational Grazing Systems: Pasture Production, Forage Preference, Metabolism and the Gut Microbiome."

2012-2015 Laura Kenny², Plant Science M.S. Student. Thesis: "Effects of Rotational and Continuous Grazing on Horses, Pasture Condition, and Soil Properties."

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. Dissertation: "Inflammatory and Antioxidant Status of Horses Undergoing Intense Exercise and Nutritional Supplementation."

² Master's 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 Graduate Advisor, yet I remained as her Thesis Research Advisor and her direct supervisor.

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 (Mentor)

- 2021-present Katie Eick - George H. Cook Honors Research, “Evaluating Methods to Separate Forage Particles”
- 2018-2019 Leena Roy - George H. Cook Honors Research, “Glucose and Insulin Dynamics of Horses on Rotationally Grazed Pastures with Cool and Warm Season Grasses”
- 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”

EXTENSION ACTIVITIES

Year	# Meetings Hosted	# Meetings Co-Hosted	# Presentations	Total Attendance
Pre-Tenure (2003-2008)	9	9	61	5,335
Post-Tenure (2009-2019)	22	17	97	9,839
Post-Promotion (Full; 2020-present)	1	2	-	65
TOTAL	32	26	158	15,341

Extension Programs Organized

- 2022 **Co-Host, Junior Breeder Symposium.** xxx 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 26, 2022.

- 2022 **Host, Horse Management Seminar Virtual Edition:** Series of 3 webinars with 2 speakers and a Q&A panel each evening from 6:30 to 8:30 pm. Feb. 8th – Horse Health, xx live attendees. Feb. 15th – Genetics and Health, xx live attendees. Feb. 22nd – Nutrition, xx live attendees. Archived: <https://www.youtube.com/channel/UCKZUbdHAbpJrAQXUNqaCdlw>
- 2021 **Co-Host, Virtual Junior Breeder Symposium.** 202 youth and adult attendees in total. A livestock symposium (horse, dairy, beef, pig, small ruminant, rabbit, and poultry species sessions) in collaboration with the New Jersey Department of Agriculture. March 27, 2021. Hosted via ZOOM from 9:00 to noon. I hosted the Horse Species section with an average of 60 live attendees for each of the 3 sessions.
- 2021 **Host, Horse Management Seminar Virtual Edition:** Series of 3 webinars with 2 speakers and a Q&A panel each evening from 6:30 to 8:30 pm. Feb. 1st – Horse Health, 214 live attendees. Feb. 8th – Behavior & Training, 214 live attendees. Feb. 15th – Nutrition, 158 live attendees. Archived: <https://www.youtube.com/watch?v=Qn5P2lUCz3M&list=PL1aj-l1g1fhSKYU7hx3RZUez2BHseRq-n>
- 2020 **Co-Host, Virtual Evening of Wine and Equine (BYOW):** Series of 2 webinars on Pasture Management in Horses. Archived: <https://www.youtube.com/watch?v=M6Reffy2Mjl&list=PL1aj-l1g1fhRC4i2nn28nLLzE7CeOkt6t>
- 2020 **Co-Host, Pasture Management Webinar Series:** Series of 3 webinars on Pasture Management in Horses. Archived: https://www.youtube.com/watch?v=7MWQlwBg3Jg&list=PL1aj-l1g1fhTE_A0hRRC-rPUykBmtrzKb
- 2020 **Host, Rutgers Annual Horse Management Seminar.** 65 attendees “Racehorse/Sport Horse Care and Rehabilitation” February 9, 2020.
- 2019 **Host, An Evening of Wine and Equine:** 50 attendees, August 20, 2019, Cream Ridge Winery, Cream Ridge, NJ.
- 2019 **Co-Host, Junior Breeder Symposium.** 193 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 30, 2019.
- 2019 **Host, Rutgers Annual Horse Management Seminar.** 63 attendees “Feeding and Management of the Stallion, Broodmare and Growing Horse” February 10, 2019.
- 2018 **Host, Equine Science Center Spring Webinar Series,** 51 live participants over the series. April 12th & 19th, 2018.
- 2018 **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. April 7, 2018.
- 2018 **Host, Rutgers Annual Horse Management Seminar.** 93 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,*** 25 live participants over the series. November 18 & December 2, 2014.
- 2014 **Host, *Equine Science Center Spring Webinar Series,*** 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,*** 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,*** 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,** 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,** 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,** 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,** 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 since tenure in 2009)

	Date	Program/Event (Location)	Title of Presentation	Program Duration ^a	Audience	Resp ^b	# ^c
		For presentations in 2020-early 2022 due to COVID they were all virtual so see section above under 'Lectures and Media' – 'Other Web-based Media'.					
161	4/19	Junior Breeders Symposium (NJ)	Hay Quality	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	52

	Date	Program/Event (Location)	Title of Presentation	Program Duration ^a	Audience	Resp ^b	# ^c
160	4/19	Junior Breeders Symposium (NJ)	Nutrition Jeopardy	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	30
159	4/19	West Milford Equestrian Center Dinner and a Lecture (NJ)	Feeding the Insulin Resistant/Metabolic Problem Horse	2 hr sem	Horse Owners	2 hr lec	20
155	4/18	Junior Breeders Symposium (NJ)	Nutrition Jeopardy	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	44
154	1/18	United States Eventing Association, Area II Annual Meeting (Wash. DC)	Gastrointestinal Health and Management: Survey Results	½ day sem	Riders, owners, trainers	1 hr lec	35
153	12/17	United States Eventing Association Convention (CA)	Gastrointestinal Health and Management: Survey Results	4 d convention	Riders, owners, trainers	1 hr lec, web live streamed	32 & live
152	11/17	Equine Affaire Horse Expo (MA)	Reducing Feeding Costs by using Good Pasture Management	4 d expo	Horse owners	1 hr lec	45
151	11/17	Equine Affaire Horse Expo (MA)	Are You Stressing out your Horse?	4 d expo	Horse owners	1 hr lec	54
150	6/17	Natural Resource Conservation Service (NRCS) Grazing Training	Horse Pasture Best Management Practices	2 d sem	NRCS staff	1 hr lec	35
149	4/17	Mid-Atlantic Arabian Horse Association, Inc. (NJ)	Healthy Horse Clinic	2 hr sem	Horse Owners	2 hr lec/demo	12
148	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
147	4/17	Junior Breeders Symposium (NJ)	Vaccine, disease and biosecurity Jeopardy	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	50
146	4/17	Junior Breeders Symposium (NJ)	Sportsmanship	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	55
145	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
144	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
143	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
142	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
141	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
140	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

	Date	Program/Event (Location)	Title of Presentation	Program Duration ^a	Audience	Resp ^b	# ^c
139	9/16	Maine Cooperative Extension Horse Owner meeting (ME)	Essentials of Equine Pasture Management	half d sem	Horse owners	1 hr lec	15
138	03/16	Junior Breeders Symposium (NJ)	Horse Anatomy Jeopardy	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	58
137	03/16	Junior Breeders Symposium (NJ)	Horse vs. Human Skeletal Anatomy	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	75
136	02/16	Rutgers Annual Horse Management Seminar	How Nutrition can Effect Behavior	1 d sem	Horse owners	Organized seminar & 30 min lec	95
135	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
134	10/15	Foundation Equine's Horse Health Day	How to Feed a Horse with Laminitis	1 d sem	Horse owners	1 hr lec	55
133	09/15	Somerset Hills Pony Club Unmounted Educational Session	Equine Conformation	1 hr sem	Pony Clubbers and parents	1 hr lec	24
132	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
131	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
130	03/15	Junior Breeders Symposium (NJ)	Horse Nutrition Jeopardy	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	30
129	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
128	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
127	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
126	11/14	Equine Affaire Horse Expo (MA)	Reducing Feeding Costs by using Good Pasture Management	4 d expo	Horse owners	1 hr lec	25
125	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
124	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
123	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
123	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

	Date	Program/Event (Location)	Title of Presentation	Program Duration ^a	Audience	Resp ^b	# ^c
122	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
121	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
120	03/14	Junior Breeders Symposium (NJ)	How to do Show Braids	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	40
119	03/14	Junior Breeders Symposium (NJ)	Proper Bandaging of Horses	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	43
118	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
117	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
116	08/13	Keenan McAlister Equine Health Day	To Grain...or Not to Grain?	1 d sem	Horse owners	1 hr lec	120
115	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
114	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
113	04/13	Delaware Horse Expo (DE)	Choosing Supplements Wisely	2 d expo	Horse owners	1 hr lec	23
112	03/13	Junior Breeders Symposium (NJ)	Digestive Anatomy of the Horse	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	50
111	03/13	Junior Breeders Symposium (NJ)	Pasture Management Jeopardy	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	50
110	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
109	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
108	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
107	08/12	University of Vermont Cooperative Extension Seminar (VT)	Feeding Supplements Wisely	2 hr sem	Horse owners	30 min lec	22
106	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

	Date	Program/Event (Location)	Title of Presentation	Program Duration ^a	Audience	Resp ^b	# ^c
105	03/12	Junior Breeders Symposium (NJ)	Equine Exercise Physiology and Research	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	50
104	02/12	Rutgers Annual Horse Management Seminar	Improving Pasture for Reduced Feed Costs	1 d sem	Horse breeders	Organized seminar & 1 hr lec	80
103	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
102	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
101	10/11	Gloucester County Pasture Walk (NJ)	Pasture Walk	2 hr demo	Horse farm owners and county college students	2 hr demo	15
100	03/11	Junior Breeders Symposium (NJ)	Leg Anatomy of Horses	1 d sem	Ag Industry Youth	Organizing committee & 1 hr demo	50
99	03/11	Amwell Pony Club (NJ)	Digestive Anatomy and Nutrition	2 hr lec	Youth	2 hr lec	11
98	03/11	Somerset Pony Club (NJ)	Advanced Nutrition of the Pony Club Horse	2 hr lec	Youth	2 hr lec	22
97	03/11	Salem County Equine Risk Meeting (NJ)	Saving Money on Pastures while Maintaining Nutrition	2 hr	horse owners	1 hr lec	12
96	03/11	Camden County Horse Educational Series (NJ)	Feeding and Care of the Older Horse	2 hr	horse owners	2 hr lec	25
95	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
94	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
93	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
92	01/11	Maryland Horse World Expo (MD)	Feeding the Three-Day Event Horse	4 d expo	horse owners	1 hr lec	21
91	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
90	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
89	08/10	Minnesota Horse Management Seminar (MN)	Myths and Facts about Equine Supplements	3 hr sem	horse owners	1 hr lec	45
88	04/10	Somerset Pony Club (NJ)	Anatomy and Conformation	2 hr demo	Youth	2 hr demo	15
87	03/10	Ocean County 4-H (NJ)	Digestive Anatomy and Nutrition	2 hr lec	Youth, adult horse owners	2 hr lec	60
86	02/10	Somerset Pony Club (NJ)	Equine Nutrition	2 hr lec	Youth	2 hr lec	22

	Date	Program/Event (Location)	Title of Presentation	Program Duration ^a	Audience	Resp ^b	# ^c
85	01/10	Livestock, Forage and Grain Forum (IN)	Debunking the Myths of Feeding Horses	1 d sem	horse owners	1 hr lec	18
84	01/10	Maryland Horse World Expo (MD)	Feeding the Equine Athlete	4 d expo	horse owners	1 hr lec	42
83	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
82	10/09	National Agricultural Research, Extension, Education, and Economics Advisory Board (DC)	eXtension	3 d mtg	USDA appointed committee	15 min lec	25
81	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
80	08/09	The Science of Horses (NJ)	Nutrition	1 d sem	Youth, adult horse owners	Org committee & 3 -1 hr lec/demos	26
79	08/09	The Science of Horses (NJ)	Careers & Education	1 d sem	Youth, adult horse owners	Org committee & 3 -1 hr lec/demos	26
78	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
77	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
75	06/09	Equine Management Webinar Series	Equine Nutrition Myths & Facts	1 hr	horse owners	45 min web lec	12
74	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

^alec = lecture, sem = seminar

^bResp = My responsibility in the program

^c# = Number of attendees

SERVICE

Leadership Committees—National

Equine Science Society:

2019-present Member, Symposium Subcommittee

2019-2021 Member, Teaching and Extension Committee

2017-present Member, Board of Directors

2010-2015 Chair, Exercise Physiology Committee

2007-2010 Member, Exercise Physiology Committee

Extension Horses.org (formally 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)

2003-2017 Chair of Education Committee

2003-present Rutgers Delegate

NJ Horse Council:

2003-present Special Advisor to Board of Directors

Service to Rutgers University

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

2021-present Cook Leadership Awards selection committee

2019-2022 Member, Promotion and Tenure Committee. Chair in AY 2021-2022.

2015-2016 Chair, Academic Forum

2012-2015 Secretary, Academic Forum

2012-2015 Member, Affirmative Action Committee

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

NJAES/Rutgers Cooperative Extension:

2021-present Member, Rutgers Cooperative Extension Writing Team “Maintain Viable Agriculture and Aquaculture”

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

School of Graduate Studies (formerly the Graduate School–New Brunswick):

Graduate Program in Endocrinology and Animal Biosciences

2016-2021 Admissions Committee, member

2004-present Member

Graduate Program in Kinesiology and Applied Physiology

2020-present Curriculum Committee, chair

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

Department of Animal Sciences:

2021-2022 Member, Animal Nutrition/GI Physiology Faculty Search Committee

2018 Member, Instructor Search Committee (2 Instructor hires)

2013-2014 Chair, Instructor Search Committee

2013 & 2018 Event Co-Organizer, NESA (*North East Student Affiliate of the American Society of Animal Science*)

2011-present Member, Curriculum Committee

2009-present Faculty Co-Advisor, NESA

2007-present Undergraduate Student Advising, 200+ total undergrads

2006 Poster Contest Judge, Cook College/NJAES Scientific Communications Awards

2005 Horse Judging Coordinator, Rutgers hosted NESA

2004-present George H. Cook Undergraduate Research Student Project Reviewer, 18 students

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)

2018 *Natural Sciences and Engineering Research Council of Canada*, Collaborative Research and Development Proposal (1)

2014 *The National Science Centre*, Poland, Life Science Grant Proposal (1)

2013 *University of Kentucky*, Kentucky Science & Engineering Foundation Grant (1)

2009 *University of West Virginia*, Faculty Senate Grant for Research and Scholarship (1)

2008 *University of Guelph*, Research Proposal Scientific Merit (1)

2004-2007 *University of Maryland*, MAES Grant (2)

Scientific Journal Peer Reviews (with number reviewed in parentheses)

2021-present *Translational Animal Science* (2)

2016 Antioxidants (1)

2016 *PLoS ONE* (1)

2015 *Irish Veterinary Journal* (1)

2009-present *Equine Veterinary Journal* (12)

2009-present *Research in Veterinary Science* (3)

2008-present *Comparative Exercise Physiology* (Previously *Equine and Comparative Exercise Physiology*) (15)

2007 *Stress: The International Journal on the Biology of Stress* (1)

2007-present *Journal of Equine Veterinary Science* (24)

-- Awarded a "Certificate of Outstanding Contribution in Reviewing" in recognition of the contributions made to the quality of the journal.

2007-2012 *The Veterinary Journal* (5)

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)

2021 Arizona Cooperative Extension, Bulletin (1)

2019-present Extension Horses.org (formally eXtension 'HorseQuest' Community of Practice), Infographic reviewer

2009-present Outside reviewer, Promotion and Tenure Packets (6)

2007 Virginia Cooperative Extension, Fact Sheet (1)

2007 Maryland Cooperative Extension, Fact Sheet (1)

- 2006-present Extension Horses.org (formally eXtension 'HorseQuest' Community of Practice), Frequently Asked Questions reviewer
- 2006 Connecticut Cooperative Extension, Fact Sheet (2)

Service to Other Public Bodies

- 2021-present Horse Park of New Jersey, member and Cross-Country course set up and decorator volunteer
- 2019 United States Dressage Federation Region 1, Volunteer of the Year Award
- 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
- 2004-2021 Jersey Fresh International Three-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