
Dr. JAMES E. VAN KLEY

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EDUCATION

- Ph.D. Forest Ecology, Purdue University, West Lafayette, IN, 1993.
- M.S. Biology, Central Michigan University, Mt. Pleasant, MI, 1989.
- B.A. General Biology, Calvin College and Seminary, Grand Rapids, MI, 1983.

PROFESSIONAL AFFILIATIONS

- Texas Academy of Science
- Southern Appalachian Botanical Society
- International Association for Vegetation Science
- Stephen F. Austin State University Graduate Faculty

PROFESSIONAL EMPLOYMENT

Professor, Department of Biology, Stephen F. Austin State University, Nacogdoches, TX. August 2006 to Present (2024).

- Teach courses including introductory Biology and advanced courses in the areas of Botany, Plant Ecology, Plant Systematics, and Wetland Science.
- Responsible for obtaining grants and conducting a research program in Plant Ecology.
- Advise and mentor graduate students.
- Serve on departmental committees.
- Serve as curator of the ASTC herbarium.

Associate Professor, Department of Biology, Stephen F. Austin State University, Nacogdoches, TX. August 2000 to August 2006.

Visiting Professor, Alterra institute, Wageningen, the Netherlands. Supported by a Faculty Development Leave grant from Stephen F. Austin State University. January, 2001-June 2001.

- Conducted research and data analysis of Netherlands vegetation.
- Prepared manuscripts for publication.

Assistant Professor, Department of Biology, Stephen F. Austin State University, Nacogdoches, TX. August 1993 to August 2000. Was awarded tenure in 1999.

PROFESSIONAL EMPLOYMENT (continued)

Graduate Instructor, Department of Forestry and Natural Resources, Purdue University, West Lafayette, IN. August, 1989-1993. Salary provided in part through a cooperative agreement between Purdue University and the USDA Forest Service.

- Implemented research program developing an Ecological Classification System for the Hoosier National Forest.
- Interacted and cooperated with Forest Service Personnel.
- Supervised summer field crews: 1990, 1991, 1992.
- Presented papers at professional meetings.

Graduate Assistant, Department of Biological Sciences, Purdue University, Fall 1990.

- Conducted a tree census for the Ross Biological Reserve, Purdue University.

Graduate Teaching Assistant, Department of Biology, Central Michigan University Mt. Pleasant MI, January, 1987-1988

- Responsible for teaching and preparing General Botany laboratories.

Grounds keeper, Calvin College and Seminary, Grand Rapids, MI 1985-1986

- Maintained and designed flower and shrub plantings throughout the campus.
- Operated equipment and supervised other crew members.

Volunteer Agriculturalist, Christian Reformed World Missions Grand Rapids, MI, 1984

- Worked in Mkar Nigeria.
- Assisted Nigerian farmers with pig and poultry production and feed milling.
- Traveled throughout Benue State, Nigeria, offering extension service to farmers.

PUBLICATIONS

- Van Kley, James E. 1989. Habitat and ecology of *Iris lacustris*, the Dwarf Lake Iris. M.S. thesis, Central Michigan University, Mt. Pleasant, MI
- Van Kley, J.E. and D.E. Wujek. 1993. Habitat and ecology of *Iris lacustris* (the Dwarf Lake Iris). Michigan Botanist 32: 209-222.
- Van Kley, James E. 1993. An Ecological classification System for the Central Hardwoods Region: the Hoosier National Forest. PhD. dissertation, Purdue University, West Lafayette, IN.
- Van Kley J.E. and G.R. Parker. 1993. An Ecological classification System for the Central Hardwoods Region: the Hoosier National Forest. In Proceedings of the ninth annual Central Hardwoods Conference, Purdue University, West Lafayette, IN. USDA Forest Service tech. Rpt. NC-161.
- Van Kley, J.E., George R. Parker, Donald P. Franzmeier, and J.C. Randolph. 1995. Field guide: ecological classification of the Hoosier National Forest and surrounding areas of Indiana. USDA Forest Service, North Central Forest Experiment Station.
- Van Kley J.E. and D.N. Hine. 1998. The Wetland vegetation of Caddo Lake. *Texas Journal of Science* 50: 267-290.
- Van Kley J.E., 1999. The vegetation of the Kisatchie Sandstone Hills *Castanea* 64: 64-80.
- Van Kley, J.E. 1999. The vegetation of the High Terrace Rolling Uplands, Louisiana. *Castanea* 64: 318-336.
- Schaminée, Joop H.J., James E. Van Kley & Wim A. Ozinga, 2002. The analysis of long term changes in plant communities: case studies from the Netherlands. *Phytocenologia*, 32: 317-355.
- Wujek, Daniel E., James L. Wee, and James E. Van Kley. 2002. Silica-scaled chrysophytes and synurophytes from east Texas. *Texas Journal of Science*, 54: 27-36.
- Van kley, J.E. and H.J. Schaminée, 2003. Large-scale ordination and gradient analysis of saltmarsh communities in the Netherlands in view of the National Vegetation Classification. *Phytocoenologia*. 33:335-347.
- Van kley, J.E. The Vegetation of the Pineywoods. 2006. Invited book chapter. p. 76-106 In. Diggs, George M., Jr., Barney L. Lipscomb, Monique D. Reed, and Robert J. O'Kennon 2006. Illustrated Flora of East Texas. Center for Environmental Studies, Austin College, Sherman, Texas, and Botanical Research Institute of Texas (BRIT), Fort Worth, Texas. 1594pp.
- Martynova-Van Kley, A., H. Wang, A. Nalian, and J.E. Van Kley, 2006. Detection of arbuscular mycorrhizal fungi in a east Texas forest by analysis of SSU rRNA gene sequence. *Texas Journal of Science* 58(3):231-242

PUBLICATIONS (continued)

- VanKley, J. E. 2007. In Peter Loos, David Creech, Elyse Rodwell (Ed.), Learning the Language of Vegetation: Native Plants as Indicators of the Natural Forest Environment (pp. 60-71). Nacogdoches: Pineywoods Native Plant Center and SFASU.
- Martyniuk, O., A. Nalian, J.E VanKley, and A. Martynova-VanKley, 2009. Phylogenetic analysis of Amaranthaceae Juss. based on surface structure of pollen and sequences of maturase k and RBCL proteins. *БИОТЕХНОЛОГИЯ* (“*Biotechnology*”, Ukraine) in English. 2(2), 94-100.
- Oswald, B. P., Ott, B., Williams, H. M., Farrish, K. W., VanKley, J. E. 2009. Understory vegetative Diversity of Post-Thinned pine Plantations Treated with Fertilizer, Fire and Herbicide in East Texas. *International Journal of Forestry Research* Vol. 2009, 1-6.
- VanKley, J. E. and R.L. Turner, 2009. An Ecological Classification System for the National Forests and Adjacent Areas of the West Gulf Coastal Plain. *Southeastern Naturalist*, 8(2), 1-30.
- Nalian, A, J.E.Van Kley, K. Stroup, A. Martynova-Van Kley, 2010. Host Preferences of Arbuscular Mycorrhizae Along a Soil Nutrient and Hydrological Gradient. *БИОТЕХНОЛОГИЯ* (“*Biotechnology*”, Ukraine), in English. 2(3) 76-80.
- Bozarth, M.A, K.W. Farrish, G.A. Damoff, J.E. Van Kley, J.L. Young, 2016. Spatial Distribution of Earthworms in an East Texas Forest Ecosystem. *Applied Soil Ecology*, 104: 91-103
- Montez, R., Saenz, D., VanKley, A. M., VanKley, J. E., Nalian, A., Farrish, K. W. (2021). "The influence of Chinese tallow (*Triadica sebifera*) leaf litter on water quality and microbial community composition." *Aquatic Ecology*, 55(3), 265–282.
<https://doi.org/10.1007/s10452-020-09828-z>
- Van Kley, J.E, ed.; Fowler, S., Roush, R., Wise, J., and Van Kley, J.E, 2022. *Biology: Central Concepts -an Open Educational Resource Introductory Biology Textbook*. pp. 719.
<https://oertx.highered.texas.gov/courseware/lesson/3547/>
- VanKley, J. E., and Cunningham, B. L. 2023. “Plants of the Pineywoods Part1: Herbaceous Eudicotyledons, herbaceous Magnoliids, & Nymphaeids”. pp. 464. Bruce Lyndon Cunningham Productions, Nacogdoches TX. ISBN 9780934115186

RESEARCH REPORTS

Parker G.R. and James E. Van Kley, 1993. Brown County State Park: Final report on vegetation damage by white-tailed deer. Submitted to Division of State Parks, Indiana Department of Natural Resources Indianapolis, IN.

Van Kley, J.E. and D.N. Hine.1998. The Wetland vegetation of Caddo Lake: A report submitted to the National Biological Service in fulfillment of Agreement no. 14-45-0009-94-959. 45 pp.

Turner, R.L , J.E. Van Kley, R.E. Evans, and L. Smith, 1999. Field guide to the ecological units of the Kisatchie and Texas National Forests. The Nature Conservancy, Nacogdoches, TX.

Van Kley, J.E., and J. Quine. 2000. The Vegetation of the Alazan Bayou Wildlife Management Area, Nacogdoches County Texas: A Preliminary Report. Submitted to Texas Parks & Wildlife Department

Van Kley J.E., R.L. Turner, L.S. Smith, and R.E. Evans. 2007. Field Guide: an Ecological classification system for the national forests and adjacent areas of the West Gulf Coastal Plain: 2nd approximation. The Nature Conservancy and Stephen F. Austin State University, Nacogdoches, Texas, USA. 379pp.

RESEARCH GRANTS

Ecological Classification System for the Kisatchie and Texas National Forests: 1994. Funded by The Nature Conservancy and the USDA Forest Service. \$138,500.

Vegetation Survey of the Wetlands of Caddo Lake. 1994. Funded by the National Biological Service. \$30,833.

Continuation of Vegetation Survey of the Wetlands of Caddo Lake. 1995. Funded by the National Biological Service. \$33,488.

Ecological Classification System for the Kisatchie and Texas National Forests: Renewal. 1996. Funded by The Nature Conservancy and the USDA Forest Service. \$37,007.

Completion of Ecological Classification System: Winn and Catahoula Ranger Districts. 1997. Funded by The Nature Conservancy and the USDA Forest Service. \$8,800

Vegetation Survey of Alazan Bayou Wildlife Management Area. 1998. Funded by Texas Parks and Wildlife Department. \$11,647.

Extension of Ecological Classification System for preliminary sampling of the Caney Ranger District and the Red River Alluvial Plain in the Kisatchie National Forest. 1999. Funded by The USDA Forest Service. \$10,500.

Development of an ecological classification for the Caney Ranger District of Kisatchie National Forest. 2001 Funded as a cooperative agreement by the USDA Forest Service \$36,000.00.

RESEARCH GRANTS (continued)

Extension of Ecological classification work to complete ecological classification research on the Caney Ranger District and the Red River Alluvial Plain and to revise the Ecological Classification handbook. 2002. Funded as a cooperative agreement by the USDA Forest Service \$6,800.00.

Plant Survey at a Texas Army National Guard (TXARNG) Facility (Camp Maxy, Lamar County, Texas). 2004. Co-Principal investigator along with Dr. Will Godwin (SFASU Biology). Funded by the Texas National Guard. \$30,000.00

Relating Arbuscular Mycorrhizal and Soil Microbial Diversity Patterns to East Texas ecosystem Types. 2007. Funded by SFASU Office of Research & Sponsored Programs, Stephen F. Austin State University, \$23,900.00.

Changes in Wetland Vegetation at Caddo Lake, Texas, over a 17-year Period. 2012. Faculty Engagement Research Grant (FREG) SFASU STEM Research and Learning Center. \$2,250.00

"Digitization TCN: American Crossroads: Digitizing the Vascular Flora of the South-Central United States", National Science Foundation, Federal, \$40,000.00. 2019– Present. The SFA portion obtained by JVK for the (ASTC Herbarium) of a \$1,497,043.00 collaborative grant to digitize and "mobilize" herbarium specimens for institutions throughout Texas & Oklahoma. Peter Fritsch (Botanical Research Institute of Texas =BRIT) is the Principal Investigator for the grant.

Developing and Implementing an Open Educational Resource for Introductory Biology. 2021. Funded by the Texas Higher Educational Coordinating Board, OER-GEER Grant, \$5,000.00

Montana-Schalk, Carmen Graviela (Principal), Winemiller, Kirk O (Principal), Schalk, Christopher M (Co-Principal), Van Kley, James E (Co-Principal), Conway, Kevin W (Co-Principal), Kelso-Winemiller, Leslie (Co-Principal), "Collaborative Research: Track 1, IRES Sites: Student Research in Freshwater Ecosystems at the Epicenter of Neotropical Biodiversity, Guiana Shield". 2021. (Funded), Sponsored by National Science Foundation, Federal, \$263,406.00. (September 21, 2021 - Present).

CONFERENCE PRESENTATIONS

Habitat and Ecology of *Iris lacustris*, the Dwarf Lake Iris. Michigan Academy of Arts and Sciences annual meeting, Saginaw, MI, March 1988

Habitat and Ecology of *Iris lacustris*, the Dwarf Lake Iris: Revisited. Michigan Academy of Arts and Sciences annual meeting, Grand Rapids, MI, March 1989.

An Ecological Classification System for the Central Hardwoods Region: a First Approximation. Poster paper. National meeting of the Ecological Society of America, San Antonio, TX, August 1991.

An Ecological Classification System for the Hoosier National Forest: a First Approximation. Indiana Academy of Science annual meeting, Evansville, IN, November 1991

An Ecological Classification System for the Hoosier National Forest: the Crawford Upland. Indiana Academy of Science annual meeting, Muncie, IN, November 1992.

An Ecological Classification System for the Central Hardwoods Region: the Hoosier National Forest. Oral presentation. Ninth annual Central Hardwoods Conference, Purdue University, West Lafayette, IN. March 1993.

An Ecological Classification System for the Western Gulf Coastal Plain. poster. Annual meeting of the Texas Academy of Science, Waco, TX. March 1995 .

An Ecological Classification system for the Western Gulf Coastal Plain. Oral presentation. 38th Annual meeting of the International Association of Vegetation Science. Houston, TX, June 1995.

An Ecological Classification System for the Western Gulf Coastal Plain. Poster. National meeting of the Ecological Society of America. Snowbird, Utah, July 1995.

The Wetland Vegetation of Caddo Lake. Oral presentation. Big Thicket Science Conference, Beaumont TX, October, 1996.

The Vegetation of the Texas Piney Woods. Oral Presentation. Translated by Dr. Aisek Solomesh. Invited speaker for faculty seminar of the Bashkir Science Institute. Ufa, Russia, December 1996. This was the first time an American gave a presentation at the science institute.

The Wetland Vegetation of Caddo lake. Oral Presentation. Annual meeting of the Texas Academy of Science, Huntsville. TX, March 1997.

The Vegetation of the Kisatchie Sandstone Hills. Poster. National meeting of the Ecological Society of America, Albuquerque NM. August 11-14, 1997.

The Vegetation of the high Terrace Rolling uplands. Oral Presentation. Annual meeting of the Texas Academy of Science, Tyler, TX, March 1998.

Patterns of Natural Vegetation in the West Gulf Coastal Plain, USA. Oral presentation. 42nd meeting of the International Association of Vegetation Science. Bilbao, Spain, July 26-30, 1999.

An Ecological Classification System for the West Gulf Coastal Plain, USA. Oral presentation. 43rd meeting of the International Association for Vegetation Science. Nagano, Japan, July, 2000.

Large-scale ordination and gradient analysis of saltmarsh communities in the Netherlands in view of the National Vegetation Classification. Oral presentation. European Vegetation Survey Workshop, Rome, Italy, March 30-April 2, 2001.

Observing Vegetation Changes in Context of Regional Classification Models. Oral presentation. 45th annual meeting of the International Association for Vegetation Science. Porto Alegre, Brazil March 4-8, 2002.

The Vegetation of the North Louisiana Clay Hills. Oral presentation. 106th annual meeting of the Texas Academy of Science. Nacogdoches, TX, February 27-March 1 2003.

The Vegetation of the North Louisiana Clay Hills. Oral presentation. Big thicket Science conference. Beaumont, TX, October 9-12, 2003.

Vegetation change in the west gulf coastal plain, USA. Oral presentation. 47th annual meeting of the International Association of Vegetation Science. Kailua-Kona, Hawai'i, July 18-23, 2004.

A decade of exotic plant invasion at Caddo Lake, Texas, USA. Oral Presentation. 49th annual meeting of the International Association of Vegetation Science. Palmerston North, New Zealand, February 12-16, 2007.

Bryophyte Communities of East Texas. 51st meeting of the International Association for Vegetation Science, Stellenbosh, Western Cape, South Africa. September 9, 2008.

Compositional shifts in a Texas USA *Taxodium* swamp resulting form multiple exotic plant invasions. Oral Presentation. 53rd annual meeting of the International Association of Vegetation Science. Ensenada, Mexico, April 18-23, 2010

Compositional shifts in wetland vegetation at Caddo Lake, Texas, USA resulting from multiple exotic plant invasions. Oral presentation Big Thicket Science Conference, Nacogdoches, TX, USA. April 9, 2011.

'Bogs' of East Texas. Oral presentation. Lone Star Regional Native Plants Conference, Nacogdoches, Texas. May 19, 2012.

Observing Impacts of the 2011 drought in three east Texas plant communities using undergraduate research projects. Poster presentation. Botany 2012: Annual meeting of the Botanical Society of America, Columbus, Ohio, July 9, 2012.

Year-to-Year Compositional Shifts in a Texas, USA, *Taxodium* Swamp Following Exotic Species Invasions. 56th Annual meeting of the International Association for Vegetation Science, Tartu Estonia. June 27, 2013.

Bottomland Forest Vegetation Changes and Exotic Species at Caddo Lake Texas, USA: 1995-2012. Botany 2013: Annual meeting of the Botanical Society of America, New Orleans LA, USA. July 29, 2013.

Bottomland Hardwood Forests & Swamps of the Texas Pineywoods. **Invited Plenary talk**, Annual Meeting, Native Plant Society of Texas, Texarcana, Texas. October 18, 2014.

Year-to-Year Compositional Shifts in a Texas, USA, Taxodium Swamp Following Exotic Species Invasions. Invasive Species Symposium, SFA Chapter of National Assoc. of Environmental Professionals, SFASU, Nacogdoches, TX. March 28, 2015.

Year-to-Year Compositional Shifts in a Texas, USA, Taxodium Swamp Following Exotic Species Invasions. Big Thicket Science Conference, Big Thicket Association /SFASU/ US Forest Service/ US Nat. Park Service, Nacogdoches, TX. April 18, 2015.

The East Texas USA Flora and Ecosystems: An untapped resource for ecotourism. Invited talk. Economy and Ecology Conference 2015, Samara State University of Economics; Volga Basin Ecology Institute, Samara, Russia. May 20, 2015.

Twenty Years of Vegetation Change in a Texas, USA, Taxodium Swamp During Multiple Exotic Species Invasions. 58th Annual Symposium of the International Association for Vegetation Science (IAVS), Brno Czech Republic. July 21, 2015.

The Forest Vegetation of Texas, USA. **Invited Plenary Talk.** Global and Regional Biological Processes: 4th Conference of Young Scientists with International Participants. Russian Academy of Sciences, Ulan Ude, Buratia, Russian Federation. June 25, 2016.

ECS to NVC In the West Gulf Coastal Plain: Crosswalking Apples to Mayhaws. Meeting & Workshop of the panel for the USNVC, "Ecological Society of America, Baltimore MD, USA. April 4, 2017.

The US National Vegetation Classification in context of the forest vegetation of The West Gulf Coastal Plain. 61st Annual Symposium of the International Association for Vegetation Science,(IAVS), Bozman, MT. July 23. 2018.

Introducing "Plants of the Pineywoods Part1," **Invited Plenary Talk.** Native Plant society of Texas Fall symposium 2003, Nacogdoches, Texas. November 11, 2023.