

CURRICULUM VITAE

RICHARD G. BAKER

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RESEARCH INTERESTS: Quaternary environments, plant macrofossils, paleoecology

DATE OF BIRTH June 12, 1938.

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University of Iowa
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EDUCATION

Ph.D. University of Colorado, geology, 1969
M.S. University of Minnesota, geology, 1964
B.A. University of Wisconsin, geology, 1960

PROFESSIONAL EXPERIENCE

Professor Emeritus, 2000-present
Chairman, Department of Geology, University of Iowa, 1992-1995
Professor of Biology, University of Iowa, 1992-present (Joint appointment)
Professor of Botany, University of Iowa, 1988-1992 (Joint appointment)
Professor of Geology, University of Iowa, 1982-present.
Associate Professor of Geology, University of Iowa, 1975-1981.
Assistant Professor of Geology, University of Iowa, 1970-74.
Geologist (intermittent), U.S.G.S., 1980-1985.
Geologist (intermittent, temporary), U.S.G.S., 1972-79.
Project Associate in Meteorology, University of Wisconsin, 1969-70.
Teaching Associate, Geology Dept. University of Colorado, 1967-69.

PROFESSIONAL AFFILIATIONS

Geological Society of America (Fellow)
American Quaternary Association (Councilor, 2000-2004)
Editorial Board, Plant Ecology, 2001
Geological Society of Iowa
Iowa Academy of Science (Fellow)

Although I am retired, I still have projects that involve interpreting the vegetation of the late Quaternary Epoch using fossil seeds, fruits, leaves etc. My work chiefly has involved the paleoecology of the Midwest and the Rocky Mountains.



Dick Baker in his prairie restoration, Cedar Co., Iowa

AWARDS/HONORS

Honors:

AMQUA Distinguished Career Award for 2005.
 Iowa Academy of Science Distinguished Scientist, 2001
 Invited by Union of Concerned Scientists to meet with congressional
 delegation regarding global warming, 1999
 Fellow, Geological Society of America
 Fellow, Iowa Academy of Science
 University of Iowa Faculty Scholar Award, 1995-1998
 Ecological Monographs paper nominated for the Kirk Bryan Award (GSA,
 Geomorphology Division award for best paper in a five-year period).
 Faculty Developmental Leave, spring, 1989
 Invited member, International Quaternary Association Subcommittee
 of the Holocene for North America and Greenland, 1985-1990.
 Who's Who in America
 American Men and Women of Science
 Old Gold Fellowship, 1981.
 Developmental leave (without pay), 1979, on grant from U.S.
 Geological Survey, Project 9530-02530, Interglacial Climates of
 the Northern Rocky Mountains, under direction of G. M. Richmond.
 Faculty Development Grant, 1977

TEACHING AT THE UNIVERSITY OF IOWA

Courses taught

Geology of US National Parks, 12:17, 1999, 2000, 2001, 2002, 2003
 Field Trip to National Parks, 12:18, 1999
 Quaternary Environments, 12:173, 1999, 2002 (as Directed Study)
 Quaternary Palynology and Paleobotany, 12:128, 1998

Students supervised:

Ph.D:

Work, Paula Thorson,	graduated 1998
Van Nest, Julieann,	graduated 1997
Jaumann, Peter,	graduated 1995
Bettis, E.A. III,	graduated 1995
Zhu, Hong	graduated 1994
Kemmis, Tim	graduated 1991
Klug, Curtis	graduated 1990
Chumbley, Craig	graduated 1989
Hudak, Curtis	graduated 1987
Kim, Hyung	graduated 1986
Rhodes, R.S.	graduated 1982
Lucas, James	graduated 1977
Burkart, Michael	graduated 1976
Van Zant, Kent	graduated 1976

MS:

Adrain, Tiffany	graduated 2003
Strickland, Laura	graduated 1998
Krieg, Joseph	graduated 1997
Quade, Deb	graduated 1992
Nations, Brenda	graduated 1987
Sullivan, Amy	graduated 1986
Kim, Hyung	graduated 1982
Egner, Barb	graduated 1981
Updegraff, R.A.	graduated 1981
Gennett, Judith	graduated 1977
Legg, Tom	graduated 1977
Ravn, Robert	graduated 1977
Van Zant, Kent	graduated 1972

BS:

Drake, Penelope	graduated with honors, 1994
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SCHOLARSHIP

Monographs

Baker, R.G., Bettis, E.A. III, Schwert, D.P., Horton, D.G., Chumbley, C.A., Gonzalez, L.A., and Reagan, M.K. 1996. Holocene Paleoenvironments of northeast Iowa. *Ecological Monographs* 66, 203-234.

Baker, R.G. 1976. Late Quaternary vegetation history of the Yellowstone Lake Basin. United States Geological Survey Professional Paper 729-E, 48 p.

Other publications (#=invited):

Stickland, Laura. E., **Richard. G. Baker**, Robert S. Thompson, and Dane M. Miller, 2014? Last interglacial (late MIS 6-5) plant macrofossils and climates from Ziegler Reservoir, Snowmass Village, Colorado. *Quaternary Research*

Baker R.G., Bettis E.A. III, Mandel, R. D. , Dorale, J. A. , and Fredlund, G.G., 2009, Mid-Wisconsinan environments on the eastern Great Plains, *Quaternary Science Reviews*, 28, p. 873–889.

#**Baker, R.G.**, 2007, Holocene North America. *in* Elias, S. (ed.) *Encyclopedia of Quaternary Science*, Elsevier, pp. 2459-2475.

Baker, R.G., Fredlund, G.G., Mandel, R.D., Bettis, E.A. II, and Moss, P. 2006, Part II: The South Fork of the Big Nemaha River, Southeastern Nebraska, Late Quaternary Paleocology of the Eastern Great Plains, *in* Mandel, R.D., Ed., *American Quaternary Association Guidebook of the 18th Biennial Meeting*, p. 2-7 to 2-24.

Baker, R.G., Bettis, E. A. III, and Moss, Patrick, 2005, Holocene pollen and plant macrofossils in the Sac River Valley, pp. 32-37 *in* Lopinot, N.H., Ray, J.H., and Conner, M.D. *Regional Research and the Archaic record at the Big Eddy Site (23CE426), southwest Missouri, Special Publication No. 4, Southwest Missouri State University.*

Work, P., Semken, H.A., and **Baker, R.G.**, 2005, Pollen, plant macrofossils and microvertebrates from mid-Holocene alluvium in east-central Iowa, USA:

- Comparative taphonomy and paleoecology. *Palaeogeography, Palaeoclimatology, Palaeoecology*, Vol 223/3-4, pp 204-221.
- Baker, R.G.**, Fredlund, G.G., Mandel, R., and Bettis, E.A. III. 2004, Part 2, The South Fork of the Big Nemaha River, Southeastern Nebraska. , R.D. Mandel, Compiler, Late Quaternary paleoecology of the eastern Great Plains. pp. 2-8 – 2-31 in Guidebook for field trips, 18th Biennial Meeting of the American Quaternary Association.
- Baker, R.G.**, Bettis E.A. III, Gonzalez, L.A., Denniston, R.F., Strickland, L.E. and Krieg, J.R., 2002, Holocene paleoenvironments in southeastern Minnesota--chasing the prairie-forest ecotone. *Palaeogeography, Palaeoclimatology, Palaeoecology* 177, 103-122.
- #**Baker, R.G.**, Bettis, E. A. III, Denniston, R.F., and Gonzalez, L.A., 2001. Plant remains, alluvial chronology, and cave speleothem isotopes indicate abrupt Holocene climatic change at 6ka in Midwestern USA., *Global and Planetary Change* 28, 285-291.
- Baker, R.G.** 2000. Holocene environments reconstructed from plant macrofossils in stream deposits from southeastern Nebraska, *The Holocene* 10, 357-365.
- Baker, R.G.**, Fredlund, G.G., Mandel, R.D., and Bettis, E.A. III, 2000. Holocene Environments of the Central Great Plains, *Quaternary International* 67, 89-106.
- Curry, B. B. and **Baker, R.G.** 2000, Paleohydrology, vegetation, and climate during the last interglaciation (Sangamon Episode) in south-central Illinois. *Palaeogeography, Palaeoclimatology, Palaeoecology* 155, 59-81.
- Baker, R.G.**, and Mason, J.A. 1999. Arctic plant macrofossils from a full glacial deposit of southeastern Minnesota, *Quaternary Research* 52, 388-392.
- Denniston, R.F., Gonzalez, L.A., Asmerom, Y., **Baker, R.G.**, Reagan, M.K. and Bettis, E.A. III, 1999. Evidence for increased cool season moisture during the middle Holocene, *Geology* 27, 815-818.
- Denniston, R.F., Gonzalez, L.A., Semken, H.A., Asmerom, Y., **Baker, R.G.**, Recelli-Snyder, H., Reagan, M.K. and Bettis, E.A. III, 1999. Integrating stalagmite, vertebrate, and pollen sequences to investigate Holocene vegetation and climate change in the southern Midwestern United States. *Quaternary Research* 52, 381-387.
- Denniston, R.F., Gonzalez, L.A., Baker, R.G., Asmerom, Y., Reagan, M.K., Edwards, R.L., and Alexander, C.E., 1999b. Speleothem evidence for Holocene fluctuations of the prairie-forest ecotone, north-central USA. *The Holocene* 9, 671-676.
- Baker, R.G.**, Gonzalez, L.A., Raymo, M. Bettis, E.A. III, Reagan, M.K., and Dorale, J.A. 1998. Comparison of multiple proxy records of Holocene environments in midwestern USA. *Geology* 26, 1131-1134.
- Maher, L.J., Jr., Miller, N.G., **Baker, R.G.**, Curry, B.B., and Mickelson, D.M. 1998, Paleobiology of the sand beneath the Valdres Till at Valdres, Wisconsin. *Quaternary Research* 49, 208-221.

- #**Baker, R.G.** 1998. Late Quaternary environmental changes in midwestern United States. pp 3-8 *in* Lannoo, M., editor, *The Status and Conservation of Midwestern Amphibians*, University of Iowa Press, Iowa City.
- Baker, R.G.**, Pollen and plant macrofossils, p. 105-109 *in* Bettis, E.A. III, Quade, D.J., and Kemmis, T.J., *Hogs, Bogs, and Logs: Quaternary Deposits and Environmental Geology of the Des Moines Lobe*, Geological Survey Bureau Guidebook Series No. 18.
- Zhu, Hong and **Baker, R.G.** 1995. Vegetation and climate of the last glacial-interglacial cycle in southern Illinois. *Journal of Paleolimnology* 14, 337-354.
- Baker, R.G.**, and Drake, P. Holocene history of prairie in midwestern United States: Pollen versus plant macrofossils. 1994, *Ecoscience* 1, 333-339.
- Baker, R.G.** 1994. The role of paleoenvironmental studies in climate change. *In* *Great Lakes Climate Change*, Clare M. Ryan, Frank H. Quinn, and Michael J. Donahue, Editors. *Proceedings of the Great Lakes Climate Change Workshop conducted on December 6-8, 1993, Ypsilanti, Michigan, NOAA, CILER, and Great Lakes Commission*, p. 72-77.
- Baker, R.G.**, Bettis, E.A. III, and Horton, D.G. 1993, Late-Wisconsinan-Early Holocene riparian paleoenvironment in southeastern Iowa, USA. *Geological Society of America Bulletin* 105: 206-212.
- Baker, R.G.**, D.P. Schwert and Bettis, A.E. III. 1993, The impact of EuroAmerican settlement on landscapes, vegetation and water quality in northeastern Iowa. *Holocene* 3: 314-323.
- Baker, R.G.**, Maher, L.J., Chumbley, C.A. and Van Zant, K.L. 1992, Patterns of Holocene Environmental Change in the Midwest. *Quaternary Research* 37, 379-389.
- Rogers, K.L., Larson, E.E., Smith, G., Katzman, D., Smith, G.R., Cerling, T., Wang, Y., **Baker, R.G.**, Lohmann, K.C., Repenning, C.A., Patterson, P., and Mackie, G. 1992, Pliocene and Pleistocene geologic and climatic evolution in the San Luis Valley of south-central Colorado. *Palaeogeography, Palaeoclimatology, Palaeoecology* 94: 55-86.
- Dorale, J.A., Gonzalez, L.A., Reagan, M.K., Pickett, D., Murrell, M.J., and **Baker, R.G.** 1992. A high resolution record of Holocene climate change in speleothem calcite from Cold Water Cave, northeastern Iowa. *Science* 258, 1626-1630.
- Baker, R.G.**, Schwert, D.P., Bettis, A.E. III, Kemmis, T.J., Horton, D.G. and Semken, H.A. 1991, Mid-Wisconsinan stratigraphy and paleoenvironments at the St. Charles site in south-central Iowa. *Geological Society of America Bulletin* 103, 210-220.
- Bettis, E.A. III, **Baker, R.G.**, Nations, B.K. and Benn, D.W. 1990, Early Holocene pecan, *Carya illinoensis* in the Mississippi River valley near Muscatine, Iowa. *Quaternary Research* 33, 102-107.
- Chumbley, C.A., **Baker, R.G.** and Bettis, E.A. III, 1990, Midwestern Holocene paleoenvironments revealed by floodplain deposits in northeastern Iowa. *Science* 249: 272-274.

- Baker, R.G.** 1990, Late Quaternary history of whitebark pine in the Rocky Mountains. Proceedings--Symposium on Whitebark Pine Ecosystems: Ecology and Management of a High Mountain Resource, U.S.D.A. Forest Service, Intermountain Forest Research Station Report INT-270, p. 40-48.
- Garry, C., Schwert, D.P., **Baker, R.G.**, Kemmis, T.J. and Horton, D.G. 1990, Plant and Insect Remains from the Wisconsinan interstadial/stadial transitional at Wedron, north-central Illinois. *Quaternary Research* 33: 387-399.
- Baker, R.G.**, Chumbley, C.A., Witinok, P.M., and Kim, H.K. 1990. Holocene vegetational changes in eastern Iowa. *Journal of the Iowa Academy of Science* 97: 167-177.
- Baker, R.G.**, Sullivan, A.E., Hallberg, G.R. and Horton, D.G., 1989, Vegetational changes in western Illinois during the onset of Late Wisconsinan Glaciation. *Ecology* 70: 1363-1376.
- Baker, R.G.**, Van Nest, J. and Woodworth, G., 1989, Dissimilarity coefficients for fossil pollen spectra from Iowa and western Illinois during the last 30,000 years. *Palynology* 13: 63-78.
- Baker, R. G.**, Horton, D.G., Kim, H.K., Sullivan, A.E., Roosa, D.M., Pusateri, W.P., Witinok, P.M., and Pusateri, W.P. 1987. Late Holocene paleoecology of Southeastern Iowa: Development of riparian vegetation at Nichols Marsh. *Proceedings of the Iowa Academy of Science* 94: 51-70.
- Gennett, J. and **Baker, R.G.** 1986. A Late Quaternary pollen sequence from Blacktail Pond, Yellowstone National Park, Wyoming, U.S.A. *Palynology* 10: 61-71.
- Baker, R. G.**, 1986, Sangamonian (?) and Wisconsinan paleoenvironments in Yellowstone National Park. *Geological Society of America Bulletin* 97: 717-736.
- Baker, R.G.**, Rhodes, R.S. II, Schwert, D.P., Ashworth, A.C., Frest, T.J. Hallberg, G.R., and Janssens, J.A., 1986. A Full-Glacial Biota from southeastern Iowa, USA. *Journal of Quaternary Science* 1: 91-107.
- Baker, R.G.**, and Waln, K. A. 1985. Pollen Records from the Great Plains and Central United States, Chapter 8, In Pollen Records of Late-Quaternary North American Sediments (Bryant, V.M. Jr., and Holloway, R.G., Eds.) The American Association of Stratigraphic Palynologists Foundation, p.191-203.
- Janssens, J. A. and **Baker, R.G.**, 1984. A full-glacial bryophyte assemblage from southeastern Iowa, U.S.A. *Journal of Bryology* 13, 201-207.
- Baker, R.G.** 1983. Holocene vegetational history of the Western United States. In Late-Quaternary Environments of the United States, Volume 2--The Holocene. (H. E. Wright, Jr., Ed.). University of Minnesota Press, Minneapolis. pp. 109-127.
- Prior, J. C., **Baker, R.G.**, Hallberg, G. R., and Semken, H. A. 1982. Glaciation. In Iowa's Natural Heritage, Cooper, T.C. (Ed.). Iowa Academy of Science and Iowa Natural Heritage Foundation, Des Moines, 18 p.
- Baker, R.G.** 1981. Interglacial and interstadial environments in Yellowstone National Park. In Quaternary Climatic Change, W. C. Mahaney (Ed.), p. 361-375.

- Hallberg, G. R., Van Zant, K. L., and **Baker, R.G.** 1980. A Farmdalian pollen diagram from east-central Iowa. *Proceedings of the Iowa Academy of Science* 87: 52-55.
- Hallberg, G. R., **Baker, R.G.**, and Legg, T. 1980. A Mid-Wisconsinan pollen diagram from Des Moines County, Iowa. *Proceedings of the Iowa Academy of Science* 87: 41-44.
- Hallberg, G.R., and **Baker, R.G.** 1980. Reevaluation of the Yarmouth type area. *Iowa Geological Survey Technical Information Series* 11, 111-150.
- Baker, R.G.**, Van Zant, K. L., and Dulian, J. 1980. Three late-glacial pollen and plant macrofossil assemblages from Iowa. *Palynology* 4: 197-203.
- Legg, T. and **Baker, R.G.** 1980. Palynology of Pinedale sediments, Devlins Park, Boulder County, Colorado. *Arctic and Alpine Research* 12: 319-333.
- Baker, R.G.** and Van Zant, K. L. 1980. Holocene vegetational reconstruction in northwestern Iowa. In *The Cherokee Excavations, Holocene Ecology and Human Adaptations in Northwestern Iowa*, Anderson, D. C. and Semken, H. A., Jr., (Eds.). Academic Press, New York, p. 123-138.
- Van Zant, K.L., Hallberg, G.R. and **Baker, R.G.**, 1980. A Farmdalian pollen diagram from east-central Iowa. *Proceedings of the Iowa Academy of Science* 87(2), 52-55.
- Mundt, S. R. and **Baker, R.G.** 1979. A Mid-Wisconsin pollen diagram from Black Hawk County, Iowa. *Proceedings of the Iowa Academy of Science* 86: 32-34.
- Van Zant, K. L., Webb, T., Peterson, G. M. and **Baker, R.G.** 1979. Increased *Cannabis/Humulus* pollen, and indicator of European settlement in Iowa. *Palynology* 3: 227-233.
- Baker, R.G.** and Richmond, G. M. 1978. Geology, palynology, and climatic significance of two pre-Pinedale lake-sediment sequences in and near Yellowstone Park. *Quaternary Research* 10: 226-240.
- Baker, R.G.** 1970. Pollen sequence from late-Quaternary sediments in Yellowstone Park. *Science* 1449-1450.
- Baker, R.G.** 1965. Late-glacial pollen and plant macrofossils from Spider Creek, southern St. Louis County, Minnesota. *Geological Society of America Bulletin* 76: 601-610.

Oral/Poster presentations

- Kerr, P.J., Bettis, E.A. III, and Baker, R.G., 2013, Through a Woolly Lens: Investigations From A Mammoth Burial In Iowa. *Geological Soc. Of America Abstract*, Vol 45, No. 4.
- Strickland, L.E., and Baker, R.G., 2012, A preliminary assessment of the last interglacial - early last glacial plant macrofossil record from Ziegler Reservoir, Snowmass Village, CO. Meeting of the Snowmastodon team, Denver Museum of Science.
- Baker, R.G., Bettis III, E.A., and Huber, J.K. 2003, Vegetation on the eastern Great Plains, North America, during Mid-Wisconsinan time—late MIS Stage 3-early MIS Stage 2. XVI INQUA Congress, Reno, Nevada, July, 2003.

- Curry, B. Brandon, Grimley, and **Baker, R.G.** Evidence for deep erosion by the Mississippi river near St. Louis under cold, dry conditions during the onset of the last glaciation.
- Curry, B.B., **R. G. Baker**, D. A. Grimley, and B.B. Miller, 1999. Near-glacial flora, ostracodes and pisidiid clams of the Wisconsin Livingston Phase in northeastern Illinois. 1999 North-Central Geological Society of America Meeting, Champaign, Illinois, Programs With Abstracts, Vol. 31, no. 5, pp. A-11 to A-12.
- Baker, R.G.** and Bettis, E.A. III, 1998. Development of riverine wetlands in the Upper Mississippi Valley. The GCIP Mississippi River Climate Conference: Predicting Climate variability and its implications for water resource management.
- Baker, R. G.**, 1998. Plant macrofossil studies in midwestern USA. American Quaternary Association Abstract, Sept. 5-8, Puerto Vallarta, Mexico
- Baker, R.G.** and Fredlund, G.G. 1998, Holocene environments of the central Great Plains. Geological Society of America, Program with Abstracts, Toronto, October 1998, p.
- Denniston, R.F., Gonzalez, L.A., Baker, R.G., Reagan, M.K., and Bettis, E.A. III. 1998. Effects of middle Holocene vegetation change on the oxygen and carbon isotopic composition of three midwestern speleothems. Abstract, American Geophysical Union Annual Meeting, San Francisco.
- Gonzalez, L.A., Denniston, R.F., **Baker, R.G.**, and Reagan, M.K. 1998. Speleothem based timing for prairie incursion in southeastern Minnesota and northeastern Iowa and its implication on temperature vs. changes in E-T balance during the mid-Holocene. Geological Society of America, Program with Abstracts, Toronto, October 1998, p.
- Denniston, R.F., Gonzalez, L.A., **Baker, R.G.** Reagan, M.K and Asermom, Y.. 1998, Correlating speleothem carbon and pollen records from the southern Midwest: tracking Holocene vegetation changes. American Quaternary Association Abstract, Sept. 5-8, Puerto Vallarta, Mexico
- Baker, R.G.**, Mason, J.A., Krieg, J.R., Strickland, L.E., and Murray, C.K. 1997. Preliminary report on late Quaternary paleoecology of stream cutbanks in southeastern Minnesota. North-central section, Geological Society of America, Madison, Wisconsin.
- Strickland, L.E. and **Baker, R.G.** 1997. A study of plant macrofossil taphonomy in Prairie Creek, Nerstrand Big Woods State Park, Rice County, Minnesota: A modern analog for paleoenvironmental interpretation. North-central section, Geological Society of America, Madison, Wisconsin.
- Jaumann, Peter, Zhu, Hong, and **Baker, R.G.** Pollen, climate, and possible forcing functions in Midwestern USA during the last interglacial. 9th International Palynological Congress, Houston, Texas, June 23-28th, 1996.
- Baker, R. G.** Alternative Sites For Quaternary Paleoecological Investigations: Sediments Along Small Streams. 9th International Palynological Congress, Houston, Texas, June 23-28th, 1996
- Gonzalez, L.A., Thorson-Work, P.J., **Baker, R.G.**, Reagan, M.K., and Jaumann, P. 1995. Determination of Holocene soil biomass turnover and vegetation

- activity changes in the upper Midwest from speleothem carbon isotopic record. Geological Society of America Abstracts with Programs 27, p. A54.
- Jones, M.C., Gonzalez, L.A., Hanson, L., Allabastro, A.J., Reagan, M.K., Thorson-Work, P.J., Jaumann, P., **Baker, R.G.**, and Dorale, J.A. 1995. A 6000 year stalagmite growth banding record for Cold Water Cave, northeastern Iowa: Annual and seasonal precipitation changes. Geological Society of America Abstracts with Programs 27, p. A55.
- Reccelli-Snyder, H.L., Gonzalez, L.A., Reagan, M.K., Jaumann, P., and **Baker, R.G.** 1995. A speleothem record of recurrent dry periods and catastrophic flooding in central Missouri. Geological Society of America Abstracts with Programs 27, p. A55-56.
- Baker, R.G.**, Bettis, E.A. III, Thorson, P.J., and Schwert, D.P. 1994. Stream cutbanks: untapped sources of paleoecological and paleoclimatic data. American Quaternary Association Program and Abstracts of the 13th biennial meeting, p. 61.
- Green, W., Whelan, M., Bettis, E.A. III, and **Baker, R.G.** 1994. Archaeological and paleoenvironmental investigations at the Gast Spring alluvial fan (13LA152), southeastern Iowa. Southeastern/Midwestern Archaeological Conference, Lexington, KY, 9-12 November, 1994.
- Zhu, H. and **Baker, R.G.** 1994. Pollen records of the last interglacial from southern Illinois. Geological Society of American Annual Meeting, Seattle, 24-27 October, 1994.
- Jaumann, P.J., **Baker, R.G.**, and Gonzalez, L.A. 1994. Midwestern U.S. Holocene climate variability modes. (abs.) American Geophysical Union, San Francisco, Nov. 1994.
- Baker, R.G.** 1994. The role of paleoenvironmental studies in global change: The Iowa Perspective (abs.). Iowa Academy of Science, Davenport.
- Baker, R.G.** 1994. The Role Of Paleoclimate In Global Change. Poster at Symposium on Global Change: A Midwest Perspective. University of Iowa, Iowa City, 7-8 April, 1994.
- Gonzalez, L.A., Hanson, L., Reagan, M.K., Clark, S.K., Thorson-Work, P.J., Jaumann, P., Kollmeier, **Baker, R.G.**, and Dorale, J. 1994. Determination of Holocene precipitation variability in the upper midwest: A record preserved in stalagmite calcite. Geological Society of America Abstracts with Programs 26, p. A61.
- Gonzalez, L.A., Hanson, L., Reagan, M.K., Clark, S.K., Thorson, P.J., Jaumann, P., Dorale, J., and **Baker, R.G.** 1994. Determination of the periodicity and duration of recurrent wet and drought intervals in the Midwest from stalagmite calcite isotopic and growth rate records. Iowa Academy of Science 106th Annual Meeting, April 22, 1994.
- Gonzalez, L.A., Reagan, M.K., and **Baker, R.G.**, 1994. High resolution (century to decadal) isotopic (^{18}O and ^{13}C) record preserved in speleothem calcite: Holocene vegetation and climatic change in the Midwest. Poster at Symposium on Global Change: A Midwest Perspective. University of Iowa, Iowa City, 7-8 April, 1994.

- Clark, S.K., Gonzalez, L.A., Reagan, M.K., Thorson, P.J., Jaumann, P. and **Baker, R.G.** 1994. Uranium series dating of speleothems: climate and landscape changes in the Midwest. Poster at Symposium on Global Change: A Midwest Perspective. University of Iowa, Iowa City, 7-8 April, 1994.
- Hanson, L., Gonzalez, L.A. Jaumann, P., Reagan, M.K. Clark, S.K., Thorson, P.J. and **Baker, R.G.** 1994. Determination of Holocene precipitation variability in northeastern Iowa: A record preserved in stalagmite calcite. Poster at Symposium on Global Change: A Midwest Perspective. University of Iowa, Iowa City, 7-8 April, 1994.
- Baker, R.G.**, 1993, The Role of Paleoenvironmental Studies in Global Change. NOAA workshop, Ann Arbor, Michigan.
- Mickelson, D.M., Maher, L.J., Jr., and **Baker, R.G.** 1993, A new late Wisconsinan interstadial site at Valders, Wisconsin, Geological Society of American Annual Meeting, Abstracts with Programs, Boston, Mass.
- Thompson, C.A., Bettis, E.A. III, and **Baker, R.G.** 1992. Geology of Iowa fens. *Journal of the Iowa Academy of Science* 99(2-3), 53-59.
- Baker, R.G.**, Bettis, E.A. III, and Schwert, D.P. 1991. Impact of EuroAmerican settlement on the environment, Iowa, Midwestern USA. Abstract, XIII International Congress, International Union for Quaternary Research, Beijing, China, p. 14.
- Zhu, Hong and **Baker, R.G.** 1992. Late Illinoian, Sangamonian, and early Wisconsinan vegetation in south-central Illinois. Abstracts with Programs, Geological Society of America North Central Section, p. 73
- Curry, B. B., Forester, R.M., Zhu, H., and **Baker, R.G.** 1992. Wisconsinan and Sangamonian climate interpreted from fossil ostracodes and vegetation in south-central Illinois. Abstracts with Programs, Geological Society of America.
- Dorale, J.A., Gonzalez, L.A., Reagan, M.K., Pickett, D., Murrell, M.J., and **Baker, R.G.** 1992. High resolution record of Holocene climate change in speleothem calcite from Cold Water Cave, northeast Iowa. Geological Society of America Annual Meeting, Cincinnati, Ohio.
- Baker, R.G.** 1992. Full-glacial vegetation in the upper Midwest. Abstracts with Programs, Geological Society of America North Central Section, p. 4
- Baker, R.G.** and Whelan, M.K. 1992. Eastern Iowa paleoenvironments and cultural change: introduction and paleoecological background. Leadoff paper presented in symposium entitled "Mississippi Valley paleoenvironments and cultural change: interdisciplinary studies in southeastern Iowa". Society of American Archaeology, Abstracts of 57th Annual Meeting, April 8-12, 1992, Pittsburgh, PA.
- Baker, R.G.** and Bettis, E.A. III. 1990. The Iowa City Sewer Site: A remarkable paleoecological record from a unique setting: 1990 Abstracts with Programs, Geological Society of America North Central Section, p. 2.
- Baker, R.G.** and Chumbley, C.A. 1990. Rapid Mid-Holocene change in vegetation along the prairie-forest border of Iowa. AMQUA Meeting Abstracts, ¶

- Baker, R.G.** and Chumbley, C.A. 1990. The western limit of mid-Holocene mesic forest elements. Ecological Society of America Abstracts,
- Bettis, E.A. III, **Baker, R.G.** and Prior, J.C. 1990. Geological development of fens in Iowa. Iowa Academy of Science Abstracts,
- Zhu, H., **Baker, R.G.** and Dogan, A.U. 1989. Surface textural patterns of seeds in the family Brassicaceae. Proceedings of the Twenty-sixth Annual Electron Microscopy Colloquium, Iowa State University, Ames, 12 May 1989, p. 26-27.
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- Baker, R.G.** and Bettis, A.E. III. 1988. Early Wisconsinan vegetation in southcentral Iowa. Iowa Academy of Science Meeting, April, 1988.
- Baker, R.G.**, Bettis, E.A. III, Schwert, D.P., and Horton, D.G. 1988. Early Wisconsinan environment of central Iowa. Geological Society of America 1988 Centennial Celebration, Abstracts with Programs, Abstract no. 4397, p. A206.
- Garry, C.E., Schwert, D.P., and **Baker, R.G.** 1987. Paleoenvironment of Farmdalian sediments at Wedron, Illinois, based on fossil insect analyses (Abs.), Geological Society of America, North Central Section, Minneapolis, Minnesota, April, 1987.
- Baker, R.G.** and Horton, D.G. 1987. Evidence for Late Holocene climatic changes and cultural eutrophication from eastern Iowa, U.S.A. (Abs.) INQUA 87 Congress, Ottawa, Ontario, Canada, August, 1987.
- Baker, R.G.**, Woodworth, G., Horton, D.G., Hallberg, G.R., and Sullivan, A.E. 1987. Wisconsinan environments in Western Illinois. Geological Society of America, North Central Section, Symposium on Quaternary Paleoecology and Glacial Geology of the North American Midcontinent, (Abs.), Minneapolis, April, 1987.
- Chumbley, C.A. and **Baker, R.G.** 1987. Preliminary alluvial pollen record from Roberts Creek, Clayton County, Iowa. Iowa Academy of Science Meeting, April, 1987.
- Baker, R.G.**, Sullivan, A.E., Hallberg, G.R., Horton, D.G., Carter, K.Z., and Schwert, D.P. 1986. Paleoecology of the Biggsville Area, western Illinois, during Farmdalian time (Abs.). American Quaternary Association Ninth Biennial Meeting, University of Illinois, Urbana.
- Baker, R.G.**, Bettis, A.E. III, Rhodes, R.S., and Hallberg, G.R. 1986. Wisconsinan ice-marginal biotic environments in Iowa (Abs.). American Quaternary Association Ninth Biennial Meeting, University of Illinois, Urbana.
- Baker, R.G.**, Kim, H.K., Witinok, P.M., Sullivan, A.E., and Waln, K.A. 1985. A 2300-year paleoenvironmental record from Nichols, Iowa (Abs.) Forty-Third Plains Anthropological Conference, Iowa City, p. 13.
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- on Geoarchaeological and Paleoenvironmental Research in the Great Plains, Plains Conference, Iowa City, Iowa, October 23-26, 1985.
- Baker, R.G.** 1984. Quaternary History of the tundra biome, central North America (Abs.). Sixth International Palynological Conference, Calgary, Alberta.
- Kim, H. K. and **Baker, R.G.** 1983. Late- and postglacial pollen studies from the Zuehl farm site, north-central Iowa, and Cattail channel bog, northwestern Illinois (abs.). Proceedings of the Iowa Academy of Science 90, centerfold insert paper 105.
- Baker, R.G.** 1982. Holocene vegetational changes in western United States [Abs.]. XI International Quaternary Association Congress, Moscow, USSR, v. II, p. 17.
- Baker, R.G.**, Rhodes, R. S., Frest, T. J., Schwert, D. P., and Ashworth, A. C. 1982. A full-glacial biota from Iowa, midwestern USA [Abs.]. XI International Quaternary Association Congress, Moscow, USSR, v. II, p. 18.
- Schwert, D. P., Ashworth, A. C., and **Baker, R.G.** 1981. An Arctic insect assemblage from the late Wisconsinan of midcontinental North America [Abs.] Geological Society of America, Cincinnati, Ohio.
- Baker, R.G.** 1980. Vegetational history of Iowa: The last 30,000 years [Abs.]. Symposium on the Quaternary of Iowa, Geological Society of America, North Central Section, Ames, Iowa.
- Baker, R.G.** 1980. Biogeography of Iowa: 30,000 years from the pollen record [Abs.] Symposium on Biogeography of Iowa, Iowa Academy of Sciences, 92nd Annual Meeting.
- Baker, R.G.** 1979. Pollen and plant macrofossil evidence for interglacial and interstadial environments in Yellowstone National Park [Abs.]. Quaternary Climatic Change Symposium, York University, Toronto, Canada.
- Hallberg, G. R. and R. G. Baker. 1978. Is the type section at Yarmouth, Iowa (U.S.A.) interglacial? [Abs.]. International Quaternary Association, Birmingham, England.
- Hoyer, B. E., Wollenhaupt, N. C., and **Baker, R.G.** 1978. Alluvial Stratigraphy of Crawford Creek [Abs.] Iowa Academy of Science, 90th Annual Meeting.
- Baker, R.G.** 1978. Pollen analysis of Farmdalian peats in southeastern Iowa [Abs.]. American Quaternary Association, 5th Biennial Meeting, Edmonton, Alberta.
- Baker, R.G.** 1977. Late Wisconsinan and Holocene biotic history in Iowa [Abs.]. Invited Paper, American Association of Stratigraphic Palynologists, 10th Anniversary Meeting, Tulsa, Oklahoma.
- Baker, R.G.** and Van Zant, K. L. 1977. Holocene vegetational reconstructions in northwest Iowa [Abs.]. 35th; Plains Conference, Lincoln, Nebraska.
- Baker, R.G.** and Van Zant, K. L. 1976. The history of prairie in northwest Iowa: the pollen and plant macrofossil record [Abs.]. Fifth Midwest Prairie Conference, Ames, Iowa.
- Baker, R.G.** and Van Zant, K. L., Hallberg, G. R. and Miller, G. A. 1975. Pollen analysis of the Farmdale interstadial peat from eastern Iowa [Abs.]. Iowa Academy of Science, 87th Annual Meeting.

- Baker, R.G.** 1970. A pollen chronology for Wisconsin; Disterhaft Farm Bog revisited [Abs.]. Geological Society of American 85th Annual Meeting, Milwaukee.
- Baker, R.G.** 1970. Late Quaternary vegetation history in Yellowstone Park [Abs.]. American Quaternary Association, First Meeting, Bozeman, Montana.
- Baker, R.G.** 1969. Pollen and seed diagrams from an abandoned lagoon on the southeast arm of Yellowstone Lake, Wyoming [Abs.]. Geological Society of America, Rocky Mountain Section, Annual Meeting.
- Publications in guidebooks, etc (reviewed, not refereed)**
- Baker, R.G.** 1996. Pollen and plant macrofossils. *In* Hogs, Bogs, and Logs: Quaternary Deposits and Environmental Geology of the Des Moines Lobe. Geological Survey Bureau Guidebook Series no. 18. (Field trip Guidebook, North Central Section, Geological Society of America), 105-109.
- Baker, R.G.** 1995. Review of book by Elias, S.A. 1994. Quaternary Insects and Their Environments. Smithsonian Institution Press, Washington, D.C. xvi, 284 pp. *in* Science 267, 1043-1044.
- Baker, R.G.** and Whelan, M.K. 1992. Eastern Iowa Paleoenvironments and cultural change: introduction and paleoecological background. Papers presented at a symposium entitled Mississippi Valley paleoenvironments and cultural change: interdisciplinary studies in southeastern Iowa, 57th annual meeting, Society for American Archaeology, Pittsburgh, Pennsylvania, April 8-12, 1992, p. 1-12.
- Bettis, E.A., III, **Baker, R.G.**, Green, W.R., Whelan, M.K., and Benn, D.W. 1992, Late Wisconsinan and Holocene alluvial stratigraphy, paleoecology, and archaeological geology of east-central Iowa. Field trip guidebook for the North Central Section of the Geological Society of America Meeting. Guidebook Series No. 12, Iowa Department of Natural Resources, 81 p.
- Nations, B.K., **Baker, R.G.** and Bettis, E.A. III., 1989, A Holocene pollen and plant macrofossil record from the Upper Mississippi Valley. *Current Research in the Pleistocene* 6: 58-60.
- Baker, R.G.**, 1987. Review of book by Jacobs, B.F., Fall, P.L. and Davis, O.K. 1985. "Late Quaternary Vegetation and Climates of the American Southwest", American Association of Stratigraphic Palynologists Foundation, Contribution Series No. 16. *In* *Geoarchaeology: An International Journal* 3: 86-87.
- Baker, R.G.**, 1986, Pilot Mound Pollen Core, *In* Late Wisconsinan and Holocene landscape evolution and alluvial stratigraphy in the Saylorville Lake area, central Des Moines River Valley, Iowa (Bettis E.A. III and Hoyer, B.E., Eds.) Iowa Geological Survey Open File Report 86-1, p. 64-66.
- Baker, R.G.** and Sullivan, A.E. 1986. Paleobotanical records from Biggsville and Wedron, Illinois: Environments during the Woodfordian ice advance. *In* Quaternary Records of Central and Northern Illinois (Follmer, L.R., McKenna, D.P., and King, J.E., Eds.) Field Guide, American Quaternary Association, Ninth Biennial Meeting, University of Illinois, Urbana, p. 68-69.
- Baker, R.G.** 1985. Part 3. Preliminary Report on the Quaternary plant record from the Saylorville Emergency Spillway. *In*, After the Great Flood.

Exposures in the Emergency Spillway, Saylorville Dam. (E.A. Bettis III., Kemmis, T.J., and Witzke, B.J. Eds). Geological Society of Iowa Guidebook 43, pp. 3-1 to 3-3.

- Baker, R.G.**, Frest, T. J., and Rhodes, R. S. 1984. Paleocology of Quaternary sediments at Conklin Quarry. In Underburden-overburden. An Examination of Paleozoic and Quaternary Strata at the Conklin Quarry near Iowa City. (B. J. Bunker and G. R. Hallberg, Eds.). Geological Society of Iowa Guidebook 41, pp. 70-81.
- Baker, R.G.** 1984. Pinedale vegetation of the Devlin Park area, Colorado. p. 19-22 in Geology of a late Quaternary lake, Devlin Park, Front Range, Colorado by Madole, R. F., **Baker, R.G.**, Larson, E. E., and Rosenbaum, J. G. Field Trip Guidebook, AMQUA meeting, Boulder, Colorado.
- Baker, R.G.** and Kim, H. K. 1984. Deadman's Lake pollen profile. In Tri-state field trip guidebook, L. Brant and J. Walters (Eds.)
- Baker, R.G.**, 1982. Review of book by Romans, R.C. (Ed.), 1981. "Geobotany II". Plenum Publishing Corp., New York. In AASP Newsletter 16: 6-7.
- Baker, R.G.** and Van Zant, K. L. 1978. The history of prairie in northwest Iowa: the pollen and plant macrofossil record: In Proceedings of the Fifth Midwest Prairie Conference, Glen-Lewin, D. C. and Landers, R. Q., (Eds.), Iowa State University Press, Ames, p. 8-11.
- Baker, R.G.**, Review of book by H.J.B. Birks, 1973. "Past and Present Vegetation of the Isle of Skye. A Paleoecological Study". Cambridge University Press, New York and London, In The Bryologist 1974, vol. 77, 277-279.

GRANTS

- Collaborative Research: A continuous high resolution paleoenvironmental record of the last 35,000 years from the eastern Great Plains. (CoPI), NSF, Earth System History, submitted Jan. 2001, not funded
- Paleoenvironments of the last 35,000 yr on the E. Great Plains. submitted Jan. 1999 to Earth System History, National Science Foundation, E.A. Bettis III and L.A. Gonzalez, Co PIs, \$173,586. Not funded
- Five submitted in 1997-98, none funded.
- Paleoenvironments of the central Midwestern USA. NSF, \$117,000, 1997, Earth System History. PI Baker, CoPIs Bettis and Gonzalez, subcontract to Maureen Raymo, MIT.
- Interglacial Paleoenvironments of the central and southern Rocky Mountains. NSF, Subcontract for pollen analysis--\$21,925 in grant proposal by Dr. Dennis Dahms, UNI, submitted January, 1997
- Research Collections in Systematics and Ecology. NSF, \$73,151, submitted 21 January 1997. PI Diana Horton, CoPIs, Cruden, Shabilion, Baker.
- Evaluating sediment delivery in planning stream restoration projects: A unique opportunity in the Midwest. EPA/NASA \$400,000, submitted 27 February 1997 PI Weirich, CoPIs Drake, Baker, Thompson, Bettis

- Cultural Affairs Council, Co-PI on \$3500 grant to Connie Mutel (PI) to write a book entitled "An Environmental History of Hydraulics Research at the University of Iowa". Funded January 1996.
- National Science Foundation, Holocene paleoenvironments of the central Midwest: vegetation, climate, and landscape evolution. PI, with coPIs E.A. Bettis and D.G. Horton. \$111,000, 1994-1997.
- NOAA Climate and Global Change Program: Paleoclimatology. High resolution (century to decadal) paleoclimatic records preserved in speleothem calcite of the midcontinent-USA: climate change in the Iowa-Minnesota-Wisconsin border. Co-PI with L.A. Gonzalez (PI) and M.K. Reagan, \$213,184, 1994-1996.
- NOAA Climate and Global Change Program, Workshop to coordinate and establish a North American database for plant macrofossils. \$22,263. Awarded September 1992 for 1 year.
- Center for Global and Regional Environmental Research, Southern boundaries of the Prairie Peninsula during Holocene time. \$15,000, Awarded September 1992 for 1 year.
- National Science Foundation, Upper Mississippi River prehistory and paleoenvironments project (co-PI with Mary Whelan, et al.), \$218,828, submitted November, 1991 (not funded--encouraged to resubmit)
- National Science Foundation, Pliocene and Pleistocene climatic change in south-central Colorado. \$18,000, 1 Dec. 1989 to 31 May, 1991
- National Science Foundation Grant no. ATM-8806482, Holocene paleoclimatology, paleoecology, and stream behavior in eastern Iowa. \$118,106, 1988-90.
- Iowa Science Foundation Grant no. ISF-86-21, Late- and postglacial vegetational history of the Roberts Creek Basin, Northeastern Iowa. \$2500, 1986-87.
- National Science Foundation grant no. BSR 84-00074, Paleoecology and biostratigraphy of a buried Farmdalian (mid-Wisconsinan) bog in western Illinois. \$73,000, 1984-1986.
- Associate Investigator on United States Geological Survey grant no. 69235 to the University of Colorado, Paleomagnetism, palynology, and physical stratigraphy of thirty meter rhythmically bedded lake-bed deposit of Late Pleistocene age. \$10,568, 1976.
- National Park Service Grant, Late Quaternary vegetational history of the Lamar Valley, Northern Yellowstone Park, Wyoming. \$5682, 1975.
- Invited lectures on research**
- University of Northern Iowa, Geography Department, 25 Sept. 2000, Late Quaternary Climatic change in the Midwest.
- Northern Illinois University, Holocene paleoenvironmental change in the Midwest. March 26, 1999.
- Botany and Plant Pathology Department, Iowa State University, 14 October 1994. New wrinkles in the Holocene vegetational history of Iowa.
- Geography Department, University of Iowa, 2 December 1994, Vegetation and climate in the Midwest since the last glacial maximum.

Geological Sciences Seminar, Iowa State University, 11 November 1993.
 Holocene and post-settlement changes in climate and vegetation in the Midwest.

Illinois State Museum, Springfield, Jan. 7 & 8, 1992, two lectures:

1. Full-glacial environments in the Midwest
2. Holocene environments and the development of the Prairie Peninsula

Sigma Xi Lecture, 31 January 1992, University of Iowa (with Luis Gonzalez):
 8000 years of climate history in eastern Iowa: A record preserved in fossil pollen and cave stalagmites.

Cedar Valley Audubon Society, 3 February 1992: Geology of the Grand Canyon.

Northern Illinois University, Department of Geology, 11 September 1992.

1. Full-glacial environments of the Midwest
2. Environmental effects of EuroAmerican settlement

Iowa Lakeside Laboratory, summer, 1992. A geologist in China.

Johnson County Heritage Trust annual meeting, April, 1992. Natural and human-caused environmental change, past, present and future.

University of Minnesota, Minneapolis, Department of Ecology and Behavioral Biology Seminar, Spring, 1990.

Interview with Jack Fix, KSUI, 1990.

Cambridge University, SubDepartment of Botany, May 1989.

SERVICE

Pre-retirement Departmental activities

Executive Committee, Department of Geology, 1998-99
 Chair, Quaternary Soils Search Committee, 1998-2000
 Chair, Carmichael extensive peer review committee, 1999
 Chair, Weirich peer review committee, 1999
 Bettis asked that I be his faculty mentor. I agreed to do so.
 Member, Committee to design Environmental Science major (1995-96)
 Chair of Department, fall, 1992-1995
 Founded the Iowa Quaternary Studies Group in ca. 1985.
 Director, ~1985-present
 Members come from Anthropology, Botany, Geography, Geology, Office of the State Archaeologist, and the Iowa Geological Survey Bureau, Iowa DNR.
 Accomplishments: Quaternary Brown Bag, an informal seminar, has met for the last 20 years and has had many nationally- and internationally known guest speakers.
 Contributions series that now has over 60 publications listed.

Pre-retirement College and University assignments

College of Liberal Arts Executive Committee, 1998-2001
 Subcommittee of EC that examined 21 non-departmental programs, summer, 1999.
 Invited by Associate Provost Clark and Dean Curto to be on an all-university ad hoc selection committee for selection of Faculty Scholar awards
 Executive Committee, Environmental Science Degree Program, Dec. 1997-2000.
 Chair and Program Coordinator, Executive Committee, Environmental Science Degree Program, Dec. 1996-July, 1998

Reviewer for Associate Dean Jack Fix for developmental assignments, fall, 1996.
Ad Hoc Committee to advise Dean Aikin on establishing an Environmental Sciences degree program (1996)

Advisory Committee of the University Facility for Electron Microscopy, 1995-1998
University of Iowa representative, Curriculum Committee, Iowa Lakeside Laboratory, 1994-present.

Member, Task Force on Coordination of Environmental Studies programs at the U of I. 1995-

Chair, Environmental Science Coordinating Committee, 1993-1995

Director of Iowa Quaternary Studies Group, 1986-present

Member, Lakeside Laboratory Advisory Board, 1989-1994.

Member, Executive Committee, Center for Global and Regional Environmental Research, 1990-present).

National boards

Chair, Advisory Panel for the North American Plant Macrofossil Database, National Geophysical Data Center, Boulder, Colorado, 1996.

Reviewer For Grant Proposals, last 5 years

Proposals reviewed for NSF: Divisions of Polar Programs, Geography and Regional Science, Ecology Program, Climate Dynamics Program, Earth System History/EAR Program, Geology and Paleontology Program, Biotic Surveys and Inventories Program. Other proposals reviewed for: Natural Environment Research Council, Swindon, UK, for: American Geographic Society, Petroleum Research Fund, American Chemical Society, Center for Health Effects of Environmental Contamination (University of Iowa)

Reviewer For Articles In National/International Journals, last 5 years:

Quaternary Research, Boreas, Vegetatio, Ecology, Geological Society of America Bulletin, Ecological Monographs, Ecological Applications, Annals of the Association for American Geographers, American Association of Stratigraphic Palynologists, Geology, Journal of the Iowa Academy of Science, Journal of Wetland Science, Quaternary Science Reviews, Palaeogeography, Palaeoclimatology, Palaeoecology, Arctic and Alpine Research, Quaternary International.

Outside Reviewer For Tenure/Promotion Decisions

John H. Wrenn, Director, Center for Excellence in Palynology, Department of Geology and Geophysics, Louisiana State University, Baton Rouge. March, 1995.

Steve Jackson, University of Northern Arizona, Department of Biology, 1994.

Owen Davis, University of Arizona, Department of Geology, 1993

R. Scott Anderson, University of Northern Arizona, Environmental Sciences, 1993

B.G. Warner, University of Waterloo (Ontario), Dept. of Earth Sciences, 1988.

O.K. Davis, University of Arizona, Department of Geosciences, 1987.

R. Mathewes, Simon Fraser University, Department of Botany, 1986.

M. Kearney, University of Maryland, Department of Geology, 1986.

R.C. Bright, University of Minnesota, Bell Museum of Natural History, ca. 1982

Community service

President, Johnson County Heritage Trust (1985-1987), current Board Member.
 Board Member, Iowa Chapter, The Nature Conservancy ~1978 to 1993
 (Chairman, 1981-83; Treasurer, 1989-1991)

Member, Louisa County Ecological Advisory Committee (ca. 1978-1992)

Lecture on air pollution to Iowa City Chap., Sierra Club, 1989.

Emcee of Prairie Preview (Annual Environmental meeting at the fairgrounds),
 1985- present (attendance = ~250).

Local contact, Williams Prairie State Preserve (The Nature Conservancy)
 (~1980-present).

Preserve manager, three preserves owned by Johnson Co. Heritage Trust
 (~1985-present)

Other

President, Johnson County Heritage Trust, 1985-1987

Films about my research

1987--filmed PBS series, "Iowa, Land Between Two Rivers", shown fall 1988 and
 repeated several times on Iowa Public Television under the title "The
 Seekers".

1979, participant in "Iowa's Ancient Hunters: An Archaeological Reconstruction
 of a Prehistoric Site". Produced by Audiovisual Center, University of Iowa.
 Received Golden Eagle Award.

Field trips lead

2004, Co-leader (first author), American Quaternary Association field trip in
 Kansas, August.