

TCU VITA - Glenn C. Kroh

Name: Glenn C. Kroh

Educational Background:

Associate (Engineering) Pennsylvania State Univ., 1962
B.S. (Botany) Pennsylvania State Univ., 1966
M.S. (Plant Ecology) Pennsylvania State Univ., 1970
Ph.D. (Plant Ecology) Michigan State Univ., 1975

Professional Certification

Certified remote class instructor (E College)

Present Rank

Associate Professor

Previous Teaching and/or Research Appointments:

9/74-12/74 Instructor, General Botany; Michigan State University
1/75-6/75 Instructor, Ecology; Michigan State University
6/78-9/78 Assistant Professor, Field Ecology Course; Kellogg Biological Station, Michigan State University
5/11-present Research Associate Botanical Research Institute of Texas

Previous professional Positions

Technical Writer; Boeing Aircraft Company, Seattle, Washington

Courses Taught

Biogeography
Economic Botany
Natural History
Plant Biology
Plant Systematics

Graduate Theses Directed

1. A 20-Year Update on Primary Conifer Succession on a Volcanic Mudflow in the Devastated Area of Lassen Volcanic National Park, California. Rebecca UpJohn. MS Degree. Completed fall 2009
2. Comparison of Ephemeral Properties of Cap Rock Prairie at the Fort Worth Nature Center. Judy MacKenzie. MS Degree. Completed fall 2002.

3. Effects of the Black Tailed Prairie Dog on the Short Grass Plant Communities of Northern Texas. Tamara Basham. MS Degree. Completed fall 2002.
4. Characterization of the Structure and Function of Selected Plant Communities at the Culp Branch Wildlife Refuge, Texas. Darrel Murray. MS Degree. Completed, spring, 2002.
5. Structure and function of coastal chaparral at Point Reyes National Seashore, California. Keri McKnew. MS Degree. Completed Spring 2004
6. A Vegetation Study Characterizing and Digitally Recording the Plant Communities of Monahans Sandhills State Park, Texas. By Stacy Mills. MS Degree. Completed Spring, 2001. Presently with a consulting firm in Austin, Texas.
7. Physiognomy and Age Structure of Selected Mature *Juniperus Ashei* (BUCHHOLZ) Stands in Guadalupe River and Meridian State Parks, Texas. By Caren McLemore. MS Degree. Completed summer, 2001. Presently in a doctoral program at North Texas State University.
8. Application of a Geographic Information System for Inventory and Monitoring Procedures at the Fort Worth Nature Center, Texas. By Lori Winchester. MS Degree. Completed spring, 1998. Presently in a doctoral program at Ohio State University
9. Analysis of forest structure and function at Huntsville State Park, Huntsville, Texas. By Jason Morovitz. MS Degree. Completed summer, 1998. Presently with a consulting firm in Dallas, TX
10. Generation of a Forest Map of Bastrop State Park, Texas using Geographic Information and Remote Sensing Techniques. By Karen Zabicki. MS Degree. Completed spring, 1997. Presently teaching in the Crowley, TX School district
11. Structure and Function of Upland and Mesic Forest Stands at Caddo Lake State Park, Texas. By Julie Cross. MS Degree. Completed August, 1996. Until August, a program director at the Fort Worth Science and History Museum. She is now in California
12. Forest Stand Dynamics Based on Slope and Aspect of an Upland Pine Forest at Bastrop State Park, Bastrop, Texas. By Susan DeCell. MS Degree. Completed. August, 1996. Employed by the Texas Railroad Commission.
13. The Effect of Two Recent Fires on a Chihuahuan Desert Plant Community in the Vicinity of Panther Junction, Big Bend National Park, Texas. By Christopher Williams. MS Degree. Completed May, 1995. Employed at Bell Helicopter as an Environmental Officer over Field Operations.
14. Species Composition and Age Structure of a Bottomland Forest Stand at Caddo Lake State Park, Texas. By Susan Peden. Completed May 1995. Public Relations director for Carter and Burgess Engineering firm.
15. Comparing the Utility of LANDSAT TM and SPOT XS Data for Mapping Shrub and Meadow Communities in Lassen Volcanic National Park, California. By Michele May. MS Degree. Completed May, 1994. Employed with the United States Geological Service as a senior cartographer.

16. Mapping Forest Species at Lassen Volcanic National Park, California, Using LANDSAT TM Data and a Geographic Information System. By Joseph D. White. Completed May, 1991. Associate Professor of Biology at Baylor University.

17. The Effects of Acidic Water on the productivity of *Ceratophyllum demersum*. By Jon Stewart. MS Degree. Completed May, 1984. Presently employed by a consulting firm in Dallas, TX.

18. Structure and Function in an Old Field Community of the Western Crosstimbers of Texas. By Sharon Morton. MS Degree. Completed 1982. Received PhD at Texas Tech and is presently a Research Associate with Texas A & M University.

Publications

1. Ferguson, G.W., W.H. Gehrmann, A.M. Brinker, and G.C. Kroh. 2014. Daily and Seasonal Patterns of Natural Ultraviolet Light Exposure of the Western Sagebrush Lizard (*Sceloporus graciosus gracilis*) and the Dunes Sagebrush Lizard (*Sceloporus arenicolus*). *Herpetologica*, 70(1):56-68. 2014

2. Kroh, G.C., K. McNew, and J.E. Pinder III. 2008. Conifer colonization of a 350-year old rock fall at Lassen Volcanic National Park in Northern California. *Plant Ecology*, in press.

3. McLemore, C., G. Kroh, and J.P. Pinder. 2004. *Juniperus ashei* (Cupressaceae) Physiognomy and Age Structure in Three Mature Texas Stands. *SIDA* 21 (2):1107-1120. 2004

4. Jason R. Singhurst, James C. Cathy, Dale Prochaska, Hayden Haucke, Glenn C. Kroh, and Walter C. Holmes. 2003. The Vascular Flora of Gus Engling Wildlife Management Area, Anderson County, Texas. *Southeastern Naturalist* 2(3): 347- 368.

5. Glenn C. Kroh, Joseph D. White, Shelly K. Heath and John E. Pinder III. 2000. Colonization of a volcanic mudflow by an upper montane coniferous forest at Lassen Volcanic Park, California *American Midland Naturalist* 143: 126-140.

6. Basham, M., J. Pinder and G. Kroh. 1997. A comparison of the use of LANDSAT Thematic Mapper and Spot Multispectral Imagery to classify the nonconiferous vegetation of Lassen Volcanic National Park, California. *International Journal of Remote Sensing*. Vol., 18, No. 18, 3719-3728.

7. Pinder, J., G. Kroh, J. White and M. Basham. 1997. The relationship of vegetation type and topography in Lassen Volcanic National Park, California. *Plant Ecology* 131: 17-29.

8. White, J., G. Kroh, and J. Pinder. 1995. Mapping forest tree species at Lassen Volcanic National Park, California using LANDSAT TM data and a geographic information system. *Photogrammetric Engineering and Remote Sensing* 61, No 3, 299-305

9. Pinder, J.E. and G.Kroh. 1987. Insect herbivory and Photosynthetic pathways in old-field ecosystems. *Ecology* 68:254-259.

10. Kroh, G. and J. Nisbet. 1983. Some structural aspects of a western Cross Timbers forest in north central Texas. *Texas Journal of Science* 35: No. 1, 43-48.

11. Britton, J.C., G.C. Kroh and C. Golightly. 1982. Biometric and ecological relationships in two sympatric Caribbean Gecarcinidae (Crustacea; Decapoda). *Journal of Crustacean Biology*, 2(2):207-222.
12. Kroh, G. and R. Schein. 1981. Sediment characteristics of *Eleocharis acicularis* (L.) R. & S. sites in streams and lakes of central Pennsylvania. *Journal of Environmental Quality*, 10(1): 49-52.
13. Elfving, D.C., T.R. Dren, S.M. Welch, G.C. Kroh. 1981. Deciduous Tree Modeling and Fruit Pest Management (Chapter 9, 271-307). In B.A. Croft, S.C. Hoyt (ed.) *Integrated Pest Management of Pome and Stone Fruits*. Wiley Interscience.
14. Kroh, G. and S.N. Stephenson. 1980. Effects of diversity and Pattern on relative yields of four Michigan first year fallow field plant species. *Oecologia* 45:355-371.
15. Kroh, G. and D. Beaver. 1978. Insect response to mixture and monoculture patches of Michigan old field annual herbs. *Oecologia* 31:269-275.
16. Kroh, G. and P. Murphy. 1973. The role of root and shoot components in intraspecific interference within a population of *Phaseolus vulgaris*. *Michigan Academician* VI (1): 93-99.

Total Funds Acquired Through Research Grants

\$117,856.00

Editorships

Reviewed for:

Texas Journal of Science

Ecology

Harper and Row Publishers.

McGraw Hill Publishers (3 chapters in book, "Ecology" by Schwartz)

Community Activities Directly Related to Professional Skills

Capital Improvements City Bond Steering Committee (1985), Fort Worth, TX

Fort Worth, Texas Nature Center Steering Committee for Future Planning

Founder and first president of the Fort Worth League of Neighborhoods

Ran for the Congressional District 12 State Board of Education

Frog Camp

Advisory board member; Fort Worth Nature Center

Judged the Tarrant County Science Fair (1983-1987)

Invited Speaker. Soroptimist Club of Fort Worth. Talk: The History of Man from an Environmental Perspective. February, 1991.

Judged the Fort Worth International Science Fair (1998)

Professionally Related Honors and Awards

Mortar Board Preferred Professor (four times)

Burlington Northern Teaching Award Nominee