

Curriculum Vitae

WILLIAM CHARLES JOHNSON

Professor of Geography
Neogene, Quaternary and Archaeological Geologist

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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* (James Knox, advisor)
- 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

Courtesy Professor	Department of Geology, The University of Kansas	4/10-present
Geoarchaeologist	Center for Environmental Management of Military Lands (CO State U)	3/03-present
Research Associate	Kansas Geological Survey, The University of Kansas	8/06-present
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
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

Curricula

Biogeography	Palynology	Quaternary Stratigraphy
Field Camp	Plant Geography	Research Methods
Field Mapping Methods	Principles of Physical Geography	River Systems
Geomorphology	Late Quaternary Paleoclimatology	Rock Magnetic Analysis
Geoarchaeology	Late Quaternary Environments	Seminar (many topics)

Research Themes

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

Grants

2011-2015

- Extracting the first lacustrine (lake) record of prehistoric drought history in the central Great Plains: The University of Kansas General Research Fund, \$3410, 7/12-6/13.
- Geologic Mapping in Kansas-FY12: U.S. Geological Survey STATEMAP Program, \$293,010, 5/12-4/13.
- Geologic and geomorphic mapping in the middle Kansas River valley, Kansas—An undergraduate EDMAP experience: U.S. Geological Survey EDMAP Program, \$22,793, 5/12-5/13.
- Evaluating the impacts of land use and climate change on playa form and function and effectiveness of grass buffers to mitigate these impacts: Playa Lakes Joint Venture ConocoPhillips Fund, \$12,705, 6/12-5/13 (Bowen and Johnson)
- Oldest sand dunes in the North American Great Plains: The University of Kansas General Research Fund, \$2,000, 7/11-6/12.
- Valley-fill architecture and alluvial landforms within the upper Kansas River: Undergraduate EDMAP experience: U.S. Geological Survey EDMAP Program, \$22,609, 5/11-5/12.
- Geologic Mapping in Kansas-FY11: U.S. Geological Survey STATEMAP Program, \$216,325, 5/11-4/12.
- FY10 Funding for University of Kansas Research and Educational Support for U.S. Army Programs and Initiatives at Fort Leavenworth, Kansas: U.S. Army Research Office, \$1,940,000, 1/1/11-12/31/12. (Lewis et al.) (Water Resources & Landscape Modeling--\$431,504)

2006-2010

- Field sampling services for National Aquatic Resource Surveys: Central Plains Center for BioAssessment (CPCB): US Environmental Protection Agency, \$73,280 (KU subcontract), 5/11-9/11. (Huggins et al.)
- Evaluating the effect of large-format stereoscopic displays on student learning in introductory college physical geography classes: NSF—OCE Geoscience Education, \$147,759, 9/10-8/12. (Slocum et al.)
- Holocene Megadroughts of the Central Great Plains: NSF Doctoral Dissertation Improvement—Geography and Spatial Sciences Program, \$11,970, 8/10-1/12. (Johnson and Halfen)
- University of Kansas Research and Educational Support for U.S. Army Programs and Initiatives at Fort Leavenworth, Kansas: U.S. Army Research Office, \$1,900,000, 2/10-2/12. (Lewis et al.) (Landscape modeling \$66,000)
- Geologic Mapping in Kansas-FY10: U.S. Geological Survey STATEMAP Program, \$221,100, 5/10-4/11. (Ludvigson et al.)
- Geologic mapping and stratigraphic characterization of alluvial landforms within the Kansas River valley: U.S. Geological Survey EDMAP Program, \$37,389, 5/10-4/11.
- Mapping dune morphology, age, and mineral-grain trends in the Great Bend Sand Prairie of south-central Kansas: U.S. Geological Survey EDMAP Program, \$22,202, 5/09-4/10.
- Geologic Mapping in Kansas for FY09: U.S. Geological Survey STATEMAP Program, \$198,628, 5/09-4/10. (Ludvigson et al.)
- Mapping surface geology in Republic County, Kansas (Year 2): U.S. Geological Survey EDMAP Program, \$20,493, 5/08-4/09.
- Ceramic Geography and Social Formation of the Smoky Hill Phase, east-central Kansas: NSF-Anthropology, \$133,000, 6/08-5/10. (Adair et al.)
- Geologic Mapping in Kansas-FY08: U.S. Geological Survey STATEMAP Program, \$206,164, 5/08-4/09. (Ludvigson et al.)
- Database development: Playa basin occurrence on the High Plains of Kansas: Kansas GIS Policy Board, 33,904, 8/07-6/08.
- Undergraduate Research Assistantship Fund: The University of Kansas Center For Research, \$2500, 7/07-8/07.
- Timing and Environment of the Last Interglacial Period in the Central North American Continent: The University of Kansas General Research Fund, \$5,000, 7/07-6/08.
- Mapping surface geology in Doniphan County, Kansas (Year 1): U.S. Geological Survey EDMAP Program, \$22,250, 5/07-4/08.
- Geologic mapping in Reno County, McPherson County, Dickinson County, Miami County, and Morris County, Kansas: U.S. Geological Survey STATEMAP Program, \$153,798, 5/07-4/08. (Ludvigson et al.)
- 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, 10/06-12/11. (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, \$98,698, 5/06-4/07. (McCauley et al.)

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, \$82,288, 5/05-4/06. (McCauley et al.)

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, \$107,951, 5/04-4/05. (McCauley et al.)

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, \$106,123, 5/03-4/04. (McCauley et al.)

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, 5/02-4/03. (Brady et al.)

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, \$172,254, 5/01-4/02. (Brady et al.)

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, 5/99-8/9
 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 et al.)
 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 et al.)
 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, \$61,000. (Brady et al.)
 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, \$70,000. (Brady et al.)

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, \$64,385. (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 et al.)
 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. et al.)
- 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

2006-2012

- Activation history and geoarchaeology of the Tanana River Lowlands dunes, central Alaska: Center for Management of Military Lands (Colorado State University), \$12,400, 7/10-6/11.
- Geomorphology and environmental reconstruction at the Donnelly Training Area archaeological sites, Fort Greely, Alaska: U.S. Army & Center for Management of Military Lands (Colorado State University), \$20,000, 7/09-6/10.
- Geoarchaeology of the McCormick Road Area of the Republican River Valley, Fort Riley, Kansas: U.S. Army & Center for Management of Military Lands (Colorado State University), \$6,850, 1/09-12/09.
- Geoarchaeology of XMH 874: Donnelly Training Area, Alaska: U.S. Army & Center for Management of Military Lands (Colorado State University), \$10,000, 5/07-4/08.
- Geoarchaeology of buried Paleoindian sites (14RY6175 & 6176), Fort Riley, Kansas: U.S. Army & Center for Management of Military Lands (Colorado State University), \$17,000, 3/06-12/06.

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, 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.)

Journal Articles and Notes

2001 to Present

Halfen, A.F., Johnson, W.C., Hanson, P.R., Spencer, J.Q.G., Young, A.R., n.d., Dune activation during MIS 3 in the central Great Plains: **Geology** (in preparation)

Hirmas, D.R., Slocum, T.A., Halfen, A.F., White, T., Zautner, E., Atchley, P., Liu, H., Johnson, W.C., Egbert, S., McDermott, D., n.d., Effects of seating location and stereoscopic display on learner outcomes in an introductory physical geography class: **Computers and Education** (in review)

Knox, J.C., Fitzpatrick, F.A., Johnson, W.C., n.d., Channel erosion and deposition responses to land-use change, climate and floods, Driftless Area, Wisconsin: **Geology** (in review)

Haflen, A.F., Johnson, W.C., n.d., A Review of Late Quaternary dunefield chronologies in the North American Great Plains: **Aeolian Research** (accepted)

Halfen, A.F., Johnson, W.C., Hanson, P.R., Woodburn, T.L., Spencer, J.Q.G., Ludvigson, G., Young, A.R., 2012, Activation history of the Hutchinson dunes in east-central Kansas, U.S.A. during the past 2200 years: **Aeolian Research** 5: 9-20

Johnson, W.C., Bozarth, S.R., Gaines, E.P., 2011, 12,000 years of environmental change archived on morainal ridges in central Alaska: **Current Research in the Pleistocene** 28: 143-145

Gaines, E.P., Yeske, K.S., Shirar, S.J., Johnson, W.C., Kunesh, J.F., 2011, Pleistocene archaeology of the Tanana Flats, Eastern Beringia: **Current Research in the Pleistocene** 28: 42-44

Bowen, M.W., and Johnson, W.C., 2011, Lunette distribution on the High Plains of Kansas—A guide to seeking Paleoindian Sites: **Current Research in the Pleistocene** 28: 129-131

Bowen, M.W., and Johnson, W.C., 2011, Late-Quaternary environmental reconstructions throughout playa-lunette system evolution on the Central High Plains of Kansas, United States: **Geological Society of America Bulletin** (doi:10.1130/B30382.1)

Cordova, C.E., Johnson, W.C., Mandel, R.D., Palmer, M.W., 2010, Late Quaternary environmental change inferred from phytoliths and other soil-related proxies: case studies from the central and southern Great Plains: **Catena** 85: 87-108.

Bowen, M.W., Johnson, W.C., Egbert, S.L., and Klopfenstein, S.T., 2010, A GIS-based approach to identify and map playa wetlands on the High Plains, Kansas, USA: **Wetlands** 30: 675-684.

Wu, S., Zhou, S., Li, X., Johnson, W.C., Zhang, H., and Shi, J-F., 2010, Heavy metal accumulation trends in Yixing, China—an area of rapid economic development: **Environmental Earth Sciences** 61: 79-86.

Hanson, P.R., Arbogast, A.F., Johnson, W.C., Joeckel, R.M., Young, A.R., 2010, Megadroughts and late Holocene Dune activation at the eastern margin of the Great Plains, north-central Kansas: **Aeolian Research** 1:101-110

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2004

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- Johnson, W.C.*, and Macpherson, G., Topographic variation in biochemical signatures within soils of the Konza Tall-Grass Prairie LTER site, Kansas: Association of American Geographers, Philadelphia, March 2004.
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2003

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- Campbell, J.S., and *Johnson, W.C.*, Geoarchaeological survey of Kirwin National Wildlife Refuge, Northwestern Kansas: A GIS Model: Plains Conference: Geological Society of America, Denver, October, 2002.

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Johnson, W.C., Willey, K.L., and Bozarth, S.R., Landscape evolution and the potential for preservation of the cultural record on Fort Riley, Northeast Kansas: Flint Hills Archaeological Society, Manhattan, April 2002.

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Johnson, W.C., Application of Rock Magnetic Analyses to Geoarchaeology: Society for American Archaeology, New Orleans, April, 2001.

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Willey, K.L., *Johnson, W.C.*, and McLaughlin, C.J., Late Quaternary landscape evolution and the potential for preservation of the cultural record at Fort Riley, Kansas: Geological Society of America, Reno, October, 2000.

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Johnson, W.C., and Willey, K.L., Buried soil distribution and age on the Fort Riley military reservation, northeastern Kansas: Kansas Association of Professional Soil Classifiers, Manhattan (KS), April, 2000.

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1999

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1998

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

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1997

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1996

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1995

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Homburg, J., and Johnson, W.C., Landscape Evolution in Relation to Basketmaker III Occupation of the Lukachukai Valley: Society for American Archaeology, New Orleans, April 1991.

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Nettleton, D., et al., 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.

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Johnson, W.C., Potential for Site Archaeological Burial in Eolian and Alluvial Deposits in Kansas: Flint Hills Archaeological Conference, Kansas City, March, 1990.

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1985-1989

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Johnson, W.C., and C.W. Martin) Holocene Alluvial History of Lukachukai Creek and Prehistoric Cultural Associations: Geological Society of America, St. Louis, November, 1989.

Johnson, W.C., Extinct Megafaunal Finds in Kansas: Their Geomorphic, Paleoenvironmental, and Cultural Implications: South-Central Meeting, Geological Society of America, Arlington (TX), March, 1989.

Johnson, W.C., Late-Quaternary Geomorphic History and Environments of the Kansas River Drainage, Central Plains: special session (organizer), Association of American Geographers, Baltimore, March, 1989.

Johnson, W.C., Stratigraphic and Cultural Resolution of the Altithermal in the Central Great Plains: Geological Society of America, Denver, October-November, 1988.

Johnson, W.C., Historic Changes in the Arkansas and Cimarron River Systems of the Central Plains: Institute for Tertiary and Quaternary Studies, Lincoln (NE), October, 1988.

Johnson, W.C., and Dort, W., Jr., Paleochannels of the Arkansas River, Western Kansas, and Hydrologic Implications: Association of American Geographers, Phoenix, April, 1988

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Dort, W., Jr., Martin, L.D., and *Johnson, W.C.*, Late-Glacial Fauna and Flora of the Central Great Plains: International Union for Quaternary Research (INQUA), Ottawa, August, 1987.

Johnson, W.C., Hydrologic Assessment of Cheyenne Bottoms: American Geophysical Union (AGU), Baltimore, May, 1987.

Johnson, W.C., Holocene Patterns of Alluvial Stability within the Kansas River System: Association of American Geographers, Portland, April, 1987.

Jaumann, P.J., Fredlund, G.G., and *Johnson, W.C.*, Late Wisconsinan Paleoeology of South-Central Kansas: The Arkansas River Valley at Wichita: Kansas Academy of Science, Emporia, April, 1986.

Johnson, W.C., and Dort, W., Jr., Post Glacial History of the Kansas River System: Kansas Academy of Science, Emporia, April, 1986

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Jaumann, P.J., *Johnson, W.C.*, and Fredlund, G.G., Late Wisconsin Full-Glacial Vegetation Record from South-Central Kansas: Institute for Tertiary and Quaternary Studies, Lawrence, October, 1985.

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Johnson, W.C., 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.

Dort, W., Jr., *Johnson, W.C.*, Fredlund, G.G., Rogers, R.A., Martin, L.D., Stewart, J.D., and Wells, P.F., Evidence for an Open Conifer Woodland in the Central Great Plains During the Late Wisconsinan Glacial Maximum: Canadian Quaternary Association, Lethbridge (Alberta), August, 1985.

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1980-1984

- Johnson, W.C.*, and Martin, C.W., 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.
- Fredlund, G.G., *Johnson, W.C.*, and Dort, W., Jr., Evidence for Late Wisconsinan Sagebrush Steppe on the Northwestern Great Plains: Institute for Tertiary and Quaternary Studies, Dallas, October, 1984.
- Johnson, W.C.*, and Fredlund, G.G., Two Holocene Pollen Records From the Southeastern Pine Forest in the Florida Panhandle: American Association of Stratigraphic Palynologists, October, 1984.
- Fredlund, G.G., *Johnson, W.C.*, and Dort, W., Jr., A 620,000-year Opal Phytolith Record from the Central Nebraskan Loess: First Phytolith Research Workshop, Raleigh, May, 1984.
- Fredlund, G.G. and *Johnson, W.C.*, Problems in the Simultaneous Extraction of Pollen and Phytoliths: First Phytolith Research Workshop, Raleigh, May, 1984.
- Johnson, W.C.*, Spores as Paleoenvironmental Indicators: An Archaeological Example: special session (organizer) Association of American Geographers, Washington, D.C., April, 1984.
- Johnson, W.C.*, L.D. Martin, W. Dort, Jr., C.J. Sorenson, R.A. Rogers, G.G. Fredlund, and J.D. Stewart) 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
- Fredlund, G.G., *Johnson, W.C.*, and Dort, W., Jr.) A Preliminary Analysis of Pollen and Phytoliths from the Eustis Pit, Frontier County, Nebraska: Institute for Tertiary and Quaternary Studies, Lincoln, October, 1983.
- Johnson, W.C.*, Soil-Geomorphologic Relationships and Prehispanic Land Use Patterns in Northern Belize: Association of American Geographers, Denver, April, 1983.
- Johnson, W.C.*, and K. Rice) 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
- Johnson, W.C.* and Fredlund, G.G., 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.
- Johnson, W.C.*, A dendrochronological Study of *Pinus oocarpa* Shiede in Western Honduras: Association of American Geographers, San Antonio, April, 1982.
- Johnson, W.C.*, 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)
- Dort, W., Jr. and *Johnson, W.C.*, Diversity of Channel Patterns, Kansas River: Geological Society of America - North Central Section, Ames, April, 1981.
- Johnson, W.C.*, Geomorphologic and Archaeologic Evidence of Late Holocene Stream System Change in the Central Plains: Association of American Geographers, Los Angeles, April, 1981.
- Johnson, W.C.*, Cultural Response to River Change: the Ancient Maya of Copan Honduras: Association of American Geographers, Louisville, April, 1980.
- Johnson, W.C.*, The Use of Geomorphologic Techniques in Paleoenvironmental Reconstruction: Flint Hills/Osage Hills Archaeological Conference, Lawrence, Kansas, March, 1980.

Pre-1980

- Johnson, W.C.*, 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.
- Johnson, W.C.*, Historical Trends in Sediment Movement Within Stream Systems of the Midwestern United States: Second Annual Applied Geographers Conference, Binghamton (NY), September, 1979.
- Sorenson, C.J., *Johnson, W.C.*, and Davis, A.M., Evidence for Holocene Bioclimatic Stability Northern Labrador/Quebec: Eighth Annual Eastern Canadian Arctic Workshop, Institute for Arctic and Alpine Research, Boulder, May, 1979.
- Johnson, W.C.*, Accelerated Erosion and Sedimentation During the Ancient Maya and Modern Periods: Association of American Geographers, Philadelphia, April, 1979.
- Johnson, W.C.*, Contemporary Patterns of Interaction Among Fluvial Variables Within Mid-Western Stream Systems: Association of American Geographers, New Orleans, April, 1978.
- Johnson, W.C.*, Holocene-Age Paleosols Within Valley Alluvium of Southwestern Wisconsin: Association of American Geographers, Salt Lake City, April, 1977.
- Johnson, W.C.*, Stream Channel and Flood plain Response to Historical Changes in Land Use: Western Social Science Association, Denver, April, 1977.
- Johnson, W.C.*, Thresholds in Fluvial Systems and Holocene Climatic Variations: special sessions in geomorphic

thresholds, Association of American Geographers, New York, April, 1976.
 Hesler, J.L., and *Johnson, W.C.*, 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

Educational Materials

Johnson, W.C., and Woodburn, T.L., 2008, Image collection from the Smoky Hills and High Plains of Kansas: Kansas Geological Survey Educational Resources—Photographic Library.
Johnson, W.C., and Jackson, T., 2008 ed., *Laboratory Exercises: Physical Geography 105*, Kendall-Hunt Publisher.
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Johnson, W.C., 1990, 1992, 1995, 1997, 2001, 2002, 2003 ed., *Laboratory Exercises: Physical Geography 105*, produced by The University of Kansas Division of Continuing Education.
 Martin, C.W., and *Johnson, W.C.*, 1988, 1995, 1998 eds., *Geography 104 - Principles of Physical Geography*, University of Kansas Continuing Education course workbook and materials

Continuing Education

Site/Structure Scanning Workshop and Related Positioning: Society for American Archaeology Workshop, Memphis, 04/12.
 Teaching about Earth's Climate History-A workshop for geoscience faculty: Geological Society of America Short Course, Minneapolis, 2011.
 Terrestrial Laser Scanning (Ground-based LiDAR) methods and applications in geologic research and education: Geological Society of America Short Course, Denver, 2010.
 SEPM Short Course Number 15: Recognizing continental trace fossils in outcrop and core: Geological Society of America Short Course, Lawrence, KS, 4/07.
 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

Service Activities

Profession

Associate Editor for <i>Aeolian Research</i>	2012-
Panel member, USGS EDMAP Program	2006-2010
Newsletter editor and web page manager, Geological Society of America- Quaternary Geology and Geomorphology Division	1999-2003
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, Geological Society of America-Archaeological Geology Division Geological Society of America	1996-2001

Webmaster and Newsletter editor, Geological Society of America- Archaeological Geology Division, Geological Society of America	1996-2001
Archaeological Geology Division Awards Committee (chair)	1991-1994
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	1991-1994
Nomination Committee for R. Rapp Award, Geological Society of America	1991-1994
Panel member, 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

Department

Curriculum Committee
Colloquium Planner
Undergraduate Advisor
Honors Coordinator
Study Abroad Advisor
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

Disciplinary Board
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

Current Research in Earth Sciences (Kansas Geological Survey)-advisory board member
Staff Search Committees—Kansas Geological Survey (4)
School of Education Reaccreditation Committee (member)
Environmental Studies Advisory Board (member)
Summer Orientation Advisement

Awards and Recognition

Steeple Service to Kansans Award	2012
Bryon A. Alexander Graduate Mentor Award	2008
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)
NDEA IV Fellowship (U Wisconsin)

1977
1971-72

Professional Affiliations

American Chemical Society
(Geochemistry Group)
American Geophysical Union
American Quaternary Association
Kansas Soil Classifiers Association
Association of American Geographers

Geological Society of America
(Archaeological Geology Division)
(Quaternary Geology and
Geomorphology Division)
Society for American Archaeology
Sigma Xi

05/2012