

CURRICULUM VITAE



James Craig Zech

I. PERSONAL:

C-57, Biology Department, Sul Ross State University, Alpine, TX 79832;
432-837-8114; jzech@sulross.edu.

Professor: 1 September 2004 - present;; Associate Professor: 1 September 1998 - 31 August 2004; Tenure Granted: Effective 1 September 1998; Assistant Professor: 13 April 1992 - 31 August 1998.

II. EDUCATION:

Ph.D. - The Ohio State University, Plant Biology, Systematics, 1992; M.S. - Central Michigan University, Botany, 1986; B.S. - Central Michigan University, Biology and Psychology, 1983; A.A. - Grand Rapids Junior College, Biology and Psychology, 1981.

III. ACADEMIC AWARDS:

Who's Who Among America's Teachers, 9th Edition, April 2005, nominated by Taryn Watson. International Scientist of the Year 2002, nominee, International Biographical Centre, Cambridge, England.

Who's Who Among America's Teachers, 7th Edition, March 2002, nominated by Sandra I. Castorena.

Who's Who Among America's Teachers, 4th Edition, October 1996, nominated by Homer E. Puckett.

IV. TEACHING EXPERIENCE:

SUL ROSS STATE UNIVERSITY (SRSU) AND MIDLAND COLLEGE (MC)

1. UNDERGRADUATE COURSES: General Botany (SRSU); Microbiology (SRSU); Plant Anatomy, including Plant Anatomy Lab (SRSU); Plant Biology (OSU); Plant Morphology, including Plant Morphology Lab (SRSU, MC); Plant Physiology, including Plant Physiology Lab (SRSU, MC); Desert Ecology (SRSU); Biology Senior Review (SRSU, MC); Women in Science (SRSU, WEB); Plant Taxonomy, including Plant Taxonomy Lab (SRSU); Special Topics [e.g., Paper Chromatography (SRSU)].

2. GRADUATE COURSES: Evolution (SRSU); Field Botany (SRSU); Independent Research (SRSU); Phytochemistry including Phytochemistry Lab (SRSU); Plant Systematics including Plant Systematics Lab (SRSU); Techniques of Scientific Research (SRSU); Advanced Plant Taxonomy for Educators (SRSU, WEB); Evolution for Educators (SRSU, WEB); Scientific Women for Educators (SRSU, WEB).

ALSO:

Lecturer and Laboratory Instructor - Plant Biology 101N and 102N, The Ohio State University -

Newark Campus, 1991-1992.
Lecturer and Laboratory Instructor - Plant Biology, Central Ohio Technical College, Fall, 1991.
Lecturer - Local Flora, The Ohio State University, Summer 1990-1991.
Lecturer - General Botany, The Ohio State University, Summer 1989.

VI. PROFESSIONAL PUBLICATIONS AND PRESENTATIONS:

1. Abstracts Published:

- Rousselow, J. S. and J. C. Zech. 2011. Spring Baseline Floral Inventory of Hancock Hill, Brewster County, Texas. *Texas Acad. Sci.* 114: 53.
- Zech, J. C. 2010. An Introduction to the Aspens of Texas: The Rarest of the All? Texas Plant Conservation Conference, Lady Bird Johnson Wildflower Center, Austin, TX (submitted).
- Mancha, V.A. and J. C. Zech. 2010. Coal Ball Analysis: Variations in the Peel Technique. Abstract. *Texas Acad. Sci* 113: 105 (Poster).
- Roberts, P. and J. C. Zech. 2010. The Vascular Plants of Indian Springs and Cienega of Chinati Mountains State Natural Area, Presidio County, Texas, Based on Sampling from Late February 2009 Through April 2009. *Texas Acad. Sci.* 113: 106 (Poster).
- Zech, J. C. 2008. *Zanthoxylum parvum* (Rutaceae): A Rare West Texas Endemic, Safe at Last? Abstract. *Texas Acad. Sci.* 111: 51.
- Zech, J. C. 2004. Botanical Zoo: Three Rare Species from Far West Texas (*Zanthoxylum parvum*, *Osmorhiza bipatriata*, and *Ophioglossum polyphyllum*). Within Texas Plant Conservation Conference Program, pp. 16, Abstract. Lady Bird Johnson Wildflower Center, Austin, TX.
- Livingston, R. A., P. A. Schlichting, S. J. Carlson, P. R. Manning, and J. C. Zech. 2004. Beyond the Fence Line: Distribution of *Ophioglossum polyphyllum* within West Texas. Abstract. *Texas Acad. Sci.* 107: 84.
- Zech, J. C., L. K. Hedges, S. J. Carlson. 2000. The Reproductive Biology of a West Texas Endemic, *Zanthoxylum parvum* (Rutaceae). Third Southwestern Rare and Endangered Plant Conference, Northern Arizona University. 3: 27.
- Baur, J. L. and J. C. Zech. 2000. Development of an Educational Garden Representing Different Vegetative Zones Within the Chihuahuan Desert Region of Texas. Abstract. *Texas Acad. Sci.* 103: 76.
- Carlson, S. J., J. C. Zech, and L. K. Hedges. 2000. The Missing Piece: Fruit Morphology of *Zanthoxylum parvum* (Rutaceae), A West Texas Endemic. Abstract. *Texas Acad. Sci.* 103: 53.
- Hedges, L. K. and J. C. Zech. 1999. Floral Morphology of *Zanthoxylum parvum* Shinnery (Rutaceae), a Davis Mountains Endemic. Abstract. 5th Symposium on Resources of the Chihuahuan Desert. 5: 23.
- Zech, J. C., P. R. Manning, S. J. Hood, and W. H. Wagner, Jr. 1999. A New Fern and a Female Found: Botanical News from West Texas. Abstract. *Texas Acad. Sci.* 102: 81.
- Zech, J. C. and L. K. Hedges. 1998. The Staminate Flowers of a West Texas Endemic (*Zanthoxylum parvum*, Rutaceae): Evidence of Polyploidy? Abstract. *Texas Acad. Sci.* 101: 43.
- Zech, J. C. and E. D. Herzog. 1997. Vascular Plants of Nations Ranch, Jeff Davis County, Texas. Abstract. *Texas Acad. Sci.* 100: 45.
- Zech, J. C. and T. O. Hernández. 1996. Flavonoid Compound Chemistry and Hybridization in Trans-Pecos Oaks (*Quercus* sp., Fagaceae). Abstract. *Texas Acad. Sci.* 99: 17.

2. Papers/Manuals/Photographs Published:

- Zech, J. C., C. Fairlie, S. Hileman, J. Parsons, and B. Six. 2009. Addendum to the Thesis Guidelines: School of Arts and Sciences. Sul Ross State University, Alpine, TX.
- Zech, J. C., C. Fairlie, S. Hileman, J. Parsons, and B. Six. 2008. Thesis Guidelines: School of Arts and Sciences. Sul Ross State University, Alpine, TX.
- Zech, J. C. 2007. Plant Physiology. A Laboratory Manual For Biology 4408. Sul Ross State University, Alpine, Texas.
- Zech, J. C. 2007. *Osmorhiza bipatriata* and *Dalea bartonii* photos in J. M. Poole, W. R. Carr, D. M. Price and J. R. Singhurst, Rare Plants of Texas. Texas A&M University Press.
- . 2005. Field Survey and Population Evaluation for the Shinners' Tickle Tongue (*Zanthoxylum parvum*): Final Report. U.S. Fish and Wildlife Service (No. 1448-20181-99-J835). 1-30.
- Wen, J., P. P. Lowry II., and J. C. Zech. 2004. *Osmorhiza bipatriata* (Apiaceae) in Texas: Taxonomic Status and Conservation Considerations. SIDA. 21: 501-506.
- Karges, J. P. and J. C. Zech. 2003. Another Juniper in Jeff Davis County Texas? We're Not Convinced. SIDA 20: 1325.
- Zech, J. C. 2002. Status of a Reproductively Mixed-Up West Texas Endemic, *Zanthoxylum parvum* (Rutaceae): A Summary. In Texas Rare Plant Conference Proceedings 2001. pp. 16-20. Lady Bird Wildflower Center and U. S. Fish and Wildlife Service, Austin, TX.
- Karges, J. P. and J. C. Zech. 2001. *Cupressus arizonica* (Cupressaceae) New to the Davis Mountains of West Texas. SIDA. 19: 723-725.
- Zech, J. C. 1999. Erratum. A New Variety of *Azorella diversifolia* (Apiaceae) from Southern Chile. Madroño. 46: 165.
- . 1999. Flavonoid Distribution of *Mulinum* (Apiaceae, Hydrocotyloideae, Mulineae). Brittonia. 51(4): 415-421.
- and A. M. Powell. 1999. Discover the Chihuahuan Desert: General Botany. A Laboratory Manual For Biology 1401. 2nd Edition. Sul Ross State University, Alpine, Texas.
- Zech, J. C., P. R. Manning, and W. H. Wagner Jr. 1998. A New Adder's-Tongue (*Ophioglossum*: Ophioglossaceae) for North America. SIDA. 18: 307-313.
- Zech, J. C. 1997. A New Variety of *Azorella diversifolia* (Apiaceae) from Southern Chile. Madroño. 44: 193-196.
- and P. R. Manning. 1996. *Ophioglossum engelmannii* in Trans-Pecos Texas. Amer. Fern J. 86(3): 102.
- Zech, J. C. 1995. Nomenclatural Novelties on *Mulinum* (Apiaceae). Kurtziana 24: 192.
- and A. M. Powell. 1993. Discover the Chihuahuan Desert: General Botany. A Laboratory Manual For Biology 1401. Sul Ross State University, Alpine, Texas.
- Zech, J. C. 1992. Initial Observations on Tegumen Layer Variation in Three Species of *Luzula* (Juncaceae). Michigan Bot. 31: 25-29.
- and D. E. Wujek. 1990. Scanning Electron Microscopy of Seeds in the Taxonomy of Michigan *Juncus*. Michigan Bot. 29: 3-18.

VII. PROFESSIONAL PRESENTATIONS:

- Rousselow, J. S. and J. C. Zech. 2011. Spring Baseline Floral Inventory of Hancock Hill, Brewster County, Texas. Texas Acad. Sci. 114: 53.
- Zech, J. C. 2010. An Introduction to the Aspens of Texas: The Rarest of the All? Texas Plant Conservation Conference, Lady Bird Johnson Wildflower Center, Austin, TX.
- Zech, J. C. 2010. Taxonomy: The Nature of Naming. Texas Master Naturalist, Tierra Grand Chapter, Elephant Mountain Wildlife Management Area, TX (*Invited Speaker*) 1 Aug.

- Mancha, V.A. and J. C. Zech. 2010. Coal Ball Analysis: Variations in the Peel Technique. Abstract. Texas Acad. Sci 113: 105 (Poster).
- Roberts, P. And J. C. Zech. 2010. The Vascular Plants of Indian Springs and Cienega of Chinati Mountains State Natural Area, Presidio County, Texas, Based on Sampling from Late February 2009 Through April 2009. Texas Acad. Sci. 113: 106 (Poster).
- Zech, J. C. 2009. Taxonomy: The Nature of Naming. Texas Master Naturalist, Tierra Grand Chapter, Elephant Mountain Wildlife Management Area, TX (*Invited Speaker*) 9 Oct.
- Zech, J. C. 2008. *Zanthoxylum parvum* (Rutaceae): A Rare West Texas Endemic, Safe at Last? Abstract. Texas Acad. Sci. 111: 51.
- Zech, J. C. 2008. Plants. Texas Master Naturalist, Tierra Grande Chapter. Big Bend National Park, TX (*Invited Speaker*) 25 Oct.
- Zech, J. C. 2006. Austin to Alpine: More Than Just Two Five Lettered Cities That Begin With A. Texas Plant Conservation Conference, Sul Ross State University, Alpine, TX. (*Invited Speaker and Host*).
- . 2004. Botanical Zoo: Three Rare Species from Far West Texas (*Zanthoxylum parvum*, *Osmorhiza bipatriata*, and *Ophioglossum polyphyllum*). Texas Plant Conservation Conference, Lady Bird Johnson Wildflower Center, Austin, TX. (*Invited Speaker*).
- Livingston, R. A., P. A. Schlichting, S. J. Carlson, P. R. Manning, and J. C. Zech. 2004. Beyond the Fence Line: Distribution of *Ophioglossum polyphyllum* within West Texas. Abstract. Texas Acad. Sci. 107: 84.
- Zech, J. C. 2001. Status of a Reproductively Mixed-Up West Texas Endemic, *Zanthoxylum parvum* (Rutaceae). Texas Rare Plant Conference, Lady Bird Johnson Wildflower Center, Austin, TX. (*Invited Speaker*).
- Zech, J. C., L. K. Hedges, S. J. Carlson. 2000. The Reproductive Biology of a West Texas Endemic, *Zanthoxylum parvum* (Rutaceae). Third Southwestern Rare and Endangered Plant Conference, Northern Arizona University. 3: 27.
- Zech, J. C. and L. K. Hedges. 1998. The Breeding System of a West Texas Endemic (*Zanthoxylum parvum*, Rutaceae): Evidence of Polyploidy? Abstract. Texas Acad. Sci. 101: 43.
- Zech, J. C. 1997. Isozyme Variation Within Texas Madrone (*Arbutus xalapensis*, Ericaceae). Guadalupe Mountains National Park.
- Zech, J. C. and E. D. Herzog. 1997. Vascular Plants of Nation/s Ranch, Jeff Davis County, Texas. Abstract. Texas Acad. Sci. 100: 45.
- Zech, J. C. and T. O. Hernández. 1996. Flavonoid Compound Chemistry and Hybridization in Trans-Pecos Oaks (*Quercus* sp., Fagaceae). Abstract. Texas Acad. Sci. 99: 17.

