# TCU VITA - Glenn C. Kroh

**Name:** Glenn C. Kroh

**Date and Place of Birth:** December 20, 1941. Philadelphia, Pennsylvania

**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
Contemperary Issues in biology
Data Analysis
Ecology
Ecological Field Techniques
Economic Botany
Honors biology
Introduction to Biological Research

Natural History of Texas (summer field course)
Natural History of the American Southwest (summer field course)
Natural History of the Earth
Non-majors biology
Plant Biology
Plant Systematics
Plants, People and the Environment (Master of Liberal Arts program)
Field Ecology at the Gull Lake Michigan State University field station (1979)

**External Support**

. $2,000. Texas Parks and Wildlife. 2nd installment. Characterization and establishment of permanent sampling plots at the Culp Branch Wildlife Management Area, Texas, 2002.

$5,000 Texas Parks and Wildlife. Monahan's Sandhills State Park ephemeral plant community project, 2001.

$6,500. Texas Parks and Wildlife. Effects of the Black-Tailed Prairie Dog on the Structure and Function of the Southern Short Grass Prairie, 2001.

$2,000. Texas Parks and Wildlife. Characterization and establishment of permanent sampling plots at the Culp Branch Wildlife Management Area, Texas, 2001.

$5,000. Texas Parks and Wildlife. Monahan's Sandhills State Park identification, inventory, and mapping project, 2000.

$1,800. Texas Parks and Wildlife. Graduate student summer stipend for Monahans Sandhills State Park project. 2,000.

$5,000. Texas Parks and Wildlife. Structure and function study of Ash Junipers at Guadalupe River State Park, TX, 2000.

$1,800. Texas Parks and Wildlife. Graduate student summer stipend for Ash Jumiper study at Guadalupe River State Park, Texas, 1999.

$2,500. Texas Parks and Wildlife. Process increment cores from endangered pine species of west Texas and analyze age and growth data, 1998.

$2,000. Texas Parks and Wildlife. Extract, process, and analyze increment cores from upland and floodplain tree species at the Engling Wildlife Refuge in east Texas, 1998.

$3,266. Texas Parks and Wildlife. Pine bark beetle dynamic study at Huntsville State Park, Texas, 1997.

$2,130. Texas Parks and Wildlife. Logistical support for study of bottomland forest at Caddo Lake State Park, Texas. 1994.

$1,480. Texas Parks and Wildlife. Logistical support for upland forest research at Caddo Lake State Park, Texas. 1994.

$1,200. The Loomis Museum Association. Forest regeneration of the devastated area of Lassen Volcanic National Park, California. 1993.

$3,280. The National Park Service Cooperative Studies Unit at the University of California, Davis. Comparative studies of tree growth in mudflow, blast, floodplain, and rockfall areas of Lassen Volcanic National Park, California. 1992.

$500. The Loomis Museum Association. Forest regeneration of the devastated area of Lassen Volcanic National Park, California. 1992.

$1,600. The Loomis Museum. Forest regeneration in the devastated area of Lassen Volcanic National Park, California. 1991.

$6,000. The National Park Service / Lassen Volcanic National Park, California. Remote sensing /GIS and forest succession research. 1987-1991.

$1,100. Visiting scientist to the Savannah River Ecology Laboratory to discuss cooperative research at Lassen Volcanic National Park, California. 1988.

$37, 500. A.W. Mellon Foundation. Forest regeneration in the devastated area of Lassen Volcanic National Park, California 1988.

$1,600. The Loomis Museum Association. Forest regeneration in the devastated area of Lassen Volcanic National Park, California. 1988.

$8,500. US Dept. of Energy / Savannah River Ecology Laboratory for Summer Stipend, Travel, and Equipment funds for studies on Herbivore/Plant interactions in early successional ecosystems. Summer, 1986.

**$101,756**

**Internal Support**

$1,400 Anderson Institute. Devastated Area Research, Lassen Volcanic National Park, California. 2008

$1.800 TCU/RCAF. Devastated Area Research, Lassen Volcanic National Park,

California. 2008.

$221. TCU Biology Department Adkins Fund. Analysis of four environmental parameters at the Fort Worth Nature Center, using a geographic information system (GIS), 1997.

$2,485. TCU/RF #5-23724. Logistical support for research at Big Bend National Park, Texas. Amount $2,485. 1994.

$2,997. TCU/RF Grant #5-23944. Red fir forest regeneration in Lassen Volcanic National Park, California. 1988.

$1,500. TCU/RF. Biology Department Seminar Program. 1985.

$1,575. TCU/RF. Effects of enrichment on plant and insect components of an early successional old-field ecosystem.

$2,432. TCU/RF Grant # 5-23688. The effects of acid water on aquatic plants.1983.

$1,690. TCU/RF. Biology Department Seminar Series. 1982.

**$16,100**

**Total Funds Acquired $117,856.00**

**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 August, 2009.

2. Primary Succession of the Conifer Forest in the Chaos Jumbles in Lassen Volcanic National Park, California. Keri McKnew. MS Degree. Completed August, 2004.

3.A Descriptive Study of Farview Prairie at the Fort Worth Nature Center in Fort Worth, Texas. Judy MacKenzie. MS Degree. Completed May 2003.

4. Classification of Vegetation Associated with the Black-tailed Prairie Dog Habitats in the Southern Short-grass Prairie of Texas. Tamara Basham. MS Degree. Completed May 2003.

5. Seasonal Changes in Plant Community Structure at the Culp Branch Native Prairie in the Ray Roberts Lake Wildlife Management Area, Texas. Darrel Murray. MS Degree. Completed, December, 2003.

6. A Vegetation Study Characterizing and Digitally Recording the Plant Communities of Monahans Sandhills State Park, Texas. By Stacy Mills. MS Degree. Completed May, 2001.

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 August, 2001.

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 May, 1998.

9. Analysis of Forest Structure and Function at Huntsville State Park, Huntsville, Texas. By Jason Morovitz. MS Degree. Completed August, 1998.

10. Modeling Pine Distribution in Bastrop State Park, Bastrop, Texas Using Topographic Parameters, Color Infrared Aerial Photography, and a Geographic Information System. By Karen Zabicki. MS Degree. Completed May, 1997.

11. Structure and Function of Upland and Mesic Forest Stands at Caddo Lake State Park, Texas. By Julie Cross. MS Degree. Completed August, 1996.

12. Forest Stand Dynamics Based on Slope and Aspect of an Upland Pine Forest at Bastrop State Park, Bastrop, Texas. By Susan DeCell. MS Degeree. 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.

14. Species Composition and Age Structure of a Bottomland Forest Stand at Caddo Lake State Park, Texas. By Susan Peden. MS Degree. Completed May 1995.

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 Plant Community of the Western Crosstimbers of Texas. By Sharon Morton. MS Degree. Completed December, 1982.

**Publications**

1. Gary W. Ferguson, William H. Germann, Andrew M. Brinker, **Glenn C. Kroh**, and Donald C. Rothven III. 2015, Natural Ultraviolet – b exposure of the Texas Horned Lizard (*Phrynosoma cornutum*) at a North Texas Wildlife Refuge, *The Southwestern Naturalist,* 60 (2-3): 231-239

2. **Kroh, G.C**., R.L. Upjohn, and J.E. Pinder III. Primary conifer succession on a 1915 mudflow in Lassen Volcanic National Park, California, *Journal of Ecology and the Natural Environment,* 6(12): 406-420. 2014

3. 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 grasiosus gracilis*) and the Dunes Sagebrush Lizard (*Sceloporus arenicolus*). *Herpetologica,* 70(1):56-68. 2014

4. **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.

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

6. 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.

7. **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.

8. 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.

9. 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.

10. 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

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

12. **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.

13. Britton, J.C., **G.C. Kroh** and C. Golightly. 1982. Biometric and ecological relationships in two sympatric Caribbean Gecarcinidae (Crustacea; Decaoda). Journal of Crustacean Biology, 2(2):207-222.

14. **Kroh, G**. and R. Schein. 1981. Sediment characteristics of Eleocharis acicularis (1.) R. & S. sites in streams and lakes of central Pennsylvania. Journal of Environmental Quality, 10(1): 49-52.

15. 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.

16. **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.

17. **Kroh, G.** and D. Beaver. 1978. Insect response to mixture and monoculture patches of Michigan old field annual herbs. Oecologia 31:269-275.

18. **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.

**Non-refereed Publications**

E College publication: Kroh, G. C. 2006. Commentary: Insights into Teaching and Learning, Insights I:14. (The William H. Koehler Center for Teaching Excellence, TCU)

The Ecology of Our Landscape: The Botany of Where We Live. A Symposium: Exploring the Interfaces between Plants, People, and the Environment. 1996. The Botanical Research Institute of Texas, Fort Worth, Texas.

**Manuscript Submitted and under active review**

NA

**Papers presented**

February 5, 2016. **Kroh, G.** Botanical Research Institute of Texas Seminar Series. Primary Forest Succession of an Upper Montane Coniferous Forest in the "Devastated" area of Lassen Volcanic National Park (LVNP), California.

February 19, 2016. **Kroh, G.** Baylor University, Biology Departmental Seminar. Primary Forest Succession of an Upper Montane Coniferous Forest in the "Devastated" area of Lassen Volcanic National Park (LVNP), California.

2007. **Kroh, G. C.**, K. McNew, and J. E. Pinder III. Conifer colonization of a rock fall surface in the cascade range of northern California. Oral presentation at the 68th annual meeting of the Association of Southeastern Biologists in April, 2007 at Columbia, South Carolina.

2007. Spring Flowers of the Dallas / Fort Worth Metroplex. Texas Native Plant Society.

2006. *Touring the American Southwest: A Plant Odyssey,*
Invited Speaker: The Botanical Research Institute of Texas.

2006. *Touring the American Southwest: A Plant Odyssey.*
Invited Speaker: The Fort Worth Garden Club.

2006. *Back from Near Extinction; Three North American Birds*
Invited speaker: Eaglefest, Lake Texoma, Texas. January,

2005. The Use of Doc Sharing, Threaded Discussion, Powerpoint, and Group Management in Team Projects Online. Presented at a Beyond the Basics: E College workshop

2005. *TCU Research on Plant Community Mapping at Monahans Sand Dunes, Texas Christian University.* Invited speaker: T.M. Barkley Plant Science and Ecology Seminar Series. Sponsored by The Botanical Research Institute of Texas and the Texas Christian University Biology Department.

1999. **Kroh, G.**, Invited Seminar. The Botanical Research Institute of Texas, Fort Worth, Texas. Plant Ecology Research at Big Bend National Park, Texas. September.

1992. **Kroh, G.**, and J. Pinder. Invited Seminar. Uses of Remote Sensing Data in a Geographic Information System. North Coast GIS Workshop sponsored by Redwoods National Park. Invited by Lee Purkerson: National Park Scientist.

1992. **Kroh, G.**, and J. Pinder. Remote sensing of basal area development in forest succession on a volcanic mudflow. Annual meeting of the Association of Southeastern Biologists. University of Alabama at Tuscaloosa.

1991. White, J., **G. Kroh**, and J. Pinder. A comparison of the performance of CLUSTER and ISODATA/MAXCLAS classifiers on LANDSTAT TM data for broad level forest mapping. Annual Meeting of the Earth Resources Data Analysis Group, Atlanta Georgia.

1991. **Kroh, G.**, and J. Pinder. Invited Seminar. Remote sensing of basal area development in forest succession on a volcanic mudflow. Fourth biennial conference on research in California's National Parks. Univeristy of California at Davis.

1991**. Kroh, G.**, J. White, and S. Heath. Invited Seminar. Forest regeneration in the devastated area of Lassen Volcanic National Park, California. Fourth biennial conference on research in California's National Parks. Univeristy of California at Davis.

1991**. Kroh, G.**, J. White and J. Pinder. Invited Seminar. Comparative methods of forest vegetation mapping at Lassen Volcanic National Park, California, using LANDSTAT TM data and a geographic information system. Fourth biennial conference on research in California's National Parks. University of California at Davis.

1991. White, J., **G. Kroh**, and J. Pinder. Mapping tree vegetation at Lassen Volcanic National Park using LANDSTAT TM data and a geographic information system. Annual Meeting of the Ecological Society of America. San Antonio, Texas.

1990**.** **Kroh, G.**, J. White and J. Pinder. Invited Seminar. Primary succession and geographic information system research at Lassen Volcanic National Park, California. Western Region Headquarters, National Park Service, San Francisco, California.

1990. **Kroh, G**. Invited Seminar. Long term plant ecology research in Lassen Volcanic National Park, California. National Park Service sponsored workshop on research in Volcanic National Parks. Mineral, California.

1990. White, J., **G. Kroh**, and J. Pinder. Mapping forest vegetation at Lassen Volcanic National Park using LANDSAT TM data and GIS. Annual Meeting of the Association of Southeastern Biologists. Baltimore, Maryland.

1989. **Kroh, G.**, J. White, S. Heath, and J. Pinder. Invited Seminar. Research on primary forest succession in Lassen Volcanic National Park, California and the feasibility of generating vegetation maps through remote sensing. Presented at the University of Texas at Arlington in the Biology Department seminar series. Invited by Dr. Robert MacMahon.

1988. **Kroh, G.,** J. White, and S. Heath. Primary succession of a mixed conifer forest in the devastated area of Lassen Volcanic National Park, California. Presented at the Annual Meeting of the Ecological Society of America, University of California at Davis.

1988. **Kroh, G.**, J. White, and S. Heath. Invited Seminar. Preliminary report on a study on the structure and function of a newly developing conifer forest in the devastated area of Lassen Volcanic National Park, California. Presented at the Savannah River Ecology Laboratory (U.S. Department of Energy) Invited by Dr. John E. Pinder.

1987. **Kroh, G.** Invited Seminar. Techniques for studying primary forest succession in a red fir forest. Presented to administrators and visiting scientist at Lassen Volcanic National Park, California.

1985. **Kroh, G.,** and J. Pinder. Insect herbivory and Photosynthetic Pathways in old-field ecosystems. Presented at the Association of Southeastern Biologists, at Middle Tennessee State University.

1985. **Kroh, G.**, and J. Pinder. Insect herbivory and photosynthetic pathways in old-field ecosystems. Presented at the National Meetings of the Ecological Society of America at the University of Minnesota.

1983. Stewart, J., and **G. Kroh**. The effect of acid water on the productivity of *Ceratophyllum demersum* at the Texas Academy of Science annual meetings.

1981. **Kroh, G.** Invited Seminar. Natural History of the Southwestern United States – Biology Department Seminar Series. North Texas State University.

1980. **Kroh, G.** Invited Seminar. Competition and herbivory relationships among Michigan old-field species. University of Oklahoma-Lake Texoma.

1978. **Kroh, G.,** and P. Murphy. Structure and turnover of a virgin beech-maple forest in Southeast Michigan. Annual meetings of the Texas Academy of Sciences at Texas Tech University, Lubbock, Texas.

1978. **Kroh, G.** The effects of patchiness on competition stress in weed populations. Annual meetings of the Texas Academy of Sciences at Texas Tech University, Lubbock, Texas.

1978. **Kroh, G.,** and J. Nisbet. Preliminary observations from a post oak forest productivity study. Annual meetings of the Texas Academy of Sciences at Texas Tech University, Lubbock, Texas.

1978 (spring). Invited paper. **Kroh, G**. Competition and herbivory relationships of four Michigan old field annual herbs. Presented to the botany department faculty at the University of Kansas, Lawrence, Kansas. Host – Dr. Jerome deNoyles.

1978. **Kroh, G.** Competition and herbivory relationships among four old-field annual herbs of mid-Michigan or "The weedy side of plant ecology". Texas Christian University Biology Department Seminar Series.

1977 (June). **Kroh, G.** The effects of pattern on relative yields of four annual herbs and the resultant diversity and yield of the resident insect mix. Presented at the Kellogg Biological Station, Michigan State University, as the lead paper for the summer Ecology Seminar Series. Host – Dr. George Lauff (Director)

1977 (August). **Kroh, G.** and P. Murphy. Structure and turnover of a virgin beech-maple forest in Southwest Michigan. Presented at the Institute of Biological Sciences/Ecological Society of America Symposium – Succession of Forest Regions of the Eastern United States.

1977 (September). **Kroh, G,** S. Stephenson, and D. Beaver. Competition and herbivory relationships of four Michigan old-field annual herbs. Presented at University of Texas-Arlington. Host Dr. Lewis Bragg.

1977 (November). **Kroh, G.,** S. Stephenson, and D. Beaver. Competition and herbivory relationships of four Michigan old-field annual herbs. Presented at the Savannah River Ecology Laboratory, Aiken, SC. Host – Dr. R. Sharitz.

1974. (March) **Kroh, G.** and D. Beaver. The effect of plant composition and spatial pattern on resident insect diversity and yield. Presented at the annual meetings of the Michigan Academy of Science, Arts, and Letters.

1973. **Kroh, G.** and S. Weiss. The effect of spatial pattern on the productivity of annual plants – a dynamic modeling approach. Presented at the American Institute of Biological Sciences (AIBS) annual meetings, Amherst, Mass.

1973. **Kroh, G.** and P. Murphy. The role of root and shoot components in intra-specific interference within a population of *Phaseolus vulgaris.* Presented at the annual meetings of the Michigan Academy of Science, Arts, and Letters.

**Undergraduate research projects directed**

Directed Ms. Natasha Zinsou on a plant succession field project as part of requirements for the McNair Scholarship program. 2012/2013

Rachel Cartmell. Undergraduate Honors project: Phenology study of fall flowering plant species in the Caprock Prairie community at the Fort Worth, Texas Nature Center 2015/2016

Karim Al-hussayni. Undergraduate independent research project: Comparative Pollinating and Herbivorous Insect Interactions with *Scutellaria drummondii Benth. And Glandularia bipinnatifida Nutt.* Completed spring 2016.
Bethany Baas. Directed development and organization of her departmental presentation entitled *Using Biochar to Reduce Greenhouse Gas Emissions and Increase Soil Fertility.* Spring 2015

Effects of epiphytes on light penetration in macrophytes. Andy Trammel. (1979)

Yield and Diversity of the Cross Timbers Oak Forest at the Fort Worth Nature Center. Jim Nesbit, 1978

Effect of Leaf Litter on Plant Germination at the Fort Worth Nature Center. Jim Eastep, 1978

**Graduate committees served on**

Energy Dynamics of Carnivorous Pitcher Plants. Michelle Green. MS Biology. Major Professor Dr. John Horner

Ephemeral Temperature Relationships of Snakes in the Sabine River Floodplain, East Texas. Andrew Brinker. MS Biology. Major Professor Dr. Gary Ferguson

Diurnal Activity Patterns as Affected by Exothermal and Endothermal Body Temperature Dynamics of Lizards in Field and Laboratory Environments. Stacy Bucklin. MS Environmental Science. Major Professor Dr. Gary Ferguson

Deciphering the Importance of Size in Prey Capture in *Sarracenia alata* Wood (Sarraceniaceae). Ganesh Bhattaria. MS Biology. Major Professor Dr. John Horner

| | | |
|---|---|---|
| **1978** | 5 MS committees | Charles Golightly<br>Kent Brown<br>Steve Jones<br>Marge Schlangenstein<br>Steve McComas |

**Continuing Research Activity**

Working on a project analyzing genetic evidence of hybrid swarming among Ponderosa and Jeffrey pine species. Poster presentation is scheduled for the June, 2017 meetings of the American Botanical Society.

Wrap up a 4-year study with Keri Barfield (BRIT), Dr. Dean Williams and Dr. Ernest Couch using electron microscopy and DNA analysis to determine the biogeographical history of the origins, speciation, and geographical distributions of the closely related conifer species *Pinus ponderosa* and *Pinus Jeffreyii.*

Refine a collaborative research project with Dr. John Pinder at Colorado State University on primary succession in a flood plain community in Lassen Volcanic National Park, California

Continue work on a natural history field guide of the Monahans Dune Field ecosystem in west Texas.

**Editorships, Consultantships, Professional and Creative Activities, and Professional Engagements:**

| | |
|---|---|
| **Reviewed for:** | *Texas Journal of Science*<br>*Ecology*<br>Harper and Row Publishers.<br>McGraw Hill Publishers<br>(3 chapters in book, “Ecology” by Schwartz) |
| **Consultant** | Fort Worth Botanical Gardens Master Plan<br>Fort Worth Botanical Gardens Focus Committee regarding |

qualities needed in a new director
Fort Worth Nature Center Advisory Board

Video — Produced a video for e college to be used in workshops to instruct new faculty on how to use e college techniques for online classes. 2006.

**Community Activities Directly Related to Professional Skills**

Capital Improvements City Bond Steering Committee (1985), Fort Worth, TX
Founder and first president of the Fort Worth League of Neighborhoods
Ran for the Congressional District 12 State Board of Education
Frog Camp 2001
Judge at Tarrant County Science Fair (1983-1987)
Invited Speaker. Soroptimist Club of Fort Worth. Talk: The History of Man from an Environmental Perspective. At the Petroleum Club. 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)

**Other Professionally Related Activities not Included in any of the above categories**

Co-chaired joint TCU / BRIT . M. Barkley Seminar Series
Member, Advisory Board, Fort Worth Nature Center
Research Associate at the Botanical Research Institute of Texas (BRIT), Fort Worth, Texas.

Secretary Treasurer of the TCU Chapter of Sigma Xi.
Chair: Ecology Paper Session - The North Texas Biological Society's annual meeting at Texas Wesleyan College. 1977.
Chair: Ecology and Systematics Session - Texas Academy of Science annual meetings at Texas Tech University. 1978.
Chaired the Ecology paper session at the North Texas Biological Society annual meetings at Texas Wesleyan College. 1977.

**Academic Advising Activities**

Advise non-pre-heath undergraduate students
Major advisor to 17 graduate students

**Departmental Service**

Outcome Assessment Committee
Environmental Sciences Committee
Departmental Advisory Committee
Greenhouse Committee
Suburban Procurement Committee
Organized and implemented department seminar program
Self Study Committee (1982)
Curriculum Committee
Chair: Search Committee for Botanist (1982)
Committee on Graduate Students
Library representative
Oversee departmental greenhouse
Supervised department seminar program (1978-1979)
Tenure and Promotion committee (1979)

**College Service**

Chair of Dean's Teaching Award committee (2001)
AddRan Curriculum Committe (1982)
Membership Committee for Sigma Xi
Environmental Science advisory committee

**University Service**

Graduate Council
MALA Advisory Committee
Library Committee
Use of Facilities Committee
Chair: University Intercollegiate Athletic Committee (1991)
Academic Appeals Committee
University Self Study Committee on Special Programs
Library Committee

**Membership in Professional Organizations**

Ecological Society of America