

Clayton D. Hilton

**CURRICULUM VITAE
CLAYTON D. HILTON**

Dick & Mary Lewis Kleberg College of Agriculture and Natural Resources
Dept. of Animal Science and Veterinary Technology & The Caesar Kleberg Wildlife Research Institute
MSC 228, 1153 Engineering Ave. Ph. 361.593.3258
Texas A&M University-Kingsville clayton.hilton@tamuk.edu
Kingsville, TX 78363

EDUCATION AND EXPERIENCE

Internship, Department of Large Animal Medicine & Surgery, Auburn University College of Veterinary Medicine. November 1998.

Doctor of Veterinary Medicine, Auburn University College of Veterinary Medicine. May 1997.

Master of Science, Wildlife Ecology, Auburn University, Dept. of Zoology & Wildlife Science. March 1994. Thesis Title: Ecologic Implications of Helminth Parasites of Bats in Alabama. Major Professor: Troy L. Best.

Bachelor of Science, Wildlife Biology, Auburn University, Dept. of Zoology & Wildlife Science. March 1988.

EMPLOYMENT

Professor & Jo and Bruce Gunn Endowed Director of Veterinary Technology, Department of Animal Science and Veterinary Technology, Texas A&M University-Kingsville. May 2020 – present.

Wildlife Veterinarian, Caesar Kleberg Wildlife Research Institute, Kingsville, TX, April 2014 – present.

Unit Manager, Alkek Captive Ungulate Research Facility, Kingsville, TX, 2016 – present.
Alternate Attending Veterinarian, February 2017 – present.

Associate Professor & Jo and Bruce Gunn Endowed Director of Veterinary Technology, Department of Animal Science and Veterinary Technology, Texas A&M University-Kingsville. May 2019 – May 2020.

Associate Professor & Director of Veterinary Technology, Department of Animal, Rangeland & Wildlife Sciences, Texas A&M University, Kingsville, TX. April 2014 – May 2019.

Attending Veterinarian, May 2014 – February 2017.

Consulting Veterinarian, Texas State Aquarium, July 2020 – present.

Vice-President of Animal Care, Conservation & Education, Birmingham Zoo, Inc. November 2012 – April 2014.

Vice-President of Animal Care & Conservation, Birmingham Zoo, Inc. September 2009 – November 2012.

Staff Veterinarian, Birmingham Zoo, Inc. August 2008 – September 2009.

Veterinarian, Abilene Zoological Gardens. December 2004 – August 2008.

Chief Veterinarian, Emergency Veterinary Clinic, Abilene, TX. December 2004 – August 2008.

Clayton D. Hilton

Veterinarian, Big Country Veterinary Clinics, Abilene, TX. December 2004 – August 2008.

Resident Veterinarian, The Bartlett Ranch, Pike Road, AL. May 2004 – November 2004.

Graduate Research Associate, Department of Veterinary Preventive Medicine, Ohio State University. January 2004 – May 2004.

Assistant Professor, Department of Anatomy, Physiology & Pharmacology, Auburn University College of Veterinary Medicine. August 2002 – December 2003.

Clinical Instructor, Department of Anatomy, Physiology & Pharmacology, Auburn University College of Veterinary Medicine. May 2002 – August 2002.

Adjunct Instructor, Department of Anatomy, Physiology & Pharmacology, Auburn University College of Veterinary Medicine. August 1999 – May 2002.

Staff Veterinarian, The Montgomery Zoo, Montgomery, AL. July 1999 – May 2002.

Intern, Department of Large Animal Medicine & Surgery, Auburn University College of Veterinary Medicine. November 1997 – November 1998.

Owner, Salem Veterinary Services, Salem, AL. June 1997 – July 1999.

COURSES TAUGHT

Texas A&M University-Kingsville

VETT 4322: Veterinary Disease Management IV. Spring 2020 & 2021.

VETT 4315: Veterinary Disease Management III. Fall 2019 & 2020.

VETT 4413: Large Animal Medicine & Surgery. Fall 2015, 2016, 2017 & 2018.

VETT 4416: Avian & Exotic Animal Medicine. Spring 2016, 2017, 2018 & 2019.

VETT 4210: Clinical Externship I. Summer 2015, 2016, 2017 & 2018.

VETT 4219: Clinical Externship II. Spring 2015, 2016, 2017 & 2018.

VETT 4318: Laboratory Animal Medicine. Fall 2015 & 2016.

VETT 3306: Veterinary Radiology. Spring 2015.

VETT 3408: Small Animal Medicine II. Spring 2015.

VETT 3309: Veterinary Parasitology. Spring 2015.

VETT 3102: Medical Terminology. Fall 2014.

VETT 3105: Pharmacologic Calculations. Fall 2014.

VETT 3404: Small Animal Medicine I. Fall 2014.

VETT 3403: Veterinary Anatomy & Physiology. Fall 2014.

Auburn University College of Veterinary Medicine

VMED 9111: Veterinary Anatomy I. Fall 2002 & 2003.

VMED 9121: Veterinary Anatomy II. Spring 2002.

VMED 9350: Veterinary Toxicology. Fall 1997 – Fall 2001.

VMED 9621: Clinical Rotations in Veterinary Medicine. Fall 1997; Winter, Spring & Summer 1998.

Auburn University

BIOL 2510: Human Anatomy Laboratory. Spring 1989 - 1991; Fall 1989 - 1991; Winter 1990 & 1991.

SCMH 1010: Concepts of Science Recitation. Winter, Spring & Fall 1992 & 1993.

BIOL 5420: Animal Physiology Laboratory. Winter 1991.

Clayton D. Hilton

CURRENT GRADUATE STUDENT RESEARCH PROJECTS

Eccles, Georgina. Ph.D. candidate. Department of Rangeland and Wildlife Sciences, “Investigating spring migration strategies of northern pintails”. Expected graduation date: August 2023. **Member of committee.**

Granger, Megan. M.S. candidate, Department of Rangeland and Wildlife Sciences, “Demographics of feral nilgai in south Texas and their management implications”. Expected graduation date: December 2021. **Chair of committee.**

Killam, Austin. M.S. candidate, Department of Animal, Rangeland and Wildlife Sciences, “Effects of Water Quality & Availability on Consumption of Supplemental Feed in White-tailed Deer.” Expected graduation date: December 2021. **Chair of committee.**

Reeves, Ashley. Ph.D. candidate, Center for Wildlife Health, University of Tennessee-Knoxville, “Impacts of Genetic Erosion on Ocelot Semen Traits and Conservation Consequences”. **Local Chair of committee.** Expected graduation date: June 2022.

Villanueva, Lorena. M.S. candidate. Department of Animal Science & Veterinary Technology, “Diflubenzuron Efficacy in Cattle and White-tailed Deer”. **Co-Chair of committee.** Expected graduation date: May 2022.

COMPLETED GRADUATE STUDENT RESEARCH PROJECTS

Pope, Tiffany. M.S. Candidate. Department of Animal, Rangeland and Wildlife Sciences, “Potential Transmission of Select Parasites to Ocelots in south Texas.” 2019. **Chair of committee.**

Alonso, Nicole. M.S. Candidate. Department of Animal, Rangeland & Wildlife Sciences. Research proposal: “Effects of Thermal Environment on the Growth and Health of White-tailed Deer (*Odocoileus virginianus*) During Summer.” 2017. **Member of committee.**

Hoskinson, Christine. M.S. Candidate. Department of Animal, Rangeland & Wildlife Sciences. Research proposal: “Selective Serosurvey for Pathogens in Free-ranging American Black Bears (*Ursus americanus*) in Mississippi”. 2017. **Chair of committee.**

de la Torre, Jose Remigio. M.S. Candidate, Department of Animal, Rangeland & Wildlife Sciences. Research proposal: “Seroprevalence of *Neospora caninum* in axis and fallow deer in Northern Mexico.” 2016. **Member of committee.**

Garrick, Matthew. M.S. Candidate, Department of Animal, Rangeland & Wildlife Sciences. Research proposal: “Nutrient Reserve Dynamics of Female Northern Pintails Wintering Along the Texas Coast.” 2016. **Member of committee.**

OTHER RESEARCH PROJECTS

Unger, A. M., E. P. Tanner, **C. D. Hilton**, K. A. Wells, S. J. Corbett, M. Bodenchuck. 2020-present. Vulture Roost Dynamics in Kingsville, Texas

Hilton, C. D., S. E. Henke, C. B. Eversole, T. L. Pope, J. O. Huerta# and A. Lowery*. 2019-2020. Development of an anesthetic protocol for American alligators. #graduate student, *undergraduate student.

Clayton D. Hilton

Hilton, C. D., T. L. Pope#, A. Killam#, L. Zoromski#, W. C. Conway, and H. J. Edlin. 2018 - 2019. Demographics and reproduction in female nilgai (*Boselaphus tragocamelus*) in South Texas. #graduate student

Hilton, C. D., and W. P. Kuvlesky, Jr. 2018 - 2020. Disease surveillance of translocated wild turkeys in south Texas, Phase II.

Ballard, B. M., **C. D. Hilton**, J. VonBank and M. M. House. 2018 - 2021. Testing attachment techniques for back-mounted tracking devices on ducks.

Henke, S. E., C. B. Eversole, J. O. Huerta#, T. L. Pope#, A. Lowery*, B. Loflin, and **C. D. Hilton**. 2019. Determining the cause of darkening jaw patches on American alligators (*Alligator mississippiensis*). #graduate student, *undergraduate student.

Reeves#, A. M., J. V. Lombardi#, **C. D. Hilton**, M. E. Tewes, J. P. Leonard, M. Sergeyev#, and T. A. Campbell. 2019-2020. Wild felid disease prevalence on East Foundation's El Sauz Ranch. #graduate student.

Pope#, T. L., S. E. Henke, S. Rideout-Hanzak, and **C. D. Hilton**. 2019. Fire effects on the viability of *Baylisascaris procyonis* eggs in the environment. #graduate student.

Pope#. T. L., A. K. Killam#, V. M. Cavazos*, S. E. Henke, H. L. Perotto-Baldivieso, and **C. D. Hilton**. 2019. Raccoon roundworm as an occupational hazard to wildlife caregivers. #graduate student, *undergraduate student.

Villanueva*, L., A. K. Killam#, V. Saenz*, C. Hoskinson, T. L. Pope#, J. Rogers, **C. D. Hilton**, N. L. Bell, and G. L. Schuster. 2019. Pharmacokinetics of diflubenzuron in white-tailed deer (*Odocoileus virginianus*). #graduate student, *undergraduate student

PUBLICATIONS

Refereed Journal Articles

Pope, T. L., A. K. Killam, V. M. Cavazos, S. E. Henke, D. B. Wester, H. L. Perotto-Baldivieso, and **C. D. Hilton**. 2021. Raccoon roundworm as an occupational hazard to caregivers of captive wildlife. *Journal of Wildlife Rehabilitation*, 41(1):7-14.

Pope, T. L., S. E. Henke, D. B. Wester, S. Rideout-Hanzak, and **C. D. Hilton**. 2021. Effect of prescribed fire on the viability of *Baylisascaris procyonis* eggs. *Journal of Wildlife Diseases*, 57(1):94-103.
<https://doi.org/10.7589/JWD-D-20-00078>

Tobin, K., D. Zimmerman, J. Rasmussen, **C. D. Hilton**, R. E. Junge, D. Armstrong, W. Gann, L. Harveson, S. Gray, and C. Cray. 2020. Establishment of acute phase protein and serum protein electrophoresis preliminary reference values for pronghorn (*Antilocapra americana*). *Journal of Zoo and Wildlife Medicine*, 51:321-325. <https://doi.org/10.1638/2018-0226>

Yu, S., J. Modarelli, J. M. Tomeček, J. T. French, **C. D. Hilton**, and M. D. Esteve-Gasent. 2020. Prevalence of common tick-borne pathogens in white-tailed deer and coyotes in south Texas. *International Journal for Parasitology: Parasites and Wildlife*, 11:129-135. <https://doi.org/10.1016/j.ijppaw.2020.01.005>

Ellis, C. K., M. E. Wehtje, L. L. Wolfe, P. L. Wolff, **C. D. Hilton**, M. C. Fisher, S. Green, M. P. Glow, J. M. Halseth, M. J. Lavelle, N. P. Snow, E. VanNatta, J. C. Rhyon, K. C. VerCauteren, W. R. Lance, and P. Nol. 2019. Comparison of the efficacy of four drug combinations for immobilization of wild pigs. *European Journal of Wildlife Research*. <https://doi.org/10.1007/s10344-019-1317-z>

Hansler, T. P., S. E. Henke, H. L. Perotto-Baldivieso, J. A. Baskin and **C. D. Hilton**. 2017. Short-distance translocation as a management option for nuisance maritime pocket gophers. *Southeastern Naturalist*, 16:603-614.

De La Torre, J. R., C. Bautista-Piña, J. A. Ortega-S., A. Cantu-Covarrubias, M. G. Alvarez-Ojeda, D. Romero-Salas, S. E. Henke, **C. D. Hilton**, D. G. Hewitt, R. W. De Young, T. A. Campbell and F. C. Bryant. 2017. *Neospora caninum* in Axis Deer (*Axis axis*) and Fallow Deer (*Dama dama*) in Northern Mexico. *Journal of Wildlife Diseases*, 53(1):186-187.

Brewster, K., S. E. Henke, **C. D. Hilton** and J. A. Ortega-Santos, Jr. 2017. Use of Remote Cameras to Monitor the Potential Prevalence of Sarcoptic Mange in Southern Texas, USA. *Journal of Wildlife Diseases*, 53(2):377-381.

Spencer, J. A., K. S. Joiner, **C. D. Hilton**, J. P. Dubey, M. Toivio-Kinnucan, J. K. Minc, and B.L. Blagburn. 2004. Disseminated toxoplasmosis in a captive ring-tailed lemur (*Lemur catta*). *Journal of Parasitology*, 90(4):904-906.

Nusbaum, K. E., J. C. Wright, W. B. Johnston, A. B. Allison, **C. D. Hilton**, L. A. Staggs, D. E. Stallknecht and J. L. Shelnett. 2003. Absence of humoral response in flamingos and red-tailed hawks to experimental vaccination with a killed West Nile Virus vaccine. *Avian Diseases*, 47(3):750-752.

Aguilar, R. F. and **C. D. Hilton**. 1999. Clinical challenge: Cryptococcosis in a barasingha (*Cervus duvauceli*). *Journal of Zoo and Wildlife Medicine*, 30(4):591-594.

Hilton, C. D., D. G. Pugh, J. C. Wright, B. M. Waldrige, S. A. Simpkins, and A. M. Heath. 1998. How to determine and when to use body weight estimates and condition scores in llamas. *Veterinary Medicine*, 93(11):1015-1018.

Pugh, D. G., **C. D. Hilton**, and S. Mobini. 1998. Control programs for gastrointestinal nematodes in sheep and goats. *Compendium on Continuing Education for the Practicing Veterinarian*, Si 12-S 123.

Boyd, R. S. and **C. D. Hilton**. 1994. Ecologic studies of the endangered species *Clematis socialis* Kral. *Castanea*, 59:3 1-40.

Hilton, C. D., and T. L. Best. 1993. *Tamias cinereicollis*. *Mammalian Species*, 43(6): 1-5.

Durden, L. A., T. L. Best, N. M. Wilson, and **C. D. Hilton**. 1992. Ectoparasitic mites (Acari) of sympatric Brazilian free-tailed and big brown bats in Alabama. *Journal of Medical Entomology*, 29:507-511.

Non-refereed Articles

Hicks, R. T., D. G. Pugh, and **C. D. Hilton**. 1998. Care of orphan white-tailed deer fawns. Problem #6, Small Ruminant Teaching Module, American College of Veterinary Nutrition.

Clayton D. Hilton

Refereed Abstracts

Killam#, A. K., C. D. Hilton, D. G. Hewitt, A. M. Foley, and N. L. Bell. Effects of water salinity on intake of food and water by white-tailed deer. Texas Chapter of the Wildlife Society, virtual. 24-26 February 2021. #graduate student; paper.

Granger#, M. M., H. L. Perotto-Baldivieso, C. D. Hilton, S. E. Henke, and T. A. Campbell. Habitat utilization of nilgai during the winter in south Texas. Texas Chapter of the Wildlife Society, virtual. 24-26 February 2021. #graduate student; paper.

Granger#, M. M., C. D. Hilton, S. E. Henke, H. L. Perotto-Baldivieso, and T. A. Campbell. Reproductive Capabilities of Nilgai in South Texas. Texas Chapter of the Wildlife Society, virtual. 24-26 February 2021. #graduate student; poster.

Reeves#, A. M., D. L. Miller, W. F. Swanson, C. D. Hilton, J. V. Lombardi, M. E. Tewes, T. A. Campbell, and L. R. Schofield. Assisted reproductive techniques in free-ranging ocelot and bobcat populations of south Texas. Texas Chapter of the Wildlife Society, virtual. 24-26 February 2021. #graduate student; paper.

Eccles#, G. R., K. J. Kraai, D. P. Collins, J. D. James, M. D. Weegman, **C. D. Hilton**, and B. M. Ballard. 2020. Comparing spring migration strategies of Northern Pintails originating from different wintering regions across North America. Texas Chapter of the Wildlife Society, Corpus Christi, TX, 13-15 February 2020. #graduate student; poster.

Granger#, M. M., **C. D. Hilton**, S. Henke, W. C. Conway, and T. A. Campbell. 2020. Demographics of nilgai in South Texas. Texas Chapter of the Wildlife Society, Corpus Christi, TX, 13-15 February 2020. #graduate student; poster.

Killam#, A. K., **C. D. Hilton**, and D. G. Hewitt. 2020. Antler growth and anomalies observed in captive white-tailed deer (*Odocoileus virginianus*). Texas Chapter of the Wildlife Society, Corpus Christi, TX, 13-15 February 2020. #graduate student; poster.

Killam#, A. K., **C. D. Hilton**, D. G. Hewitt, A. M. Foley, and N. L. Bell. 2020. Effects of water salinity on dry matter intake by white-tailed deer (*Odocoileus virginianus*). Texas Chapter of the Wildlife Society, Corpus Christi, TX, 13-15 February 2020. #graduate student; poster.

Pope, T. L., S. E. Henke, D. B. Wester, S. Rideout-Hanzak, and **C. D. Hilton**. 2020. Effect of prescribed fire on the viability of *Baylisascaris procyonis* eggs. Texas Chapter of the Wildlife Society, Corpus Christi, TX, 13-15 February 2020.

Pope, T. L., A. K. Killam#, V. M. Cavazos*, S. E. Henke, D. B. Wester, H. L. Perotto-Baldivieso, **C. D. Hilton**. 2020. Raccoon roundworm as an occupational hazard to captive wildlife and their caregivers. Texas Chapter of the Wildlife Society, Corpus Christi, TX, 13-15 February 2020. #graduate student, *undergraduate student; paper

Henke, S. E., **C. D. Hilton**, and A. M. Fedynich. 2019. Aflatoxin Inhibits Phagocytic Activity of Macrophages in Northern Bobwhite and Exacerbates Crippling Loss. Texas Chapter of the Wildlife Society, Montgomery, TX. 21-23 February 2019.

Killam#, A. K., **C. D. Hilton**, and D. G. Hewitt. 2019. Effects of Water Quality and Availability on the Consumption of Pelleted Feed by White-tailed Deer. Texas Chapter of the Wildlife Society, Montgomery, TX. 21-23 February 2019. #graduate student; poster

Clayton D. Hilton

Huerta#, J., T. L. Weisheit-Pope#, A. K. Killam*, S. E. Henke, **C. D. Hilton**, and H. L. Perotto-Baldivieso. Raccoon roundworm: An occupational hazard to captive wildlife caregivers. Texas Chapter of the Wildlife Society, Dallas, TX. 9-11 February 2018. **#graduate student; *undergraduate student**; poster

Weisheit-Pope#, T. L., S. E. Henke, and C. D. Hilton. Chorioptic mange in white-tailed deer. Texas Chapter of the Wildlife Society, Dallas, TX. 9-11 February 2018. **#graduate student**; poster

Alonso#, N. A., D. G. Hewitt, R. W. DeYoung and **C. D. Hilton**. The effects of thermal environment on the growth and health of white-tailed deer fawns during summer. Texas Chapter of the Wildlife Society, San Antonio, TX. 17-19 February 2017. **#graduate student**; paper

Burchsted,* J. K., **C. D. Hilton**, B. S. Mitchell,# W. P. Kuvlesky, Jr., J. A. Ortega-Santos and L. A. Brennan. 2016. Prevalence of infectious and noninfectious diseases in Rio Grande wild turkeys located in southern Texas (preliminary work). Texas Chapter of the Wildlife Society, San Antonio, TX. 18-20 February 2016. *undergraduate student, **#graduate student**; poster

Hegler,* C., J. E. Plata,* T. Hansler#, S. E. Henke, H. Perotto, **C. D. Hilton** and J. Baskin. 2016. Is short-distance translocation a viable management option for maritime pocket gophers? Texas Chapter of the Wildlife Society, San Antonio, TX. 18-20 February 2016. *undergraduate student; **#graduate student**; poster

Saenz,* V. R., J. K. Burchsted*, **C. D. Hilton**, B. S. Mitchell,# W. P. Kuvlesky, Jr., J. A. Ortega-Santos and L. A. Brennan. 2016. Ectoparasite surveillance of wild turkeys in south Texas. Texas Chapter of the Wildlife Society, San Antonio, TX. 18-20 February 2016. *undergraduate student; **#graduate student**; poster

Sanders#, H., **C. D. Hilton**, W. R. Lance, N. Snow and D. G. Hewitt. 2016. Evaluation of the efficacy of nalbuphine-azaperone-medetomidine for immobilization of feral swine and the reversal of that immobilization with naltrexone and atipamezole. 2016. Texas Chapter of the Wildlife Society, San Antonio, TX. 18-20 February 2016. **#graduate student**; poster

Balderas*, L. D., L. M. Bowman*, **C. D. Hilton**, D. G. Hewitt and W. R. Lance. Evaluation of the efficacy of nalbuphine-medetomidine or nalbuphine-azaperone-medetomidine for immobilization of white-tailed deer and their reversal using naltrexone and atipamezole. Annual Meeting of the Texas Chapter of the Wildlife Society, Corpus Christi, Texas. 19-21 February 2015. *undergraduate research student; poster

Bowman*, L. M., L. D. Balderas*, D. G. Hewitt, **C. D. Hilton**, R. L. Reitz, D. B. Frels, Jr., J. A. Foster and R. W. DeYoung. Physiologically-relevant assays of dietary energy on white-tailed deer. Annual Meeting of the Texas Chapter of the Wildlife Society, Corpus Christi, Texas. 19-21 February 2015. *undergraduate research student; poster

Non-refereed Abstracts

Anderson, C. J., L. A. Brennan, **C. D. Hilton**, P. E. Klug, W. P. Bukoski, S. R. Siers, B. M. Kluever, A. B. Shiels, and S. C. Hess. 2020. Management of invasive rose-ringed parakeets on Kauai. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2019-2020.

Dykes, J. L., A. K. Killam, R. W. DeYoung, E. P. Tanner, M. J. Cherry, and **C. D. Hilton**. 2020. How does shade and wind affect space use by deer? Annual Report of the Caesar Kleberg Wildlife Research Institute for 2019-2020.

Clayton D. Hilton

Eccles, G. R., B. M. Ballard, K. J. Kraai, D. P. Collins, J. D. James, M. D. Weegman, and **C. D. Hilton**. 2020. Spring migration strategies of northern pintails. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2019-2020.

Granger, M. M., L. R. Schofield, S. E. Henke, **C. D. Hilton**, and T. A. Campbell. 2020. Population structure and reproduction of nilgai antelope in southern Texas. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2019-2020.

Granger, M. M., L. Scofield, S. E. Henke, H. L. Perotto-Baldivieso, **C. D. Hilton**, and T. A. Campbell. 2020. Habitat preferences of nilgai antelope in southern Texas. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2019-2020.

Henke, S. E., **C. D. Hilton**, C. B. Eversole, T. L. Pope, J. O. Huerta, and M. Cruz. 2020. Effect of hydromorphone as a means to reduce perceived pain by American alligators. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2019-2020.

Hilton, C. D., S.E. Henke, C. B. Eversole, T. L. Pope, J. O. Huerta, and A. Lowery. 2020. Development of an anesthesia protocol for American alligators. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2019-2020.

Killam, A. K., **C. D. Hilton**, D. G. Hewitt, A. M. Foley, and N. L. Bell. 2020. The effects of water salinity on dry matter intake. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2019-2020.

Pope, T. L., S. E. Henke, D. B. Wester, and **C. D. Hilton**. 2020. Potential transmission of parasites from scats of common predators to ocelots. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2019-2020.

Pope, T. L., S. E. Henke, D. B. Wester, S. Rideout-Hanzak, and **C. D. Hilton**. 2020. Effect of prescribed fire on the viability of raccoon roundworm eggs. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2019-2020.

Pope, T. L., S. E. Henke, M. J. Yabsley, and **C. D. Hilton**. 2020. First record of chorioptic mange in white-tailed deer. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2019-2020.

Reeves, A. M., D. L. Miller, **C. D. Hilton**, M. E. Tewes, J. V. Lombardi, J. P. Leonard, M. Sergeyev, and T. A. Campbell. 2020. Wild felid health and disease assessment on East Foundation's El Sauz Ranch. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2019-2020.

Reeves, A. M., D. L. Miller, W. F. Swanson, **C. D. Hilton**, T. A. Campbell, J. V. Lombardi, and M. E. Tewes. 2020. Impacts of genetic erosion on ocelot semen traits and potential conservation consequences. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2019-2020.

Henke, S. E., C. B. Eversole, J. O. Huerta, T. L. Pope, A. Lowery, B. Loflin, and **C. D. Hilton**. 2019. Determining the cause of darkening jaw patches on American alligators. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2018-2019.

Hilton, C. D., S. E. Henke, C. B. Eversole, T. L. Pope, J. O. Huerta, and A. Lowery. 2019. Development of an anesthesia protocol for American alligators. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2018-2019.

Clayton D. Hilton

Killam, A. K., **C. D. Hilton**, D. G. Hewitt, A. M. Foley, and N. L. Bell. 2019. Effects of water salinity on supplemental feed consumption by white-tailed deer. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2018-2019.

Lombardi, J. V., **C. D. Hilton**, M. E. Tewes, J. P. Leonard, M. Sergeev, and T. A. Campbell. 2019. Wild felid disease prevalence on East Foundation's El Sauz Ranch. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2018-2019.

Pope, T. L., S. E. Henke, S. Rideout-Hanzak, and **C. D. Hilton**. 2019. Fire effects on viability of *Baylisascaris procyonis* eggs in the environment. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2018-2019.

Reeves, A., D. L. Miller, W. F. Swanson, **C. D. Hilton**, T. A. Campbell, J. V. Lombardi, and M. E. Tewes. Impacts of genetic erosion on ocelot semen traits and conservation consequences. 2019. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2018-2019.

Pope, T. L., A. K. Killam, V. M. Cavazos, S. E. Henke, H. L. Perotto-Baldivieso, and **C. D. Hilton**. 2018 & 2019. Raccoon roundworm as an occupational hazard to wildlife caregivers. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2017-2018 & 2018-2019.

Lombardi, J. V., M. E. Tewes, C. D. Hilton, D. R. Taylor, D. Kunz, and T. A. Campbell. 2018. Disease and parasite transmission from raccoons to wild felids. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2017-2018.

Lombardi, J. V., J. P. Wied, M. E. Tewes, D. R. Taylor, **C. D. Hilton**, and T. A. Campbell. 2017 & 2018. Disease prevalence in ocelots on East Foundation's El Sauz Ranch. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2016-2017 and 2017-2018.

Pope, T. L., S. E. Henke, S. Rideout-Hanzak, and **C. D. Hilton**. 2018. Effect of fire on *Baylisascaris procyonis* eggs in the environment. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2017-2018.

Alonso, N. A., D. G. Hewitt, R. W. DeYoung, **C. D. Hilton**, and P. S. Barboza. 2017. The effects of temperature on white-tailed deer fawns. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2016-2017.

Alonso, N. A., D. G. Hewitt, R. W. DeYoung, **C. D. Hilton**, and P. S. Barboza. 2017. The effects of temperature and resource availability on white-tailed deer. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2016-2017.

Hilton, C. D., B. S. Mitchell, J. Burchsted, W. P. Kuvlesky, Jr., A. Ortega-Santos, L. A. Brennan, and H. L. Perotto-Baldivieso. 2017. Disease surveillance of relocated wild turkeys in southern Texas. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2016-2017.

Hoskinson, C., **C. D. Hilton**, A. N. Tri, D. G. Hewitt, J. Belant, and S. E. Henke. 2017. Selective serosurvey of pathogens in free-ranging black bears in Mississippi. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2016-2017.

Weisheit-Pope, T. L., S. E. Henke, M. E. Tewes, **C. D. Hilton**, and H. L. Perotto-Baldivieso. 2018. Transmission potential of raccoon roundworms to the endangered ocelot. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2016-2017 and 2017-2018.

Clayton D. Hilton

Weisheit, T. L., **C. D. Hilton**, and S. E. Henke. 2017. Chorioptic mange in white-tailed deer from southern Texas. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2016-2017.

Hilton, C. D. and W. P. Kuvlesky, Jr. 2016. Disease surveillance of relocated wild turkeys in southern Texas. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2015-2016.

Weisheit, T., C. Hoskinson, **C. D. Hilton** and S. E. Henke. 2016. Potential sarcoptic mange spillover in white-tailed deer. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2015-2016.

Weisheit, T., S. E. Henke, M. Tewes, **C. D. Hilton** and H. Perotto. 2016. Potential transmission of raccoon roundworm in endangered ocelots. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2015-2016.

Alonso, N. A., D. G. Hewitt, R. W. DeYoung, **C. D. Hilton** and P. S. Barboza. 2015. Effects of thermal environment on deer growth and health during summer. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2014-2015.

de la Torre-Garcia, J. R., J. A. Ortega-Santos, A. Cantu, **C. D. Hilton** and S. E. Henke. *Neospora caninum* in domestic animals and exotic ungulates in northern Mexico. 2015. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2014-2015.

Garrick, M. J., B. M. Ballard, K. J. Kraai, D. G. Hewitt and **C. D. Hilton**. 2015. Nutrient reserve dynamics of female northern pintails. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2014-2015.

Hansler, T., J. Baskin, **C. D. Hilton**, C. Hoskinson and S. E. Henke. 2015. Determining the suitability of short-distance translocation for the maritime pocket gopher. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2014-2015.

Hilton, C. D., D. G. Hewitt, L. D. Balderas, L. M. Bowman and W. R. Lance. 2015. Efficacy of two anesthesia regimens for immobilizing white-tailed deer. Annual Report of the Caesar Kleberg Wildlife Research Institute for 2014-2015.

Refereed Proceedings

Ellis, C., P. Nol, M. Wehtje, L. Wolf, N. Snow, J. Halseth, E. H. VanNatta, M. Glow, M. Lavelle, S. Green, T. Mays, P. Wolf, **C. D. Hilton** and K. VerCauteren. 2018. Immobilization of feral swine: comparison of three novel drug combinations. International Feral Pig Conference, Oklahoma City, OK, 15-18 April 2018.

Hilton, C. D. and T. L. Best. 2000. Gastrointestinal helminth parasites of bats in Alabama. Fourth Colloquium on Conservation of Mammals in the Southeastern United States, Occasional Papers of the North Carolina Museum of Natural Sciences and the North Carolina Biological Survey, 12:57-66.

Henry, T. H., T. L. Best, and **C. D. Hilton**. 2000. Body size, reproductive biology, and sex ratio of a year-round colony of *Eptesicus fuscus fuscus* and *Tadarida brasiliensis cynocephala*. Fourth Colloquium on Conservation of Mammals in the Southeastern United States, Occasional Papers of the North Carolina Museum of Natural Sciences and the North Carolina Biological Survey, 12:57-66.

Clayton D. Hilton

Books, Chapters, Monographs, etc.

Hilton, C. D. and J. R. Ballard. 2021. Wildlife regulations affecting zoo and wildlife veterinarians conducting research in the United States. In: Miller, R. E., Lamberski, N., and Calle, P. P. (eds.). *Fowler's Zoo and Wild Animal Medicine*, Volume 10. St. Louis (MO): Elsevier. *In review*.

Hilton, C. D., L. A. Brennan and W. P. Kuvlesky, Jr. Diseases and parasites of wild turkeys. In: Kuvlesky, W. P., Jr., L. A. Brennan, A. Ortega-Santos, D. Williford, J. B. Hardin, H. L. Perotto-Baldivieso, L. Fritz, **C. D. Hilton**, F. C. Bryant, S. A. Nelle, B. M. Mitchell, and N. Silvy. 2020. *Wild Turkeys in Texas: Ecology and Management*. Texas A&M University Press, College Station, USA; p. 135-146.

Kuvlesky, W. P., Jr., L. A. Brennan, A. Ortega-Santos, D. Williford, J. B. Hardin, H. L. Perotto-Baldivieso, L. Fritz, **C. D. Hilton**, F. C. Bryant, S. A. Nelle, B. M. Mitchell, and N. Silvy. 2020. *Wild Turkeys in Texas: Ecology and Management*. Texas A&M University Press, College Station, USA.

Henke, S. E., and **C. D. Hilton**. 2019. Aflatoxin inhibits phagocytic activity of macrophages in the Northern Bobwhite and exacerbates crippling loss. In: Henke, S. E., Fedynich, A. M. (eds.). *Aflatoxins and wildlife: exposure, Problems, Detection and Control Methods*. Hauppauge (NY): Nova Science Publishers, Inc.

Hilton, C. D. 2017. Zoo Conservation Biologist. In: Henke, S. E., Krausman, P. R. (eds.). *Becoming a Wildlife Professional; Wildlife Careers: From A to Z*. Baltimore (MD): Johns Hopkins University Press.

Hilton, C. D. 2017. Zoo Conservation Director. In: Henke, S. E., Krausman, P. R. (eds.). *Becoming a Wildlife Professional; Wildlife Careers: From A to Z*. Baltimore (MD): Johns Hopkins University Press.

Pinger, C. and **C. D. Hilton**. 2017. Zookeeper. In: Henke, S. E., Krausman, P. R. (eds.). *Becoming a Wildlife Professional; Wildlife Careers: From A to Z*. Baltimore (MD): Johns Hopkins University Press.

Padilla, L. R. and **C. D. Hilton**. 2014. Canidae. In: Miller, R. E., Fowler, M. E. (eds.). *Fowler's Zoo and Wild Animal Medicine*, Volume 8. St. Louis (MO): Elsevier; p. 457-467.

Popular Literature

Hilton, C. D. Cottonseed good deer feed, vet says more study needed. *Livestock Weekly*®, June 11, 2020.

Hewitt, D. G., F. C. Bryant, C. DeYoung, R. W. DeYoung, I. Castro-Arellano, W. Conway, Wm. Eikenhorst, L. Harveson, **C. D. Hilton**, R. Lopez, D. McBride, R. Simpson, M. Wagner, F. B. Weckerly and N. Wilkins. 2018. Things You May Have Heard about Chronic Wasting Disease. Texas Wildlife Association, Texas Wildlife Association web page (<https://www.texas-wildlife.org/resources/publications/things-you-may-have-heard-about-chronic-wasting-disease>)
Best Popular Article Award, Texas Chapter of the Wildlife Society, 2019.

Alonso, N., D. G. Hewitt, and **C. D. Hilton**. 2018. Summer heat stresses fawns, too. *Quality Whitetails* magazine (www.QDMA.com).

Alonso, N., D. G. Hewitt, and **C. D. Hilton**. 2017. Growing up in a sauna—The effects of heat on white-tailed deer fawns. *Deer Associates e-News*. (<https://www.ckwri.tamuk.edu/news-events/growing-sauna-effects-heat-white-tailed-deer-fawns>)

SELECTED PRESENTATIONS

Refereed

International

Reeves#, A. M., W. F. Swanson, **C. D. Hilton**, T. A. Campbell, L. R. Schofield, J. V. Lombardi, M. E. Tewes, & D. L. Miller. Assessment of urethral catheterization for semen collection and characterization of normative seminal traits in wild ocelots (*Leopardus pardalis*) and bobcats (*Lynx rufus*) in southern Texas. Wildlife Disease Association, 29 August-3 September, 2021. #graduate student; poster.

Killam#, A. K., **C. D. Hilton**, D. G. Hewitt, A. M. Foley, and N. L. Bell. Effects of water salinity on dry matter intake by white-tailed deer (*Odocoileus virginianus*). Annual Conference of The Wildlife Society, 28 Sep-2 Oct 2020. #graduate student; paper.

Ellis, C., P. Nol, M. Wehtje, L. Wolf, N. Snow, J. Halseth, E. H. VanNatta, M. Glow, M. Lavelle, S. Green, T. Mays, P. Wolf, **C. D. Hilton** and K. VerCauteren. 2018. Immobilization of feral swine: comparison of three novel drug combinations. International Feral Pig Conference, Oklahoma City, OK, 15-18 April 2018.

Brewster, K., S. E. Henke, **C. D. Hilton*** and J. A. Ortega-Santos, Jr. 2016. Use of remote cameras to monitor the potential prevalence of sarcoptic mange from southern Texas. Wildlife Disease Association, 31 July- 5 August 2016. *presenter

Hilton, C. D. 2015. Integration of wildlife health studies into wildlife field studies. Invited paper. 20th Congreso Veterinario de León, León, Guanajuato, Mexico. 2-5 September 2015.

Hilton, C. D. 2015. A review of anthrax in domestic and non-domestic species. Invited paper. 20th Congreso Veterinario de León, León, Guanajuato, Mexico. 2-5 September 2015.

Hilton*, **C. D.** and D. A. Jessup. 2015. Feral cat altering programs: why we should be concerned. Invited paper. 20th Congreso Veterinario de León, León, Guanajuato, Mexico. 2-5 September 2015. *presenter

Hilton, C. D. 2013. Relationships of dominance and tractability with serum testosterone among a bachelor group of African elephants (*Loxodonta africana*). American Association of Zoo Veterinarians, Salt Lake City, UT. 28 September - 4 October 2013.

Hilton, C. D. 2012. Carpal surgery in a neutered male California sea lion (*Zalophus californianus*). American Association of Zoo Veterinarians, Oakland, CA. 20-26 October 2012.

Hilton, C. D. and J. Sleeman. 2012. The USGS National Wildlife Health Center: Past, present and future. American Association of Zoo Veterinarians, Oakland, CA. 20-26 October 2012.

Refereed

State

Killam,# A. K., **C. D. Hilton**, D. G. Hewitt, A. M. Foley, and N. L. Bell. Effects of water salinity on intake of food and water by white-tailed deer. Texas Chapter of the Wildlife Society, virtual. 24-26 February 2021. #graduate student; paper.

Granger#, M. M., H. L. Perotto-Baldivieso, **C. D. Hilton**, S. E. Henke, and T. A. Campbell. Habitat utilization of nilgai during the winter in south Texas. Texas Chapter of the Wildlife Society, virtual. 24-26 February 2021. #graduate student; paper.

Clayton D. Hilton

Granger#, M. M., **C. D. Hilton**, S. E. Henke, H. L. Perotto-Baldivieso, and T. A. Campbell. Reproductive Capabilities of Nilgai in South Texas. Texas Chapter of the Wildlife Society, virtual. 24-26 February 2021. **#graduate student**; poster.

Reeves#, A. M., D. L. Miller, W. F. Swanson, **C. D. Hilton**, J. V. Lombardi, M. E. Tewes, T. A. Campbell, and L. R. Schofield. Assisted reproductive techniques in free-ranging ocelot and bobcat populations of south Texas. Texas Chapter of the Wildlife Society, virtual. 24-26 February 2021. **#graduate student**; paper.

Eccles#, G. R., K. J. Kraai, D. P. Collins, J. D. James, M. D. Weegman, **C. D. Hilton**, and B. M. Ballard. Comparing spring migration strategies of Northern Pintails originating from different wintering regions across North America. Texas Chapter of the Wildlife Society, Corpus Christi, TX, 13-15 February 2020. **#graduate student**; poster.

Granger#, M. M., **C. D. Hilton**, S. Henke, W. C. Conway, and T. A. Campbell. Demographics of nilgai in South Texas. Texas Chapter of the Wildlife Society, Corpus Christi, TX, 13-15 February 2020. **#graduate student**; poster.

First place award for poster presentations.

Killam#, A. K., **C. D. Hilton**, and D. G. Hewitt. Antler growth and anomalies observed in captive white-tailed deer (*Odocoileus virginianus*). Texas Chapter of the Wildlife Society, Corpus Christi, TX, 13-15 February 2020. **#graduate student**; poster.

Killam#, A. K., **C. D. Hilton**, D. G. Hewitt, A. M. Foley, and N. L. Bell. Effects of water salinity on dry matter intake by white-tailed deer (*Odocoileus virginianus*). Texas Chapter of the Wildlife Society, Corpus Christi, TX, 13-15 February 2020. **#graduate student**; poster.

Third place award for poster presentations.

Pope, T. L., S. E. Henke, D. B. Wester, S. Rideout-Hanzak, and **C. D. Hilton**. Effect of prescribed fire on the viability of *Baylisascaris procyonis* eggs. Texas Chapter of the Wildlife Society, Corpus Christi, TX, 13-15 February 2020.

Pope, T. L., A. K. Killam#, V. M. Cavazos*, S. E. Henke, D. B. Wester, H. L. Perotto-Baldivieso, and **C. D. Hilton**. Raccoon roundworm as an occupational hazard to captive wildlife and their caregivers. Texas Chapter of the Wildlife Society, Corpus Christi, TX, 13-15 February 2020. **#graduate student**, ***undergraduate student**; paper.

Reeves, A. M., D. L. Miller, W. Swanson, **C. D. Hilton**, T. A. Campbell, J. V. Lombardi, and M. E. Tewes. Assisted Reproductive Techniques in Free-Ranging Ocelot and Bobcat Populations of South Texas. University of Tennessee College of Veterinary Medicine Research Day. 21 Sep 2020.

Reeves#, A. M., D. L. Miller, **C. D. Hilton**, M. E. Tewes, J. V. Lombardi, J. P. Leonard, M. Sergeev, K. Carrier, M. Kennedy, and T.A. Campbell. Wild Felid Health and Disease Assessment on East Foundation's El Sauz Ranch. University of Tennessee College of Veterinary Medicine Research Day. 21 Sep 2020. **#graduate student**; paper.

Henke, S. E., **C. D. Hilton**, and A. M. Fedynich. Aflatoxin inhibits phagocytic activity of macrophages in Northern Bobwhite and exacerbates crippling loss. Texas Chapter of the Wildlife Society, Montgomery, TX, 21-23 February 2019.

Clayton D. Hilton

Killam#, A. K., **C. D. Hilton**, and D. G. Hewitt. Effects of Water Quality and Availability on the Consumption of Pelleted Feed by White-tailed Deer. Texas Chapter of the Wildlife Society, Montgomery, TX, 21-23 February 2019. **#graduate student**; poster.

Soto#, J. G., G. L. Schuster, **C. D. Hilton**, and N. L. Bell. White-tailed deer flavor preference for evaluation of novel methods of cattle fever tick control in south Texas. Annual meeting of the Subtropical Agriculture and Environments Society, 8 Feb 2019. **#graduate student**; poster.

Huerta#, J., T. L. Weisheit-Pope#, A. K. Killam*, S. E. Henke, **C. D. Hilton**, and H. L. Perotto-Baldivieso. Raccoon roundworm: An occupational hazard to captive wildlife caregivers. Texas Chapter of the Wildlife Society, Dallas, TX. 9-11 February 2018. **#graduate student, *undergraduate student**; poster.

Weisheit-Pope#, T. L., S. E. Henke, and **C. D. Hilton**. Chorioptic Mange in White-tailed Deer. Texas Chapter of the Wildlife Society, Dallas, TX. 9-11 February 2018. **#graduate student**; poster.

Alonso#, N. A., D. G. Hewitt, R. W. DeYoung and **C. D. Hilton**. The effects of thermal environment on the growth and health of white-tailed deer fawns during summer. Texas Chapter of the Wildlife Society, San Antonio, TX. 17-19 February 2017. **#graduate student**; paper.

Alonso#, N. A., D. G. Hewitt, R. W. DeYoung and **C. D. Hilton**. Effects of thermal environment on food consumption and rumen temperature of white-tailed deer bucks during summer. Texas Chapter of the Wildlife Society, San Antonio, TX. 17-19 February 2017. **#graduate student**; poster.

Burchsted,* J. K., **C. D. Hilton**, B. S. Mitchell,# W. P. Kuvlesky, Jr., A. Ortega-Santos, L. A. Brennan and H. L. Perotto-Baldivieso. Prevalence of infectious and noninfectious diseases in Rio Grande wild turkeys located in southern Texas (final results). Texas Chapter of the Wildlife Society, San Antonio, TX. 17-19 February 2017. ***undergraduate student, #graduate student**; poster.

Hilton, C. D. Snakebite. CE by the Sea, Coastal Bend Veterinary Medical Association. 9 September 2017. Invited speaker.

Hilton, C. D. Trap, neuter and release programs: why you should be concerned. CE by the Sea, Coastal Bend Veterinary Medical Association. 9 September 2017. Invited speaker.

Weisheit-Pope#, T., S. E. Henke, **C. D. Hilton** and A. Ortega-Santos, Jr. 2017. Prevalence of mange in selected wild mammals in southern Texas. 67th Annual James Steele Conference on Diseases in Nature Transmissible to Man, Irving, TX. 24-26 May 2017. **#graduate student**; poster.

Weisheit-Pope#, T., S. E. Henke, **C. D. Hilton** and A. Ortega-Santos, Jr. 2017. Use of remote cameras to monitor the potential prevalence of sarcoptic mange in southern Texas; an update. 67th Annual James Steele Conference on Diseases in Nature Transmissible to Man, Irving, TX. 24-26 May 2017. **#graduate student**; poster.

Alonso, # N. A., D. G. Hewitt, **C. D. Hilton** and R. W. DeYoung. Effects of thermal environment on the growth and health of white-tailed deer fawns (*Odocoileus virginianus*) during summer. Texas Chapter of the Wildlife Society, San Antonio, TX. 18-20 February 2016. **#graduate student**; poster

Burchsted,* J. K., **C. D. Hilton**, B. S. Mitchell,# W. P. Kuvlesky, Jr., J. A. Ortega-Santos and L. A. Brennan. 2016. Prevalence of infectious and noninfectious diseases in Rio Grande wild turkeys located in southern Texas (preliminary work). Texas Chapter of the Wildlife Society, San Antonio, TX. 18-20 February 2016. ***undergraduate student, #graduate student**; poster.

Clayton D. Hilton

Hegler,* C., J. E. Plata,* T. Hansler,# S. E. Henke, H. Perotto, **C. D. Hilton** and J. Baskin. 2016. Is short-distance translocation a viable management option for maritime pocket gophers? Texas Chapter of the Wildlife Society, San Antonio, TX. 18-20 February 2016. ***undergraduate student**, #**graduate student**

Saenz,* V. R., J. K. Burchsted*, **C. D. Hilton**, B. S. Mitchell,# W. P. Kuvlesky, Jr., J. A. Ortega-Santos and L. A. Brennan. 2016. Ectoparasite surveillance of wild turkeys in south Texas. Texas Chapter of The Wildlife Society, San Antonio, TX. 18-20 February 2016. ***undergraduate student**, #**graduate student**

Sanders# , H., **C. D. Hilton**, W. R. Lance, N. Snow and D. G. Hewitt. 2016. Evaluation of the efficacy of nalbuphine-azaperone-medetomidine for immobilization of feral swine and the reversal of that immobilization with naltrexone and atipamezole. 2016. Texas Chapter of the Wildlife Society, San Antonio, TX. 18-20 February 2016. #**graduate student**

Hilton, C. D. 2016. The basics of wildlife rehabilitation. CE by the Sea, Coastal Bend Veterinary Medical Association. 10 September 2016. Invited speaker.

Hansler,# T., S. Henke, J. Baskin and **C. D. Hilton**. 2015. Tracking the elusive maritime pocket gopher (*Geomys personatus maritimus*). Annual Meeting of the Texas Academy of Sciences, Corpus Christi, Texas. 6-8 March 2015. #**graduate student**

Non-refereed

State

Hilton, C. D. 2020. The pros and cons of using whole cottonseed as a feed for deer. CKWRI Annual Deer Research Meeting, San Antonio, TX, 6 March 2020. Invited speaker.

Soto#, J. G., G. L. Schuster, **C. D. Hilton**, and N. L. 2019. Bell White-tailed deer flavor preference for evaluation of novel methods of cattle fever tick control in south Texas, Javelina Research Symposium, 10 Apr 2019. #**graduate student**; poster

Hilton, C. D. The role of veterinary technologists in agriculture and wildlife management. Pre-service training of Agriculture Science Teachers, Texas A&M University-Kingsville, Jun 2019.

Hilton, C. D. Disease transmission between wildlife and domestic livestock. Holt Cat® Symposium for Excellence in Ranch Management, King Ranch® Institute for Ranch Management. 23 Oct 2015.

Hilton, C. D. 2015. The TAMUK Veterinary Technology Program. President's Leadership Council, Sugarland, Texas. 16-17 April 2015.

Hilton, C. D. 2014. The horse's foot. Richard Mifflin Kleberg, Jr. Family Lectureship on Equine Management, King Ranch Institute for Ranch Management. 14 May 2014.

Local

Hoskinson, C., and **C. D. Hilton**. 2019. The TAMUK Veterinary Technology Program. Noon Rotary Club, Kingsville, Texas. 27 Aug 2019.

Hilton, C. D. 2017 & 2018. Paths to Veterinary School. Pre-Veterinary Club, Texas A&M-Kingsville.

Hilton, C. D. 2017, 2018 & 2021. Wildlife Capture and Immobilization course. Wildlife & Agriculture Graduate Student Organization, Texas A&M University-Kingsville (and veterinary students in 2021).

Clayton D. Hilton

Hilton, C. D. 2015. The TAMUK Veterinary Technology Program. Sunrise Rotary Club, Kingsville, Texas. 20 August 2015.

Hilton, C. D. 2015. The TAMUK Veterinary Technology Program. Kingsville Economic Council, Kingsville, Texas. 20 May 2015.

SCHOLARLY AND CREATIVE ACTIVITIES

Grants in Review as of June 2021

Cherry, M, L. Heffelfinger, R. DeYoung, **C. D. Hilton**, and D. G. Hewitt. Movement, survival, and density of susceptible cervids in a CWD-impacted landscape. New Mexico Department of Game & Fish. \$249,175.

Cherry, M, L. Heffelfinger, R. DeYoung, **C. D. Hilton**, and D. G. Hewitt. Elk spatial ecology and interspecific interactions relative to CWD transmission in the Texas Panhandle. Texas Parks and Wildlife Department. \$248,600.

Funded Grants

Hilton, C. D. 2020. Continued support of the Albert and Margaret Ungulate Facility, Albert & Margaret Alkek Foundation. \$25,000.

Hilton, C. D. and S. E. Henke. 2020-2021. Nilgai demographics. Graduate student support from East Foundation. \$6500 for 2020 and \$11,500 for 2021.

Hilton, C. D. and M. Tewes. 2020. Assisted reproduction in ocelots. East Foundation. \$33,652.

M. Tewes and **C. D. Hilton**. 2020. Supporting ocelot recovery. East Foundation. \$64,425.

Hilton, C. D. and M. Tewes. 2019. Assisted reproduction in ocelots. East Foundation. \$34,912.

Tewes, M. and **C. D. Hilton**. 2019. Supporting ocelot recovery. East Foundation. \$84,787.

Hilton, C. D. 2019. Operational support of the Albert and Margaret Alkek Captive Ungulate Facility. Albert and Margaret Alkek Foundation. \$10,000.

Chumbley, S. B, A. Torres-Conkey and **C. D. Hilton**. 2018. Beyond WILD: Wildlife Ecology and Management Experiential Learning and Leadership Program. USDA-AFRI-PDSTEP. \$121,409.74.

Hilton, C. D. 2018. Jo and Bruce Gunn Endowed Directorship for Veterinary Technology. \$1,300,000.

Schuster, G. L., R. L. Stanko, N. L. Bell, **C. D. Hilton** and K. Lohmeyer. 2018. Feed-through and Spray-on Treatments of Insect Growth Regulators for Cattle and Wildlife. USDA-ARS. \$244,517.

Hilton, C. D. and D. G. Hewitt. 2018. Maintenance support of the Albert and Margaret Alkek Captive Ungulate Facility. Albert and Margaret Alkek Foundation. \$25,000.

Hilton, C. D. and D. G. Hewitt. 2018. Annual support of the Albert and Margaret Alkek Captive Ungulate Facility. Albert and Margaret Alkek Foundation. \$25,000.

Clayton D. Hilton

Hewitt, D. G. and **C. D. Hilton**. 2017. Annual support of the Albert and Margaret Alkek Captive Ungulate Facility. Albert and Margaret Alkek Foundation. \$25,000.

Hilton, C. D., and W. P. Kuvlesky, Jr. 2017. Disease surveillance of wild turkeys in south Texas, Phase II. Private donor. \$7000.

Hewitt, D. G. and **C. D. Hilton**. 2016. Annual support of the Albert and Margaret Alkek Captive Ungulate Facility. Albert and Margaret Alkek Foundation. \$25,000.

Kuvlesky, W. P., Jr. and **C. D. Hilton**. 2015. Disease surveillance of wild turkeys in south Texas. University Research Award, Texas A&M-Kingsville. \$14,358.

Hewitt, D. G. and **C. D. Hilton**. 2014. Thermal environment effects on white-tailed deer. University Research Award, Texas A&M University-Kingsville. \$14,949.

Hilton, C. D. and D. G. Hewitt. 2014. Evaluation of the efficacy of nalbuphine-medetomidine or nalbuphine-azaperone-medetomidine for immobilization of white-tailed deer and the reversal using naltrexone and atipamezole. Wildlife Pharmaceuticals, Inc., Fort Collins, CO. \$5,500.

Grants Submitted but not Funded

Cherry, M, L. Heffelfinger, D. G. Hewitt, R. DeYoung, **C. D. Hilton**, W. Conway, C. Ramsey, L. Harveson, C. Gonzales, J. French, and W. Cook. Deer and elk ecology within the Trans-Pecos and Panhandle CWD zones of Texas. Texas Parks and Wildlife Department. \$1,819,590.

Tanner, E. P., M. Sergeyev, E. Jensen, M. E. Tewes, and **C. D. Hilton**. 2020. Estimating thermoneutrality in the endangered ocelot (*Leopardus pardalis*), Chicago Zoological Society. \$4,904.00

Schuster, G., A. Ortega-Santos, H. Perotto, **C. D. Hilton**, T. P. Feria, I. Castro-Arellano, W. Gann, M. D. Esteve-Gassent and A. Perez De Leon. 2016. HSI Education Grant-IDEALS: "Infectious Disease Ecology and Leadership Skills." USDA/NIFA. \$2,000,000.

Jo, Y. K., D. Staak, K. M. Lee & W. Li. Co-PI's: G. L. Schuster, **C. D. Hilton** & N. L. Bell. 2016. Improved Mycotoxin Detection and Remediation Methods for Post-harvest Corn and Peanuts. USDA/AFRI Foundation Grant. Total grant: \$499,723; TAMUK portion: \$89,953.

Hewitt, D. G., **C. D. Hilton**, G. L. Schuster, S. M. Presley and F. C. Bryant. 2015. Relationship between white-tailed deer habitat use, biting flies, and transmission of anthrax in the western portion of the Texas Hill Country. Rio Vista Ranch (private funding), Val Verde County, TX. \$873,525.

Schuster, G. L., **C. D. Hilton** and A. N. Tri. 2015. Development of detoxification systems for mycotoxin-contaminated foods using non-thermal plasma and electron-beam technology. USDA-NIFA-AFRI. \$566,454.

PROFESSIONAL DEVELOPMENT ACTIVITIES

Membership and Leadership in Professional Societies and Organizations

- American Veterinary Medical Association (AVMA), 1993 – present.
Committee on Environmental Issues, Zoo and Wildlife Medicine Representative, 2018 – 2021.
Ad hoc Committee on Wildlife Trafficking Policy, 2020 – present.
Liaison to FDA’s Veterinary Feed Directive Committee, 2015 – 2018.
CVTEA Accreditation inspection team member, 2018.
- The Wildlife Disease Association, 1993 – present.
Chair of the Grants and Funding Committee, 2018 – 2021.
Advisory Board of Wildlife Veterinary Section, 2014 – 2019.
Ad hoc Committee on Zoologic Medicine, 2015 – 2018.
- American Association of Zoo Veterinarians (AAZV), 1993 – present.
Executive Board, 2009 – 2012 & 2017 – 2021.
Audit & Finance Committee, 2009 – 2012 & 2017 – present.
Research and Grants Committee, 2020 – 2024.
Joint liaison (with AAWV) to the AVMA’s Committee on Environmental Issues, 2018 – 2021.
Committee on Wildlife Health & Conservation, 2007 – 2015.
Association Advancement Committee, 2014 – present.
Vice-chair, 2015 – 2017.
Chair, 2017 – 2020.
Legislation & Animal Welfare Committee, 2003 – present.
Vice-Chair, 2020 – 2022.
Chair, Public Relations Committee, 2009 – 2011.
Member, Public Relations Committee, 1998 – present.
Chair, *Ad hoc* By-laws Committee, 2011 – 2012.
Annual Conference Session Chair, 2004, 2008, 2009, 2012, 2016, 2017, 2018, & 2020.
Associate Editor - Journal of Zoo and Wildlife Medicine, 2007 – 2009.
ad hoc FDA Compounding Committee, 2015 - 2017.
- Association of Zoos and Aquariums, 1999 – present.
Veterinary Advisor to Canid/Hyeniid Taxon Advisory Group, 2010 – present.
Accreditation Inspector, 2008 – present.
Great Ape Heart Project, 2008 – 2012.
- American Association of Wildlife Veterinarians (AAWV), 1999 – present.
Joint liaison (with AAZV) to the AVMA’s Committee on Environmental Issues, 2018 – 2021.
- Association of Veterinary Technician Educators, 2014 – present.
- Boone and Crockett Club, Professional Member, 2018 – present.
Conservation Grants Committee, 2019—present.
University Programs Committee, 2019—present.
Wildlife Health Committee, 2019—present.
- Colombian Hippo Advisory Board, Animal Balance, 2020 – present.
- Food and Drug Administration, Expert Panel for Investigative Drugs in Minor Species, 2016 – 2018.
- National Wild Pig Task Force, 2017 – present.
- Texas Veterinary Medical Association, 2014 – present.
Cervid Health Committee, 2015 – 2018.
- Texas Animal Health Commission, Cervid Health Working Group, 2016 – 2020.
- Texas Exotic Response Coalition, 2017 – present.
- The Wildlife Society, 1990 – 1993, 1999, 2014 – present.
Wildlife Disease Working Group, 2015 – present.
Texas Chapter, 2014 – present.
Cottam Award Judge, 2014 – 2017.

Clayton D. Hilton

Trans-Pecos Pronghorn Working Group, 2016 – present.

Texas Wildlife Association, 2017.

Deer and Exotic Management Committee, 2017 – 2019, 2019 – 2021.

United States Animal Health Association, 2019 - present.

Animal Welfare Committee

Cattle and Bison Committee

Farmed Cervidae Committee

Foreign and Emerging Disease Subcommittee

Wildlife and Captive Wildlife Committee

Jefferson County (AL) Veterinary Medical Association, 2008 – 2014.

Alabama Veterinary Medical Association, 2014.

Elephant Manager's Association, 2012 – 2014.

Attendance at Meetings of Professional Societies (since joining TAMUK faculty in April, 2014).

American Association of Wildlife Veterinarians, 2014, 2015, 2016, 2018 & 2019.

American Association of Zoo Veterinarians, 2014*, 2015, 2016,* 2017,* 2018,* 2019, & 2020*.

Southeast Regional Sea Turtle Meeting, 2020.

Texas Chapter of the Wildlife Society, 2015, 2016, 2017*, 2018, 2019, 2020, & 2021.

United States Animal Health Association, 2019.

Boone and Crockett Club, 2016, 2017, 2018 & 2019.

International Wild Pig Conference, 2018 & 2020.

Texas Veterinary Medical Association, 2015.

Wildlife Disease Association, 2014, 2016, 2018* & 2019.

Texas Wildlife Association, 2018.

Association of Veterinary Technician Educators, 2015.

20th Congreso Veterinario de León, Guanajuato, Mexico, 2015.

Coastal Bend Veterinary Medical Association, 2015, 2016 & 2017.

CE by the Sea, 2016.

The Wildlife Society, 2016.

North American Deer Summit, 2017 (invitation, only)

Zoo Ready/Exotic Animal Disaster Preparedness (invited attendee, with scholarship), 2017.

*Session Moderator

Professional Service, Licenses, Accreditations & Certification

HAZWOPER Emergency Response Certification, 2021.

Veterinary licensure through the Texas State Board of Veterinary Medical Examiners, 2004 – present.

Registration with the Drug Enforcement Agency, Department of Justice, 1997 – present.

United States Department of Agriculture, Category II Veterinary Accreditation, 1997 – present.

United States Department of Agriculture, Veterinary Accreditation for Comparative Cervical Testing for Tuberculosis in Non-domestic species, 2000 – present.

Texas Animal Health Commission, Certified for Antemortem testing of cervids for Chronic Wasting Disease, 2016 - present.

Texas Animal Health Commission, Certified for Trichomoniasis testing, 2016 – present.

FDA's Expert Panel for Investigative Drugs in Minor Species, 2016 – 2017.

Certificate of Completion, Nonprofit Executive Leadership Institute, 2013.

Professional Service Activities

External Manuscript Reviews

Reviewer for:

Human-Wildlife Interactions

Journal of Wildlife Diseases

Journal of Zoo and Wildlife Medicine

Journal of Wildlife Management

Clayton D. Hilton

Internal Manuscript Reviews

Fedynich, A. M., K. Bedford, D. Rollins, and D. B. Webster. 2019. Helminth fauna in a semiarid host species—scaled quail (*Callipepla squamata*). *Journal of Helminthology*.

Ortiz, J. L., A.T. Conkey, L. A. Brennan, L. Fedynich, and M. Green. 2018. Wild Birds in the Classroom: Evaluation of Student Affinities, Perceptions, and Attitudes in Response to an Experiential Curriculum. *International Journal of Environmental and Science Education*.

Ballard, D. C., M. J. Garrick, B. M. Ballard, and A. M. Fedynich. 2017. Gizzard helminths in female northern pintails (*Anas acuta*) wintering along the Texas Coast. *Journal of Parasitology*.

Bruno, A., A. M. Fedynich, D. Rollins, and D. B. Wester. 2017. Helminth community ecology and host dynamics in Northern bobwhites from the Rolling Plains ecoregion. *Journal of Parasitology*.

Heger, C., C. Schneider, D. Butler, and A. M. Fedynich. 2017. Gizzard helminths in the Gadwall (*Mareca strepera*) wintering along the mid-Texas coast. *Comparative Parasitology*.

Kubečka, B. W., N. J. Traub, V. V. Tkach, T. R. Shirley, D. Rollins, and A. M. Fedynich. 2017. First occurrence of *Mesocestoides* sp. in wild North American birds—Northern Bobwhite (*Colinus virginianus*) and Scaled Quail (*Callipepla squamata*). *Journal of Wildlife Diseases*.

Solis, J., S. E. Henke, G. Schuster, and A. M. Fedynich. 2017. *Aspergillus flavus* Control: The need to consider spores. *Journal of Wildlife Diseases*.

Garvon, J. M., J. B. Mott, S. S. Jacobs and A. M. Fedynich. 2016. Blood parasites of blue-winged teal (*Anas discors*) from two migratory corridors. *Journal of Wildlife Diseases*.

Ogdee, J. L., S. E. Henke, D. B. Webster and A. M. Fedynich. 2016. Assessing environmental contamination of *Baylisascaris* eggs by infected raccoons in southern Texas. *Vector Biology of Zoonotic Diseases*.

Olsen, A. and A. M. Fedynich. 2016. Helminth infections in northern bobwhites from a Legacy Landscape. *Journal of Wildlife Diseases*.

Villareal, S. M., A. Bruno, A. M. Fedynich, L. A. Brennan and D. Rollins. 2016. Helminth infections across a northern bobwhite (*Colinus virginianus*) annual cycle. *Western North American Naturalist*.

Huck, N., B. M. Ballard, A. M. Fedynich, K. Kraai and M. Castro. 2015. Metal ingestion by wintering female northern pintails. *Journal of Wildlife Diseases*.

Olsen, A., L. Brennan and A. M. Fedynich. 2015. The effects of helminth parasites on wildlife populations: implications for future research. *The Wildlife Society Bulletin*.

Bruno, A., K. Purple, A. M. Fedynich, R. Gerhold and D. Rollins. 2014. Survey for *Trichomonas gallinae* in northern bobwhites from the Rolling Plains ecoregion. *Journal of Wildlife Diseases*.

Grant Reviewer for University Research Awards, Dick and Mary Lewis Kleberg College of Agriculture, Natural Resources and Human Sciences, 2016 (12 grant applications reviewed).

Grant Reviewer for the Association of Zoo and Aquariums' Conservation Grants Fund, 2014.

Clayton D. Hilton

University Service Activities

Texas A&M University-Kingsville

Institutional Animal Care and Use Committee, Attending Veterinarian and member, 2014 – 2018.

Alternate Attending Veterinarian and member, 2018 – present.

Advisory Board, Center for Teaching Effectiveness, 2020-2023.

Faculty Senate, Faculty Evaluation Committee, 2020-2022.

Dick & Mary Lewis Kleberg College of Agriculture, Natural Resources & Human Sciences

Promotion & Tenure and Annual Evaluation Task Force, 2017 – 2019.

Attended graduation May 2016, May 2017, Dec 2017, May 2018, May 2019, and Dec 2019.

Sponsor – Veterinary Technology Club/SCNAVTA, 2015 – present.

Search Committee, Dean of AGNRHS, 2016 – 2017.

Attended presentation of College IEP report, 14 Feb 2017.

Provided 3 presentations in UNIV 1102, Sp 2017, 3 presentations Sp 2018 & 6 presentations Fall 2018.

Department of Animal Science & Veterinary Technology

Search Committee, Assistant Professor of Animal Science, 2021.

Search Committee, Instructional Veterinary Nurse, 2020.

DVM MOA Committee, 2019—present.

VETT tour for Dr. Joe Mask & President Hussey, Jan 2019.

Met with prospective Honors College students to represent VETT, RWSC & ANSC, Jan 2019.

Guest lectures in VETT 3407 Clinical Pathology, Jan & Feb 2019.

Taught deer field necropsy labs to Student Chapter of The Wildlife Society, Jan 2019.

Guest lecture in VETT 4317 Veterinary Office Management, Feb 2019.

Hosted Visiting Scientist Dr. Bill Swanson (Cincinnati Zoo), Mar 2019.

Presentation on Wildlife Medicine & deer field necropsy techniques for East Foundation's Land Stewardship Ambassadors, May 2019.

Search Committee, Chair of Department of ASVT, 2019.

Chair of Search Committee, Assistant Professor of Clinical Practice, 2019.

Attended Killam Lecture by Dr. Bill Porter, Feb 2019.

Department of Animal, Rangeland & Wildlife Sciences

Search Committee, Wildlife Disease Ecologist, 2021.

Search Committee, Carnivore Ecologist, 2021.

Guest lectures: Wildlife Fertility Control and Conflict Resolution to RWSC 4385, Oct and Nov 2019 & 2020.

Taught deer field necropsy labs to Student Chapter of The Wildlife Society, Feb 2017 & Mar 2018.

Invited speaker, Pre-Veterinary Club, 2017 & 2018.

Attended FFA Area X Veterinary Technology Invitational, 25 Feb 2017.

Took VETT students on East Foundation deer captures, Oct & Nov 2014 – 2018.

Ten tours of VETT facilities for potential students, parents, dignitaries, 4-H Leaders, etc. 2018.

Attended Dr. Leach's book signing, 30 May 2017.

Attended 7 graduate student defense presentations.

Took VETT students on nilgai harvest to collect post-mortem blood samples, 26 May 2017.

Attended Cattle Fever Tick summit, 14 Nov 2017 and 30 Oct 2018.

Turkey captures on Bass Ranch, Dec 2017.

VETT tour to 7 FFA students from Mildred ISD, 10 Jul 2017.

Clayton D. Hilton

VETT tour to 40 students from RGV STEM program, 12 Jul 2017.
VETT tour to Safari Club International Sables Hunting Heritage Committee, Chairman Matt Bluntzer & member Mike Drownowski, 3 Oct 2017.
VETT tour to USDA, TAHC and TVMDL personnel, 4 Oct 2017.
VETT tour for Dr. Joe Paschal (Area Livestock Extension Specialist in Corpus Christi) and Dr. Thomas Hairgrove (TAMU-Extension DVM) plus one additional DVM, 9 Oct 2017.
VETT tour to Camryn Flores and her parents, Mark and Sandra Flores, 4 Dec 2017.
VETT tour to Dean Eleanor Green, Executive Associate Dean Kenita Rogers & Associate Dean Karen Cornell (TAMU CVM), Dec 2017.
Facilities Use Request Committee, Co-chair, 2017 – present
Farm Advisory Committee, 2014 - present.
Farm Planning Committee, 2014 - present.
DVM MOA Committee, 2017 – 2019.
Chair of Search Committee, Adjunct Faculty (Veterinarian), 2018.
Chair of Search Committee, Veterinary Technologist, 2018.
Chair of Search Committee, Veterinary Technologist #3, 2015.
Chair of Search Committee, Veterinary Technologist #2, 2015.
Chair of Search Committee, Veterinarian, 2015.
Search Committee, Farm Manager, 2015.
Chair of Search Committee, Lead Veterinary Technician, 2014.
Search Committee, Animal Nutritionist, 2014.

Service Activities Outside University

Member of search committee for veterinarian, Texas State Aquarium, 2021.
External reviewer of a colleague's Promotion & Tenure dossier, 2020.
Member of search committee for LVT, Texas State Aquarium, 2020.
Taught Wildlife Necropsy Field Techniques wetlab at Zoo, Exotics, & Wildlife Conference, College Station, TX, 22 Feb 2020.
Worked pronghorn translocation at the requests of Texas Parks & Wildlife Department & Borderlands Research Institute, January 2017 & January 2020.
AZA accreditation inspection of a U.S. zoo (confidential location), Jul 2019.
Worked desert bighorn sheep translocation at the request of Texas Parks & Wildlife Department, December 2019.
AVMA-CVTEA accreditation inspection of a Veterinary Technician program, Aug 2018.
Member of Professional Advisory Group for East Foundation, 2014 – present.
Invited attendee at focus group meeting of the Kingsville Economic Development Council, 2018.
Consultant to Pivotal Sandbox (R&D Company), 2017.
Consultant to United States Fish & Wildlife Service during screwworm outbreak in Florida Key Deer, 2016.
Co-developer of an app "Allometric Scaling of Chemotherapeutics for Wildlife" for the Wildlife Disease Association, 2017.
Institutional Animal Care and Use Committee, University of Alabama at Birmingham, October 2008 - November 2012.
Institutional Animal Care and Use Committee, Samford University, May 2009 - April 2014.

Honors and Awards

American Association of Zoo Veterinarians, Presidential Service Award, 2020.

Clayton D. Hilton

Dick and Mary Lewis Kleberg College of Agriculture, Natural Resources and Human Sciences
Junior Faculty Teaching Award, 2017.

Phi Kappa Phi National Honor Society, inducted 2017.

Alabama Veterinary Medical Association
Service Award for Contributions to the Association for the Advancement of the Profession, 2014.

Tennessee Valley Authority
Award for Valuable Service to the TVA through Wildlife and Natural Resources, 1991.