

Curriculum Vitae

WILLIAM CHARLES JOHNSON

Professor of Geography

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ADVANCED EDUCATION

- Doctor of Philosophy (1976) Department of Geography, University of Wisconsin-Madison
Dissertation: *The Impact of Environmental Change on Fluvial Systems: Kickapoo River, Wisconsin*
- Master of Science (1971) Department of Geography, Northern Illinois University (with Honors)
Thesis: *Discrimination of Stagnation Moraine from End and Ground Moraine on the Missouri du Coteau and Coteau des Prairies of North Dakota*
- Bachelor of Science (1968) Department of Earth Sciences, Northern Illinois University (with Honors)
Majors (2): *Geology and Meteorology/Climatology*

ACADEMIC APPOINTMENTS

Associate Chair	Department of Geography, The University of Kansas	1/99-8/05
Full Professor	Department of Geography, The University of Kansas	8/97-present
Research Affiliate	Civil and Environmental Engineering, MIT	11/95-5/02
Scientist (Adjunct)	Kansas Geological Survey, The University of Kansas	8/92-present
Associate Professor	Department of Geography, The University of Kansas	8/81-7/97
Assistant Professor	Department of Geography-Meteorology, The University of Kansas	8/78-8/81
Assistant Professor	Department of Geography, University of Oklahoma	8/76-5/78
Lecturer	Department of Geography, University of Wisconsin - Milwaukee	8/75-5/76

COURSES TAUGHT (KU)

Biogeography	Palynology	Quaternary Stratigraphy
Field Experience	Plant Geography	Research Methods
Field Mapping Methods	Principles of Physical Geography	River Systems
Fluvial Geomorphology	Quaternary Dating Techniques	Rock Magnetic Analysis
Geoarchaeology	Quaternary Environments	Seminar (many topics)

RESEARCH THEMES

Quaternary stratigraphy: litho-, chrono-, pedo-, bio-, and magnetostratigraphy of eolian deposits (loess and sand) in the central Great Plains, and environmental (flora, fauna, climate) reconstruction

Stable isotope geochemistry: application of stable isotopes ($\delta^{13}\text{C}$, $\delta^{15}\text{N}$, $\delta^{18}\text{O}$) to soil-vegetation-climate relationships in modern soils and paleosols of the central Great Plains

Geoarchaeology: paleoenvironmental conditions and landscape evolution in the central Great Plains, as related to prehistoric peoples; modeling the distribution of surface and buried cultural materials

Fluvial geomorphology: stream system response to late-Quaternary (middle-late Pleistocene and Holocene) climatic variation, and development of alluvial chronostratigraphies

Geologic mapping of Neogene and Quaternary deposits: field mapping and development of large-scale digital maps of surface and near-surface geology for selected areas of central and western Kansas
<http://www.kgs.ku.edu/General/Geology/index.html>

RESEARCH ACTIVITIES

Grants

2006-2007

- Mapping and characterization of playa basins on the High Plains of western Kansas and development of a regional subclass-specific guidebook for applying the hydrogeomorphic (HGM) approach to assessing wetland functions of playa basin depressional wetlands: U.S. Environmental Protection Agency, \$249,956, 10/06-9/09. (Johnson and Egbert)
- Soil development and carbon sequestration along the east-west climatic gradient of the central Great Plains—forest/prairie ecotone of central Missouri to the foothills of the Colorado Rockies: The University of Kansas General Research Fund, \$1,780, 7/06-6/07.
- Mapping surface geology in Republic County, Kansas (Year 1): U.S. Geological Survey EDMAP Program, \$12,000, 5/06-4/07.
- Geologic mapping and compilation of digitized county data bases in Geary, Washington, Norton, and Dickinson Counties, Kansas: U.S. Geological Survey STATEMAP Program, \$142,552, 5/06-4/07. (McCauley, West, Newell, Johnson)

2001-2005

- Detection and mapping of the Santa Fe Trail in the Kansas City Green Way Project Zone: Challenge Grant Program, National Park Service Long Distance Trails Group, \$5,000, 6/05.
- Mapping surface geology in Jewell County, Kansas (Year 2): U.S. Geological Survey EDMAP Program, \$14,950, 5/05-4/06.
- Geologic mapping and compilation of digitized county data bases in Geary, Washington, Norton, and Dickinson Counties, Kansas: USGS STATEMAP Program, \$138,480, 5/05-4/06. (McCauley, Newell, West, and Johnson)
- Mass spectrometry laboratory facility for stable isotope analysis: W.M. Keck Foundation, \$492,000, 7/04. (Gonzalez et al.)
- National Register of Historic Places Evaluation of the Caenen and Paul Sites, Stranger Creek Valley, Leavenworth County, Kansas: Kansas State Historical Society, \$66,171, 5/04-4/05. (Logan and Johnson)
- Vertical distribution of SOM $\delta^{13}\text{C}$ values in upland soils from ungrazed watersheds with 1-, 2-, 4-, and 20-year burn frequencies: Kansas State University Konza LTER Project (NSF-funded), \$2,000, 1/04-12/04.
- Geologic mapping and compilation of digitized county data bases in Saline, Geary, Washington, Pawnee and Edwards Counties, Kansas: U.S. Geological Survey STATEMAP Program, \$134,159, 5/04-4/05. (McCauley, West, Johnson, and Newell)
- Mapping surface geology in Jewell County, Kansas (Year 1): U.S. Geological Survey EDMAP Program, \$14,988, 5/04-4/05.
- Acquisition of isotopic ratio mass spectrometers and related peripherals for geologic, paleoenvironmental and environmental research at The University of Kansas: NSF-EAR MRI Program, \$629,301, 9/03-8/06 (Gonzalez et al.)
- A key to the prehistory of the central Great Plains: microfossil remains from the depths of Big Basin, Clark County, Kansas: The University of Kansas General Research Fund, \$6,390, 7/03-6/04.
- Mapping surface geology in Morton County, Kansas (Year 2): U.S. Geological Survey EDMAP Program, \$13,150, 5/03-4/04.
- Geologic mapping and compilation of digitized county data bases in Saline, Crawford, Washington, Pawnee and Edwards Counties, Kansas: U.S. Geological Survey STATEMAP Program, \$139,678, 5/03-4/04. (McCauley, Johnson, West, and Newell)
- Mapping surface geology in Morton County, Kansas (Year 1): U.S. Geological Survey EDMAP Program, \$11,000, 5/02-5/03.
- Relationship of soil chemistry and mineralogy to Cs, Pb, and PGE distribution, and implications to erosion evaluation models: U.S. Army Engineer Research & Development Center (BAA Program), \$200,000, 3/02-3/04. (Johnson and Macpherson)
- Geologic mapping and compilation of digitized county data bases in Saline, Crawford, Pawnee and Edwards Counties, Kansas; and compilation of a digital geologic map base from existing maps in a portion of Wabaunsee County, Kansas: U.S. Geological Survey STATEMAP Program, \$150,516. (Brady, Johnson, West, McCauley, and Collins)
- Doctoral Dissertation Research: Modeling the effect of climate on erosion and deposition events in the loess canyons of the Breaks, Cheyenne County, Kansas: NSF-G&RS, \$10,000, 8/01-7/03. (for K.L. Willey)

Geologic mapping and compilation of digitized county data bases in Barber, Crawford, and Gray-Hodgeman Counties, Kansas; and compilation of a digital geologic map base from an existing map in Pottawatomie County, Kansas: U.S. Geological Survey, STATEMAP Program, \$132,690, 5/01-4/02. (Brady et al.)

Geologic mapping and compilation of digitized county data bases in Barber, Crawford, and Gray-Hodgeman Counties, Kansas; and compilation of a digital geologic map base from an existing map in Pottawatomie County, Kansas: U.S. Geological Survey, STATEMAP Program, \$32,564, 5/01-4/02. (Brady, Johnson, West, McCauley, and Collins)

Geologic mapping and compilation of digitized county data bases in Barber, Crawford, and Gray-Hodgeman Counties, Kansas; and compilation of a digital geologic map base from an existing map in Pottawatomie County, Kansas: U.S. Geological Survey, STATEMAP Program, \$7,000, 5/01-4/02. (Brady, Johnson, West, McCauley, and Collins)

Mapping surface geology in Cheyenne County, Kansas: U.S. Geological Survey, EDMAP Program, \$10,102, 5/01-4/02.

1996-2000

Relationships of soil chemistry and mineralogy to ^{137}Cs , ^{210}Pb and Platinum Group Elements distribution: U.S. Army, BT-25 Program (Environmental Quality Basic Research), \$25,000, 11/00-10/02. (Johnson and Macpherson)

Relationships of soil chemistry and mineralogy to ^{137}Cs , ^{210}Pb and Platinum Group Elements distribution: U.S. Army, BT-25 Program (Environmental Quality Basic Research), \$5,000, 11/00-10/02. (Johnson and Macpherson)

Cynomys sp. (prairie dog) and *Spermophilous* sp. (ground squirrel) bone-derived carbon ($\delta^{13}\text{C}$) and oxygen ($\delta^{18}\text{O}$) isotopic values as proxies of past climates in the central Great Plains: The University of Kansas General Research Fund, \$4,762, 7/00-6/01.

Geologic mapping and compilation of digitized county data bases in Barber, Crawford, and Gray-Hodgeman Counties, Kansas; and compilation of a digital geologic map base from an existing map in Pottawatomie County, Kansas: U.S. Geological Survey, STATEMAP Program, \$60,839, 5/00-4/01. (Brady, Johnson, West, McCauley, and Collins)

AASG Mentored Field Research Experience Program: American Association of State Geologists, \$2,500, 5/99-8/99

Research Experience for Undergraduates Program (REU) Supplement: NSF-G&RS, \$2,500, 5/99-7/99.

Geologic mapping and compilation of digitized county data bases in Barber, Crawford, and Gray Counties, Kansas and compilation of digital geologic map bases from existing maps in Johnson, Franklin, Osage, and Shawnee Counties, Kansas: U.S. Geological Survey, STATEMAP Program, \$50,000, 5/99-4/00 (Brady, Johnson, West, McCauley, and Collins)

Playas (AKA buffalo wallows): Environmental barometers of the central Great Plains: The University of Kansas Research Development Fund, \$30,846, 1/99-6/2000.

Reconstruction of past climates using the microbotanical record contained within loess deposits of the central Great Plains: The University of Kansas General Research Fund, \$6,938, 7/98-6/99.

Research Experience for Undergraduates Program (REU) Supplement: NSF-G&RS, 3/98-7/98, \$3,750.

Continuation of geologic mapping and compilation of digitized county data bases in Bourbon, Comanche, Hamilton, and Kearny Counties, Kansas; and compilation of digital geologic map bases from existing maps in Anderson, Chase, Franklin, Johnson, Lyon, Osage, Shawnee, and Wilson Counties, Kansas: U.S. Geological Survey, STATEMAP Program, \$74,544, 5/98-4/99. (Brady, Johnson, West, McCauley, and Collins)

Research Experience for Undergraduates Program (REU) Supplement: NSF-G&RS, 3/97-7/98, \$4,809.

A proposal submitted to the STATEMAP Program of the U.S. Geological Survey, Department of the Interior, for continuation of geologic mapping and compilation of digitized county data bases in Greenwood, Bourbon, Comanche, Hamilton, and Kearny Counties, Kansas; and the compilation of digitized county data bases for Johnson, Anderson, and Chase Counties, Kansas: U.S. Geological Survey, 5/97-4/98, \$122,101. (Brady, Johnson, West, McCauley, and Collins)

The magnetic and carbon isotope record of climate as derived from loess deposits of the central Great Plains: NSF-G&RS, 8/96-7/98, \$119,968. (M.R. Farr, co-pi)

A proposal submitted to the STATEMAP Program of the U.S. Geological Survey, Department of the Interior, for completion of work in Greenwood and Bourbon Counties, Kansas, and new work in Comanche-Hamilton, and Kearny Counties, Kansas, to support field mapping and compilation of digitized data bases leading to a revised geologic map of Kansas: U.S. Geological Survey, 5/96-4/97, \$153,129. (Brady, Johnson, West, McCauley, and Collins)

1991-1995

- High-resolution climatic reconstruction in the central Great Plains: a pilot study: The University of Kansas General Research Fund, 7/95-6/96, \$5,505.
- Reconstruction of late Quaternary paleoclimates of the central Great Plains using magnetic and nonmagnetic parameters: NSF-G&RS, 6/95-5/96, \$8,490.
- A proposal submitted to the STATEMAP Program of the U.S. Geological Survey for continuation of work in Greenwood, Clark, Comanche, and Bourbon Counties, Kansas, and new work in Ford County, Kansas, to support field mapping and compilation of a digitized data base leading to a revised geologic map of Kansas: U.S. Geological Survey, 9/93-8/94, \$131,385. (Maples et al.)
- Approximation of age, extent, and risk potential of late-Quaternary faulting along the Chadron-Cambridge Arch in south-central Nebraska using geomorphic and shallow seismic-reflection techniques: U.S. Geological Survey (NEHRP), 4/93-3/95, \$71,625. (Johnson, Miller, and Steeples)
- Paleoenvironments and desertification of a large sand sheet in the central Great Plains: National Aeronautics and Space Administration, 8/92-95, \$66,000.
- Reconstruction of Glacial Age climates in the central Great Plains, The University of Kansas Office of Research, Graduate Studies and Public Service, 7/90-6/91, \$6,160.

Pre-1991

- Detailed mapping and dating of Quaternary-age deposits in Phillips County, Kansas: Dane G. Hansen Foundation, 7/89, \$2,000.
- Radiocarbon dating of soil humate fractions in late-Quaternary paleosols: NSF-G&RS, 2/89-8/90, \$12,000.
- Ranching culture and the Cimarron River: Hall Center for the Humanities, The University of Kansas, 4/88, \$380.
- Research Experience for Undergraduate Program: Supplement Request: NSF-G&RS, 7/87- 2/89, \$3,941.
- A phytogeographic reconstruction using botanical microfossils extracted from a 110,000-year fauna-rich sedimentary sequence, Natural Trap Cave, Wyoming: NSF-G&RS, 2/86-6/87, \$34,500.
- Enhancement of Palynology Laboratory Facilities: Exxon Education Foundation, 9/85, \$5,000.
- A 620,000-year opal phytolith record from the loess of central Nebraska: National Geographic Society, 10/85-10/86, \$6,900.
- Development of a pollen-analysis laboratory for the study of Quaternary environments of the central Great Plains: The University of Kansas Office of Research, Graduate Studies and Public Service, 7/81-7/84, \$89,757. (W. Dort, Jr., pi)
- Reconstruction of past environments on the central Great Plains: The University of Kansas Office of Research, Graduate Studies and Public Service, 8/81-5/82, \$4,523.
- The impact of Prehispanic Maya agriculture on the physical environment: the Pulltrouser Swamp archaeological site of northern Belize: Tinker Foundation and The University of Kansas Center of Latin American Studies, 3/81, \$7,500.
- Reconstruction of Late Quaternary vegetation at Natural Trap Cave Wyoming: a pilot study: The Association of American Geographers, 2/81, \$325.
- Funds for establishing a fossil-pollen extraction laboratory: The University of Kansas College of Liberal Arts and Sciences, and Office of Research, Graduate Studies, and Public Service, 6/80, \$2,000.
- Accurate prediction of river sediment loads: The University of Kansas Office of Research, Graduate Studies, and Public Service, 7/80-6/81, \$4,005.
- Research equipment for physical geography laboratories: NSF-G&RS, 12/79-5/81, \$22,889.
- Recent climatic variation in the highlands of western Honduras: The University of Kansas Office of Research, Graduate Studies, and Public Service, 1979-80, \$4,000.
- Soils geomorphology of the Copan, Honduras Maya archaeological site: University of Oklahoma Office of Research, 1977, \$4,500.

Contracts

2006

- Geoarchaeology of buried Paleoindian sites (14RY6175 & 6176), Fort Riley, Kansas: U.S. Army & Center for Management of Military Lands (Colorado State University), \$17,000.

2001-2005

- Phil Site Phase IV data recovery, analysis and report preparation: Bureau of Reclamation, \$80,330, 9/05-6/06. (Logan and Johnson)
- Geomorphologist and geoarchaeologist: Service Contract with DOD for installations in Kansas, Missouri, Kentucky, and Tennessee: Center for Environmental Management of Military Lands, 2005-2008.

Phase IV excavation of the Phil site (14JW48), Lovewell Reservoir, Jewell County, Kansas: Bureau of Reclamation, \$69,506, 10/04-9/06. (Logan and Johnson)

National Register of Historic Places evaluation of three archaeological sites at Lovewell Reservoir, Jewell County, Kansas: Bureau of Reclamation, \$78,406, 7/04-3/05. (Logan and Johnson)

Data recovery and mitigation (site 41CV595) for Fort Hood, Texas: Center for Environmental Management of Military Lands—Colorado State University, \$23,067, 1/03-12/03.

Temporal archaeological model for Fort Hood, Texas: Center for Environmental Management of Military Lands—Colorado State University, \$10,641, 2/03-12/03.

3-D GIS visualization of the Kirwin National Wildlife Refuge: Bureau of Reclamation, \$1,452, 9/02-5/03. (Logan and Johnson)

Archaeological survey of Kirwin Reservoir, Phillips County, KS: Bureau of Reclamation, \$30,000, 5/02-12/03. (Logan and Johnson)

Geoarchaeology of the Kirwin Reservoir area, Phillips County, Kansas: The University of Kansas Office of Archaeological Research, \$10,000, 5/01-3/02.

1996-2000

GIS modeling of landform evolution, Fort Riley, Kansas: Strategic Environmental Research and Development Program, \$20,000, 1/00-7/00.

GIS representation of the potential for buried archaeological sites on the Fort Riley Military Reservation: U.S. Army Construction Engineering Research Laboratories, \$25,000, 1/99-8/99.

A Geographic Information System (GIS) based model of late-Quaternary landscape evolution: the Fort Riley military reservation: U.S. Army Construction Engineering Research Laboratories, 4/98-4/99, \$38,264.

Development of a comprehensive geoarchaeological model for Fort Riley, Kansas: U.S. Army Construction Engineering Research Laboratories, 5/97-4/98, \$47,930.

Soil organic matter (SOM) samples for radiocarbon dating: U.S. Army Construction Engineering Research Laboratories, 8/97, \$1,200.

Soil organic matter (SOM) samples for radiocarbon dating: U.S. Army Construction Engineering Research Laboratories, 9/96, \$2,400.

Geoarchaeology of the DB site, Ft. Leavenworth, Kansas-mitigation phase: U.S. Army Corps of Engineers-Kansas City District, 6/96-8/97, \$35,867. (Logan and Johnson)

1991-1995

Geoarchaeology of the DB Site, Ft. Leavenworth, Kansas-testing phase: U.S. Army Corps of Engineers-Kansas City District, 6/95-12/95, \$3,892.

Alluvial stratigraphy and paleoenvironmental reconstruction - Fort Riley, Kansas: U.S. Army Construction Engineering Research Laboratories, 5/96-9/96, \$49,918.

Paleoenvironmental reconstruction using magnetic parameters - Fort Riley, Kansas: U.S. Army Construction Engineering Research Laboratories, 6/95-5/96, \$18,994.

Paleoenvironmental reconstruction using ¹³C and opal phytolith parameters - Fort Riley, Kansas: U.S. Army Construction Engineering Research Laboratories, 6/95-5/96, \$22,579.

An integrated hillslope and channel evolution model as an investigation and prediction tool: U.S. Army Construction Engineering Research Laboratories, 9/95-8/98, \$467,787. (Bras et al.)

Archaeological investigations at State Route 87, Saguaro Lake Road to Gila County Line: Statistical Research, Inc., 3/95-10/95, \$1,250.

Phytolith and ¹²C/¹³C analysis at Fort Riley, Kansas: a paleoenvironmental reconstruction: U.S. Army Construction Engineering Research Laboratories, 9/93-5/94, \$19,908.

Surficial geologic mapping of Republic County, Kansas: Kansas Geological Survey, 5/93-8/95, \$12,000.

Sand Prairies geoarchaeological survey, central and southwestern Kansas: Kansas State Historical Society, 6/92-6/93, \$79,964. (Logan and Johnson)

Paleoenvironmental overview of the Central Plains: U.S. Army Corps of Engineers, 1/92-12/94, \$65,000. (Hofman et al.)

Geoarchaeology of the Lower Verde River: Bureau of Reclamation, 5/92-10/94, \$48,055.

Investigation of Anasazi/Cohonina cultigen use at AZI:2:11 near Cameron, Arizona: Arizona Department of Transportation and Statistical Research (Tucson), 11/91-3/92, \$4,400.

Pre-1991

Documentation of cultigen use via pollen and opal phytolith analysis of prehistoric fields, Roosevelt Reservoir Rural Sites Study (AZ): Bureau of Reclamation, 8/90-8/91, \$21,000.

Surficial geologic mapping of Finney County, Kansas: Kansas Geological Survey, 5/90, \$9,500.

Stratigraphy and Quaternary geology of Phillips County, Kansas: Kansas Geological Survey, 5/89, \$7,000.
 Age and extent of the shallow confining silt layer in the Great Bend Prairie: Kansas Groundwater Management District 5, 5/89, \$2,450.
 Impact of increasing groundwater withdrawal on riparian vegetation and stream channel morphology: Arkansas and Cimarron Rivers, Kansas: Kansas Fish and Game Commission, 10/85-7/86, \$13,700.
 Geomorphology and paleoecology of Eglin Air Force Base, Florida: New World Research, Inc. (National Park Service Award), 1/82-1/86, \$40,000.
 Abandoned Mined Lands Inventory Prototype Study: Office of Surface Mining, 1/80, \$91,000. (Mandel et al.)

Books and Book Chapters

Johnson, W.C., Willey, K.L., and Macpherson, G.L., 2006, Carbon isotope variation in modern soils of the tallgrass prairie: analogues for the interpretation of isotopic records derived from paleosols: in ***The Soil Record of Quaternary Climate Change***, B. Harrison and C. Olson, eds.: Geological Society of America Special Paper. (accepted)

Johnson, W.C., Arbogast, A.F., and Homburg, J.A., 1997, Alluvial Geomorphology and Geoarchaeology of the Lower Verde River: in ***Vanishing River: Landscape and Lives of the Lower Verde Valley, V. 2 Agricultural, Subsistence and Environmental Studies***, J. Homburg and R. Ciolek-Torrello, eds., p. 17-31 (+ 67 pages of figs. and tables; on CD-ROM) .

Johnson, W.C. and Park, K., 1997, Late Wisconsinan and Holocene Environmental History: in ***Archaeology and Paleocology of the Central Great Plains***, J.L. Hofman, ed., Arkansas Archeological Survey Resource Series No. 48, p. 3-28.

Madole, R.F., Ferring, C.R., Guccione, M.J., Hall, S.A., Johnson, W.C., and Sorenson, C.J., 1991, Quaternary Geology of the Osage Plains and Interior Highlands: (Chap. 17) in ***Quaternary Nonglacial Geology: Conterminous United States***, R.B. Morrison (ed.), Geological Society of America, The Geology of North America, v. K-2, pp. 503-545.

Johnson, W.C., 1987, ***Quaternary Environments of Kansas***, Kansas Geological Survey ***Guidebook 5***.

Johnson, W.C. and C.W. Martin, 1987, Holocene Alluvial-Stratigraphic Studies from Kansas and Adjoining States of the East-Central Plains: in ***Quaternary Environments of Kansas***, W.C. Johnson (ed.), Kansas Geological Survey ***Guidebook Series 5***, pp. 109-122.

Turner, B.L., II, Johnson, W.C., Mahood, G, Wiseman, F.M., and Poole, J., 1983, Habitat and Agriculture in the Copan Region: in ***Introduction to the Archaeology of Copan***, C. Baudez (ed.), The National Institute of Anthropology and History, Tegucigalpa, Honduras, pp. 35-142.(in Spanish)

Knox, J.C., McDowell, P.F., and Johnson, W.C., 1981, Holocene Fluvial Stratigraphy and Climatic Change in the Driftless Area, Wisconsin: in ***Quaternary Paleoclimate***, W.C. Mahaney (ed.), Geo Abstracts Ltd. (Norwich, England), pp. 107-127.

Journal Articles

2001-2006

Johnson, W.C., Willey, K.L., Dort, W., Jr., and Bozarth, S.R., n.d., Holocene loess chronology and stratigraphy of a loess table, southwestern Nebraska, USA: ***The Holocene*** (in prep.)

Johnson, W.C., Campbell, J.S., and Bowen, M.W., n.d., Playa distribution and stratigraphy within the central Great Plains: ***Geology*** (in prep.)

Johnson, W.C., Willey, K.L., Mason, J.A., and May, D.W., n.d., Stratigraphy and environmental reconstruction at the Middle Wisconsinan Gilman Canyon Formation type locality, Buzzard's Roost, southwestern Nebraska, U.S.A.: ***Quaternary Research***. (in review)

Miao, X., Mason, J.A., Johnson, W.C., Wang, H., n.d., High-resolution proxy record of Holocene climate from a Bignell Loess section in Southwestern Nebraska, Great Plains: ***Palaeogeography, Palaeoclimatology and Palaeoecology*** (accepted)

Logan, B., Johnson, W.C., and Campbell, J.S., 2002, Geoarchaeological Survey of Kirwin National Wildlife Refuge, Northwest Kansas: Application of GIS Method: ***Current Archaeology in Kansas*** 3: 44-49.

Johnson, W.C., Bozarth, S.R., and Campbell, J.S., 2002, Isotopic and biosilicate records from playa-lunette systems of the High Plains in Kansas: ***Current Research in the Pleistocene*** 19: 122-123.

1996-2000

Johnson, W.C. and Willey, K.L., 2000, Isotopic and rock magnetic expression of environmental change at the Pleistocene-Holocene transition in the central Great Plains: ***Quaternary International*** 67:89-106.

- Willey, K.L., *Johnson, W.C.*, and Isaacson, J.S., 1998, Preservation of the Paleoindian Record in alluvial fill, northeastern Kansas: ***Current Research in the Pleistocene*** 15: 68-70.
- Johnson, W.C.*, and Martin, C.W., 1998, Humate Fraction and Laboratory Differences in Conventional ¹⁴C Ages from Late-Quaternary Soils in the Central Great Plains: ***Quaternary International*** 51/52: 49-50.
- Arbogast, A.F. and *Johnson, W.C.*, 1998, Late-Quaternary Landscape Response to Environmental Change in South-Central Kansas: Association of American Geographers ***Annals*** 88: 126-145.
- Johnson, W.C.*, May, D.W., and Valastro, S., 1998, Temporal and Environmental Resolution of a Buried Loessal Soil in Kansas and Nebraska: ***Quaternary International*** 51/52: 48-49.
- Logan, B., Hatfield, V.L., *Johnson, W.C.*, and McLean, J.A., 1998, More evidence of Paleoindian occupation of The DB Site, northeastern Kansas: ***Current Research in the Pleistocene*** 15: 37-39.
- Johnson, W.C.*, Park, K., Isaacson, J.S., and Johnson, D.L., 1997, Late Pleistocene and Holocene Environments on Fort Riley, Kansas: ***Current Research in the Pleistocene*** 14: 163-165.
- Logan, B. and *Johnson, W.C.*, 1997, Paleoindian Occupation of the Lower Missouri River Loess Hills: Buried Evidence from the DB Ridge, Northeastern Kansas: ***Current Research in the Pleistocene*** 14: 48-50.
- Johnson, W.C.*, May, D.W., and Mandel, R.D., 1996, A Data Base of Alluvial Radiocarbon Ages from the Central Great Plains (Kansas and Nebraska): ***Current Research in the Pleistocene*** 13:79-81.
- Maat, P.B. and *Johnson, W.C.*, 1996, Thermoluminescence and New ¹⁴C Estimates for Late Quaternary Loesses in Southwestern Nebraska: ***Geomorphology*** 17: 115-128.
- Arbogast, A.F. and *Johnson, W.C.*, 1996, Surficial Geology and Stratigraphy of Russell County, Kansas: Kansas Geological Survey ***Technical Series*** 7.
- Hofman, J.L., Hill, M.E., *Johnson, W.C.*, and Sather, D.T., 1996, Norton: an Early Holocene Bison Bone bed in Western Kansas: ***Current Research in the Pleistocene*** 12: 19-20.

1991-1995

- Feng, Z-D. and *Johnson, W.C.*, 1995, Factors Affecting the Magnetic Susceptibility of a Loess-Soil Sequence: Barton County, Kansas, U.S.A.: ***Catena*** 24:25-37.
- Martin, C.W. and *Johnson, W.C.*, 1995, Variation in Radiocarbon Ages of Soil Organic Matter Fractions from Late Quaternary Buried Soils: ***Quaternary Research*** 43:232-237.
- Feng Z-D., *Johnson, W.C.*, and Diffendal, R.F., 1994, Environments of Eolian Deposition in South-Central Nebraska during the Last Glacial Maximum: ***Physical Geography*** 15: 249-261.
- Feng, Z-D., *Johnson, W.C.*, Lu, Y-C., and Ward, P.A., III, 1994, Climatic Signals from Loess-Soil Sequences in the Central Great Plains, USA: ***Palaeogeography, Palaeoclimatology, Palaeoecology*** 110:345-358.
- Arbogast, A.F. and *Johnson, W.C.*, 1994, Climatic Implications of the Late Quaternary Alluvial Record of a Small Drainage Basin in the Central Great Plains: ***Quaternary Research*** 41:298-305.
- Feng, Z-D., *Johnson, W.C.*, Sprowl, D.R., and Lu, Y-C., 1994, Loess Accumulation and Soil Formation in Central Kansas, United States, during the last 400,000 Years: ***Earth Surface Processes and Landforms*** 19:55-67.
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Pre-1991

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2003

Historic patterns of dune instability in the Cimarron National Grasslands, southwestern Kansas: Geological Society of America, Denver, October 2003. (W.C. Johnson and L.G. Messinger)
Non-radioactive cesium and rubidium as analogs for ¹³⁷Cs behavior in soil at the Konza Prairie LTER site, northeastern Kansas, U.S.A.: Geological Society of America, Denver, October 2003. (G.L. Mcpherson, W.C. Johnson, S. Landsberger, M.E. Ketterer, L. Gatto, and G.N. Blair)
SOM- and bone-derived isotopic signals as proxies of Late Pleistocene and Holocene climatic conditions in the central Great Plains, U.S.A.: International Quaternary Association (INQUA), Reno, July 2003. (W.C. Johnson, K.L. Willey, J.S. Campbell, and J.R. Robinson)
Relationships of soil chemistry and mineralogy to Cs, Pb, and PGE distribution: U.S. Army Engineer Research & Development Center IPR Conference, Arlington, May 2003. (L.G. Gatto, M. Hohmann, W.C. Johnson, G. Macpherson, J. Kaste, and A. Heimsath)
Probability Model for the Distribution of Surficial Archaeological Materials in Morton County, Kansas: Flint Hills Archaeological Conference, Topeka, April 2003. (J.S. Campbell and W.C. Johnson)
GIS Rendering of the Geoarchaeology of Kirwin National Wildlife Refuge, Northwest Kansas: Flint Hills Archaeological Conference, Topeka, April 2003. (W. Johnson, B. Logan and J. Campbell)

2002

Distribution and prehistory of playa basins in Kansas: Kansas Playa Study Workshop, NRCS, Salina, 12/02. (W.C. Johnson and J.S. Campbell)
Geoarchaeological survey of Kirwin National Wildlife Refuge, Northwestern Kansas: A GIS Model: Plains Conference: Geological Society of America, Denver, October, 2002. (J.S. Campbell and W.C. Johnson)
Geoarchaeological survey of Kirwin National Wildlife Refuge, northwestern Kansas: A GIS model of site locations: Plains Conference, Oklahoma City, October, 2002. (B. Logan, W.C. Johnson, and J.S. Campbell)
Modeling archaeological site distribution on the High Plains of Kansas—a geographic perspective: Flint Hills Archaeological Conference, Manhattan, April 2002. (J.S. Campbell, W.C. Johnson, and B. Logan)
Landscape evolution and the potential for preservation of the cultural record on Fort Riley, Northeast Kansas: Flint Hills Archaeological Society, Manhattan, April 2002. (W.C. Johnson, K.L. Willey, and S.R. Bozarth)
Modeling archaeological site distribution on the High Plains of Kansas: a GIS approach: Society for American Archaeology, Denver, March, 2002. (J.S. Campbell, W.C. Johnson, and B. Logan)

2001

Detailed investigations of soil geochemistry to evaluate radioisotope distribution in prairie soils: Geological Society of America, Boston, November, 2001.
Application of Rock Magnetic Analyses to Geoarchaeology: Society for American Archaeology, New Orleans, April, 2001.

2000

Biostratigraphy, magnetostratigraphy and the environmental history of playas on the High Plains of western Kansas: Geological Society of America, Reno, October, 2000. (W.C. Johnson, S.R. Bozarth, J.S. Campbell, and K.L. Willey)
Late Quaternary landscape evolution and the potential for preservation of the cultural record at Fort Riley, Kansas: Geological Society of America, Reno, October, 2000. (K.L. Willey, W.C. Johnson, and C.J. McLaughlin)
Playa systems as environmental barometers of the central Great Plains: investigations in Kansas: American Quaternary Association, 16th Biennial Meeting, Fayetteville, May, 2000. (W.C. Johnson, R.D. Mandel, K.L. Willey, J.S. Campbell, and S.R. Bozarth)
Buried soil distribution and age on the Fort Riley military reservation, northeastern Kansas: Kansas Association of Professional Soil Classifiers, Manhattan (KS), April, 2000. (W.C. Johnson and K.L. Willey)
Reconstruction of late-Quaternary landscape evolution and geoarchaeological modeling at Fort Riley, Kansas:

Society for American Archaeology, Philadelphia, April, 2000. (W.C. Johnson, K.L. Willey, and D. Cochran)

1999

Chronologic, pedologic, rock magnetic, isotopic, and biologic signals from the middle Wisconsinan Gilman Canyon loess of the central Great Plains: Geological Society of America, Denver, October, 1999. (W.C. Johnson, K.L. Willey, D.W. May, J.A. Mason, and S.A. Bozarth)

Numerical simulation of catchment and floodplain dynamics: implications for alluvial stratigraphy and geoarchaeology in the central Great Plains: Geological Society of America, Denver, October, 1999. (G.E. Tucker, N.M. Gasparini, R.L. Bras, S.T. Lancaster, J.A. Zeidler, W.C. Johnson, and J.S. Isaacson)

Modeling the potential for buried prehistoric archaeological remains on the Fort Riley military installation, Kansas: North-Central Section meeting, Geological Society of America, Champaign, April, 1999.

1998

Late-Pleistocene-Early Holocene climatic change on the central Great Plains: Great Plains/Rocky Mountain Division meeting, Association of American Geographers, Lawrence, September, 1998.

Derivation of late-Quaternary climatic records from loess deposits of the central Great Plains using magnetic, isotopic and other parameters: Dust Aerosols, Loess Soils and Global Change, October, 1998.

Potential Pre-Clovis sedimentary environments in the central Great Plains: Geological Society of America, Toronto, October, 1998. (W.C. Johnson and R.D. Mandel)

Holocene climatic records extracted from eolian deposits of the central Great Plains: Geological Society of America, Toronto, October, 1998. (K.L. Willey and W.C. Johnson)

Soil and carbon isotopic evidence of North American Midcontinent vegetation during the Last Interglacial Period: Geological Society of America, Toronto, October, 1998. (E.A. Bettis III, D.R. Muhs, Rutledge, E.M., and W.C. Johnson)

Evidence for dramatic environmental change derived from the Late Pleistocene-Early Holocene Brady soil of the central Great Plains: American Quaternary Association, Puerto Vallarta (Mexico), September, 1998.

Reconstructing landscape change in the context of cultural resources: MIT Department of Environmental and Civil Engineering, July, 1998.

1997

Late-Quaternary stratigraphy at the DB Site, Fort Leavenworth, Kansas: 55th Annual Plains Anthropological Conference, Boulder, November, 1997.

Rock magnetism as a tool for environmental reconstruction: examples from the Great Plains: Great Plains/Rocky Mountains Division meeting, Association of American Geographers, Bozeman, September, 1997.

Late-Quaternary environments and archaeological geology of the loess-mantled terrain in northeastern Kansas: Geological Society of America, Salt Lake City, October, 1997.

Rock magnetic and carbon isotopic signals from the loess sequences on Fort Riley, Kansas: Flint Hills Archaeological Conference, Manhattan, March, 1997. (W.C. Johnson and K. Park)

Investigation of late-Quaternary faulting at the Bone Cove site, south-central Nebraska: Association of American Geographers, Fort Worth, April, 1997.

1996

Coincident use of isotopic and magnetic parameters in the characterization of late-Quaternary environments on the Great Plains: Geological Society of America, Denver, October, 1996. (W.C. Johnson, K. Park, and M.R. Farr)

Pedologic evidence for the climate of the Last Interglacial period in the Midcontinent of the United States: Geological Society of America, Denver, October, 1996. (Muhs, D.R., Bettis, E.A. III, Johnson, W.C., Rutledge, E.M., Maat, P.B., and Stafford, T.W.)

Carbon isotope data ($\delta^{13}\text{C}$) as a proxy of late-Quaternary climates: Institute for Tertiary-Quaternary Studies Symposium, Lawrence, February-March, 1996.

The magnetic signal in soils: Kansas Association of Professional Soil Classifiers, Lawrence, Feb., 1996.

1995

Geomorphology, stratigraphy, and chronology of a late-Quaternary (Holocene) fault, Harlan County, Nebraska: Geological Society of America, New Orleans, November, 1995. (W.C. Johnson, R.D. Miller, and D.W. Steeples)

Lithostratigraphy, chronostratigraphy, and environmental reconstructions of the middle and late Wisconsinan loess deposits in Kansas and adjacent Nebraska: North-Central meeting, Geological Society of America, Lincoln, April, 1995.

Regional variations of rock magnetic parameters in the loess deposits of the central Great Plains: North-Central

meeting, Geological Society of America, Lincoln, April, 1995. (K. Park, W.C. Johnson, and M.R. Farr)
Geochemical trends in loess and paleosol sequences of the last interglacial-glacial cycle, Iowa, Nebraska, and Mississippi: North-Central meeting, Geological Society of America, Lincoln, April, 1995. (E.A. Bettis, D.R. Muhs, T.W. Stafford, S.A. Mahan, S.D. Cowherd, and W.C. Johnson)

1994

Rock magnetic properties of the Sangamon soil from southwestern Nebraska: lack of evidence for ultrafine ferrimagnetic grains: Geological Society of America, Seattle, October, 1994. (M.R. Farr, K. Park, and W.C. Johnson)
Environmental and chronological indicators for the Sangamon soil of the Last Interglacial, Nebraska and Kansas: Geological Society of America, Seattle, October, 1994. (W.C. Johnson, K. Park, M. Farr, and Z-D. Feng)
Thermoluminescence and ¹⁴C age estimates for late-Quaternary loesses in southwestern Nebraska: Workshop on the Response of Aeolian Processes to Global Change, Zzyzx (CA), March, 1994. (P.B. Maat and W.C. Johnson)
An Emerging Environmental Record for the Late-Wisconsinan Loesses and associated paleosols in the central Great Plains: Association of American Geographers, San Francisco, March-April, 1994. (W.C. Johnson, E. Diekmeyer, and S. Bozarth)

1993

A detailed rock magnetic record from Quaternary loess and associated soils at the Eustis Ash Pit, Nebraska: American Geophysical Union, San Francisco, December, 1993. (M.R. Farr, W.C. Johnson, and K. Park)
Chronology, Stratigraphy, and Paleoenvironment of the Late Wisconsin (Peoria) loess of Kansas and Nebraska: Geological Society of America, Boston, October, 1993. W.C. Johnson, K. Park, E. Diekmeyer, and D.R. Muhs)
Magnetic susceptibility record of two Quaternary loess sections, Nebraska: American Geophysical Union, Baltimore, April, 1993. (K. Park, M.R. Farr, and W.C. Johnson)
The Kansas Sand Prairies Geoarchaeological survey: Flint Hills Archaeological Conference, Wichita, March, 1993. (W.C. Johnson, B. Logan, and A.F. Arbogast)
A 36,000-year Chrono-, Bio-, and Magnetostratigraphic Record from Loess of South-central Nebraska: Association of American Geographers, Atlanta, April, 1993. (W.C. Johnson, D.W. May, and S. Valastro)
Close Interval Radiocarbon Dating of Buried Soils in Late-Quaternary Loess and Alluvium, Central Great Plains: Association of American Geographers, Atlanta, April, 1993. (C.W. Martin and W.C. Johnson)

1992

Radiocarbon Dating of Buried Soils-Humate Fractionation, $\delta^{13}\text{C}$ Correction and Paleoclimatic Signals: Geoarchaeological Implications in the Central Great Plains: Geological Society of America, Cincinnati, October, 1992. (W.C. Johnson and C.W. Martin)
Some Geomorphic and Palynologic Approaches to Deciphering the Pre-Columbian Cultural Environment: keynote address at the International Geographical Congress, Washington, August, 1992.
Global Climatic Signal of Loess Deposition from Kansas: national meeting of the American Geophysical Union, 1992. (Z-D. Feng, W.C. Johnson, and D.R. Sprowl)
Late-Quaternary Succession of Fluvial Processes and Its Impact on Contemporary Hydrology of the Arkansas River in Kansas: Association of American Geographers, San Diego, April, 1992. (W.C. Johnson and M. Sophocles)

1991

Sources of Variation in ¹⁴C-age Determinations from Soil Humates and Archaeological Implications: Examples from the Kansas River Basin: Plains Anthropological Conference, Lawrence, November, 1991. (W.C. Johnson and C.W. Martin)
Late Pleistocene and Holocene Eolian Stratigraphy of the Central Great Plains and Paleoclimatic Reconstruction: Geological Society of America, San Diego, October, 1991.
Loess Depositional History and the Climatic Implications During the Last 400,000 years in Central Kansas: Institute for Tertiary and Quaternary Studies, Lawrence, February-March, 1991. (Z-D. Feng and W.C. Johnson)
Late Quaternary Eolian and Alluvial History of the Great Bend Prairie, Kansas, and Potential for Evidence of Early Man: Institute for Tertiary and Quaternary Studies, Lawrence, February-March, 1991. (W.C. Johnson and M. Sophocles)
Landscape Evolution in Relation to Basketmaker III Occupation of the Lukachukai Valley: Society for American Archaeology, New Orleans, April 1991. (J. Homburg and W.C. Johnson)

1990

- A Soils Transect in Holocene Eolian Sediments in South Central Kansas: American Society of Agronomy/Crop Science Society of America, Soil Science Society of America, San Antonio, October, 1990. (D. Nettleton et al.)
- The Chronology of Loess Deposition in Central Kansas: Geological Society of America, Dallas, October, 1990. (Z-D. Feng, W.C. Johnson, and D.R. Sprowl)
- Age and Distribution of the Gilman Canyon Formation of Nebraska and Kansas: Geological Society of America, Dallas, October, 1990. (W.C. Johnson, D.W. May, and V.L. Souders)
- Biogeography and Geomorphology of late Pleistocene Megafaunal Remains and Potential Paleoindian Associations in the East-Central Great Plains: special session (organizer), Association of American Geographers, Toronto, March, 1990.
- Potential for Site Archaeological Burial in Eolian and Alluvial Deposits in Kansas: Flint Hills Archaeological Conference, Kansas City, March, 1990.
- Paleosol Dating and Correlation via the Radiocarbon Method: Kansas Association of Professional Soil Classifiers, Lawrence, KS, February, 1990.

1985-1989

- Paleomagnetic Secular Variation Record from Loess in South-central Kansas: Absence of the Mono Lake Excursion: American Geophysical Union, San Francisco, December, 1989. (W.C. Johnson and D.R. Sprowl)
- Holocene Alluvial History of Lukachukai Creek and Prehistoric Cultural Associations: Geological Society of America, St. Louis, November, 1989. (W.C. Johnson and C.W. Martin)
- Extinct Megafaunal Finds in Kansas: Their Geomorphic, Paleoenvironmental, and Cultural Implications: South-Central Meeting, Geological Society of America, Arlington (TX), March, 1989.
- Late-Quaternary Geomorphic History and Environments of the Kansas River Drainage, Central Plains: special session (organizer), Association of American Geographers, Baltimore, March, 1989.
- Stratigraphic and Cultural Resolution of the Altithermal in the Central Great Plains: Geological Society of America, Denver, October-November, 1988.
- Historic Changes in the Arkansas and Cimarron River Systems of the Central Plains: Institute for Tertiary and Quaternary Studies, Lincoln (NE), October, 1988.
- Paleochannels of the Arkansas River, Western Kansas, and Hydrologic Implications: Association of American Geographers, Phoenix, April, 1988. (W.C. Johnson and W. Dort, Jr.)
- Distribution of Megafaunal Finds in Kansas and Cultural Implications: Flint Hills Archeological Conference, Lawrence (KS), March, 1988. (W.C. Johnson and E.J. Kost)
- Correlation of Late Quaternary Eolian Deposits with Cheyenne Bottoms Stratigraphy, Central Kansas: North Central meeting, Geological Society of America, Lawrence, March, 1988. (G.G. Fredlund, W.C. Johnson, and T.J. McClain)
- Geomorphology and Paleoenvironmental Reconstruction of the North Cove Paleoindian Site, Nebraska: Geological Society of America, Phoenix, October, 1987.
- Late-Glacial Fauna and Flora of the Central Great Plains: International Union for Quaternary Research (INQUA), Ottawa, August, 1987. (W. Dort, Jr., L.D. Martin, and W.C. Johnson)
- Hydrologic Assessment of Cheyenne Bottoms: American Geophysical Union (AGU), Baltimore, May, 1987. (T.J. McClain et al.)
- Holocene Patterns of Alluvial Stability within the Kansas River System: Association of American Geographers, Portland, April, 1987.
- Late Wisconsinan Paleoecology of South-Central Kansas: The Arkansas River Valley at Wichita: Kansas Academy of Science, Emporia, April, 1986. (P.J. Jaumann, G.G. Fredlund, and W.C. Johnson)
- Post Glacial History of the Kansas River System: Kansas Academy of Science, Emporia, April, 1986. (W.C. Johnson and W. Dort, Jr.)
- The Impact of Sea-Level Changes on the Cultural Prehistory of the Choctawhatchee Bay Area, Florida: Society for American Archaeology, New Orleans, April, 1986. (W.C. Johnson, G.G. Fredlund, and P.M. Thomas)
- Revision of Terrace Chronologies Along the Kansas River and Tributaries: Institute for Tertiary and Quaternary Studies, Lawrence, October, 1985.
- Late Wisconsin Full-Glacial Vegetation Record from South-Central Kansas: Institute for Tertiary and Quaternary Studies, Lawrence, October, 1985. (P.J. Jaumann, W.C. Johnson, and G.G. Fredlund)
- Palynological Evidence for Late Pleistocene Vegetation from Sanders' Well Locality in East-Central Kansas: Institute for Tertiary and Quaternary Studies, Lawrence, October, 1985. (G.G. Fredlund and W.C. Johnson)

Valley Aggradation and Flood plain Formation in Response to Late-Quaternary Sea-Level Fluctuations in NW Florida, U.S.A.: 1st International Conference on Geomorphology, Manchester (England), September, 1985.
Evidence for an Open Conifer Woodland in the Central Great Plains During the Late Wisconsinan Glacial Maximum: Canadian Quaternary Association, Lethbridge (Alberta), August, 1985. (W. Dort, Jr., W.C. Johnson, G.G. Fredlund, R.A. Rogers, L.D. Martin, J.D. Stewart, and P.F. Wells)
Late Quaternary Evolution of the Yellow River System, Panhandle Florida: Association of American Geographers, Detroit, April, 1985.

1980-1984

Historical Channel Changes in the Cimarron River System, Panhandle Oklahoma: West Lakes/Great Plains-Rocky Mountain Regional Meeting, Association of American Geographers, Lawrence, November, 1984. (W.C. Johnson and C.W. Martin)
Evidence for Late Wisconsinan Sagebrush Steppe on the Northwestern Great Plains: Institute for Tertiary and Quaternary Studies, Dallas, October, 1984. (G.G. Fredlund, W.C. Johnson, and W. Dort, Jr.)
Two Holocene Pollen Records From the Southeastern Pine Forest in the Florida Panhandle: American Association of Stratigraphic Palynologists, October, 1984. (W.C. Johnson and G.G. Fredlund)
A 620,000-year Opal Phytolith Record from the Central Nebraskan Loess: First Phytolith Research Workshop, Raleigh, May, 1984. (G.G. Fredlund, W.C. Johnson, and W. Dort, Jr.)
Problems in the Simultaneous Extraction of Pollen and Phytoliths: First Phytolith Research Workshop, Raleigh, May, 1984. (G.G. Fredlund and W.C. Johnson)
Spores as Paleoenvironmental Indicators: An Archaeological Example: special session (organizer) Association of American Geographers, Washington, D.C., April, 1984.
Evidence for a Pine Parkland in Central and Western Kansas and Adjacent Nebraska during Mid- and Late-Wisconsinan Time: Institute for Tertiary and Quaternary Studies, Lincoln, October, 1983. (W.C. Johnson, L.D. Martin, W. Dort, Jr., C.J. Sorenson, R.A. Rogers, G.G. Fredlund, and J.D. Stewart)
A Preliminary Analysis of Pollen and Phytoliths from the Eustis Pit, Frontier County, Nebraska: Institute for Tertiary and Quaternary Studies, Lincoln, October, 1983. (G. Fredlund, W.C. Johnson, and W. Dort, Jr.)
Soil-Geomorphic Relationships and Prehispanic Land Use Patterns in Northern Belize: Association of American Geographers, Denver, April, 1983.
The Utilization of Remote Sensing and Field Techniques in Revegetation Assessment of Abandoned Mined Lands, Southeast Kansas: West Lakes Meeting, Association of American Geographers, Terre Haute, December, 1982. (W.C. Johnson and K. Rice)
Preliminary Pollen Analysis of a 110,000-year Faunal Sequence, Natural Trap Cave, Wyoming: Great Plains-Rocky Mountains Meeting, Association of American Geographers, Laramie, September, 1982. (W.C. Johnson and G.G. Fredlund)
A dendrochronological Study of *Pinus oocarpa* Shiede in Western Honduras: Association of American Geographers, San Antonio, April, 1982.
Palynological Interpretation of Late Quaternary Pond Sediments Near Gilmore, Lemhi Mountains, Idaho: Association of American Geographers, San Antonio, April, 1982. (D. Butler and W.C. Johnson)
Diversity of Channel Patterns, Kansas River: Geological Society of America - North Central Section, Ames, April, 1981. (W. Dort, Jr. and W.C. Johnson)
Geomorphic and Archaeologic Evidence of Late Holocene Stream System Change in the Central Plains: Association of American Geographers, Los Angeles, April, 1981.
Cultural Response to River Change: the Ancient Maya of Copan Honduras: Association of American Geographers, Louisville, April, 1980.
The Use of Geomorphic Techniques in Paleoenvironmental Reconstruction: Flint Hills/Osage Hills Archaeological Conference, Lawrence, Kansas, March, 1980.

Pre-1980

Holocene Climatic Variation and River Activity on the Central Great Plains: Great Plains Rocky Mountain Meeting, Association of American Geographers, Grand Forks (ND), October, 1979.
Historical Trends in Sediment Movement Within Stream Systems of the Midwestern United States: Second Annual Applied Geographers Conference, Binghamton (NY), September, 1979.
Evidence for Holocene Bioclimatic Stability Northern Labrador/Quebec: Eighth Annual Eastern Canadian Arctic Workshop, Institute for Arctic and Alpine Research, Boulder, May, 1979. (C.J. Sorenson, W.C. Johnson, and A.M. Davis)
Accelerated Erosion and Sedimentation During the Ancient Maya and Modern Periods: Association of American Geographers, Philadelphia, April, 1979.

Contemporary Patterns of Interaction Among Fluvial Variables Within Mid-Western Stream Systems: Association of American Geographers, New Orleans, April, 1978.
 Holocene-Age Paleosols Within Valley Alluvium of Southwestern Wisconsin: Association of American Geographers, Salt Lake City, April, 1977.
 Stream Channel and Flood plain Response to Historical Changes in Land Use: Western Social Science Association, Denver, April, 1977.
 Thresholds in Fluvial Systems and Holocene Climatic Variations: special sessions in geomorphic thresholds, Association of American Geographers, New York, April, 1976.
 Quantitative Discrimination among Hummocky Stagnation Moraine, End Moraine, and Ground Moraine: the Sixth Annual Meeting, North-Central Section, Geological Society of America, DeKalb (IL), May, 1972. (J.L. Hesler and W.C. Johnson)

EDUCATIONAL MATERIALS

Laboratory Exercises: Physical Geography 105, Kendall-Hunt Publishers, 2005-2006 edition.
Laboratory Exercises: Physical Geography 105, Kendall-Hunt Publishers, 2004 edition.
Laboratory Exercises: Physical Geography 105, produced by The University of Kansas Division of Continuing Education, 1990, 1992, 1995, 1997, 2001, 2002, 2003 editions.
Geography 104 - Principles of Physical Geography, The University of Kansas Continuing Education course workbook and materials, 1988, 1995, and 1998 editions. (C.W. Martin and W.C. Johnson)

CONTINUING EDUCATION: WORKSHOPS AND SHORT COURSES

Abrupt Climate Changes, Geological Society of America Short Course, Denver, 10/02
 Recent Archeological Prospection Advances for Non-destructive Investigations in the 21st Century: National Park Service workshop, Vancouver, WA, 5/02
 KUCR-NSF State EPSCoR Funding Forum, The University of Kansas, 2/01
 Regional Grants Conference: NSF, The University of Kansas, 10/98
 Geomorphic Application of In-Situ Produced Cosmogenic Isotopes, Geological Society of America Short Course, New Orleans, 11/95
 International Quaternary Association Paleopedology Symposium: University of Illinois, 8/93
 Paleosol Short course: Department of Geology, The University of Kansas, 3/92
 Paleoenvironmental Interpretation of Paleosols: Geological Society of America Penrose Conference, University of Oregon, 9/87
 Short course on Fungal Palynomorphs: American Association of Stratigraphic Palynologists, Louisiana State University, 10/81
 Laboratory of Tree-Ring Research Workshop: University of Arizona, 4/79
 Third Inter-Agency Sedimentation Conference: Denver, 3/76

PROFESSIONAL SERVICE

Newsletter editor and web page manager, Geological Society of America-Quaternary Geology and Geomorphology Division	1998-2004
Councilor, American Quaternary Association	1998-2002
Panel member, NSF, Anthropology Program (MRI)	1998-1999
Chair and Vice Chair, AAG, Rocky Mountain-Great Plains Region	1996-1998
Secretary/Treasurer and web page manager, Geological Society of America-Archaeological Geology Division	1995-1998, 1999-2002
Geological Society of America Archaeological Geology Division Awards Committee (chair)	1992-1994
Kansas Geological Survey Committee on Stratigraphic Names	1992-present
Editorial Board for <i>Current Research</i> - Kansas Geological Survey	1992-present
Association of American Geographers Geomorphology Specialty Group (Chair)	1992-1993
Geological Society of America Archaeological Geology Division Awards Committee	1991-1993
Nomination Committee for R. Rapp Award, Geological Society of America	1991-1993
NSF, Geography and Regional Science Program	1988-1993
Organizer, leader, and/or co-leader for field trips for NSF, Friends of the Pleistocene, Association of American Geographers, Geological Society of American,	

American Quaternary Association, and International Quaternary Association 1986-present
 Organizer, chair and co-chair of several special/topical sessions at national meetings
 (Geological Society of America and the Association of American Geographers) 1984-present

UNIVERSITY SERVICE

Department

Associate Chair
 Faculty Affairs Committee (chair and member)
 Faculty Search Committees (chair and member)
 Geography 104 & 105 (coordination, management, teaching materials production, and supervision of GTAs)
 Student Affairs Committee (chair and member)

College

Promotion and Tenure Review Committee
 Chair Review Committees
 Sabbatical Leaves Committee (chair and member; two terms)
 Graduate Research Fund (member and departmental representative)
 Faculty Search Committees (Anthropology, Museum of Anthropology, Geology)

University

School of Education Reaccreditation Committee (member)
 Staff Search Committees—Kansas Geological Survey (4)
 Environmental Studies Advisory Board
 Summer Orientation Advisement

AWARDS/RECOGNITION

Fellow, Geological Society of America	2003
Big 12 Faculty Fellowship	2002
Institute for Rock Magnetism Fellowship NSF/University of Minnesota	2000, 2002
KU Center for Teaching Excellence Small Grants	1998, 1999, 2001, 2002
KU Faculty Development Fund Awards	1981, 1990, 2000
Sabbatical Leaves	1989, 1998, 2005
Intra-University Visiting Professorship	1987-88
Tinker Foundation Research Fellowship	1981
Junior Faculty Summer Research Fellowship (U Oklahoma)	1977
NDEA IV Fellowship (U Wisconsin)	1971-72

PROFESSIONAL AFFILIATIONS

American Quaternary Association (AMQUA)	Kansas Soil Classifiers Association
Association of American Geographers (AAG)	Plains Anthropological Society
(Geomorphology Specialty Grp)	Society for American Archaeology (SAA)
Geological Society of America (GSA)	(Geoarchaeology Interest Group)
(Archaeological Geology Division)	
(Quaternary Geology and Geomorphology Division)	

GRADUATE RESEARCH DIRECTED

Ph.D

Bowen, M., in progress
Surface- and groundwater hydrology and soil variability within playas within the central Great Plains
 Willey, K.L., in progress (2007)
Holocene erosional history of the Breaks of the Upper Republican River, central Great Plains

Park, K., 1997
Reconstruction of late-Quaternary climates for the central Great Plains using magnetic and non-magnetic parameters

Bozarth, S.R., 1996
Pollen and opal phytolith evidence of prehistoric agriculture and wild plant utilization in the Lower Verde River Valley, Arizona

Arbogast, A.F., 1995
Paleoenvironments and desertification on the Great Bend Sand Prairie in Kansas

Feng, Z.D., 1991
Temporal and spatial variations in the loess depositional environment of the central Kansas during the past 400,000 years

Martin, C.W., 1990
Late Quaternary landform evolution in the Republican River basin, Nebraska

Plumb, G.A., 1987
An algorithmic approach to automated vegetation mapping of Big Bend National Park, Texas

Graduate Committee Member for 33 others

M.A.

Jackson, T., in progress
Carbon sequestration and urban land use

Messinger, LG., in progress (2007)
Evolution of sand dunes along the Cimarron River Valley, Morton County, Kansas

Campbell, J.S.(2006)
GIS-based predictive modeling of archaeological material locations in 2-D and 3-D space

Woodburn, T.L., (2006)
Response of the Wakarusa River channel to historic changes in land use and climate

Varner, A.R., 2005
Soil signatures of the Santa Fe Trail in Douglas County and Morton County, Kansas

Sterling, J.L., 1996
 non-thesis track/two research papers

Diekmeyer, E.C., 1995
Characterizations and paleoclimatic inferences from the post-Illinoian stratigraphic sequences at two central Great Plains sites

Kerr, M.M., 1994
 non-thesis track/two research papers

Arbogast, A.F., 1991
Late Quaternary evolution of a small basin in the Kansas River system: Wolf Creek

Jaumann, P.J., 1991
Evidence for Late Quaternary boreal environments in the Arkansas River valley, south-central Kansas: theoretical aspects of paleoecology and climatic inferences

Hale, J.M., 1989
 non-thesis track/two research papers

Martin, C.W., 1985
Historic channel change in Medicine Lodge River Basin, Kansas, 1871-1983

Sankey, R.T., 1985
Islands on the Prairie: the flora and avifauna of shelterbelts in Stafford County, Kansas

Winter, M.H., 1984
Altitudinal fluctuations of upper treeline at two sites in the Lemhi Range, Idaho

Hall, B.M., 1984
 non-thesis track/two research papers

Graduate Committee Member for 47 others