

REBECCA K. SPLAN

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EDUCATION

University of Nebraska-Lincoln, PhD, Animal Breeding & Genetics, 1999
University of Nebraska-Lincoln, MSc, Animal Breeding & Genetics, 1996
Michigan State University, BSc with Honors, Animal Science, 1994

PROFESSIONAL EXPERIENCE

Sul Ross State University, Associate Professor, Animal Science, 2016-present
University of Minnesota, Adjunct Assoc. Prof., Vet. Population Medicine, 2015-present
University of Minnesota, Visiting Scientist, Veterinary Population Medicine, 2015-16
Virginia Tech, Associate Professor, with tenure, Animal & Poultry Sciences, 2006-16
Virginia Tech, Assistant Professor, Animal & Poultry Sciences, 2000-06
Trinity College Dublin (Ireland), Pre-doctoral Scholar, Animal Genetics, 1998, 1999
University of Nebraska, Graduate Research Assistant, Animal Science, 1994-99
University of Nebraska, Graduate Teaching Assistant, Animal Science, 1994-99

PROFESSIONAL ASSOCIATIONS

Genetics Committee, Equine Science Society, 2011-present; Chair, 2013-present
Teaching and Undergraduate Education Committee, Southern Section, American Society of Animal Science, 2010-14
Undergraduate Student Paper Competition Committee, Southern Section, American Society of Animal Science, 2010-14
Equine Committee, Mid-Atlantic Nutrition Conference, 2011-15
Editorial Board, Journal of Animal Science, 2011-14
Editorial Board, NACTA Journal, 2011-19
Member, Functional Annotation of Animal Genomes
Member, Equine Science Society
Member, American Society of Animal Science
Member, Sigma Xi
Member, Gamma Sigma Delta
Member, National Association of Equine-Affiliated Academics
Member, National Association of College Teachers of Agriculture

HONORS, AWARDS, AND LISTINGS

Virginia Tech Gamma Sigma Delta Faculty Teaching Award, 2011
John H. Daniels Fellowship, National Sporting Library, 2010

VT College of Agriculture & Life Sciences Certificate of Teaching Excellence, 2009
Virginia Tech Sigma Alpha Agriculture Woman of the Year, 2005
Virginia Horse Council Educator of the Year, 2003
Sigma Xi Competitive Science Travel Grant, 1999 & 1997
John Hallman Memorial Graduate Student Award, 1998
Widaman Trust Distinguished Graduate Student Award, 1997
Beef Improvement Federation Frank Baker Memorial Award, 1997
Vincent H. Arthaud Competitive Travel Fellowship, 1996
UNL Animal Science Graduate Student Assn. Outstanding Member, 1996

PUBLICATIONS (include appropriate publication reference format)

Books and Book Chapters

1. **Splan, RK.** 2010. Horses: Breeds, breeding and genetics. In: Encyclopedia of Animal Science. 2nd Ed. Marcel Dekker, Inc. New York. ISBN 0-8247-5496-4. 534-535.

Refereed Journal Articles (**undergraduate student; *graduate student under supervision of RK Splan)

1. Jacobs*, RD, AD Ealy, PM Pennington, BS Pukazhenth, LK Warren, TM Hess, AL Wagner and **RK Splan.** Dietary supplementation of algae-derived long chain polyunsaturated fatty acids alters endometrial and embryonic gene expression in mares. *Journal of Animal Science.* (in review)
2. Hall, MR, **Splan, RK** and CM Wood. Was it worth it? Student perceptions of value for a required capstone experience in the animal sciences. *NACTA Journal.* (in review)
3. Deslauriers, JL, RD Rudd, DM Westfall-Rudd, and **RK Splan.** The critical need for experiential learning programs: A case study. *NACTA Journal.* (in review)
4. Felipe, H, TM Hess, **RK Splan** and JE Bruemmer. Possible role of microRNA in equine insulin resistance. *PLoS One.* (accepted with revisions)
5. Deslauriers, JL, RD Rudd, DM Westfall-Rudd and **RK Splan.** 2016. The critical need for merging educational learning theories with experiential learning programs in animal agriculture: A literature review. *NACTA Journal.* 60(3):307-312.
6. **Splan, RK,** RM Brooks and CA Porr. 2016. Student reflections on personal and professional growth after a 16-week immersive, experiential learning program in equine science. *NACTA Journal.* 60(1):60-64.
7. McCoy, AM, SK Beeson, **RK Splan,** S Lykkien, SL Ralston, JR Mickelson and ME McCue. 2016. Identification and validation of risk loci for osteochondrosis in Standardbreds. *BMC Genomics.* 17:41. doi: 10.1186/s12864-016-2385-z
8. Porr, CA, AM Shulz, R Gimenez and **RK Splan.** 2016. Collaboration between extension and industry: Coordination and assessment of technical large animal rescue training. *Journal of Extension.* 54(1):1RIB4.
9. Suagee, JK, **RK Splan,** KL Swyers, RJ Geor and BA Corl. 2015. Effects of high sugar and starch diets on postprandial inflammatory protein concentrations in horses. *Journal of Equine Veterinary Science.* 35(3):191-197.
10. Porr, CA, TW Broyles, RS Pleasant, CE Smith, RM Brooks and **RK Splan.** 2014. Current methods of program delivery by Virginia Cooperative Extension agents fail to meet stakeholder needs. *Journal of Modern Education Review.* 4(1):1-10.

11. **Splan, RK**. 2013. Effect of class standing, gender and academic attribution on resiliency and goal-setting strategies among animal science students. *NACTA Journal*. 57(4):24-30.
12. Stephens*, TD and **RK Splan**. 2013. Population history and genetic variability of the American Shire horse. *Animal Genetic Resources*. 52:31-38. doi:10.1017/S2078633613000052
13. Stephens*, TD, JL Carrington**, RM Brooks, L Cheng, AC Carrington**, CA Porr and **RK Splan**. 2013. Effects of pentoxifylline, caffeine, and taurine on post-thaw motility and longevity of equine semen. *Journal of Equine Veterinary Science*. 33(8):615-621.
14. Laurie**, DE, **RK Splan**, RL McKown and GW Laurie. 2012. Detection of prosecretory mitogen lacritin in non-primate tears primarily as a C-terminal-like fragment. *Investigative Ophthalmology and Visual Science*. 53(10):6130-6136.
15. Denham*, SF, WB Staniar, JJ Dascanio, AB Phillips* and **RK Splan**. 2012. Linear and temporal variables of the walk in warmblood foals. *Journal of Equine Veterinary Science*. 32:112-115.
16. **Splan, RK**, CA Porr and TW Broyles. 2011. Undergraduate research in agriculture: Constructivism and the scholarship of discovery. *Journal of Agricultural Education*. 52(4): doi: 10.5032/jae.2011.04056
17. **Splan, RK**, RM Brooks, CA Porr and TW Broyles. 2011. Resiliency and achievement goal orientations among agricultural science students. *NACTA Journal*. 55(3):31-38.
18. Bhatnagar*, AS, CM East** and **RK Splan**. 2011. Genetic variability of the Norwegian Fjord horse in North America. *Animal Genetic Resources*. 49:43-49. doi:10.1017/S2078633611000105
19. **Splan, RK** and CA Porr. 2011. Teaching load among faculty and full-time instructors of equine science at land-grant universities. *NACTA Journal*. 55(3):14-18.
20. Porr, CA, JA Brown and **RK Splan**. 2011. Development and assessment of an emergency responder horse handling training program. *Journal of Extension*. 49(4):41AW4.
21. Bhatnagar*, AS, RM Lewis, DR Notter, C Schacht and **RK Splan**. 2011. Genetic parameters of foal scores in two North American sporthorse registries. *Livestock Science*. 10433:88-94.
22. Bhatnagar*, AS, RS Pleasant, JJ Dascanio, SR Lewis, A Gray, OE Shroeder, K Doyle, J Hall and **RK Splan**. 2010. Hoof conformation and palmar process fractures of the distal phalanx in warmblood foals. *Journal of Equine Veterinary Science*. 30:349-355.
23. Smith*, A, WB Staniar and **RK Splan**. 2006. Correlations between yearling body measurements and career racing performance in thoroughbred race horses. *Journal of Equine Veterinary Science*. 26:212-214.
24. Treiber, KH, DS Kronfeld, TM Hess, BM Byrd, **RK Splan** and WB Staniar. 2006. Evaluation of genetic and metabolic predispositions and nutritional risk factors for pasture-associated laminitis in ponies. *Journal of the American Veterinary Medical Association*. 15:1538-1545.
25. Kronfeld, DS, KH Treiber, TM Hess, **RK Splan**, BM Byrd, WB Staniar and NW White. 2006. Metabolic syndrome in healthy ponies facilitates nutritional countermeasures against pasture laminitis. *Journal of Nutrition*. 136:2090S-2093S.
26. Dascanio, JJ, JR Kasimanickam, S Milburn, A Canerossi and **RK Splan**. 2006. Retention of liquid within insemination equipment using various equine frozen

- semen insemination methods and two semen freezing extenders. *Journal of Equine Veterinary Science*. 26:305-309.
27. Treiber, KH, DS Kronfeld, TM Hess, BM Byrd and **RK Splan**. 2005. Pre-laminitic metabolic syndrome in genetically predisposed ponies involves compensated insulin resistance. *Journal of Animal Physiology and Animal Nutrition*. 89:430-431.
 28. **Splan, RK** and DP Sponenberg. 2004. Characterization and conservation of the American Milking Devon. *Animal Genetic Resources*. 34:11-16.
 29. **Splan, RK** and HB Hunter**. 2004. Temporal variables of the canter of the Tennessee Walking Horse. *Equine and Comparative Exercise Physiology*. 1:41-44.
 30. Staniar, WB, DS Kronfeld, KH Treiber, **RK Splan** and PA Harris. 2004. Growth rate consists of baseline and systematic deviation components in Thoroughbreds. *Journal of Animal Science*. 82:1007-1015.
 31. Gay, LS, DS Kronfeld, A Grimsley-Cook, JJ Dascanio, AO Ordakowski-Burk, **RK Splan**, EA Dunnington and DJ Sklan. 2004. Retinol, beta-carotene and beta-tocopherol concentrations in mare and foal plasma and in colostrum. *Journal of Equine Veterinary Science*. 115-120.
 32. **Splan, RK**, LV Cundiff, ME Dikeman and LD Van Vleck. 2002. Estimates of parameters between direct and maternal genetic effects for weaning weight and genetic effects for carcass traits in crossbred cattle. *Journal of Animal Science*. 80:3107-3111.
 33. Hoffman, RM, TM Hess, CA Williams, DS Kronfeld, KM Griewe-Crandell, JE Waldron, PM Graham-Theirs, LS Gay, **RK Splan**, KE Saker and PA Harris. 2002. Speed associated with plasma pH, oxygen content, total protein and urea in an 80-km race. *Equine Exercise Physiology*. 6:39-43.
 34. Hill, EW, DG Bradley, M Al-Barody, O Ertugurl, **RK Splan**, I Zakharov and EP Cunningham. 2002. History and integrity of thoroughbred dam lines revealed in equine mtDNA variation. *Animal Genetics*. 33:287-294.
 35. Cunningham, EP, JJ Dooley, **RK Splan** and DG Bradley. 2001. Microsatellite diversity, pedigree relatedness and contributions of founder lineages to thoroughbred horses. *Animal Genetics*. 32:360-364.
 36. **Splan, RK**, LV Cundiff and LD Van Vleck. 1998. Genetic parameters for sex-specific traits in beef cattle. *Journal of Animal Science*. 76:2272-2278.
 37. **Splan, RK**, BR Pilcik, UJ Tomsen, JAG Arango, A Ruiz-Flores, JW Hallock, MF Allen, SKR Karnati, V Vega, BR Lindsey, DE Moody and D Pomp. 1998. Rapid communication: Mapping of the steroidogenic acute regulatory protein (StAR) gene to porcine chromosome 15 by linkage analysis using a novel PCR-RFLP. *Journal of Animal Science*. 76:658-659.

Research Reports and other professional publications (**undergraduate student; *graduate student under supervision of RK Splan)

1. **Splan, RK** and ME McCue. 2016. Differential and tissue-specific expression of long intergenic non-coding RNAs in equine trophectoderm and inner cell mass. Plant and Animal Genome XXIV. San Diego, CA.
2. **Splan, RK**, F Avila, R Schaefer, S Beeson, J Mickelson and ME McCue. 2016. Genome-wide autozygosity in racehorses reveals positive selection signatures. Plant and Animal Genome XXIV. San Diego, CA.
3. Avila, F, R Schaefer, J Mickelson, S Beeson, **RK Splan** and ME McCue. 2016. Signatures of selection associated with athletic performance in Quarter Horse subpopulations. Plant and Animal Genome XXIV. San Diego, CA.

4. Avila, F, R Schaefer, S Beeson, J Mickelson, **RK Splan** and ME McCue. 2016. Identifying genomic regions undergoing selection in racehorses. Plant and Animal Genome XXIV. San Diego, CA.
5. Suagee-Bedore, JK, K Bennet-Wimbush, DR Linden and **RK Splan**. 2016. Feeding a small amount of hay prior to concentrate neutralizes the effects of high starch diets on inflammation in horses. American Society of Animal Science Annual Meeting. Salt Lake City, UT.
6. Wagner, AL, **RK Splan**, JK Suagee-Bedore and ID Girard. 2016. Dietary supplementation of DigestaWell NRG to unconditioned Warmblood mares may reduce lactate rise following exercise. American Society of Animal Science Annual Meeting. Salt Lake City, UT.
7. Pennington, PM, **RK Splan**, RD Jacobs*, Y Chen, Y Li, M Gucek, AL Wagner, D Wildt and BS Pukazhenth. 2016. Influence of metabolic status and diet on equine histotroph during early pregnancy. Society for the Study of Reproduction Annual Meeting. San Diego, CA.
8. Jacobs, RD*, AD Ealy, PM Pennington, BS Pukazhenth, LK Warren, TM Hess, AL Wagner and **RK Splan**. 2015. Dietary omega-3 supplementation alters gene expression in equine endometrial and embryonic tissues. American Society of Animal Science Annual Meeting. Orlando, FL.
9. Jacobs, RD*, **RK Splan**, KL Urschel, S Tanner and AL Wagner. 2015. Post-exercise dietary supplementation leads to improved muscle recovery in fatigued horses. Equine Science Society Symposium. St. Pete Beach, FL.
10. Felipe, H, TM Hess, JE Bruemmer and **RK Splan**. 2015. Differential circulating microRNA profile in insulin-resistant vs. insulin-sensitive mares. Equine Science Society Symposium. St. Pete Beach, FL.
11. Lapinskas, S, **RK Splan**, RD Jacobs*, JT Rayner**, CSC Woolley** and TM Hess. 2015. Seasonal effects on pasture and a group of metabolic mares. Equine Science Society Symposium. St. Pete Beach, FL.
12. Jacobs, RD*, AD Ealy, PM Pennington, BS Pukazhenth, LK Warren, TM Hess, AK Johnson, AL Wagner and **RK Splan**. 2015. Effect of dietary omega-3 supplementation on equine endometrial and embryonic gene expression. Equine Science Society Symposium. St. Pete Beach, FL.
13. Pennington, PM, **RK Splan**, RD Jacobs*, Y Chen, Y Li, AL Wagner and BS Pukazhenth. 2015. Differential expression of equine uterine fluid proteins during estrus, diestrus, and early pregnancy. Society for the Study of Reproduction Annual Meeting. San Juan, Puerto Rico.
14. Hall, MR, **RK Splan** and CM Wood. 2015. Alumni perspectives on their undergraduate capstone experience: Impacts on learning and career development. Conference on Higher Education Pedagogy. Blacksburg, VA.
15. Spindler, MK, RC Bott and **RK Splan**. 2015. Student perceptions of STEM instruction. Conference on Higher Education Pedagogy. Blacksburg, VA.
16. Ciamillo, S, G Peck, M Williams, **RK Splan** and CA Porr. 2014. Impact of composting on drug residues in large animal mortality. Publication APSC-59P, Virginia Tech/Virginia Cooperative Extension.
17. Schultz, NE, RJ Geor, **RK Splan** and ME McCue. 2014. Factors associated with variation in the equine incretin response in a cohort of Morgan horses and Welsh ponies. American College of Veterinary Internal Medicine Annual Meeting. Nashville, TN.
18. Peden**, KS, EA Wong, HL Spooner and **RK Splan**. 2014. Cytokine response to acute exercise in unfit lean vs. obese mares. Mid-Atlantic Nutrition Conference. TImonium, MD. *First Place, Undergraduate Poster Competition.*

19. Whitley, NC, R Kaplan, K Moulton, SB Routh, RA Franco and **RK Splan**. 2014. On-farm tapeworm testing in horses. ASAS Annual Meeting. Kansas City, MO.
20. Suagee, JK, **RK Splan**, KL Swyers, RJ Geor and BJ Corl. 2014. Effects of high starch and sugar diets on postprandial inflammation in Thoroughbred mares. ASAS Annual Meeting. Kansas City, MO.
21. Wood, CM, AO Abaye, M Eick, R Selberg-Eaton and **RK Splan**. 2014. Faculty-led study abroad programs: Enriching the academic experience in a global context. Deans' Forum on Global Engagement. Blacksburg, VA.
22. Bott, RC, MK Spindler, KP Anderson, CE Skelly, CA Williams, ML Westendorf, L Gladney and **RK Splan**. 2014. Climate change and the horse industry: Student interest in a sophomore-level hybrid learning program offered at the national level. National Association of Equine Affiliated Academics. Louisville, KY.
23. Spindler, MK, RA Bott, CE Skelly, KP Anderson and **RK Splan**. 2014. Instruction for change: Creativity, data and whole systems. North American College Teachers of America Annual Meeting. Bozeman, MT.
24. Jacobs, RD*, RM Brooks, JA Brown, SA Wilmott** and **RK Splan**. 2014. Effect of age on circulating inflammatory markers during luteal and follicular phases of the equine estrous cycle. Society for the Study of Reproduction Annual Meeting. Grand Rapids, MI.
25. Barskey**, C, KS Kohlhaas* and **RK Splan**. 2013. Effect of oral resveratrol on circulating cytokine levels in obese broodmares on pasture. 3rd Annual Undergraduate Equine Research Symposium. The Ohio State University, Columbus. OH.
26. Kohlhaas*, KS, JL Zambito, HS Spooner, RC Boston, ML Rhoads, JW Knight and **RK Splan**. 2013. Reproductive function and insulin resistance in obese mares supplemented with oral resveratrol. Mid-Atlantic Nutrition Conference. Timonium, MD.
27. Wood, CM, DM Denbow, DE Eversole, MA McCann, AP McElroy, **RK Splan** and NM Tamim. 2013. Managing individualized capstone experiences in a large department. North American College Teachers of America Annual Meeting. Blacksburg, VA.
28. Kohlhaas*, KS, JL Zambito, HS Spooner, RC Boston, ML Rhoads, JW Knight and **RK Splan**. 2013. Effects of oral resveratrol supplementation on insulin sensitivity and reproductive cyclicity in obese mares on pasture. *Journal of Equine Veterinary Science*. 33(5):370-371.
29. Laurie**, DE, **RK Splan**, KM Still, RL McKown, and GW Laurie. 2013. Equine tears contain the prosecretory mitogen lacritin primarily as a C-terminal-like fragment. *Journal of Equine Veterinary Science*. 33(5):360–361.
30. **Splan, RK** and CA Porr. 2013. Immersive, authentic learning contexts: Student reflections on personal and professional growth. Conference on Higher Education Pedagogy. Blacksburg, VA.
31. Stephens*, TD and **RK Splan**. 2013. Genetic variability of the American Shire Horse via pedigree analysis. *Journal of Equine Veterinary Science*. 33(5):329.
32. **Splan, R**, T Broyles, R Brooks, J Tussing and S Porr. 2012. Participant reflections on an immersive experiential learning program designed to prepare equine science students for life after college. National Association of Equine-Affiliated Academics Annual Meeting. Big Sky, MT.
33. Stephens*, TD and **RK Splan**. 2012. Genetic diversity in the American Shire horse" Report to the American Shire Horse Educational Foundation. 6pp.
34. Tussing, J, T Broyles, C Crisman, S Porr, and **R Splan**. 2012. Are our students prepared for the future? Career perceptions of equine science undergraduate

- students and implications for pedagogical practice. National Association of Equine-Affiliated Academics Annual Meeting. Big Sky, MT.
35. Norwood**, A, S Porr, **R Splan** and T McDonald. 2012. Equine management in higher education equestrian programs. National Association of Equine-Affiliated Academics Annual Mtg. Big Sky, MT.
 36. Pagano**, S, and **R Splan**. 2012. The effect of resveratrol on skeletal muscle miRNA profiles in obese mares. Virginia Tech Summer Undergraduate Research Symposium. Blacksburg, VA.
 37. Porr, CA, RA Clark, CE Smith, RM Brooks, and **RK Splan**. 2012. Static composting of equine mortality. Proc 4th International Symposium on Managing Animal Mortalities, Products, By-products, and Associated Health Risk, Dearborn, MI.
 38. Porr, CA and **RK Splan**. 2012. Training Emergency Responders on Equine Handling and Technical Rescue. Proc 4th International Symp Managing Animal Mortalities, Products, By-products, and Associated Health Risk, Dearborn, MI.
 39. Porr, CA, AB Phillips, RM Brooks, TW Broyles, CE Smith, RS Pleasant and **RK Splan**. 2012. Evaluation of knowledge deficit and information flow within the Virginia horse community. Conference on Higher Education Pedagogy. Blacksburg, VA.
 40. Tussing, J, T Broyles, C Crisman, S Porr and **R Splan**. 2012. Career perceptions of undergraduate students and implications for pedagogical practice. Conference on Higher Education Pedagogy. Blacksburg, VA.
 41. Porr, CA, CC Crisman and **RK Splan**. 2011. A Horse of a Different Color! 4-H Cloverbud activity module for K-3 audiences. Publication 380-104, Virginia Tech/Virginia Cooperative Extension.
 42. Porr, CA, CC Crisman and **RK Splan**. 2011. Puzzling Horse Parts! 4-H Cloverbud activity module for K-3 audiences. Publication 380-105, Virginia Tech/Virginia Cooperative Extension.
 43. Porr, CA, CC Crisman and **RK Splan**. 2011. Horses Wear Clothes, Too! 4-H Cloverbud activity module for K-3 audiences. Publication 380-106, Virginia Tech/Virginia Cooperative Extension.
 44. Porr, CA, CC Crisman and **RK Splan**. 2011. Eat Like A Horse! 4-H Cloverbud activity module for K-3 audiences. Publication 380-107, Virginia Tech/Virginia Cooperative Extension.
 45. Porr, CA, CC Crisman and **RK Splan**. 2011. Do You Have Horse Sense? 4-H Cloverbud activity module for K-3 audiences. Publication 380-108, Virginia Tech/Virginia Cooperative Extension.
 46. Porr, CA, CC Crisman and **RK Splan**. 2011. Knocking the Dirt Off! 4-H Cloverbud activity module for K-3 audiences. Publication 380-109, Virginia Tech/Virginia Cooperative Extension.
 47. Bhatnagar*, AS, RM Lewis, DR Notter, and **RK Splan**. 2011. Genetic parameters of conformation and movement in foals inspected by two North American sporthorse registries. *Journal of Equine Veterinary Science*. 31:243-244.
 48. Bhatnagar*, AS, CM East**, and **RK Splan**. 2011. Pedigree analysis of the North American population of Norwegian Fjord horses. *Journal of Equine Veterinary Science*. 31:241-242.
 49. **Splan, RK** and AD Ellis. 2011. Student service and faculty advancement in equine science at the research university. 62nd Annual European Association of Animal Production Meeting. Stavanger, Norway.
 50. **Splan, RK**. 2011. Equine science education in the United States. 62nd Annual European Association of Animal Production Meeting. Stavanger, Norway. (ASAS-EAAP invited presentation)

51. Schultz, NE, **RK Splan**, N Frank, RJ Geor and ME McCue. 2011. Role of incretin biology in equine metabolic syndrome. University of Minnesota College of Veterinary Medicine Research Symposium. Minneapolis, MN.
52. Cogan**, EN, RM Brooks, CA Porr and **RK Splan**. 2011. Evaluation of locomotor activity and behavior in weaned mares and foals using global positioning system technology. Virginia Tech 9th Annual Undergraduate Research and Prospective Graduate Student Conference. Blacksburg, VA.
53. Porr, CA, TW Broyles, RS Pleasant, CE Smith, RM Brooks and **RK Splan**. 2011. Educational resource use and information delivery methods preferred by Virginia cooperative extension agents. North American College Teachers of Agriculture Annual Meeting. Calgary, Alberta, Canada.
54. Carrington**, AC, JL Carrington**, JC Gould, RM Brooks, CA Porr and **RK Splan**. 2011. Effect of ivermectin and fenbendazole on fecal egg count reduction among foals in Virginia. *Journal of Equine Veterinary Science*. 31:320-321.
55. Samley**, KA, JA Brown, RM Brooks, **RK Splan** and CA Porr. 2011. Evaluation of dental wear patterns, chewing direction and grazing limb preference in horses. *Journal of Equine Veterinary Science*. 31:287-288.
56. Carrington**, JL, AC Carrington**, **RK Splan**, CA Porr and RM Brooks. 2011. Effect of caffeine, pentoxifylline and taurine on motility and longevity of post-thaw frozen semen. *Journal of Equine Veterinary Science*. 31:325-326. *Second Place, undergraduate student oral presentation competition*, Equine Science Society Meeting.
57. Porr, CA and **RK Splan**. 2011. Development and assessment of an equine-based first responder training program. *Journal of Equine Veterinary Science*. 351-352.
58. Porr, CA, RM Brooks, **RK Splan**, R Clark and CE Smith. 2011. Static composting of equine mortality. *Journal of Equine Veterinary Science*. 31:338-339.
59. **Splan, RK**, RM Brooks and CA Porr. 2011. Effect of gender and class standing on achievement goal orientation among agricultural students. Conference on Higher Education Pedagogy. Blacksburg, VA.
60. Wood, CM, C Cox, RA Dalloul, DE Eversole, JS McCann, TL McDonald, CA Porr and **RK Splan**. 2011. Evaluation of student learning in undergraduate animal handling laboratories. Conference on Higher Education Pedagogy. Blacksburg, VA.
61. Norwood**, A, T McDonald, **R Splan**, S Porr, and C Wood. 2011. It's all relative: Investigating horse usage levels in higher education programs. 3rd Annual Conference on Higher Education Pedagogy, Blacksburg, VA.
62. **Splan, RK** and CA Porr. 2011. Review of equine program instructors at land-grant universities. Conference on Higher Education Pedagogy. Blacksburg, VA.
63. **Splan, RK** and CA Porr. 2010. Defining excellence in undergraduate equine science education at the land-grant research university. National Association of Equine-Affiliated Academics Annual Meeting. Cazenovia, NY.
64. Bhatnagar*, AS, JJ Dascanio, RS Pleasant, SR Lewis, A Gray, O Schroeder, K Doyle, J Hall and **RK Splan**. 2010. Onset and incidence of palmar process fractures in warmblood foals. Virginia Tech Graduate Student Association Symposium. Blacksburg, VA.
65. Bhatnagar*, AS and **RK Splan**. 2010. Genetic variability of the Norwegian Fjord horse in North America. Report to the Norwegian Fjord Horse Registry. 10 pp.
66. Porr, CA, J Brown and **RK Splan**. 2010. Participant perceptions of value for an equine emergency responder training course. North American College Teachers of Agriculture Annual Meeting. State College, PA.

67. Bhatnagar*, AS, RM Lewis, DR Notter and **RK Splan**. 2010. Genetic parameters of foal scores for two North American sporthorse registries. Proc. 9th World Congress on Genetics Applied to Livestock Production. Leipzig, Germany.
68. Bhatnagar*, AS, JJ Dascanio, RS Pleasant, SR Lewis, A Gray, O Schroeder, K Doyle, J Hall and **RK Splan**. 2009. Hoof conformation and palmar process fractures in warmblood foals. *Journal of Equine Veterinary Science*. 29:435-436.
69. Dascanio, JJ, RS Pleasant, SG Witonsky, SR Lewis, OE Schoeder, GA Gray, TL Ferguson and **RK Splan**. 2009. Palmar process fractures in foals. Proc. AAEP. 55:238.
70. Wood, CM, WE Beal, EA Dunnington, DE Eversole, H Jiang, AP McElroy, **RK Splan** and ML Wahlberg. 2008. Capstone experiences in Animal and Poultry Sciences: opportunity and challenge. *J. Anim. Sci.* 86(E-Suppl. 2):397.
71. Wood, CM, WE Beal, EA Dunnington, DE Eversole, AP McElroy, and **RK Splan**. 2008. A holistic approach to undergraduate curriculum review and revision in Animal and Poultry Sciences: process and results. *J. Anim. Sci.* 86(E-Suppl. 2):398.
72. Denham*, SF and **RK Splan**. 2007. Growth and conformation changes in pre-weaning warmblood foals. *J. Anim. Sci.* 85(2):24-25.
73. **Splan, RK**, WB Staniar and SF Denham*. 2007. Growth and conformation changes in warmblood horses from birth to two years of age. Proc. Equine Sci. Soc. Baltimore MD. 157-158.
74. Denham*, SF, WB Staniar and **RK Splan**. 2007. Linear and temporal kinematics of the walk in suckling and weanling warmblood foals. Proc. Equine Sci. Soc. Baltimore MD.
75. **Splan, RK** and EA Dunnington. 2007. Creating a niche market in an undergraduate equine science program. Proc. Equine Sci. Soc. Baltimore MD. 278-279.
76. **Splan, RK**, DS Kronfeld, KH Treiber, TM Hess and WB Staniar. 2005. Genetic predisposition for laminitis in ponies. Proc. Equine Sci. Soc. Tucson, AZ. 219-220.
77. Smith*, AM and **RK Splan**. 2005. Correlations between yearling body measurements and career racing performance. Proc. Equine Sci. Soc. Tucson, AZ. 222-223.
78. Hess, TM, DS Kronfeld, KH Treiber, BM Byrd, WB Staniar and **RK Splan**. 2005. Laminitic metabolic profile in genetically predisposed ponies involves exaggerated compensated insulin resistance. *J. Anim. Physiol. Nutr.* 12:431.
79. **Splan, RK**, DS Kronfeld, KH Treiber, TM Hess and WB Staniar. 2005. Genetics of laminitis in ponies. Proc: 2005 WALTHAM® - Virginia Tech Symposium on "Innovative, Nutritional, Metabolic and Genetic Countermeasures to Equine Laminitis", Washington, DC.
80. Staniar, WB, DS Kronfeld, KH Treiber, **RK Splan** and PA Harris. 2004. Thoroughbred growth characterized by a baseline and systematic deviation. Proc. 2nd European Conference on Equine Nutrition. Dijon, France. *Growing Horse: Nutrition and Prevention of Growth Disorders*. 114:61-63.
81. Knehr*, C. G., JL Robertson and **RK Splan**. 2004. Melanoma in horses: A review of 245 cases. Southern Section American Society of Animal Science Meeting. Tulsa, OK.
82. Knehr*, CG, JL Robertson and **RK Splan**. 2003. Genetic and environmental factors affecting development of equine melanocytic tumors. Proc. 18th Equine Nutrition and Physiology Society Meeting, East Lansing, MI. 256-257.
83. **Splan, RK**. 2003. Genetic characterization of American Milking Devon cattle. Southern Section ASAS, Mobile, AL.

84. Amory**, JT, EA Dunnington and **RK Splan**. 2003. Characterization of conformational parameters in the Thoroughbred horse. Proc. Equine Nutrition and Physiology Society Meeting, East Lansing, MI.
85. **Splan, RK**. Mare and foal project in a senior-level horse management course with large class size. 2003. Proc. Equine Nutrition and Physiology Society Meeting, East Lansing, MI.
86. Dunnington, EA and **RK Splan**. 2003. Development of a sport horse breeding program at Virginia Tech. Proc. Equine Nutrition and Physiology Society Meeting, East Lansing, MI.
87. Williams, CA, RM Hoffman, DS Kronfeld, TM Hess, JE Waldron, **RK Splan**, KE Saker and PA Harris. 2002. Oxidative stress and antioxidant supplementation in horses during a competitive endurance ride. ADSA-ASAS-CSAS Joint Annual Meeting, Quebec City, Quebec, Canada.
88. Hunter**, HB and **RK Splan**. 2002. Temporal variables of the canter in the Tennessee Walking Horse. Southern Section American Society of Animal Science Meeting. Orlando, FL.
89. **Splan, RK**. 2002. Genetic analysis of the Milking Devon. Report to the American Livestock Breed Conservancy and American Milking Devon Association.
90. Van Vleck, LD, **RK Splan** and LV Cundiff. 2001. Heterogeneity of variance and estimation of genetic parameters. Midwest Section American Society of Animal Science Meeting. Des Moines, IA.
91. Cunningham, EP, JJ Dooley, **RK Splan** and DG Bradley. 2000. Genetic roots of the Thoroughbred horse. Irish Journal of Agricultural and Food Research. 39(3):477.
92. **Splan, RK** and EP Cunningham. 1999. Selection of bulls for cryopreservation of semen for the conservation of Kerry Cattle. Annual American Society of Animal Science Meeting. Indianapolis, IN.
93. **Splan, RK**, LV Cundiff and LD Van Vleck. 1998. Genetic correlations between male carcass and female growth and reproductive traits in beef cattle. Proc. 6th World Congress on Genetics Applied to Livestock Production. Armidale, NSW. Australia. 23:274-277.
94. Van Vleck, LD and **RK Splan**. 1998. An alternative for mixed model analyses of large, messy data sets (MTDFREML). Proc. 10th Kansas State Univ. Conference on Applied Statistics in Agriculture. Manhattan, KS. 96-108.
95. **Splan, RK**, LV Cundiff and LD Van Vleck. 1998. Genetic correlations between genotypes for carcass traits and direct and maternal genotypes for weaning weight in beef cattle. Annual American Society of Animal Science Meeting. Denver, CO.
96. Cunningham, EP and **RK Splan**. 1998. A strategy for bull selection in the conservation of Kerry Cattle. Report to Irish Agriculture and Food Development Authority and Kerry Cattle Herd Book Committee. 31 pp.
97. **Splan, RK**. 1997. Genetic improvement for sex-specific traits in beef cattle. Proc. 29th Annual Mtg. Beef Improvement Fed. Dickinson, ND. 231-220.
98. **Splan, RK**, LD Van Vleck and HD Hafs. 1997. Determination of empirical estimates of power for binomial data. Proc. 9th Kansas State Univ. Conference on Applied Statistics in Agriculture. Manhattan, KS. 57-61.
99. **Splan, RK**, LV Cundiff and LD Van Vleck. 1997. Heritabilities of and genetic correlations among sex-specific traits in beef cattle. Annual American Society of Animal Science Meeting. Nashville, TN.
100. **Splan, RK**, HD Hafs and LD Van Vleck. 1997. Empirical estimates of power of the test for detecting treatment differences with binomial data. Midwest Section American Society of Animal Science Meeting. Des Moines, IA.

101. **Splan, RK**, LV Cundiff and LD Van Vleck. 1996. Genetic parameters for growth and reproductive traits of crossbred heifers. Annual American Society of Animal Science Meeting. Rapid City, SD.
102. **Splan, RK**, LV Cundiff and LD Van Vleck. 1996. Estimates of genetic parameters of performance traits for crossbred heifers. Midwest Section American Society of Animal Science Meeting. Des Moines, IA.
103. **Splan, RK**, BD Banks, ME Benson and GC Good. 1994. Genetic and environmental effects of weaning weight records from purebred Suffolk lambs. Midwest Section American Society of Animal Science Meeting. Des Moines, IA.

RESEARCH AND PROFESSIONAL PRESENTATIONS

1. Student-centered learning programs in the animal sciences. Department of Animal and Veterinary Sciences, Cal Poly, Pomona, CA. April, 2016.
2. A new approach to undergraduate education in the animal sciences. Department of Animal Science, Sul Ross State University, Alpine, TX. March, 2016.
3. Rethinking education: Lessons in adaptation. Department of Animal Science, University of Minnesota, Saint Paul, MN. January, 2016.
4. Rethinking education. Department of Animal Science, Michigan State University, East Lansing, MI. December, 2015.
5. Opportunities for undergraduate education in equine science. Department of Animal Science, Colorado State University, Fort Collins, CO. January, 2015.
6. New ideas for equine science education. Department of Equine Science, Otterbein University, Westerville, OH. May, 2014.
7. Rethinking education: Lessons in adaptation and innovation. Department of Animal Science, South Dakota State University, Brookings, SD. March, 2014.
8. Equine science education in the United States. 62nd EAAP Annual Meeting, Stavanger, Norway. September, 2011. (ASAS-EAAP Invited Speaker)
9. Building a teaching program in animal science at the land-grant university. Department of Animal Science, Colorado State University. Fort Collins, CO. April, 2011.
10. Undergraduate research in equine science. VT-PSU Equine Science Undergraduate Research Symposium. Middleburg, VA. March, 2011.
11. Form to Function: Redefining an Old Cliché. 15th Annual Animal Science Graduate Student Association Invited Speaker Series. North Carolina State University. Raleigh, NC. February, 2004.
12. Genetic history of the Thoroughbred. Department of Animal Science, Cornell University. Ithaca, NY. September, 2001.
13. Inbreeding and founder contributions in Kerry Cattle. Teagasc Research Conference. Dublin, Ireland. December, 1999.

CONSULTING AND OTHER INVITED PROFESSIONAL PRESENTATIONS

Advisory Council, Delaware Valley College Equine Program, 2014 – present
 External Reviewer, Delaware Valley University Department of Equine Science and Management, 2016
 External Reviewer, Wilson College Equine Program, 2011

1. Sporthorse handling workshop. Murray State University. Murray, KY. July, 2016.

2. Top ten tips for buying the right horse. Virginia Horse Festival, Doswell, VA. March 2015.
3. Horse breeding and management. Cultural and scientific exchange with delegation from Animal Husbandry Bureau and Animal Science and Technology Bureau, Xinjiang Uygur Autonomous Region, China. Middleburg, VA. December, 2014.
4. Responsible choices in horse breeding. NE-1041 Multi-states Project Outreach Meeting. Brookings, SD. August, 2014.
5. Sporthorse breeding. Hoof and Woof 4-H Club Field Trip. Middleburg, VA. August, 2014.
6. Breeding the performance horse. Nokesville 4-H Club Workshop. Middleburg, VA. July, 2014.
7. Collaborative equine nutrition, reproduction, and genetic conservation research between the Smithsonian Conservation Biology Institute and the Virginia Tech MARE Center. Rappahannock Association for the Arts and the Community. Washington, VA. April 2014.
8. Equine parasite resistance in-service seminar for extension agents. Virginia Tech Middleburg Agricultural Research and Extension Center. Middleburg, VA. April, 2014.
9. Horse management topics. Hoof and Woof 4-H Club Workshop. Middleburg, VA. July, 2013.
10. Virginia Region Pony Clubs H-B Preparatory Seminar. Middleburg, VA. March, 2013.
11. Conformation of the equine athlete. Virginia Region Pony Clubs H-B Prep Seminar. Middleburg, VA. March, 2013.
12. An introduction to equine genetics. Southern States Basic FeedMaster Program, Richmond, VA. February, 2013.
13. Mathematics and engineering in equine science. Virginia Governor's School Workshop. Middleburg, VA. November, 2012.
14. Applied statistics in animal research. Virginia Governor's School Workshop. Middleburg, VA. November, 2012.
15. Genetic diversity in the American Shire horse. American Shire Horse Educational Foundation, Middleburg, VA. June, 2012.
16. Equine genetics. Southern States Advanced FeedMaster Program, Knoxville, TN. February, 2012.
17. Breeding for elite performance. Maryland Horse Exposition, Timonium, MD. January, 2012.
18. Basic principles of equine genetics. Southern States FeedMaster Program, Richmond, VA. November, 2011.
19. Breeding to win: Genetics of the performance horse. Marion duPont Scott Equine Medical Center. Leesburg, VA. February, 2011.
20. Genetics for the Breeder: Workshop for the Mid-Atlantic Hanoverian Breeders' Club. Middleburg, VA. February, 2011.
21. Breeding the performance horse. Maryland Horse Expo. Timonium, MD. January, 2011.
22. Performance horse conformation. USEA Area II Regional Meeting. Leesburg, VA. January, 2011.
23. Basic equine genetics. Southern States FeedMaster Program. Raleigh, NC. December, 2010.
24. Educating the future equine professional. World Breeding Federation for Sport Horses, General Assembly. Dressage at Devon. Devon, PA. September, 2010.

25. Conformation and its relationship to functional performance. Norwegian Fjord Horse Registry Annual Meeting. Herndon, VA. January, 2010.
26. Basic equine genetics. Southern States FeedMaster Program. Raleigh, NC. December, 2009.
27. Equinomics: Horsekeeping in the current economy. Southern States Forum. Middleburg, VA. December, 2009.
28. Evaluating your breeding program. West Virginia Horse Expo. Bluefield, WV. September, 2009.
29. Equine form and function. West Virginia Horse Expo. Bluefield, WV. September, 2009.
30. Equine breeding and genetics. Southern States FeedMaster Program. Raleigh, NC. November, 2007.
31. Equine behavior. Southern States FeedMaster Program. Raleigh, NC. November, 2007.
32. Horse breeds and genetics. Southern States FeedMaster Program. Raleigh, NC. November, 2006.
33. Biomechanics of the equine athlete. Equine Affaire. West Springfield, MA. November, 2005.
34. Genetic improvement of horses. Equine Affaire. West Springfield, MA. November, 2005.
35. Coat color genetics. Equine Affaire. West Springfield, MA. November, 2005.
36. Conformation and performance of horses. Maryland Horse Expo. Timonium, MD. January, 2005.
37. Conformation and its effects on equine performance. New Jersey Annual Horse Management Seminar. New Brunswick, NJ. March, 2004.
38. Genetics of horse color. NCSU Horse Genetics Short Course. Raleigh, NC. January, 2004.
39. Selection of stallions and mares for genetic improvement. NCSU Horse Genetics Short Course. Raleigh, NC. January, 2004.
40. Conformation and Soundness. Student Chapter, AAEP; VMRCVM. Blacksburg, VA. September, 2003.
41. Conformation Analysis. Student Chapter, AAEP; VMRCVM. Blacksburg, VA. January, 2003.
42. Body condition scoring for horses. VT In-Service Extension Program. Blacksburg, VA. July 2002.
43. Breeding for the perfect foal. Virginia Horse Council Annual Meeting. Fredericksburg, VA. February 2002.

GRANTS RECEIVED (\$1,302,100 total funded)

1. Circulating microRNA as novel biomarkers for equine insulin resistance. Grayson-Jockey Club Research Foundation (2015-2016) Hess, TM, JE Bruemmer, BR McIntosh and **RK Splan**. \$35,008.
2. Effects of a novel feed additive on post-exercise plasma IL-1 beta and lactate levels. Probiotech International (2015) AL Wagner and **RK Splan**. \$2,500.
3. Effect of omega 3 fatty acid supplementation on female fertility and embryonic gene expression in horses. Cooperative Research Farms and DSM Nutritional Products (2013-2015) **Splan, RK**. \$9,008.

4. Effects of citrus bergamot extract on lipid profile and glucose/insulin dynamics in insulin-resistant horses. NatHealth Solutions (2014) Hess, TM and **RK Splan**. \$16,200.
5. Equine science study abroad student travel support. Pat Stuart Endowment for Equine Studies (2014) **Splan, RK**. \$4,000.
6. Equine scales purchase for Campbell Arena. Pat Stuart Endowment for Equine Studies (2014) **Splan, RK** and SE Johnson. \$8,000.
7. Empowering students to achieve STEM success. National Science Foundation S-STEM 1259692 (2013-2017) Denbow, DM, KF Knowlton, IK Mullarky and **RK Splan**. \$557,937.
8. Effect of high glycaemic diets on systemic inflammation associated with insulin resistance. Virginia Horse Industry Board (2013-2014) **Splan, RK** and JK Suagee. \$7,248.
9. Evaluation of the Animal and Poultry Sciences capstone experience requirement. CALS Integrative Grant (2013) Wood, CM, EA Dunnington and **RK Splan**. \$7,200.
10. Undergraduate Equine Research Symposium: Building research capacity among Virginia Tech's equine science students. CALS Integrative Grant (2013) **Splan, RK**. \$2,700.
11. Efficacy of post-exercise supplementation on early muscle glycogen resynthesis and protein synthesis in horses. Cooperative Research Farms (2012-2013) **Splan, RK**. \$38,090.
12. Research equipment grant. CALS (2012-2013) **Splan, RK**. \$41,000.
13. Evaluation of the Animal and Poultry Sciences capstone experience requirement. CIDER (2012-2013) Wood, CM, **RK Splan**, DE Eversole and EA Dunnington. \$2,000.
14. Travel award for equine science undergraduate research symposium. Virginia Tech Office of Undergraduate Research (2012) **Splan, RK**. \$500.
15. Therapeutic effect of resveratrol on metabolism and reproductive parameters in overweight mares. Virginia Horse Industry Board (2012-2013) **Splan, RK**, ML Rhoads and HS Spooner. \$6,200.
16. Support for equine science educational complex. Hillsdale Fund (2012-2015) **Splan, RK** and V Meacham. \$30,000.
17. Assessment of goal-setting behavior and attainment of learning objectives among undergraduate participants in a short-duration study abroad program. CIDER. (2012) **Splan, RK** and CA Porr. \$2,000.
18. Support for equine science educational complex. Somerset Fund (2011) Brooks, RM, **RK Splan**, CA Porr and V Meacham. \$100,000.
19. Role of incretin biology in equine metabolic syndrome. Morris Animal Foundation. (2011-2012) Geor, RE, N Frank, N Schultz, **RK Splan** and ME McCue. \$65,336.
20. Genetic variability of the American Shire Horse. American Shire Horse Education Foundation. (2011-2012) **Splan, RK**. \$3,000.
21. Building research capacity and 21st century skills among second-year students in the agricultural sciences. USDA-NIFA Higher Education Challenge Grant. (2011-2014) **Splan, RK**, KF Knowlton, MA McCann, MA Hanigan, O Odeh and TW Broyles. \$28,033.
22. Effect of age on circulating inflammatory markers during luteal and follicular phases of the equine estrous cycle. Virginia Horse Industry Board. (2011-2012) **Splan, RK**, RM Brooks and JA Brown. \$7,398.
23. Equine Research and Student Education. WALTHAM. (2010-2012) **Splan, RK** and CA Porr. \$7,200.

24. Pedagogical strategies in immersive experiential learning contexts for undergraduate animal science students. Center for Instructional Design and Educational Research. (2009-2012) **Splan, RK**, CM Wood and CA Porr. \$6,000.
25. Reduction of knowledge deficit among Virginia horse industry participants. CALS Integrated Grant. (2010-2011) Porr, CA, RM Brooks, RS Pleasant, C Smith, TW Broyles, AB Phillips and **RK Splan**. \$25,830.
26. Development of equine learning modules for Virginia 4-H Cloverbuds. Virginia 4-H Horse Program. (2010-2011) **Splan, RK** and CA Porr. \$2,000.
27. Undergraduate equine reproduction research. Pat Stuart Endowment for Equine Studies. (2010-2011) **Splan, RK**, CA Porr and RM Brooks. \$6,000.
28. Support for outreach programming – MAREC Seminar. Virginia Horse Industry Board. (2010-2011) Porr, CA and **RK Splan**. \$500.
29. Development of equine-based learning modules for Virginia 4-H Cloverbuds and Kindergarten through 3rd grade audiences. Virginia Horse Industry Board. (2010-2011) **Splan, RK**, CA Porr and CC Crisman. \$7,600.
30. In the beginning: A comparative study of early stud books. National Sporting Library and Museum. (2010-2011) **Splan, RK**. \$650.
31. Experiential Learning Faculty Study Group. Center for Instr. Design and Educational Research. (2010-2011) Wood, CM, RA Dalloul, DE Eversole, JS McCann, TL McDonald, CA Porr and **RK Splan**. \$2,100.
32. Evaluation of student learning in undergraduate animal handling laboratories. Center for Instructional Design and Educational Research. (2010-2011) Wood, CM, RA Dalloul, DE Eversole, JS McCann, TL McDonald, CA Porr and **RK Splan**. \$2,000.
33. Genetic variability of the Norwegian Fjord Horse in the United States. Norwegian Fjord Horse Registry. (2010) **Splan, RK** and AS Bhatnagar. \$1,000.
34. Cash support for MAREC equine research and education programs. Various donors. (2009-2011) **RK Splan** and CA Porr. \$168,960.
35. Support of the sporthorse breeding and teaching program. Peterson Foundation. (2008-2010) **RK Splan**. \$75,000.
36. Pharmacokinetics of continuous rate infusion of ceftiofur sodium in healthy foals. Virginia Horse Industry Board. (2008-2009) Crisman, M, J Wearn, **R Splan** and D Hodgson. \$9,566.
37. Equine science summer study abroad to Germany. Office of International Research and Educational Development. (2008) **Splan, RK** \$2,500.
38. Genetic and phenotypic risk factors for laminitis. Welsh Pony and Cob Foundation. (2007-2008) Goer, R, S Bailey, M Binns, J Elliot, P Harris and **R Splan**. \$10,000.
39. Biomechanics research video equipment. Pat Stuart Endowment for Equine Science. (2005) **Splan, RK**. \$5,154.
40. Summer Sporthorse Breeding Internship. Pat Stuart Endowment for Equine Science. (2005-2011) **Splan, RK**. \$30,500.
41. Characterization of mild lameness of horses using portable, objective measurement techniques. Virginia Agricultural Council. (2004-2005) **Splan, RK**. \$17,000.
42. Undergraduate equine science instructional support. Pat Stuart Endowment for Equine Science. (2003-2007) **Splan, RK**. \$24,590.
43. Equine reproduction research equipment. SCHEV Equipment Trust. (2001) **Splan, RK**. \$4,274.
44. Livestock scale for equine growth research. SCHEV Equipment Trust. (2000) **Splan, RK**. \$4,503.

OTHER AFFILIATIONS AND INVOLVEMENT

Board of Directors, International Sporthorse Registry/Oldenburger Registry NA, 2008-2015

Board of Directors, Southwest Virginia Dressage Association, 2003-09

Board of Directors, Virginia Arabian Horse Association, 2007-08

Board of Directors, American Livestock Breeds Conservancy, 2002-04

Virginia State 4-H Horse Advisory Committee, 2000-2004

United States Dressage Federation "L" Graduate, with Honors, 2005

United States Dressage Federation Bronze Medalist, 2004