

**TABLE OF CONTENTS**

<b>PERSONAL DATA .....</b>	<b>2</b>
<b>CURRENT POSITION .....</b>	<b>2</b>
<b>EDUCATION .....</b>	<b>2</b>
<b>ACADEMIC AWARDS .....</b>	<b>2</b>
<b>HONORS .....</b>	<b>3</b>
<b>PROFESSIONAL MEMBERSHIPS .....</b>	<b>3</b>
<b>TEACHING AND RESEARCH INTERESTS .....</b>	<b>3</b>
<b>SPECIALIZED TRAINING IN FIELDS OF INTEREST .....</b>	<b>4</b>
<b>TEACHING EXPERIENCE.....</b>	<b>4</b>
<b>GRADUATE THESIS/DISSERTATION COMMITTEES .....</b>	<b>5</b>
<b>SUPERVISOR FOR POST-DOCTORAL RESEARCH ASSOCIATES.....</b>	<b>7</b>
<b>PROFESSIONAL EXPERIENCE: GRANTS AND RESEARCH PROJECTS .....</b>	<b>7</b>
<b>EDITORSHIPS .....</b>	<b>19</b>
<b>BOOKS .....</b>	<b>19</b>
<b>PUBLICATIONS .....</b>	<b>19</b>
<b>BOOK REVIEWS.....</b>	<b>28</b>
<b>TECHNICAL REPORTS .....</b>	<b>29</b>
<b>GEOLOGIC MAPS .....</b>	<b>46</b>
<b>INVITED LECTURES.....</b>	<b>47</b>
<b>PAPERS PRESENTED AT PROFESSIONAL MEETINGS (PUBLISHED ABSTRACTS) .....</b>	<b>51</b>
<b>SERVICE.....</b>	<b>70</b>
<b>SERVICE INSIDE THE UNIVERSITY.....</b>	<b>70</b>
<b>SERVICE OUTSIDE THE UNIVERSITY .....</b>	<b>71</b>
<b>MANUSCRIPT REVIEWER .....</b>	<b>76</b>
<b>GRANT PROPOSAL REVIEWS .....</b>	<b>76</b>
<b>REFERENCES .....</b>	<b>76</b>

## **CURRICULUM VITAE**

**ROLFE DAVID MANDEL**

June 2014

### **PERSONAL DATA**

Office:

Kansas Geological Survey  
1930 Constant Ave., University of Kansas  
Lawrence, Kansas 66047-3724  
Tel.: (785) 864-2171; E-mail: mandel@kgs.ku.edu

### **CURRENT POSITION**

Senior Scientist and Executive Director, Odyssey Research Program  
Kansas Geological Survey  
University of Kansas

University Distinguished Professor, Department of Anthropology  
University of Kansas

### **EDUCATION**

Ph.D. University of Kansas, 1991, Special Studies Quaternary Research Program; Dissertation:  
*Holocene Landscape Evolution in the Pawnee River Basin, Southwestern Kansas*  
Chair of Dissertation Committee: Dr. Wakefield Dort, Jr., Geology Department

M.A. University of Kansas, 1980, Geography; Thesis: *Climatic and Vegetative Change Inferred  
from Alluvial Paleosols in Central and South-Central Texas*  
Chair of Thesis Committee: Dr. Curtis Sorenson

B.A. University of Texas at Austin, 1975, Geography

### **ACADEMIC AWARDS**

Ph.D. with Honors, University of Kansas, 1991  
B.A. with Honors, University of Texas at Austin, 1975

## HONORS

Selected as University Distinguished Professor by the Provost, University of Kansas, June 8, 2014.

Recipient of the 2012 Kansas Board of Regents' Higuchi/Irvin E. Youngberg Award for Applied Sciences Research.

Appointed Chair of the U.S. National Committee, International Union for Quaternary Research (INQUA), The National Academy of Sciences, 2011-2015.

Recipient of the 2011 KU Center for Teaching Excellence Award. For this award, graduate students select a professor whose teaching has had a major and beneficial impact on them.

Recipient of the 2010 Geological Society of America Quaternary Geology and Geomorphology Division's *Kirk Bryan Award for Excellence*, given in recognition of the following publication: Mandel, R.D., 2008, Buried Paleoindian-age Landscapes in Stream Valleys of the Central Plains, USA. *Geomorphology* 101:342-361.

Recipient of the University of Kansas College of Liberal Arts and Sciences 2009 John C. Wright Graduate Mentor Award

Elected President of the American Quaternary Association (AMQUA), 2007-2010

Fellow, Geological Society of America, 2003

Recipient of the 2003 Geological Society of America Archaeological Geology Division's *George Rapp Distinguished Career Award in Archaeological Geology*

Elected to the Council of the American Quaternary Association (AMQUA), 2002-2006 (Representing Archaeology and Geoarchaeology)

Kansas Academy of Science Distinguished Lecturer, 2000-2003

Elected to Full Membership, *Sigma Xi*, 1995

## PROFESSIONAL MEMBERSHIPS

Geological Society of America

American Quaternary Association

Society for American Archaeology

Sigma Xi

American Association for the Advancement  
of Science

Plains Anthropological Society

Kansas Academy of Science

Kansas Anthropological Association

Kansas Association of Professional Soil  
Classifiers

## TEACHING AND RESEARCH INTERESTS

Primary: Geoarchaeology

Geomorphology

Quaternary Soils

Paleoenvironmental Reconstruction

Secondary: Environmental Geology

Natural Resources

## SPECIALIZED TRAINING IN FIELDS OF INTEREST

Geoarchaeology  
Quaternary Geology  
Geomorphology and Soils  
Fluvial Processes

Paleoenvironmental Reconstruction  
Environmental Geology  
Physical Geology  
Quaternary Paleontology

## TEACHING EXPERIENCE

Professor, Department of Anthropology, University of Kansas, May 1, 2009-Present.  
Associate Professor, Department of Anthropology, University of Kansas, May 1, 2003-April 30, 2009. Courses taught are as follows:

**Anthropology 517/Geography 532, *Geoarchaeology*:** An upper-division course focusing on natural processes creating the archaeological record, and stratigraphic, geochemical, isotopic, and geophysical approaches to reconstructing landscapes of the past as a context for archaeological deposits.

**Anthropology 500/Geology 591, *Field Concepts and Methods in Geoarchaeology*:** An upper-division summer course focusing on the application of geoscientific concepts and methods in archaeological field investigations. Emphasis is placed soil-stratigraphic and geophysical approaches to landscape and site investigations.

**Anthropology 848. Seminar in Geoarchaeology.** A seminar focusing on recent geoarchaeological research throughout the world. Students are required to evaluate selective literature.

Adjunct Assistant Professor in the Department of Geography, University of Kansas, 1994-2002. Courses taught are as follows:

**Geography 614, *Field Experience in Geomorphology*,** University of Kansas Field Station in Canon City, Colorado.

Assistant Professor in Geography-Geology Department, University of Nebraska-Omaha, Fall, 1989-Spring, 1993. Courses taught are as follows:

**Geography 103, *Introduction to Earth and Environmental Science*** (same as Geography 104 described above).

**Geography 106, *Introduction Physical Geography*:** Climate and Soils.

**Geography 107, *Introduction Physical Geography*:** Soils and Landforms.

**Geography 250, *Special Topics in Geography*:** A field course that has included travel to western Nebraska, central Texas, and Big Bend National Park to examine soils, landforms, and other aspects of the physical environment.

**Geography 850, *Seminar in Geomorphology*:** A graduate seminar focusing on Quaternary geomorphology, stratigraphy, and geoarchaeology.

**Geography 858, *Soils*:** A graduate-level seminar focusing on soil genesis, morphology, and classification.

**Geography 433/833, *Soil Genesis, Morphology and Classification*:** An upper-division/graduate course focusing on the physical and chemical properties of soils.

**Geography 410/810, *Biogeography*:** An upper-division/graduate course focusing on distribution patterns of plants and animals in space and time.

**Geography 425/825, *Landform Studies I*:** An upper-division/graduate course focusing

on geomorphic processes and landform types.

**Geography 851, *Advanced Geomorphology*:** A graduate level seminar focusing on earth-surface processes and quantitative methods in geomorphology.

Lecturer in Geography-Meteorology Department, University of Kansas, Summer, 1982;  
Spring 1982; January, 1984-May, 1984; August 1987-May 1988.

**Geography 104, *Principles of Physical Geography*:** Lecture course familiarizing students with the spatial distribution and significance of important geographic phenomena, such as climate, water resources, soils, and landforms.

Lecturer in Geography-Meteorology Department, University of Kansas, Summer, 1981.

**Geography 614, *Field Experience*:** Directed graduate students in the use of field methods. The course was conducted at the University of Kansas Field School in Canon City, Colorado.

## GRADUATE THESIS/DISSERTATION COMMITTEES

Currently serving on thesis and dissertation committees at the University of Kansas for the following students:

Committee Member for Shannon Ryan, Department of Anthropology (Ph.D.)  
Committee Member for Emily Williams, Department of Anthropology (Ph.D.)  
Committee Member for Alison Hadley, Department of Anthropology (Ph.D.)  
Committee Member for Brendon Asher, Department of Anthropology (Ph.D.)  
Committee Member for Antoinette (Ann) Egitto, Department of Anthropology (Ph.D.)  
Committee Member for Steven Keehner, Department of Anthropology (M.A.)  
Advisor/Committee Chair for Laura Murphy, Department of Anthropology (Ph.D.)  
Advisor/Committee Chair for Tim Griffith, Department of Anthropology (Ph.D.)  
Advisor/Committee Chair for Andrew Gottsfield, Department of Anthropology (Ph.D.)  
Advisor/Committee Chair for Anna Wieser, Department of Anthropology (Ph.D.)  
Advisor/Committee Chair for Kale Bruner, Department of Anthropology (Ph.D.)  
Advisor/Committee Chair for Tony Layzell, Department of Geography (Ph.D.)  
Advisor/Committee Chair for Blair Benson Schneider, Department of Geology (Ph.D.)  
Advisor/Committee Chair for Kevin Fenyak, Department of Anthropology (M.A.)

Served on dissertation committees at the University of Kansas for the following students:

Steven R. Holen, Department of Anthropology, Completed in 2001  
Jeremy Dillon, Department of Geography, Completed in 2003  
Virginia Hatfield, Department of Anthropology, Completed in 2006  
Chris Widga, Department of Anthropology, Completed in 2006  
Mark Zlojutro, Department of Anthropology, Completed in 2008  
Lillian Rebellato, Department of Geography, Completed in 2011  
Trish Jackson, Department of Geography, Completed in 2011  
Anne Egitto, Department of Anthropology, Completed in 2014

Advisor and committee chair for the following dissertation at the University of Kansas:

Jared Beeton, Department of Geography, Completed in 2007.

Dissertation title: *Late Quaternary Landscape Evolution and Geoarchaeology in the Cottonwood River Basin, Flint Hills, Kansas.*

Erin Dempsey, Department of Anthropology, Completed in 2012.

Dissertation Title: *Geoarchaeology of the Pleistocene-Holocene Transition in the Current River Valley, Ozark National Scenic Riverways, Southeast Missouri.*

Co-Advisor and co-chair: Ashley Zung, Department of Geography, Completed in 2013.

Dissertation Title: *Reconstructing Climate on the Great Plains from Buried Soils: A Quantitative Approach.*

Advisor and committee chair for the following Master's thesis at the University of Kansas:

Laura R. Murphy, Department of Anthropology, Completed in 2008.

Thesis title: *Geoarchaeology of the Burntwood Creek Rockshelter (14RW418), Northwest Kansas.*

Arlo M. McKee, Department of Anthropology, Completed in 2009.

Thesis title: *The Application of Ground Penetrating Radar at the Kanorado Locality, Northwest Kansas.*

Andrew S. Gottsfield, Department of Anthropology, Completed in 2009.

Thesis title: *Late-Quaternary Stratigraphy and Geoarchaeology of the Upper Neosho River Basin, East-Central Kansas.*

Nicholas V. Kessler, Department of Anthropology, Completed in 2010 Archaeology,  
Thesis title: *Late-Quaternary Landscape Evolution, and Environmental Change in the Upper Driftwood Creek Basin, Barber County, Kansas.*

Blair Benson Schneider, Department of Geology, Completed in 2012.

Thesis title: *Geophysical Investigations of the Mound City Borrow Pits, Ross County, Ohio*

Kristopher West, Department of Anthropology, Completed in 2013.

Thesis title: *An Assessment of a Soil-Based Predictive Model for Locating Buried Paleoindian-Age Cultural Deposits in Draws on the High Plains of Eastern Colorado and Western Kansas*

Advisor and committee chair for the following non-thesis Master's at the University of Kansas:

Patrick Green, Department of Anthropology, Completed in 2012

Daniel Keating, Department of Anthropology, Completed in 2012

Garrett Welch, Department of Anthropology, Completed in 2012

Advisor and committee chair for the following senior honors thesis at the University of Kansas:

Kyle Gorynski, Department of Geology, Completed in 2008.

Thesis title: *Bioclimatic Change Inferred from the Evolution of a Late-Quaternary*

## *Alluvial Fan in Western Kansas*

Served as an external member of a dissertation or master's committee for the following students:  
Elizabeth Robertson, Archaeology Department, University of Calgary, completed in 2006  
Adel E. Haj, Jr., Department of Geology, University of Iowa, Ph.D. completed in 2006  
Cynthia Wambsgans, Geosciences, University of Iowa, M.S. completed in 2006  
DeAnn Presley, Department of Agronomy, Kansas State University, Ph.D. completed in 2007.

Served on Master's thesis committees at the University of Kansas for the following students:  
Joseph D. Terry, Department of Geography, completed in 1996  
James Schneider, Department of Geography, completed in 2002  
Bruce Evans, Department of Geography, completed in 2003  
David Unruh, Department of Anthropology, completed in 2008  
Kale Bruner, Department of Anthropology, completed in 2009  
Janice McLean, Department of Anthropology, completed in 2010  
Ryan Johnson, Department of Anthropology, completed in 2013

Chaired the following Master's thesis committees at the University of Nebraska-Omaha  
Raymond P. Latimer, Department of Geography and Geology, completed in 1990. Thesis title: *Holocene Climatic Change in the Central United States Inferred from Paleoecological Data*

Jeremy S. Dillon, Department of Geography and Geology, completed in 1992. Thesis title: *Holocene Alluvial Stratigraphy and Landscape Development in Honey Creek Basin, Nemaha County, Nebraska.*

Iona Meyer, Department of Geography and Geology, completed in 1992. Thesis title: *Gully Development in the Upper Delaware River Basin, Northeastern Kansas.*

## **SUPERVISOR FOR POST-DOCTORAL RESEARCH ASSOCIATES**

Supervised the following Post-Doctoral Research Associates at the Kansas Geological Survey:  
Dr. Adel Haj, September 1, 2006- August 1, 2007  
Dr. Jon J. Smith, September 1, 2007-2009

## **PROFESSIONAL EXPERIENCE: GRANTS AND RESEARCH PROJECTS**

### **June 1, 2009-Present**

Senior Scientist and Executive Director of the Odyssey Geoarchaeological Research Program, Kansas Geological Survey, University of Kansas; Professor, Department of Anthropology, University of Kansas.

Major research projects are as follows:

1. An Assessment of the Erodibility of Holocene Alluvial Fills in the Valleys of Streams in the Watersheds of Banner Creek Lake, Centralia Lake, and Atchison County Lake. The field

investigation was completed in December 2012 and the project will be completed in March 2013. **Rolfe D. Mandel (PI)**. Funding source: USGS/Kansas Water Resources Institute/Kansas Water Office. Amount awarded to KGS: \$10,000

2. Collaborative Research: Stabilized Organic Carbon and Paleoenvironmental Interpretations of Late Quaternary Paleosols. The field investigation began in May 2012 and the project will continue through the end of 2015. The research team includes Michael L Thompson (PI), **Rolfe D. Mandel (Co-PI)**, Alan D Wanamaker Jr. (Co-PI), E. Arthur Bettis III (Co-PI), and Jingdong Mao (Co-PI). Funding source: National Science Foundation (NSF). The total award is \$305,897. Amount awarded to the KGS: \$13,647
3. Multidisciplinary Research at *Ais Yorkis*, a Pre-Pottery Neolithic Site in Cyprus. Conducting geoarchaeological investigations at Ais Yorkis, a Pre-Pottery Neolithic site in southern Cyprus. Dr. Alan Simmons (University of Nevada at Las Vegas) is the project director, and the research is supported by grants from the National Science Foundation (NSF), the National Geographic Society, and the Wenner-Gren Foundation. All awards were made in 2012. **Rolfe D. Mandel** is the leading the geoarchaeological and paleoenvironmental investigations at the site. The project is ongoing.
4. Geoarchaeological investigation of the Canadian River basin, Northern Texas Panhandle. The field investigation was initiated on June 7, 2008 and is ongoing. **Rolfe D. Mandel (PI)**. The research is supported by an endowment from the Harold Courson family. Amount awarded to the KGS: \$15,000
5. Supervised the following Odyssey Projects (Endowed KGS Research Program):
  - (1) Test Excavations at the Alley Spring site (23SH159): A Stratified Dalton site in the Ozark National Scenic Waterway, Southeastern Missouri
  - (2) Test Excavations at Branson Cave, Ozark National Scenic Waterway, Southeastern Missouri
  - (3) Test Excavations at Rattlesnake and Lower Dugout Springs, Western Nebraska
  - (4) Geoarchaeological Survey in Blue Creek Valley, Western Nebraska
  - (5) Survey of buried Paleoindian landscapes in draws in Beaver Creek basin, northwestern Kansas
  - (6) Investigation of the stratigraphy and  $^{14}\text{C}$  chronology of fossil-bearing Wisconsinan alluvium and loess exposed in sections on the north shore of Lovewell Lake, North-Central Kansas
  - (7) Investigation of the soil stratigraphy,  $^{14}\text{C}$  chronology, and geoarchaeology of Late-Quaternary terrace fills in the Upper Neosho River Valley, East-Central Kansas
  - (8) Geoarchaeological Testing of the Ray Long Site, Black Hills, South Dakota.
  - (9) Geoarchaeological Testing of the Coffey Site, Northeastern Kansas.
  - (10) Geoarchaeological Testing of the Ehmke Site, Western Kansas.
  - (11) Geoarchaeological Survey and Deep Exploration of the Current River Valley, Ozark National Scenic Riverways, Southeast Missouri
  - (12) Geoarchaeological Testing of the Scheuerman Mammoth Site, Scott County, Western Kansas
  - (13) Test Excavations at the KibRidge-Yampa (KRY) site, Northwestern Colorado



6. Geologic Mapping in Kansas for FFY2013, STATEMAP Program Contract No. G13AC00168. Mapping of surficial geology of four counties in Kansas. The team included G.A. Ludvigson (PI), R.D. Mandel, (Co-PI), K.D. Newell (Co-PI), R.S. Sawin (Co-PI), W.C. Johnson (Co-PI), J.W. Dunham (Co-PI), J.J. Smith (Co-PI), and R. Stotler (Co-PI). Funding source: U.S. Geological Survey. Amount awarded to the KGS: \$108,464.
7. Geologic Mapping in Kansas for FFY2012, STATEMAP Program Contract No. G11AC20263. Mapping the surficial geology of ten counties in Kansas. The team included G.A. Ludvigson, G.A. (PI), J.J. Smith (Co-PI), W.C. Johnson (Co-PI), **R.D. Mandel (Co-PI)**, K.D. Newell (Co-PI), and R.S. Sawin. Funding source: U.S. Geological Survey. Amount awarded to the KGS: \$166,480.
8. Geologic Mapping in Kansas for FFY2011, STATEMAP Program Contract No. G11AC20263. Mapping the surficial geology of ten counties in Kansas. The team included G.A. Ludvigson, G.A. (PI), **R.D. Mandel (Co-PI)**, K.D. Newell (Co-PI), and R.S. Sawin. Funding source: U.S. Geological Survey. Amount awarded to the KGS: \$216,325.
9. Geologic Mapping in Kansas for FFY2010, STATEMAP Program Contract No. G10AC0364. Mapping the surficial geology of ten counties in Kansas. The team included G.A. Ludvigson, G.A. (PI), **R.D. Mandel (Co-PI)**, K.D. Newell (Co-PI), L.W. Dunham (Co-PI), R.S. Sawin, and R.W. Stotler. Funding source: U.S. Geological Survey. Amount awarded to the KGS: \$ 221,092.
10. Geologic Mapping in Kansas for FFY2009, STATEMAP Program Contract No. G09AC00176. Mapping the surficial geology of ten counties in Kansas. The team included G.A. Ludvigson, G.A. (PI), **R.D. Mandel (Co-PI)**, K.D. Newell (Co-PI), and R.S. Sawin. Funding source: U.S. Geological Survey. Amount awarded to the KGS: \$ 198,628.
11. Geoarchaeological investigation of the Coffey Site (14PO1), northeastern Kansas. The field investigation was completed in November 2009, and the final report of investigations was submitted on March 1, 2010. The project was funded by the U.S. Army Corps of Engineers. **Rolfe D. Mandel (PI)**. Amount awarded to the KGS: \$12,300.
12. University of Kansas research and educational support for U.S. Army Programs and Initiatives at Ft. Leavenworth, Kansas – Modeling Cultural Landscapes and Water Resources: A Case Study in Afghanistan. The study was initiated in July 2010 and will continue through 2014. Funding source: U.S. Department of Defense. **Rolfe D. Mandel (PI)**. Amount awarded to KGS: \$800,000
13. Investigating the Earliest Human Occupation of Minnesota: A Geoarchaeological Approach. This project was initiated in July 2010 and completed on June 1, 2011. Funding source: Minnesota Historical Society (subcontract with Augustana College, Sioux Falls, South Dakota). **Rolfe D. Mandel (PI)**. Amount awarded to KGS: \$22,504.
14. An Assessment of the Lithostratigraphy of Holocene Valley Fills in the Valleys of Streams in

the Watersheds of Banner Creek Lake, Centralia Lake, and Atchison County Lake, Kansas. The study was initiated in December 2011 and will continue through 2012. Funding source: U.S. Geological Survey (subcontract with the Kansas Water Resources Institute, Kansas State University). **Rolfe D. Mandel (PI)**. Amount awarded to KGS: \$10,000.

15. Geoarchaeology of the Ozark-St. Francis National Forests, Arkansas. The study was initiated in July 2010 and will continue through 2012. Funding source: U.S. Department of Agriculture, Forest Service. **Rolfe D. Mandel (PI)**. Amount awarded to KGS: \$90,468.
16. Paleoenvironmental reconstruction and geoarchaeological investigation on the edge of the Llano Estacado, Northwest Texas. The field investigation was completed in August 2009 and the laboratory analyses are underway. The project is funded by Texas Tech University. **Rolfe D. Mandel (PI)**. Amount awarded to KGS: \$20,000

#### **April 13, 2003-June 1, 2009**

Associate Scientist and Executive Director of the Odyssey Geoarchaeological Research Program, Kansas Geological Survey, University of Kansas; Associate Professor, Department of Anthropology, University of Kansas.

Major research projects were as follows:

1. Geoarchaeological investigation in support of archaeological testing, Bureau of Indian Affairs Route 4, Crow Creek Indian Reservation, South Dakota. Beginning in 2002 and continuing through 2004, worked with a research team from the Augustana College Archeology Laboratory. Funding source: Bureau of Indian Affairs. **Rolfe D. Mandel (PI)**. Amount awarded to the KGS: \$14,031. The report of investigations was completed in 2006.
2. Geoarchaeological investigation of the Hopeton Earthworks, Hopewell Culture National Historical Park, Ross County, Ohio. In June, 2003, began the first phase of a geoarchaeological investigation at Hopeton Earthworks. The interdisciplinary research team is directed by Dr. Mark Lynott (National Park Service). Funding source: National Park Service. **Rolfe D. Mandel (PI)**. Amount awarded to the KGS: \$32,8100
3. Neolithic Ecological Impacts in Southern Jordan - the Ghwair Project. Conducted geoarchaeological investigations at the Wadi Ghwair Pre-Pottery Neolithic site in southern Jordan. Dr. Alan Simmons (University of Nevada at Las Vegas) was the project director, and the research was supported by grants from the National Science Foundation (NSF) and the National Geographic Society.
4. Multidisciplinary Research at *Ais Yorkis*, a Pre-Pottery Neolithic Site in Cyprus. Conducting geoarchaeological investigations at Ais Yorkis, a Pre-Pottery Neolithic site in southern Cyprus. Dr. Alan Simmons (University of Nevada at Las Vegas) was the project director, and the research is supported by a 2008 grant from the National Science Foundation (NSF).

5. Geomorphological and geoarchaeological investigation of Fox Creek Valley, Tallgrass Prairie National Preserve, Chase County, Kansas. In October of 2004, the first phase of the field investigation was initiated, and the project continued through the summer of 2006. The report of investigations was completed in 2006. Funding source: National Park Service. **Rolfe D. Mandel (PI)**. Amount awarded to the KGS: \$13,426
6. Geoarchaeological reconnaissance of the Overland Pass Pipeline project area in western Kansas. The field investigation was conducted in the spring of 2006 and the report of investigations was completed in 2006. The research was supported by NRG, Inc., through a subcontract with R. Christopher Goodwin & Associates. **Rolfe D. Mandel (PI)**. Amount awarded to the KGS: \$14,383.
7. Geoarchaeological testing of the Overland Pass Pipeline project area in western Kansas. The field investigation was initiated in the summer of 2006 and the report of investigations was completed in 2006. The research was supported by NRG, Inc., through a subcontract with R. Christopher Goodwin & Associates. **Rolfe D. Mandel (PI)**. Amount awarded to the KGS: \$21,737
8. Investigations at the Kanorado Archaeological Locality: Document the First Kansans. Prepared a National Register nomination for the Kanorado Locality in Sherman County, Kansas. The fieldwork and National Register nomination were completed in 2006. The project was supported by a grant from the Historic Preservation Office of the Kansas State Historical Society. **Rolfe D. Mandel (Co-PI)** and Jack Hofman (Co-PI). Amount awarded to the KGS: \$18,151
9. Geoarchaeological investigation of the Texas and Oklahoma portions of the Boardwalk Gulf Crossing Pipeline project area. The final report of investigations was submitted in June 2008. The project was supported by a subcontract with R. Christopher Goodwin & Associates. **Rolfe D. Mandel (PI)**. Amount awarded to the KGS: \$42,400.
10. Geologic Mapping in Kansas for FFY2007, STATEMAP Program Contract No. 07-HQAG-0071. Mapping the surficial geology of ten counties in Kansas. The team included G.A. Ludvigson, G.A. (PI), P.A. Macfarlane (Co-PI), **R.D. Mandel (Co-PI)**, J.R. McCauley (Co-PI), K.D. Newell (Co-PI), and R.S. Sawin. Funding source: U.S. Geological Survey. Amount awarded to the KGS: \$153,798
11. Geologic Mapping in Kansas for FFY2008, STATEMAP Program Contract No. 08-HQAG-0071. Mapping the surficial geology of ten counties in Kansas. The team included G.A. Ludvigson, G.A. (PI), P.A. Macfarlane (Co-PI), **R.D. Mandel (Co-PI)**, K.D. Newell (Co-PI), and R.S. Sawin. Funding source: U.S. Geological Survey. Amount awarded to the KGS: \$202,000
12. Supervised the following Odyssey Projects (Endowed KGS Research Program):
  - (1) Test Excavations at the Kanorado Locality: A late Pleistocene Site in Western Kansas
  - (2) Excavations at the Claussen Site (14WB322), Wabaunsee County, Kansas

- (3) Archaeological Survey of Lower Mill Creek, Wabaunsee County, Kansas
- (4) Archaeological Testing of the Vincent-Donovan Site (14BA308): A Kansas Folsom Locality
- (5) Geoarchaeological Surveys in Stanton and Grant Counties, Southwest Kansas
- (6) Test Excavations at the Brookings Mammoth Site (39BK100), South Dakota
- (7) Test Excavations at the Simshauser Site (14KY102), Southwestern Kansas
- (8) Test Excavations at the Jameson Site (23CN579): A Late Paleoindian site in Southwestern Missouri
- (9) Excavation of Pre-Clovis Deposits at the Big Eddy Site, Western Missouri
- (10) Geoarchaeological Survey of the Cottonwood River valley, Northeastern Kansas
- (11) Geoarchaeological Testing of the Burntwood Creek Rockshelter (14RW418)
- (12) Geoarchaeological Survey of the upper Neosho River Valley, East-Central Kansas
- (13) Geoarchaeological Survey of Driftwood Creek Valley, South-Central Kansas
- (14) Geoarchaeological Survey of Lovewell Lake, North-Central Kansas
- (15) Geoarchaeological Investigation of Draws on the High Plains of Northwestern Kansas
- (16) Geophysical Survey of the Kanorado Locality, Northwestern Kansas

#### **May, 2002-April 13, 2003**

Project Coordinator (half-time), Geoarchaeology Research Program, Kansas Geological Survey; Adjunct Professor, Department of Geography, University of Kansas; and Consulting Geomorphologist.

#### **June 1993--May, 2002**

Adjunct Professor, Department of Geography, University of Kansas, and Consulting Geomorphologist. Major research and consulting projects are as follows:

1. Geomorphology, Quaternary stratigraphy, and geoarchaeology of the Big Blue and Little Blue river valleys, eastern Nebraska. Worked with a research team from the Augustana College Archeology Laboratory. Project funded by the Nebraska State Historical Society. Final report was submitted in 1994.
2. Geomorphology, Quaternary stratigraphy, and geoarchaeology of Logan Creek valley, northeastern Nebraska. Worked with a research team from the Department of Anthropology, University of Nebraska at Lincoln. Project funded by the Nebraska State Historical Society. Field investigation was completed in 1994.
3. Geomorphic and stratigraphic investigation of stream valleys along the Highway 151 Corridor, northeastern Iowa. Working with a research team from the Iowa Office of the State Archaeologist. Project funded by the Iowa Department of Transportation. Final report was submitted in 1993.
4. Geomorphic and stratigraphic investigation of stream valleys along the Avenue of the Saints, southeastern Iowa. Working with a research team from the Iowa Office of the State Archaeologist. Project funded by the Iowa Department of Transportation. Final

report was submitted in 1996.

5. Geomorphology, Quaternary stratigraphy, and geoarchaeology of the Floyd River valley, northwestern Iowa. Worked with a research team from the Archaeology Laboratory, University of South Dakota. Project funded by the Iowa Department of Transportation. Final report was submitted in 1996.
6. Geomorphology and Quaternary stratigraphy of the South Raccoon River valley, Dallas County, Iowa. Worked with a research team from the Iowa Office of the State Archaeologist. Project funded by the Dallas County Conservation Department. Final report was submitted in 1994.
7. Geoarchaeology of Archaic mounds (4,000 - 6,000 B.P.) in northern Louisiana. Worked with Dr. Joe Saunders, Archaeology Laboratory, Northern Louisiana University. Project funded by the National Geographic Society. The investigation was completed in April, 1994.
8. Geomorphic and stratigraphic investigation of late Quaternary landforms along Route 12 between Panther Junction and Rio Grande Village and the Boquillas Canyon Road, Big Bend National Park, Texas. Worked with Tom Alex, Archaeologist, U.S. Department of the Interior, National Park Service. Final report was submitted in 1996.
9. Geomorphology, Quaternary stratigraphy, and geoarchaeology of the Platte River valleys, eastern Nebraska. Worked with a research team from the Augustana College Archeology Laboratory. Project funded by the Nebraska State Historical Society. Final report was submitted in 1995.
10. STATEMAP, Geologic mapping in northeastern Iowa. Mapping Quaternary deposits and surface bedrock in Linn County, Iowa. Project funded by the Iowa Geological Survey Bureau and the U.S. Geological Survey. Field investigation began in November, 1994 and was completed in 1996.
11. Geomorphology, Quaternary stratigraphy, and geoarchaeology of the South Fork Big Nemaha River Valley, southeastern Nebraska. Worked with an interdisciplinary research team at the Nebraska State Museum, University of Nebraska. Project funded by the Nebraska State Historical Society. Final report was submitted in 1996.
12. Geomorphology, Quaternary stratigraphy, and geoarchaeology of Ponka Creek and Keya Paha river valleys, northeastern Nebraska. Worked with an interdisciplinary research team at the Nebraska State Museum, University of Nebraska. Project funded by the Nebraska State Historical Society. Final report was submitted in 1997.
13. Archaeological and Geomorphological investigations at Watson Break: An Archaic Mound Complex in North-Central Louisiana. Worked with Dr. Joe Saunders, Northeast Louisiana State University. Project funded by the National Geographic Society.

14. Geomorphology, Quaternary stratigraphy, and geoarchaeology of Beaver Creek and lower Big Blue River valleys, Nebraska. Worked with a research team from the Augustana College Archeology Laboratory. Project funded by the Nebraska State Historical Society. Final report submitted in 1999.
15. Geoarchaeological investigation of the Movie Draw Rockshelter, Black Hills, South Dakota. Ohio. Worked with an interdisciplinary research team headed by Dr. Frederic Sellet, University of Wisconsin-Madison, through the Journey Museum, Rapid City, South Dakota. The project was funded by the National Science Foundation. Final report submitted in 2005.
16. Geoarchaeological investigation of Big Bend National Park, Southwest Texas. I am currently working with an interdisciplinary team headed by Robert Mallouf (Director, Center for Big Bend Studies, Sul Ross State University) and Tom Alex (National Park Service). This multi-year project involves intensive geomorphological investigations in support of archaeological surveys in Big Bend National Park, and integrating the information into a Geographic Information System. Project funded by the National Park Service.
17. Geomorphology and stratigraphy of the Big Eddy site: A Clovis through Woodland occupation in western Missouri. Working with an interdisciplinary research team directed by Neil Lopinot and Jack Ray, Missouri State University. Project Funded by the U.S. Army Corps of Engineers and the Odyssey Archaeological Research Fund. Reports were submitted in 1998 and 2000.
18. Geomorphological investigations at 'Ain Ghazal: A Neolithic site in Jordan. Currently working with an interdisciplinary research team headed by Dr. Gary Rollefson (Director, 'Ain Ghazal Research Institute). The project is ongoing.
19. Geomorphology and Quaternary stratigraphy of archaeological sites at Eisele's Hill and the McNeal Alluvial Fan, Muscatine County, Iowa. Directed geoarchaeological investigations at four major sites (Early Archaic through late Woodland) in the project area. Project funded by the Iowa Department of Transportation; Funding level: \$51,000. The final report was submitted in 2002.
20. Geomorphological investigation in support of the archaeological survey of the proposed Dacotah Cement land/mineral exchange with the Bureau of Land Management in southwestern Custer County, South Dakota. I am currently working with a research team from the Augustana College Archeology Laboratory. Funding level for the geomorphological investigation: \$20,000. The project is ongoing.
21. Geoarchaeological investigation of the Elkhorn-Platte River Confluence Area, Southeastern Nebraska. Conducting geoarchaeological investigations in support of an archaeological survey of the lower Elkhorn River valley. Project funded by the Nebraska State Historical Society. Final report was submitted in 2002.

22. Geoarchaeological investigation of the Hopeton Earthworks National Historical Park, Ohio. Working with an interdisciplinary research team headed by Dr. Mark Lynot (National Park Service). Project funded by the National Park Service. The project is ongoing.
23. Stratigraphy and Geochronology of Late Quaternary Deposits in Kansas: Implications for Archaeological Research. Principal Investigator and Project Director. This eight-year project is an intensive subsurface investigation of Quaternary landform-sediment assemblages throughout Kansas. The objectives of the project are to (1) determine the temporal and spatial patterns of late Quaternary deposits, and (2) determine the potential for deeply buried archaeological deposits. Project funded by the U.S. Department of Transportation and Kansas Department of Transportation through the Kansas State Historical Society (ISTEA grant). Funding level: \$295,000. The fieldwork has been completed and the reports of investigations are being prepared.

### **August 1989--May, 1993**

Assistant Professor in the Geography-Geology Department, University of Nebraska at Omaha. In addition to teaching responsibilities (see Teaching Experience), major research projects were/are as follows:

1. Geomorphic and paleoenvironmental study of the Akrotiri-Aetokremnos Rockshelter (Site E) and the Akrotiri Peninsula, Cyprus. Worked with an interdisciplinary research team from the Desert Research Institute, University of Nevada-Reno. Project funded by the National Geographic Society and the National Science Foundation.
2. Geomorphic, stratigraphic, and paleoenvironmental study of the Medina River valley, south-central Texas. Worked with an interdisciplinary research team from Texas A&M University. Project funded by the Medina River Water Authority.
3. Soils and geomorphology of river valleys in southeastern Kansas. Worked with an archaeological research team from the Kansas State Historical Society. Project funded by the Kansas Department of Transportation.
4. Soils and geomorphology of the lower Walnut River valley at Arkansas City, Kansas. Cooperative Research Project with the Kansas State Historical Society and Tulsa District of the U.S. Army Corps of Engineers. Project funded by the U.S. Army Corps of Engineers.
5. Geomorphology and stratigraphy of the Logan Creek Site, eastern Nebraska. Project funded by the Nebraska State Historical Society.
6. Geomorphic and stratigraphic investigation of late-Quaternary landforms in the Doyle Creek and Whitewater River watersheds, southeastern Kansas. Project funded by the U.S. Department of Agriculture, Soil Conservation Service, through the Kansas State Historical Society.

**January 1986-- August 1987**

Consulting Geomorphologist. Worked with universities, research institutes, and the private sector in developing grant proposals and conducting geomorphological investigations. Major projects included:

1. Geomorphic and stratigraphic investigation of late Quaternary landscapes in Lake Creek valley, southwestern Texas. This project was conducted by the University of Texas (Austin) Archaeological Research Laboratory for the U.S. Department of the Interior's Bureau of Reclamation.
2. Geomorphic and stratigraphic investigation of late Quaternary landscapes in the Clinton Lake Project Area, northeastern Kansas. This project was conducted by the University of Kansas for the Kansas City District of the U.S. Army Corps of Engineers.
3. Geomorphic and stratigraphic investigation of late Quaternary landscapes in the Kanopolis Lake Project Area, North-Central Kansas. This project was conducted by Environmental Systems Analysis, Inc., for the Kansas City District of the U.S. Army Corps of Engineers.
4. Geomorphological investigation of Wadi Zarka valley in the area of 'Ain Ghazal, Jordan. This project was conducted by the University of Nevada's (Reno) Desert Research Institute with a grant from the AMOCO Foundation.
5. Preliminary stratigraphic investigation of the Akrotiri-Aetokremnos Rockshelter (Site E) on the Southern Coast of Cyprus. This project was funded and conducted by the University of Nevada's (Reno) Desert Research Institute.
6. Geomorphic and stratigraphic investigation of late Quaternary landscapes in the Ohio River valley at the Gallipolis Locks and Dam, southwestern West Virginia. This project was conducted by the University of Kentucky and Cultural Resources Analysts, Inc. for the U.S. Army Corps of Engineers.
7. Geomorphic and stratigraphic investigation of late Quaternary landscapes in the upper Brazos River valley of northeastern Texas. This project was conducted by Texas A&M University for the Brazos River Authority.

**June 1978--January 1, 1986**

Research Associate and Coordinator of the Environmental Research Program for ISES/Center for Public Affairs, University of Kansas. Major responsibilities include directing the Institute's environmental research program, preparing grant proposals, conducting and directing research projects, and serving as a liaison between the Center and various government agencies. Major tasks included:

1. Co-Investigator: "Kansas Regional Development Strategies: Options for State Policy Planning and Action." Contract with Kansas Division of State Planning and Research, 1978. Funding level: \$27,000.



2. Project Director: "Trend Analysis of Land and Related Natural Resource Use Patterns in Kansas: Implications for Regional Development Policy Planning," Contract with Kansas Division of State Planning and Research, 1978. Funding level: \$7,000.
3. Project Director: Update of the State Policy Data Base; contract with Kansas Division of State Planning and Research, Department of Economic Development and Department of Health and Environment, 1978-1979. Funding level: \$25,000.
4. Principal Investigator and Project Director: Inventory of Abandoned Mined Lands in Kansas; contract with the U.S. Department of the Interior's Office of Surface Mining, 1980-1981. Funding level: \$68,000.
5. Principal Investigator and Project Director: Prototype Study of Abandoned Mined Lands in Region IV of the United States; Contract with the U.S. Department of the Interior's Office of Surface Mining, 1980-1981. Funding level: \$89,000.
6. Principal Investigator: Prepared Section 884.13 (f) of the State Reclamation Plan for Abandoned Mined Lands in Kansas; Contract with the Kansas Corporation Commission, 1981. Funding level: \$6,300.
7. Co-Principal Investigator: Kansas City-Lawrence-Topeka Corridor Cultural Resources Planning Study; Contract with the Kansas Historical Society, 1982-1983. Funding level: \$20,000.
8. Project Geomorphologist: Archaeological Testing Program at Cold Brook and Cottonwood Springs Reservoirs, South Dakota; Contract with the U.S. Army Corps of Engineers, 1982. Funding level: \$23,500.
9. Co-Principal Investigator: Archaeological and Geomorphic Survey in the Western Desert of Egypt; Contract with the AMOCO Foundation, 1982-1983. Funding level: \$25,000.
10. Co-Principal Investigator: A State Plan for the Archaeology of Kansas, Phase I: Paleo-Indian and Archaic; contract with the Kansas State Historical Society, 1983-1984. Funding level: \$93,300.
11. Project Geomorphologist: Cultural Resource Reconnaissance along the Lower West Bank of Lake Francis Case in Gregory and Lyman Counties, South Dakota; Contract with the U.S. Army Corps of Engineers, Omaha District, 1984. Funding level: \$67,400.
12. Project Geomorphologist: The excavation of 'Ain Ghazal, Jordan. Participated with an international research team at 'Ain Ghazal--a pre-pottery Neolithic settlement. The project was supported by the National Geographic Society.
13. Principal Investigator: Geomorphological investigation associated with the Phase III Investigation of Four Archaeological Sites in Washington County, Iowa; Contract with the Office of the Iowa State Archaeologist, 1984-1985. Funding level: \$4,500.

14. Co-Principal Investigator: A State Plan for the Archaeology of Kansas, Phase II; contract with the Kansas State Historical Society, 1984-1985. Funding level: \$62,600.
15. Project Geomorphologist: Soils and Quaternary Landscapes in the Pawnee River Valley, Southwest Kansas: Implications for Cultural Resource Management; contract with the Kansas State Historical Society and the U.S.D.A. Soil Conservation Service, 1986.

#### **August 1987--August 1989**

Lecturer in the Geography Department, University of Kansas and consulting geomorphologist. Served as co-principal investigator on the following research projects:

1. Geological investigation of the Akrotiri-Aetokremnos Rockshelter (Site E) on the southern coast of Cyprus. The site contains the oldest evidence of human occupation and the youngest Pleistocene faunal assemblage on a Mediterranean island. This project was directed by Dr. Alan Simmons, Desert Research Institute, University of Nevada, Reno, and was funded by the National Geographic Society.
2. Geomorphic and stratigraphic investigation of late Quaternary landforms in the upper Delaware River valley, northeastern Kansas. This project was directed by the Kansas State Historical Society, and was funded by the U.S. Department of Agriculture's Soil Conservation Service.
3. Geomorphic and stratigraphic investigation of late Quaternary landforms in the West Fork Big Creek drainage system, south-central Iowa and north-central Missouri. This project was co-directed by Mike Fosha and Brad Logan, University of Kansas Museum of Anthropology, and was funded by the U.S. Department of Agriculture's Soil Conservation Service.

#### **September 1976--June 1978**

Research Assistant for the Institute for Social and Environmental Studies (ISES), University of Kansas. Identified land, water, wildlife, energy, and mineral resources information for entry into the Kansas Policy Data Base. Conducted a survey to define the development strategies of various regional planning commissions throughout Kansas. Coordinated research plan to analyze land development suitability factors as components of the state natural resources planning process.

#### **October 1975--April 1976**

Research Associate for Texas Parks and Wildlife Department, Resource Planning Section, Comprehensive Planning Branch. Assisted in the writing and editing of the *Regional Environmental Analysis of the Houston-Galveston Region*. Assessed land-use impacts on wildlife habitats and recreation resources. Defined critical environmental areas, including wetlands, flood prone areas, and groundwater recharge zones, in the Houston-Galveston area.

#### **January 1975--October 1975**

Research Assistant for Texas Parks and Wildlife Department, Resource Planning Section,

Comprehensive Planning Branch. Gathered and assessed hydrological and geomorphic data for application in a regional environmental analysis of Southeastern Texas.

**January 1971--May 1972**

Research Assistant for Dr. Millard Brent, San Antonio College. Aided in the quantitative analysis of fluvial systems in South Texas.

**EDITORSHIPS**

Editor-in-Chief, *Geoarchaeology:An International Journal*, John Wiley & Sons, July, 1999-January, 2004.

Co-Editor, *Geoarchaeology:An International Journal*, John Wiley & Sons, January, 2004-May, 2007.

Associate Editor, *Current Research in the Pleistocene*, Center for the Study of the First Americans, Texas A&M University, June, 2011-2012.

Associate Editor, *Geoarchaeology:An International Journal*, John Wiley & Sons, January, 2007-Present.

**BOOKS**

**Mandel, R.D.** (Editor), 2000. *Geoarchaeology in the Great Plains*. University of Oklahoma Press, Norman.

**PUBLICATIONS**

**Mandel, R.D.**, L.R. Murphy, and M.D. Mitchell (in review). Geoarchaeology and Paleoenvironmental Context of the Beacon Island Site, an Agate Basin (Paleoindian) Bison Kill in Northwestern North Dakota, USA. *Quaternary International*.

Layzell, T.L., and **R.D. Mandel** (in press). An Assessment of the Erodibility of Holocene Lithounits Comprising Streambanks in Northeastern Kansas, USA. *Geomorphology*.

Zhou, Z., N. Chen, X. Cao, T. Chua, J. Mao, **R.D. Mandel**, E.A. Bettis III, M.L. Thompson, 2014. Composition of Clay-Fraction Organic Matter in Holocene Paleosols Revealed by Advanced Solid-State NMR Spectroscopy. *Geoderma* 54-61.

**Mandel, R.D.**, 2014. Butzer, Karl W., In *Encyclopedia of Global Archaeology*, edited by C. Smith, pp. 1087-1089. Springer, New York.

Lundelius, E.L., Jr., V.M. Bryant, **R.D. Mandel**, K.J. Thies, and A. Thoms, 2013. The First

Occurrence of a Toxodont (Mammalia, Notoungulata) in the United States. *Journal of Vertebrate Paleontology* 33:229-232.

**Mandel, R.D.**, 2012. Appendix: Geomorphology and Stratigraphy of Site 14MO403, Northeast Kansas. *The Kansas Anthropologist* 33: 98-102.

**Mandel, R.D.**, 2012. Geoarchaeology and Paleoenvironmental Context of the Eastep Site (14MY388), Southeast Kansas. *The Kansas Anthropologist* 33: 159-174. **Mandel, R.D.**, 2012. Geoarchaeology. In *Archeological Investigations at Arkansas City, Kansas*, edited by R.J. Hoard, pp. 85-100. Archeology Publication No. 26, Kansas Historical Society, Topeka, Kansas.

Murphy, L.R., and **R.D. Mandel**, 2012. Geoarchaeology and Paleoenvironmental Context of the Burntwood Creek Rockshelter, High Plains of Northwestern Kansas, U.S.A. *Geoarchaeology: An International Journal* 27:344-362.

**Mandel, R.D.**, 2012. Geoarchaeology of Area A, In *Agate Basin Archaeology at Beacon Island, North Dakota*, edited by Mark D. Mitchell, pp. 9-25. Research Contribution No. 86, Paleocultural Research Group Monograph Series, Arvada, Colorado.

Murphy, L.R., and **R.D. Mandel**, 2012. Paleoenvironmental Context: The Stable Carbon Isotope and Phytolith Record, In *Agate Basin Archaeology at Beacon Island, North Dakota*, edited by Mark D. Mitchell, pp. 191-199. Research Contribution No. 86, Paleocultural Research Group Monograph Series, Arvada, Colorado.

**Mandel, R.D.**, 2011. *Soils and Quaternary Landscape Evolution in the Medina River Valley, South-Central Texas*. Fieldtrip Guidebook, Soil Science Society of America, Madison, Wisconsin.

Holliday, V.T., D.J. Meltzer, and **R.D. Mandel**, 2011. Stratigraphy of the Younger Dryas Chronozone and Paleoenvironmental Implications: Central and Southern Great Plains. *Quaternary International* 242: 520-533.

Cordova, C.E., W.C. Johnson, **R.D. Mandel**, and M.W. Palmer, 2011. Late Quaternary Environmental Change Inferred from Phytoliths and Other Soil-Related Proxies: Case Studies from the Central and Southern Great Plains, USA. *Catena* 85: 87-108.

Beeton, J.M., and **R.D. Mandel**, 2011. Soils and Late-Quaternary Landscape Evolution in the Cottonwood River Basin, East-Central Kansas: Implications for Archaeological Research. *Geoarchaeology: An International Journal* 26: 693-723.

Collins, J.M., and **R.D. Mandel**, 2010. Archaeological and Geomorphological Evaluation of the West Lobe of the Allen Alluvial Fan Site – 13HA385. *Journal of the Iowa Archeological Society* 57: 43-63.

Dorale, J.A., L.A. Wozniak, E.A. Bettis III, S.J. Carpenter, **R.D. Mandel**, E.R. Hajic, N.H. Lopinot, and J.H. Ray, 2010. Isotopic Evidence for Younger Dryas Aridity in the North

American Midcontinent. *Geology* 38: 519-522.

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

Lynott, M.J., and **R.D. Mandel**, 2009. Archeological and Geoarcheological Study of the Rectangular Enclosure at the Hopeton Earthworks. In *In the Footprints of Squier and Davis: Archeological Fieldwork in Ross County, Ohio*, edited by M.J. Lynott, pp. 159-177. MWAC Special Report No. 5, National Park Service, Midwest Archeological Center, Lincoln, Nebraska.

McCulloch, S., J.W. Saunders, G.D. Hall, **R.D. Mandel**, J. Miller, and C. Freuden, 2009. Testing. In *Prehistoric Archaeological Investigations in the Applewhite Reservoir Project Area, Bexar County, Texas*, edited by D.L. Carlson, P.A. Clabaugh, **R.D. Mandel**, and C.D. Pevy, pp. 167-285. Center for Ecological Archaeology, Reports of Investigations No. 7, Texas A&M University, College Station, Texas.

**Mandel, R.D.**, J.W. Saunders, G.D. Hall, and S. McCulloch, 2009. Geomorphological and Archaeological Assessment. In *Prehistoric Archaeological Investigations in the Applewhite Reservoir Project Area, Bexar County, Texas*, edited by D.L. Carlson, P.A. Clabaugh, **R.D. Mandel**, and C.D. Pevy, pp. 127-165. Center for Ecological Archaeology, Reports of Investigations No. 7, Texas A&M University, College Station, Texas.

Carlson, D.L., P.A. Clabaugh, **R.D. Mandel**, and C.D. Pevy (Editors), 2009. *Prehistoric Archaeological Investigations in the Applewhite Reservoir Project Area, Bexar County, Texas*. Center for Ecological Archaeology, Reports of Investigations No. 7, Texas A&M University, College Station, Texas.

**Mandel, R.D.**, 2008. Buried Paleoindian-age Landscapes in Stream Valleys of the Central Plains, USA. In *Fluvial Deposits and Environmental History: Geoarchaeology, Paleohydrology, and Adjustments to Environmental Change*, edited by P.F. Hudson, K.W. Butzer, and T. Beach, pp. 342-361. Elsevier, Amsterdam.

**Mandel, R.D.**, 2008. Buried Paleoindian-age Landscapes in Stream Valleys of the Central Plains, USA. *Geomorphology* 101:342-361.

Dillon, J.S. and **R.D. Mandel**, 2008. The Honey Creek Member: A New Holocene Alluvial Stratigraphic Unit in the Midwest. *Journal of the Iowa Academy of Science* 113:57-68.

Goldberg, P., and **R.D. Mandel**, 2008. Caves and Rockshelters. In *Encyclopedia of Archaeology*, Vol. 2, edited by Deborah M. Pearsall, pp. 966-974. New York: Academic Press.

**Mandel, R.D.**, J.S. Jacob, and L.C. Nordt, 2007. Geoarchaeology of the Richard Beene Site. In *Archaeological and Paleoecological Investigations at the Richard Beene Site (41BX831), South Central Texas*, edited by A.V. Thoms and **R.D. Mandel**, pp. 27-60. Center for Ecological Archaeology, Reports of Investigations No. 8, Texas A&M University, College Station, Texas.

Thoms, A.V., and **R.D. Mandel**, 2007. Ecological setting: The lower Medina River Valley and Surrounding Inner Gulf Coastal Plain, edited by A.V. Thoms and **R.D. Mandel**, pp. 15-26. Center for Ecological Archaeology, Reports of Investigations No. 8, Texas A&M University, College Station, Texas.

Thoms, A.V., and **R.D. Mandel** (Editors), 2007. *Archaeological and Paleoecological Investigations at the Richard Beene Site (41BX831), South Central Texas*. Center for Ecological Archaeology, Reports of Investigations No. 8, Texas A&M University, College Station, Texas.

Simmons, A.H., and **R.D. Mandel**, 2007. How Old is the Human Presence on Cyprus? *Science* 317: 1679.

Simmons, A.H., and **R.D. Mandel**, 2007. Not Such a New Light: A Response to Ammerman and Noller. *World Archaeology* 39(4): 475-482.

Thoms, A.V., Eileen Johnson, S. Christopher Caran, **R.D. Mandel**, and T. Vance, 2007. New Evidence for Mammoth Bone Quarrying on the Inner Gulf Coastal Plain of Texas. *Bulletin of the Texas Archeological Society* 78:1-35.

Hajic, E.R., **R.D. Mandel**, J.H. Ray, and N. H. Lopinot, 2007. Geoarchaeology of Stratified Paleoindian Deposits at the Big Eddy Site, Southwestern Missouri. *Geoarchaeology: An International Journal* 22:891-934.

Holliday, V.T., and **R.D. Mandel**, 2006. Paleoindian Geoarchaeology of the Southwest, Great Plains and Central Lowlands. In *Handbook of North American Indians: Origins of Native Americans*, edited by Dennis Stanford, pp. 23-46. Washington, D.C., Smithsonian Institution Press.

**Mandel, R.D.** (Editor), 2006. *Guidebook of the 18<sup>th</sup> Biennial Meeting of the American Quaternary Association*. Technical Series 21, Kansas Geological Survey, University of Kansas, Lawrence.

**Mandel, R.D.**, and J.L. Hofman, 2006. The Winger Site (14ST401) and Mattox Draw. In *Guidebook of the 18<sup>th</sup> Biennial Meeting of the American Quaternary Association*, edited by **R.D. Mandel**, pp. 4-17-4-25. Technical Series 21, Kansas Geological Survey, University of Kansas, Lawrence.

**Mandel, R.D.**, and J.L. Hofman, 2006. Simshauser Site (15KY102) and Mattox Draw. In *Guidebook of the 18<sup>th</sup> Biennial Meeting of the American Quaternary Association*, edited by **R.D. Mandel**, pp. 4-9-4-16. Technical Series 21, Kansas Geological Survey, University of Kansas, Lawrence.

**Mandel, R.D.**, C. Widga, J.L. Hofman, S. Ryan, and K. Bruner, 2006. The Claussen Site (14WB322). In *Guidebook of the 18<sup>th</sup> Biennial Meeting of the American Quaternary Association*,

edited by **R.D. Mandel**, pp. 4-2–4.8. Technical Series 21, Kansas Geological Survey, University of Kansas, Lawrence.

Baker, R.G., G.G. Fredlund, G. Towne, **R.D. Mandel**, and W.C. Johnson, 2006. Late Quaternary Biogeography and Paleoecology along the Prairie-Forest Border, USA. In *Guidebook of the 18<sup>th</sup> Biennial Meeting of the American Quaternary Association*, edited by **R.D. Mandel**, pp. 2-1–2-27. Technical Series 21, Kansas Geological Survey, University of Kansas, Lawrence.

**Mandel, R.D.** (Editor), 2006. *Guidebook of the 18<sup>th</sup> Biennial Meeting of the American Quaternary Association*. Technical Series 21, Kansas Geological Survey, University of Kansas, Lawrence.

**Mandel, R.D.**, 2006. The Effects of Late Quaternary Landscape Evolution on the Archaeology of Kansas. In *Kansas Archaeology*, edited by R.J. Hoard and W.E. Banks, pp. 46-75. University Press of Kansas, Lawrence, Kansas.

**Mandel, R.D.**, 2006. Late Quaternary and Modern Environments in Kansas. In *Kansas Archaeology*, edited by R.J. Hoard and W.E. Banks, pp. 28-45. University Press of Kansas, Lawrence, Kansas.

Thoms, A.V., E. Johnson, S. C. Caran, and **R. D. Mandel**, 2005. Glimpses of Mammoth Bone Quarrying on North America's Western Gulf Coastal Plain: Two New Mammoth Localities near San Antonio. In *The World of Elephants: Short Papers and Abstracts of the 2nd International Congress*, edited by L.D. Agenbroad and R.L. Symington, pp. 183-185. Mammoth Site Scientific Papers, Volume 4, The Mammoth Site of Hot Springs, South Dakota, Inc.

**Mandel, R.D.**, S. Holen, and J.L. Hofman, 2005. Geoarchaeology of Clovis and Potential Pre-Clovis Cultural Deposits at the Kanorado Locality, Northwestern Kansas. *Current Research in the Pleistocene* 22:56-57.

**Mandel, R.D.**, 2005. Geomorphology and Site Stratigraphy. In *The Cowan Site: A Great Oasis Community in Northwest Iowa*, edited by S.C. Lensink and J.A. Tiffany, pp. 11-21. The Office of the State Archaeologist, University of Iowa, Iowa City.

Saunders, J.W., **R.D. Mandel**, C.G. Sampson, C.M. Allen, E.T. Allen, D.A. Bush, J.K. Feathers, K.J. Gremillion, C.T. Hallmark, H.E. Jackson, J.K. Johnson, R. Jones, R.T. Saucier, G.L. Stringer, and M.F. Vidrine, 2005. Watson Break, a Middle Archaic Mound Complex in Northwest Louisiana. *American Antiquity* 70:631-668.

Hoard, R.J., W.E. Banks, **R.D. Mandel**, M. Finnegan, and J.E. Epperson, 2004. A Middle Archaic Burial from East Central Kansas. *American Antiquity* 69:717-739.

**Mandel, R.D.**, J.L. Hofman, S. Holen, and J.M. Blackmar, 2004. Buried Paleo-Indian Landscapes and Sites on the High Plains of Northwestern Kansas. In *Field Trips in the Southern Rocky Mountains, USA: Geological Society of America Field Guide 5*, edited by E.P. Nelson, pp. 69-88. The Geological Society of America, Boulder, Colorado.

**Mandel, R.D.** and E. Arthur Bettis III, 2003. Late Quaternary Landscape Evolution and Stratigraphy in Northeastern Kansas and Southeastern Nebraska. In *Geologic Field Trips in the Greater Kansas City Area (Western Missouri, Northeastern Kansas, and Southeastern Nebraska)*, edited by Tina M. Niemi, pp. 127-176. Guidebook for Field Trips, 37<sup>th</sup> North-Central Section Meeting of the Geological Society of America, Missouri Department of Natural Resources, Geological Survey and Resource Assessment Division, Special Publication No. 11, Rolla, Missouri.

Fishel, R.L., J.M. Collins, **R.D. Mandel**, and M.T. Dunne, 2003. The Archaic Occupations of the Allen Fan Site (13HA385) in the Iowa Valley of Central Iowa. *Plains Anthropologist*, Memoir 34.

**Mandel, R.D.** and V.T. Holliday, 2003. Introduction. Special Issue on Paleoindian Geoarchaeology: Part II. *Geoarchaeology: An International Journal* 18:1-3.

**Mandel, R.D.**, and J.L. Hofman, 2003. Geoarchaeological Investigations at the Winger Site: A Late Paleoindian Bison Bonebed in Southwestern Kansas, U.S.A. Special Issue on Paleoindian Geoarchaeology: Part II. *Geoarchaeology: An International Journal* 18:129-144.

**Mandel, R.D.**, and J.L. Hofman, 2002. Geoarchaeology of the Winger Site (14ST401): A Late Paleoindian Bison Bonebed in Southwestern Kansas. *Current Research in the Pleistocene* 19:61-64.

Nordt, L.C., T.W. Boutton, J.S. Jacob, and **R.D. Mandel**, 2002. C<sub>4</sub> Plant Productivity and Climate-CO<sub>2</sub> Variations in South-Central Texas during the Late Quaternary. *Quaternary Research* 58: 182-188.

Holliday, V.T., J.C. Knox, G. Running IV, **R.D. Mandel**, and C.R. Ferring, 2002. The Central Lowlands and Great Plains. In *The Physical Geography of North America*, edited by A. Orme, pp. 335-362. Oxford University Press, New York.

Bettis, E.A., III and **R.D. Mandel**, 2002. The Effects of Temporal and Spatial Patterns of Holocene Erosion and Alluviation on the Archaeological Record of the Central and Eastern Great Plains, U.S.A. *Geoarchaeology: An International Journal* 17: 141-154.

Banks, W., **R.D. Mandel**, D. Roper, and C. Bennison, 2001. The Macy Site (14RY38): A Multicomponent Early Ceramic Occupation in Northeastern Kansas. *Plains Anthropologist* 46:21-37.

Simmons A.H. , G.O. Rollefson, Z. Kafafi, **R.D. Mandel**, M an -Nahar, J. Cooper, I. Köhler-Rollefson, and K. Roler Durand, 2001. Wadi Shu'eib, a Large Neolithic Community in Central Jordan: Final Report of Test Excavations. *Bulletin of the American Schools of Oriental Research* 321: 1-39.

**Mandel, R.D.**, and A.H. Simmons, 2001, Prehistoric Occupation of Late Quaternary Landscapes



Near Kharga Oasis, Western Desert of Egypt. *Geoarchaeology: An International Journal* 16:95-117.

**Mandel, R.D.**, and E.A. Bettis III, 2001. *Late Quaternary Landscape Evolution in the South Fork Big Nemaha River Valley, Southeastern Nebraska and Northeastern Kansas*. Guidebook No. 11. Conservation and Survey Division, University of Nebraska at Lincoln.

**Mandel, R.D.**, and E.A. Bettis III, 2001. Use and Analysis of Soils by Archaeologists and Geoscientists: A North American Perspective. In *Earth Science in Archaeology*, edited by Paul Goldberg, Vance T. Holliday, and C. Reid Ferring, pp. 173-204. Kluwer Academic/Plenum, Norwell, Massachusetts.

Ray, J.H., N.H. Lopinot, E.R. Hajic, and **R.D. Mandel**, 2000. Possible Pre-Clovis-Age Artifacts from the Big Eddy Site. *Current Research in the Pleistocene* 17:68-71.

**Mandel, R.D.**, 2000. Past, Present, and Future: A Summary of Geoarchaeological Research in the Great Plains. In *Geoarchaeology in the Great Plains*, edited by **R.D. Mandel**, pp. 286-295. University of Oklahoma Press, Norman.

**Mandel, R.D.**, 2000. The History of Geoarchaeological Research in the Central Plains of Kansas and Northern Oklahoma. In *Geoarchaeology in the Great Plains*, edited by **R.D. Mandel**, pp. 79-136. University of Oklahoma Press, Norman.

Baker, R.G., G. Fredlund, **R.D. Mandel**, and E.A. Bettis III, 2000. Holocene Environments of the Central Great Plains. *Quaternary International* 67:75-88.

Simmons, A.H., and **R.D. Mandel**, 1999. Archaeological Stratigraphy. In *Hippopotamus Hunters of Akrotiri Aetokremnos Peninsula: Interdisciplinary Investigations at Akrotiri Aetokremnos, A Specialized Early Holocene Site in Cyprus*, by Alan H. Simmons and Contributors, pp. 71-93. Kluwer Academic/Plenum, Norwell, Massachusetts.

**Mandel, R.D.**, 1999. Stratigraphy and Sedimentology. In *Hippopotamus Hunters of Akrotiri Aetokremnos Peninsula: Interdisciplinary Investigations at Akrotiri Aetokremnos, A Specialized Early Holocene Site in Cyprus*, by Alan H. Simmons and Contributors, pp. 49-69. Kluwer Academic/Plenum, Norwell, Massachusetts.

Lopinot, N.H., J.H. Ray, E.R. Hajic, and **R.D. Mandel**, 1999. Stratified Paleoindian Deposits at the Big Eddy Site, Southwestern Missouri. *Current Research in the Pleistocene* 15:39-42.

Ray, J.H., H.H. Lopinot, E.R. Hajic, and **R.D. Mandel**, 1998. The Big Eddy Site: A Multicomponent Paleoindian Site on the Ozark Border, Southwestern Missouri. *Plains Anthropologist* 43:73-81.

**Mandel, R.D.**, 1998. Archaeological Geology. *Geotimes* 43:49-51.

Mallouf, R.J. and R.D.Mandel, 1997. Horace Rivers: A Late Plainview Component in the

Northeastern Texas Panhandle *Current Research in the Pleistocene* 14:50-52.

Saunders, J., **R.D. Mandel** and others, 1997. A Mound Complex in Louisiana at 5400-5000 Years B.P. *Science* 277 (5333):1796-1799.

**Mandel, R.D.** and A.H. Simmons, 1997. Geoarchaeology of the Akrotiri Aetokremnos Rockshelter, Cyprus. *Geoarchaeology: An International Journal* 12:567-605.

Thoms, A.V., D.D. Kuehn, and **R.D. Mandel**, 1997. Mammoth Remains Discovered at 41BX1239. *Texas Historical Commission News and Views* 9:13-16.

Thoms, A.V., D.D. Kuehn, B.W. Olive, J.E. Dockall, P.A. Clabaugh, and **R.D. Mandel**, 1996. Early and Middle Holocene Occupations at the Richard Beene Site, the 1995 Southern Texas Archaeological Association Field School Project. *La Tierra* 23: 8-36.

Johnson, W.C., D.W. May, and **R.D. Mandel**, 1996, A Data Base of Alluvial Radiocarbon Ages from the Central Great Plains (Kansas and Nebraska). *Current Research in the Pleistocene* 13:79-81.

Holen, S.R., R.G. Corner, and **R.D. Mandel**, 1995. A Late Farmdalian-Woodfordian Fauna from Lovewell Reservoir, Jewell County Kansas. *Current Research in the Pleistocene* 12:98-99.

**Mandel, R.D.**, and E. A. Bettis III, 1995. Late Quaternary Landscape Evolution and Stratigraphy in Eastern Nebraska. In *Geologic Field Trips in Nebraska and Adjacent Parts of Kansas and South Dakota: 29th Annual Meeting of the North-Central and South-Central Sections, Geological Society of America*, edited by C.A. Flowerday, pp. 77-90. Conservation and Survey Division, University of Nebraska at Lincoln, Guidebook No. 10.

**Mandel, R.D.**, 1995. Geomorphic Controls of the Archaic Record in the Central Plains of the United States. In *Archaeological Geology of the Archaic Period in North America*, edited by E. A. Bettis III, pp. 37-66. Geological Society of America Special Paper 297.

Haug, J., M. Fosha, J. Abbott, C. Hjort, and **R.D. Mandel**, 1994. Exploring the Bloom Site. *South Dakota Archaeology* 18:29-71.

**Mandel, R.D.**, 1994. Geoarchaeology of the Lower Walnut River Valley at Arkansas City, Kansas. *The Kansas Anthropologist* 15 (1):46-69.

**Mandel, R.D.**, 1994. *Holocene Landscape Evolution in the Pawnee River Basin, Southwestern Kansas*. Kansas Geological Survey and the Kansas State Historical Society, Bulletin 236, 117 p.

**Mandel, R.D.**, 1993. Holocene Soils and Landscape Evolution in the Pawnee River Basin, Southwestern Kansas. In *Second International Paleopedology Symposium Field Excursion*, compiled by William C. Johnson, pp. 10/11-1 - 10/11-17. Kansas Geological Survey Open-File Report 93-30, Lawrence, Kansas.

Thoms, A.V., and **R.D. Mandel**, 1992. The Richard Beene Site (41BX831): A Deeply Stratified Paleoindian through Late Prehistoric Occupation in South-Central Texas. *Current Research in the Pleistocene* 9:42-44.

**Mandel, R.D.**, 1992. Soils and Holocene Landscape Evolution in Central and Southwestern Kansas: Implications for Archaeological Research. In *Soils in Archaeology: Landscape Evolution and Human Occupation*, Vance T. Holliday, editor, pp. 41-100. Smithsonian Institution Press, Washington, D.C.

Meyer, I.L., and **R.D. Mandel**, 1991. Analysis of Gully Evolution in Northeastern Kansas. In *Papers and Proceedings of Applied Geography Conference*, J.W. Frazier, editor, pp. 203-210, State University of New York Press, Binghamton, New York.

Simmons, A.H., and **R.D. Mandel**, 1988. Test Excavations at Akrotiri-Aetokremnos (Site E), An Early Prehistoric Occupation in Cyprus: Preliminary Report. *Report of the Department of Antiquities, Cyprus* (Part I):15-24.

Simmons, A.H., I. Kohler-Rollefson, G.O. Rollefson, **R.D. Mandel**, and Z. Kafafi, 1988. Ain Ghazal': A Major Neolithic Settlement in Central Jordan. *Science* 240: 35-39.

**Mandel, R.D.** and A.H. Simmons, 1988. A Preliminary Assessment of the Geomorphology of 'Ain Ghazal'. In *The Prehistory of Jordan*. A. Gerrard and H. Gebel, editors, pp. 431-436, B.A.R. International Series 396(i), Oxford, England.

**Mandel, R.D.**, L. Bement, and S.C. Caran, 1987. Geoarchaeological Investigations at Lake Creek Valley, Southeastern Texas. *Current Research in the Pleistocene* 4:132-134.

Sorenson, C.J., K. Sallee, and **R.D. Mandel**, 1986. Holocene and Pleistocene Soils and Geomorphic Surfaces of the Kansas River Valley. In *Quaternary Environments of Kansas*. W.C. Johnson, editor, pp. 93-102, Midwest Friends of the Pleistocene 33rd Field Conference, *Kansas Geological Survey Guidebook Series 5*, Lawrence, Kansas.

**Mandel, R.D.**, 1986. Late Quaternary Environments of the Western Desert of Egypt. In *Prehistoric Occupation of a Marginal Environment: An Archaeological Survey Near Kharga Oasis in the Western Desert of Egypt*. Alan H. Simmons and R.D. Mandel, editors, pp. 43-77, B.A.R. International Series 303, Oxford, England.

Simmons, A.H., and **R.D. Mandel** (Editors), 1986. *Prehistoric Occupation of a Marginal Environment: An Archaeological Survey Near Kharga Oasis on the Western Desert of Egypt*. B.A.R. International Series 303, Oxford, England.

**Mandel, R.D.**, C.J. Sorenson, and D. Jackson, 1985. Estimating Erosion Rates and Sediment Yields on Drastically Disturbed Lands. In *Papers and Processing of Applied Geography Conferences*, Vol. 8, J. Frazier, B. Epstein, and F. Schoolmaster, editors, pp. 65-74, State University of New York Press, Binghamton, New York.

**Mandel, R.D.**, and M.E. Hines, 1985. *Reclamation Planning for Coal-Mined Lands: A Selective Bibliography*. Council of Planning Librarians, CPL Bibliography No. 151, Chicago, Illinois.

Fredlund, G.G., T. Weston, and **R.D. Mandel**, 1985. Palynological Evidence for a Late Prehistoric Vegetation Change in the Southern Black Hills from Cape's Cave (39FA205). *Plains Anthropologist* 39:9-23.

**Mandel, R.D.**, 1984. Drastically Disturbed Coal-Mine Lands in Southeastern Kansas. In *Association of American Geographers Field Trip Guide*. C.J. Sorenson, **R.D. Mandel**, and W. Dort, Jr., editors, pp. 31-54, University of Kansas, prepared for the 1984 Joint Meeting of the Association of American Geographers West Lakes/Great Plains-Rocky Mountain Division, Lawrence, Kansas.

**Mandel, R.D.**, and T.H.L. Williams, 1983. An Integrated Inventory and Evaluation of Abandoned Coal Mine Lands in Kansas. In *Technical Papers, 1983 American Congress on Surveying and Mapping--American Society of Photogrammetry Fall Convention*, pp. 120-126, Salt Lake City, Utah.

**Mandel, R.D.**, C.J. Sorenson, and D. Jackson, 1982. A Study of Erosion-Sedimentation Processes on Abandoned Coal Refuse Piles in Southeastern Kansas. In *Proceedings of the National Symposium on Surface Mining, Hydrology, Sedimentology, and Reclamation*, D.H. Graves, editor, pp. 663-669, University of Kentucky Press, Lexington, Kentucky.

**Mandel, R.D.**, and C.J. Sorenson, 1982. The Role of the Western Harvester Ant (*Pogonomyrmex occidentalis*) in Soil Formation. *Soil Science Society of America Journal* 46(4):785-788.

**Mandel, R.D.**, 1978. Resource Use Patterns in Kansas: Water. *Kansas Indicators* 3(1):1-3.

Sorenson, C.J., **R.D. Mandel**, and John Wallis, 1976. Changes in Bioclimate Inferred from Paleosols and Paleohydrologic Evidence in East-Central Texas. *Journal of Biogeography* 3:141-149.

## BOOK REVIEWS

**Mandel, R.D.**, 2011, Review of: *Geoarchaeology and the Cross Timbers*, Compiled and edited by David J. Cranford, Elsbeth L. Dowd, and Don G. Wyckoff. Oklahoma Anthropological Society, Memoir 13, Norman, Oklahoma, 2009. Review published in *Plains Anthropologist* 55:320-323.

**Mandel, R.D.**, 2007, Review of: *Geoarchaeology: The Earth Science Approach to Archaeological Interpretation*, by George (Rip) Rapp and Christopher L. Hill, 2006, Yale University Press, New Haven. Review published in *Plains Anthropologist* 52:248-249.

**Mandel, R.D.**, 2007, Review of: *Soils in Archaeological Research*, by V.T. Holliday, 2004,

Oxford University Press, New York. Review published in *Great Plains Research* 17:119.

**Mandel, R.D.**, 1998, Review of: *Principles of Geoarchaeology: A North American Perspective*, by M.R. Waters, 1997, University of Arizona Press, Tucson. Review published in *Great Plains Research* 8:348-349.

**Mandel, R.D.**, 1998, Review of: The Wadi Al-Jubah Archaeological Project, Volume 5, Environmental Research in Support of Archaeological Investigations in the Yemen Arab Republic, 1982-1987, by M.J. Grolier, R. Brinkman, and J.A. Blakely, 1996, The American Foundation for the Study of Man. Review published in *Geoarchaeology: An International Journal* 13:743-746.

**Mandel, R.D.**, 1996, Review of: *Mediterranean Quaternary River Environments*, edited by J. Lewin, M.G. Macklin, and J.C. Woodward, 1995, A.A. Balkema, Rotterdam. Review published in *Geoarchaeology: An International Journal* 11:437-440.

**Mandel, R.D.**, 1994, Review of: *Environmental Change, Contemporary Problems in Geography*, by A. Goudie, 1992, 3rd Edition, Oxford University Press, Oxford. Review published in *Geoarchaeology: An International Journal* 9:518-520.

**Mandel, R.D.**, 1992, Review of: *Tell El Hesi: The Persian Period (Stratum V)*, by W. J. Bennet and J. A. Blakely, 1989, Eisenbrauns, Winona Lake, Indiana. Review published in *Geoarchaeology: An International Journal* 7:173-175.

**Mandel, R.D.**, 1992, Review of: *Paleoenvironments of the Namib Desert*, by M. J. Wilkinson, 1991, *University of Chicago Research Paper*, Number 231. Review published in *Geographical Review* 82:342-344.

**Mandel, R.D.**, 1989, Review of: *Quaternary Geomorphology at Cooper Basin: A Framework for Archaeological Inquiry, Delta and Hopkins Counties, Texas*, by C.B. Bousman, M.B. Collins, and T.K. Perttula, 1988, Prewitt and Associates, Reports of Investigations, Number 55. Review published in *Geoarchaeology: An International Journal* 4 (2):182-184.

**Mandel, R.D.**, 1988, Review of: *Late Wisconsinan and Holocene Landscape Evolution and Alluvial Stratigraphy in the Saylorville Lake Area, Central Des Moines River Valley, Iowa*, by E. Arthur Bettis III and Bernard E. Hoyer, 1986, Iowa Geological Survey. Review published in *Geoarchaeology: An International Journal* 3(2):291-292.

## TECHNICAL REPORTS

**Mandel, R.D.**, Principal Investigator, 2013. *Modeling Cultural Landscapes and Water Resources: A Case Study in Afghanistan*. Final Report of Scientific Progress and Accomplishments, May 10, 2010-May 10, 2013. Report submitted by the University of Kansas to the U.S. Army Research Office, Research Triangle Park, North Carolina.

Hoopes, J.W., **R.D. Mandel**, and A. Eggito, 2013. Final Report on the Remote Sensing Assessment of Karez Irrigation Systems and Archaeological Resources in Kandahar Province, Southern Afghanistan, In *Modeling Cultural Landscapes and Water Resources: A Case Study in Afghanistan*, Compiled by **R.D. Mandel**, pp. 7-12. Final Report of Scientific Progress and Accomplishments, May 10, 2010-May 10, 2013. Report submitted by the University of Kansas to the U.S. Army Research Office, Research Triangle Park, North Carolina.

Layzell, T.L, and **R.D. Mandel**, 2013. *An Assessment of the Lithostratigraphy and Erodibility of Holocene Alluvial Fills in the Watersheds of Atchison County Lake, Banner Creek Lake And Centralia Lake, Northeastern Kansas*. Prepared by the Kansas Geological Survey and submitted to the Kansas Water Resources Institute, Kansas State University, Manhattan, Kansas.

**Mandel, R.D.**, 2013. Geomorphological Investigation. In *An Archeological and Geomorphological Survey of Select Lands Along Oak Creek and Salt Creek in the Vicinity of Lincoln, Lancaster County, Nebraska*, by L. Palmer, A.A. Buhta, J. M. Kruse and **R.D. Mandel**, pp. 90-128. Archeological Series No. 260. Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

Palmer, L., A.A. Buhta, J. M. Kruse and **R.D. Mandel**, 2013. *An Archeological and Geomorphological Survey of Select Lands Along Oak Creek and Salt Creek in the Vicinity of Lincoln, Lancaster County, Nebraska*. Archeological Series No. 260. Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

**Mandel, R.D.**, 2013. Geomorphological Investigation. In *An Archeological and Geomorphological Survey of Select Lands Along the Big Blue River Between DeWitt and Wymore, Gage County, Nebraska*, by L. Palmer, A.A. Buhta, J.M. Kruse and **R.D. Mandel**, pp. 131-162. Archeological Series No. 261. Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

Palmer, L., A.A. Buhta, J.M. Kruse and **R.D. Mandel**, 2013. *An Archeological and Geomorphological Survey of Select Lands Along the Big Blue River Between DeWitt and Wymore, Gage County, Nebraska*. Archeological Series No. 261. Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

**Mandel, R.D.**, J.W. Hoopes and P.T. Stinson, 2012. *Modeling Cultural Landscapes and Water Resources: A Case Study in Afghanistan*. Second Year Report of Scientific Progress and Accomplishments, Report submitted by the University of Kansas to the U.S. Army Research Office, Research Triangle Park, North Carolina.

Egitto, A., J.W. Hoopes, and **R.D. Mandel**, 2012. Case Study: Remote Sensing of Karezes and Related Cultural Features in the Maywand District, Kandahar Province. In *Modeling Cultural Landscapes and Water Resources: A Case Study in Afghanistan*, by **R.D. Mandel**, J.W. Hoopes and P.T. Stinson, pp. 10-15. Second Year Report of Scientific Progress and Accomplishments, Report submitted by the University of Kansas to the U.S. Army Research Office, Research Triangle Park, North Carolina.

Buhta, A., **R.D. Mandel**, L. Palmer, and L. Adrien Hannus, 2012. *Red Lake County, Minnesota: An Archeological and Geomorphological Resources Inventory and Appraisal*. Archeological Series No. 258, Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

**Mandel, R.D.**, 2012. Geomorphological Investigation. In *Red Lake County, Minnesota: An Archeological and Geomorphological Resources Inventory and Appraisal*. Archeological Series, by A. Buhta, **R.D. Mandel**, L. Palmer, and L. Adrien Hannus, pp. 136-161. Archeological Series No. 258, Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

**Mandel, R.D.**, 2012. Geomorphological Investigation, In *An Archeological and Geomorphological Survey of Select Lands in Sarpy, Washington, and Burt Counties, Nebraska*, by J.M. Kruse, A. Buhta, L. Palmer, and **R.D. Mandel**, pp. 100-116. Archeological Series No. 256, Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

Kruse, J.M, A. Buhta, L. Palmer, and **R.D. Mandel**, 2012. *An Archeological and Geomorphological Survey of Select Lands in Sarpy, Washington, and Burt Counties, Nebraska*. Archeological Series No. 256, Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

**Mandel, R.D.**, 2012, Geoarchaeology and Paleoenvironmental Context of the Eastep Site. In *Phase IV Excavations at 14MY388 at the Eastep Riverbank Stabilization Project, an NRCS Undertaking in Montgomery County, Kansas*, compiled by J. Tomasic, pp. 77-99. Kansas Historical Society, Contract Archeology Program, Topeka, KS.

**Mandel, R.D.**, and P. Goldberg, 2011. Chapter 6: Geoarchaeology and Paleoenvironmental Context. In *Phase III Mitigation for Archaeological Site 32RY473, Ramsey County, North Dakota*, edited by J.R. Hass, pp. 37-63. Great Lakes Archaeological Research Center, Report of Investigations No. 774, Milwaukee, Wisconsin.

Egitto, A., J.W. Hoopes, and **R.D. Mandel**, 2011. Inventory of Karez and Related Features in Kandahar and Helmand Provinces, Afganastan. In *Modeling Cultural Landscapes and Water Resources: A Case Study in Afghanistan*, by W.C. Johnson, P.T. Stinson, G.L. Macpherson, J.W. Hoopes, and R.D. Mandel, pp. 2-9. Report submitted by the University of Kansas to the U.S. Army Research Office, Research Triangle Park, North Carolina.

Johnson, W.C., P.T. Stinson, G.L. Macpherson, J.W. Hoopes, and **R.D. Mandel**, 2011. *Modeling Cultural Landscapes and Water Resources: A Case Study in Afghanistan*. The University of Kansas, Lawrence, KS. Report submitted by the University of Kansas to the U.S. Army Research Office, Research Triangle Park, North Carolina.

**Mandel, R.D.**, 2011. Geomorphological Investigation. In *Section 110 Survey of Selected Sites at Stockton Reservoir in Cedar County, Smithville Reservoir in Clinton and Clay Counties, and Longview reservoir in Jackson County, Missouri*, by J.H. Ray, M.L. Venter, G.S. Powell, N.H. Lopinot, D.I. Cain, and D.A. Thompson, pp. 297-307. Report prepared for the St. Louis District of the U.S. Army Corps of Engineers, Technical Report 11-1, Statistical Research, Inc. Tucson, Arizona.

Buhta, A.A., J.L. Hofman, E.C. Grimm, **R.D. Mandel**, and L.A. Hannus, 2011. *Investigating the Earliest Human Occupation of Minnesota: A Multidisciplinary Approach to Modeling Landform Stability & Site Distribution Probability for the State's Early Paleoindian Resources*. Archaeological Series No. 248, Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

**Mandel, R.D.**, 2011. Geomorphological Investigation. In *An Archeological and Geomorphological Survey of Select Lands along the Platte River Bluffs, South Bend Locality, Cass and Sarpy Counties, Nebraska*, by J.M. Kruse, A.A. Buhta and **R.D. Mandel**, pp. 213-249. Archaeological Series 247, Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

Kruse, J.M., A.A. Buhta and **R.D. Mandel**, 2011. *An Archeological and Geomorphological Survey of Select Lands along the Platte River Bluffs, South Bend Locality, Cass and Sarpy Counties, Nebraska*. Archaeological Series 247, Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

**Mandel, R.D.**, J.A. McLean, S.R. Ryan, A.R. Potter, and N.V. Kessler, 2010. *Geoarchaeological Investigation and Condition Assessment of the Coffey Site (14PO1), Tuttle Creek Lake, Pottawatomie County, Kansas*. Prepared for the Kansas City District of the U.S. Army Corps of Engineers by the Kansas Geological Survey and R. Christopher Goodwin & Associates, Inc., Lawrence, Kansas.

**Mandel, R.D.**, S.R. Ryan, and A.R. Potter, 2010. *Limited Phase III Geoarchaeological Evaluation of Kansas Department of Transportation Right-of-Way in the Vicinity of 14SN101*. Prepared for the Kansas Department of Transportation by the Kansas Geological Survey and R. Christopher Goodwin & Associates, Inc., Lawrence, Kansas.

**Mandel, R.D.**, 2010. Geoarchaeological Investigation. In *Archaeological Site Testing for National Register Nomination: 25GD66, 25GD67, 25MO32, 25MO37/122, and 25MO82, Morrill and Garden Counties, Nebraska*, prepared by L. Palmer, R.D. Mandel, J.M. Kruse, and T. Gillen, pp. 101-151. Archaeological Series No. 243, Archeology Laboratory, Augustana College, Sioux Falls, South Dakota and the Kansas Geological Survey, Odyssey Archaeological Research Program, University of Kansas, Lawrence, Kansas.

Palmer, L., **R.D. Mandel**, J.M. Kruse, and T. Gillen, 2010. *Archaeological Site Testing for National Register Nomination: 25GD66, 25GD67, 25MO32, 25MO37/122, and 25MO82, Morrill and Garden Counties, Nebraska*. Archaeological Series No. 243, Archeology Laboratory, Augustana College, Sioux Falls, South Dakota and the Kansas Geological Survey, University of Kansas, Lawrence, Kansas.

**Mandel, R.D.**, 2010. Geoarchaeological Investigation. In *An Archeological and Geomorphological Survey of Select Lands along the Platte River Bluffs and along Silver and Wahoo Creeks, Saunders County, Nebraska*, prepared by J.J. Kruse, A.A. Buhta, and **R.D. Mandel**, pp. 140-162. Archaeological Series No. 240, Archeology Laboratory, Augustana



College, Sioux Falls, South Dakota.

Kruse, J.J., A.A. Buhta, and **R.D. Mandel**, 2010. *An Archaeological and Geomorphological Survey of Select Lands along the Platte River Bluffs and along Silver and Wahoo Creeks, Saunders County, Nebraska*. Archaeological Series No. 240, Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

**Mandel, R.D.**, 2010. Geoarchaeological Investigation. In *An Archaeological and Geomorphological Survey of Select Lands along the Missouri River Bluffs, Burt, Dakota, and Thurston Counties, Nebraska*, prepared by A.A. Buhta, K.A. Steinauer, K. Bacon, and R.D. Mandel, pp. 138-160. Archaeological Series No. 239, Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

Buhta, A.A., K.A. Steinauer, K. Bacon, and **R.D. Mandel**, 2010. *An Archaeological and Geomorphological Survey of Select Lands along the Missouri River Bluffs, Burt, Dakota, and Thurston Counties, Nebraska*. Archaeological Series No. 239, Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

**Mandel, R.D.**, 2010. Geomorphology and Soils at Site 14CW355. In *Phase III Assessment of Sites 14CW342, Cambria (14CW352), and Second Cow Creek (14CW355), Crawford County, Kansas*, compiled by N.H. Lopinot, J.H. Ray, and D.A. Thompson, pp. 117-123. Center for Archaeological Research, Report No. 1405, Missouri State University, Springfield, Missouri.

**Mandel, R.D.**, 2010, Geomorphology and Stratigraphy of Site 23SH23, Akers Ferry, Ozark National Scenic Waterways, Southeast Missouri. In *Results of the 2006 and 2007 Archaeological Investigations at the Akers Ferry Site, 23SH23, Ozark National Scenic Waterways, Missouri*, compiled by K.P. Cannon, C.J. Wiley, K.A. Lamie, B.J. Dolan, and M. Hammons, pp. 67-76. Midwest Archeological Center, Technical Report No. 119, National Park Service, Lincoln, Nebraska.

**Mandel, R.D.**, 2009, Geomorphological Investigation. In *Phase II Archaeological Survey for the Sewer Improvements Project, Blue Township, Pottawatomie County, Kansas*, compiled by D.C. Roper, pp. 40-62. Report submitted to the Pottawatomie County Department of Public Works, Westmoreland, Kansas.

McCulloch, S., J.W. Saunders, G.D. Hall, **R.D. Mandel**, J. Miller, and C. Freuden, 2009. Testing. In *Prehistoric Archaeological Investigations in the Applewhite Reservoir Project Area, Bexar County, Texas*, edited by D.L. Carlson, P.A. Clabaugh, **R.D. Mandel**, and C.D. Pevy, pp. 167-285. Center for Ecological Archaeology, Reports of Investigations No. 7, Texas A&M University, College Station, Texas.

**Mandel, R.D.**, J.W. Saunders, G.D. Hall, and S. McCulloch, 2009. Geomorphological and Archaeological Assessment. In *Prehistoric Archaeological Investigations in the Applewhite Reservoir Project Area, Bexar County, Texas*, edited by D.L. Carlson, P.A. Clabaugh, **R.D. Mandel**, and C.D. Pevy, pp. 127-165. Center for Ecological Archaeology, Reports of Investigations No. 7, Texas A&M University, College Station, Texas.

**Mandel, R.D.**, 2009. Geomorphological Investigations. In *Report on Archaeological Mitigation of the Frog Bayou Shelter, 3CW946, for the Lake Fort Smith Water Supply Project, Crawford County, Arkansas*, by J. Eric Gilliland, Jason Roberts, Kristine Bohon, and Hannah Huffman, pp. 8-1 – 8-16. Burns & McDonnell Engineering Company, Inc., Kansas City, Missouri.

Carlson, D.L., P.A. Clabaugh, **R.D. Mandel**, and C.D. Pevy (Editors), 2009. *Prehistoric Archaeological Investigations in the Applewhite Reservoir Project Area, Bexar County, Texas*. Center for Ecological Archaeology, Reports of Investigations No. 7, Texas A&M University, College Station, Texas.

**Mandel, R.D.**, 2008. Geomorphological Investigation. In *An Archeological and Geomorphic Survey of Select Lands in the Broadwater West and Blue Creek Study Areas, Morrill and Garden Counties, Nebraska*, prepared by J.R. Bozell, A.A. Buhta, R.D. Mandel, S.R. Holen, and E.J. Lueck, pp. 210-224. Archeological Contract Series No. 226, Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

Bozell, J.R., A.A. Buhta, **R.D. Mandel**, S.R. Holen, and E.J. Lueck, 2008. *An Archeological and Geomorphic Survey of Select Lands in the Broadwater West and Blue Creek Study Areas, Morrill and Garden Counties, Nebraska*. Archeological Contract Series No. 226, Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

Johnson, D.L., **R.D. Mandel**, and C.D. Frederick, 2008. *The Origin of the Sandy Mantle and Mima Mounds of the East Texas Gulf Coastal Plain: Geomorphological, Pedological, and Geoarchaeological Perspectives*. Field Trip Guidebook, 2008 Joint Meeting of Geological Society of America, Soil Science Society of America, and Gulf Coast Association of Geological Societies, Houston, Texas.

Bozell, J.R., and **R.D. Mandel**, 2008. Phase 2 Cultural Resources Investigation at the Big Village of the Omaha (25DK5) in Response to the Proposed Northern Natural Gas SSC A-Line Modification Project, Dakota County, Nebraska. Archeological Contract Series No. 225, Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

Hajic, E.R., and **R.D. Mandel**, 2008. *Geoarchaeological Testing of the Proposed Gulf Crossing Project Area in Oklahoma*. Report submitted by the Kansas Geological Survey to S. Christopher Goodwin & Associates, Inc., Lawrence, Kansas.

Hajic, E.R., and **R.D. Mandel**, 2008. *Geoarchaeological Testing of the Proposed Gulf Crossing Project Area in Texas*. Report submitted by the Kansas Geological Survey to S. Christopher Goodwin & Associates, Inc., Lawrence, Kansas.

**Mandel, R.D.**, 2008. Geomorphology and Soils at the Eliot Huffman Site. In *Report on Archaeological Mitigation of the Eliot Huffman Site, 3CW967, for the Lake Fort Smith Water Supply Project, Crawford County, Arkansas*, by J. Eric Gilliland, Jason Roberts, Kristine Bohon, and Hannah Huffman, pp. 7-1 – 7-11. Burns & McDonnell Engineering Company, Inc., Kansas City, Missouri.

**Mandel, R.D.**, and P. Goldberg, Geomorphological Investigations. 2008. In *Report on Archaeological Mitigation of the Copperhead Site, 3CW951, for the Lake Fort Smith Water Supply Project, Crawford County, Arkansas*, by J. Eric Gilliland, Kristine Bohon, Jason Roberts, and Hannah Huffman, pp. 7-1 – 7-26. Burns & McDonnell Engineering Company, Inc., Kansas City, Missouri.

**Mandel, R.D.**, 2007. Geomorphology and Stratigraphy. In *Results of Evaluative Testing at Site 14SC112 in Ladder Creek Drainage, Scott County, Kansas*, by J. B. Lee and D. Hiemsta, pp. 8-31. Metcalf Archaeological Consultants, Inc., Eagle, Colorado

**Mandel, R.D.**, 2007. *Geoarchaeological Reconnaissance of the Proposed Gulf Crossing Project Area in Oklahoma*. Report submitted by the Kansas Geological Survey to S. Christopher Goodwin & Associates, Inc., Lawrence, Kansas.

**Mandel, R.D.**, 2007. *Geoarchaeological Reconnaissance of the Proposed Gulf Crossing Project Area in Texas*. Report submitted to S. Christopher Goodwin & Associates, Inc., Lawrence, Kansas.

Ahler, S.A., F.E. Swenson, K. Spurr, **R.D. Mandel**, S. Madden, F. Sellet, and S. Hurst, 2006, Field Report Regarding Excavations for Archaeological Mitigation During July and August 2006 at the Agate Basin Component in Area A Within the Beacon Island Site, 32MN234, Lake Sakakawea, North Dakota, Research Contribution No. 75. Paleocultural Research Group, Flagstaff, Arizona. Submitted to the U. S. Army Corps of Engineers, Omaha District, Omaha, Nebraska.

**Mandel, R.D.**, 2006, *Geomorphology, Quaternary Stratigraphy, and Geoarchaeology of Fox Creek Valley, Tallgrass Prairie National Preserve, Northeast Kansas*. Kansas Geological Survey Open-File Report 2006-29, Lawrence, Kansas.

**Mandel, R.D.**, 2006, *Geomorphology of the Hopewell Culture NHP Archeological Site 33RO1059, South-Central Ohio*. Report of investigations submitted to the National Park Service, Kansas Geological Survey, Lawrence, Kansas.

**Mandel, R.D.**, 2006, *Geomorphology and Stratigraphy of site 23SH23, Akers Ferry, Ozark National Scenic Waterway, Southeast Missouri*. Report of investigations submitted to the National Park Service, Kansas Geological Survey, Lawrence, Kansas.

Lueck, E.J., and **R.D. Mandel**, 2006, *Archeological Survey: Cedar River Drainage in Nance, Bone and Greeley Counties, Nebraska, 2005-2006*. Archeological Contract Series No. 204, Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

**Mandel, R.D.**, 2006, Geomorphological Investigation. In *Archaeological Excavations at Sites 39BF205, 38BF206 and 39BF211, Crow Creek Sioux Indian Reservation, Buffalo County, South Dakota*, edited by L. Palmer and A. Hannus, pp. 3.1-3.106. Archeological Contract Series No. 197, Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

**Mandel, R.D.**, 2006, Geoarchaeological Investigation of the Proposed NGL Liquid Pipeline, South-Central Kansas. Report of Investigations, Kansas Geological Survey, Lawrence, Kansas.

**Mandel, R.D.**, 2006, Geoarchaeological Testing of the Overland Pass Pipeline Project Area. In *Phase II Archeological Survey for the Kansas Portion of the Proposed Overland Pass Pipeline Project in Cheyenne, Rawlins, Thomas, Sheridan, Graham, Gove, Trego, Ellis, Russell, Barton, Ellsworth, Rice and McPherson Counties, Kansas*, edited by J. McLean, pp. B.1-B.30. Report submitted to the Natural Resources Group, BLM Project Number WYW-166510, R. Christopher Goodwin & Associates, Frederick, Maryland.

**Mandel, R.D.**, 2006, Geoarchaeological Reconnaissance of the Overland Pass Pipeline Project Area. In *Phase II Archeological Survey for the Kansas Portion of the Proposed Overland Pass Pipeline Project in Cheyenne, Rawlins, Thomas, Sheridan, Graham, Gove, Trego, Ellis, Russell, Barton, Ellsworth, Rice and McPherson Counties, Kansas*, edited by J. McLean, pp. A.1-A.28. Report submitted to the Natural Resources Group, BLM Project Number WYW-166510, R. Christopher Goodwin & Associates, Frederick, Maryland.

**Mandel, R.D.**, and T.J. Chadderdon, 2005. Geomorphological Investigation, Baghdad NEC, Iraq. In *Task 3: Archaeological Resources Report, Baghdad NEC, Baghdad, Iraq*. Compiled by the Louis Berger Group, Inc., pp. C-1 – C-32. Report submitted to the U.S. Department of State Overseas Buildings Operations, Washington, D.C.

**Mandel, R.D.**, 2005. Geology. In *The Movie Draw Rock Shelter (39CU1401), Report of Preliminary Test Excavations*, prepared by F. Sellet and M. Fosha, pp. 49-60. Report submitted to the National Science Foundation, Washington, D.C.

**Mandel, R.D.**, 2005, Geomorphological Investigation in Support of the Phase IV Mitigation of Site14CO1310, Cowley County, Kansas. In *Phase II-IV Archaeological data Recovery Investigations at Site 14CO1310, Cowley County, Kansas*, prepared by T.L. Butler, C.M. Schoen, and S.E. Butler, pp. 256-270. KDOT Project No. 15-18K6413-01. The Louis Berger Group, Inc., Marion, Iowa.

**Mandel, R.D.**, 2005, Geomorphology. In *National Register Evaluations for the Proposed GCC Dacotah Limestone Mining Project with the Bureau of Land Management in Southwestern Custer County, South Dakota*, by R.P. Winham, L.A. Hannus, E.J. Lueck, L. Palmer, and L. Rossum, pp. 46-137. Archeological Contract Series No. 190, Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

**Mandel, R.D.**, 2005, *Geomorphological Investigation in Support of the Archaeological Survey of the proposed El Dorado, Kansas Wastewater Treatment Plant*. Kansas Geological Survey Open-File Report 2005-2, Lawrence, Kansas.

**Mandel, R.D.**, 2005, *Geoarchaeological Survey of the Cunningham Recycle Project Area, Pratt and Kingman Counties, Kansas*. Kansas Geological Survey Open-File Report 2005-1, Lawrence, Kansas.

**Mandel, R.D.**, 2004, Geomorphological Investigations. In *Cultural Resources Inventory for a Flood Control Project, Augusta, Kansas*, by H.A. Raab, P.J. Boden, and J.R. Rust, pp. 7-1–7-34. Report prepared submitted to the US Army Corps of Engineers by 4G Consulting, LLC, St. Paul, Minnesota.

**Mandel, R.D.**, 2004, Geomorphology of the Johnson Farm Site. In *Final Report on the Mitigation of the Johnson Farm #5 Site (3MI128) on U.S. Highway 71, Texarkana to Louisiana State Line, Miller County, Arkansas*, edited by John T. Penman, pp. A-1–A-22. Prepared for U.S. Department of Transportation by Burns & McDonnell Engineering Co., Inc. Kansas City Missouri.

**Mandel, R.D.**, T.L. Arpin, and P. Goldberg, 2003, *Stratigraphy, Lithology, and Pedology of the South Wall at the Hopeton Earthworks, South-Central Ohio*. Kansas Geological Survey Open-File Report 2003-46, Lawrence, Kansas.

Butler, C.T., **R.D. Mandel**, and A.M. Bauer, 2003, *Phase III Archeological Investigations of Sites 14BU1305 and 14BU1308 at Whitewater Watershed Structure #29, Butler County, Kansas*. Prepared for Whitewater Watershed Joint District No. 22, El Dorado, Kansas. Report prepared by the Kansas State Historical Society, Topeka, Kansas.

**Mandel, R.D.**, 2002, *Geomorphology of the North Shore of Lovewell Reservoir, North-Central Kansas: Implications for Archaeological and Paleontological Research*. Nebraska Archaeological Survey Technical Report 2002-01, University of Nebraska State Museum, University of Nebraska-Lincoln.

**Mandel, R.D.**, 2002, Geomorphological Investigation. In *Archaeological Investigations in the Elkhorn-Platte River Confluence Area, Western Douglas and Sarpy Counties, Nebraska*, by Robert E. Pepperl, pp. A-1-A-91. Cultural Resources Planning Studies for the Lower Platte River Basin Area Number 2, Nebraska State Historical Society Archaeological Survey Report, Lincoln, Nebraska.

Bettis, E.A., and **R.D. Mandel**, 2002, Geomorphology and Geoarchaeology. In *Archaeology in the Eisele's Hill Locality: Phase III Data Recovery Excavations at 13MC134, U.S. Highway 61, Muscatine County, Iowa*, edited by D.W. Benn, pp. 6-16. BCA Report No. 628/629, Bear Creek Archaeology, Inc., Cresco, Iowa.

**Mandel, R.D.**, 2001, *Geomorphological Investigation in Support of the Phase I Archaeological Survey of the Eudora Bend Section 14 Bank Stabilization Project Area, Leavenworth County, Kansas*. Report prepared for the U.S. Army Corps of Engineers, Kansas City District, Kansas City, Missouri.

**Mandel, R.D.**, 2000, Results of Geomorphological Investigations and Deep Testing at Tinker Air Force Base, Oklahoma. In *Phase I Archaeological Survey, Mapping and Recordation Report, Tinker AFB, Oklahoma City, OK*. Appendix A, pp. 1-51. Report prepared for Parsons Engineering Science, Chesterfield, Missouri.

**Mandel, R.D.**, 2000, Chapter 16: Geomorphology and Stratigraphy of the Allen Fan Site (13HA385). In *Phase III Archaeological Data Recovery at the Smith Bottom Site (13HA181) and the Allen Fan Site (13HA385): The Middle and Late Archaic of Hardin County, Iowa*, edited by R.L. Fishel, pp. 130-153. Contract Completion Report 692, Office of the State Archaeologist, University of Iowa, Iowa City, Iowa.

**Mandel, R.D.**, 2000, "Chapter 7: Geomorphology and Stratigraphy of the Smith Bottom Site (13HA181)." In *Phase III Archaeological Data Recovery at the Smith Bottom Site (13HA181) and the Allen Fan Site (13HA385): The Middle and Late Archaic of Hardin County, Iowa*, R.L. Fishel, editor, pp. 42-66. Contract Completion Report 692, Office of the State Archaeologist, University of Iowa, Iowa City, Iowa.

Hajic, E.R., **R.D. Mandel**, and E.A. Bettis III, 2000, Stratigraphic and Paleoenvironmental Investigations. In *The 1999 Excavations at the Big Eddy Site (23CE426)*, N.H. Lopinot, J.H. Ray, and M.D. Conner, editors, pp. 26-36. Southwest Missouri State University, Center for Archaeological Research, Special Publication No. 3, Springfield, Missouri.

**Mandel, R.D.**, and E.A. Bettis III, 1999, *Geomorphological Investigation in Support of the Phase I Archaeological Investigation in Jo Daviess County, Illinois for the U.S. 20 Capacity Improvement Study, Dubuque County, Iowa, and Jo Davies County, Illinois*. Report prepared for Leah D. Rogers, Archaeological Consultant, Mt. Vernon, Iowa.

**Mandel, R.D.**, 1999, *Geomorphological Investigation of the Proposed Veterans Administration Cemetery, Fort Riley, Kansas*. Prepared for Parsons Infrastructure and Technology, St. Louis, Missouri. Report Submitted to Cultural Resources Division, Directorate of Environment and Safety, Fort Riley, Kansas, and Engineering and Planning Division, U.S. Army Corps of Engineers, Kansas City District, Kansas City, Missouri.

**Mandel, R.D.**, 1999, *Geomorphology and Late Quaternary Stratigraphy of the Big Blue River and Lower Beaver Creek Valleys, Southeastern Nebraska, Volume 1: Archeological Investigations of the Lower Beaver Creek and Big Blue River Drainages in Furnas, Red Willow, Pawnee, and Gage Counties, Nebraska: 1997-1998*. Archeology Laboratory, Augustana College, Archeology Contract Series No. 137, Sioux Falls, South Dakota.

Lueck, E.J., and **R.D. Mandel**, 1999, *Archaeological Survey of the Avoca Branch Line Project (SN9009), Pottawattamie and Shelby Counties, Iowa*. Archeological Contract Series No. 148, Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

**Mandel, R.D.**, 1998, *Geomorphological Evaluation of the Rathbun Lake Wetlands Habitat Restoration Project, Rathbun Lake, South-Central Iowa*. Report submitted to the Kansas City District of the U.S. Army CXorps of Engineers, Kansas City, Missouri.

Rogers, L.D., and **Mandel, R.D.**, 1998, *Supplemental Phase I Cultural Resources Investigation for the Iowa Highway 5 Relocation Project, Polk and Warren Counties, Iowa*. Project No. EAC NHS-500-1(45)-19-77. Report prepared for Wilbur Smith Associates, Columbia, South

Carolina.

Overstreet, D.F., M.M. Gregory, **R.D. Mandel**, and M.F. Kolb, 1998, *Geoarchaeological Investigations - Construction Stages I, II, and III - at the Proposed Martin Luther King, Jr. Parkway, City of Des Moines, Polk County, Iowa*, Report prepared by Great Lakes Archaeological Research Center, Inc., for Rust Environment & Infrastructure, Inc., Milwaukee, Wisconsin.

Hajic, E.R., **R.D. Mandel**, J.H. Ray, N.H. Lopinot, 1998, Geomorphology and Geoarchaeology. In *The 1997 Excavations at the Big Eddy Site (23CE426) in Southwest Missouri*, edited by N.H. Lopinot, J.H. Ray, and M.D. Conner, pp. 74-110. Southwest Missouri State University, Center for Archaeological Research, Special Publication No. 2, Springfield.

**Mandel, R.D.**, 1997, *Geomorphological Investigation in Support of the Phase I Archaeological Survey of the Highway 60 Corridor, Northwest Iowa*. Report submitted to Rust Environment & Infrastructure, Inc., Waterloo, Iowa.

Rogers, L.D., and **R.D. Mandel**, 1997, *Phase I Cultural Resources Investigation for the Clinton-Mill Creek Expressway, Clinton County, Iowa*. Project No. 97-040-G, Report prepared for Snyder and Associates, Inc., Ankeny, Iowa.

Lueck, E.J., R.P. Winham, and **R.D. Mandel**, 1997, *Phase I and Phase II Cultural Resources Evaluations of Northern Natural Gas Company's Proposed Des Moines A-Line Replacement Project in Polk County, Iowa*. Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

**Mandel, R.D.**, 1997, Geomorphology and Late Quaternary Stratigraphy of Ponca Creek and the Keya Paha River Valley. In *An Archaeological Survey of Ponca Creek and the Keya Paha River Drainages in Nebraska*, edited by S.R. Holen and D.R. Watson, pp. 20-73. Nebraska Archaeological Survey, Technical Report 97-02, University of Nebraska State Museum, Lincoln.

**Mandel, R.D.**, 1997, *Geomorphological Investigation in Support of the Phase I Cultural Resources Survey of Northern Natural Gas Company's proposed Mullenville-Bushton E-Line Stitches Project in Barton, Edwards, Pawnee, Rice, and Stafford Counties, Kansas*. Archeology Laboratory, Augustana College, Sioux Falls, South Dakota.

**Mandel, R.D.**, 1997, Geomorphology and Stratigraphy of Site 14CH324. Report submitted to the Kansas State Historical Society, Topeka.

**Mandel, R.D.**, 1996, Geomorphology of the South Fork Big Nemaha River Valley, Southeastern Nebraska. In *A Geoarchaeological Survey of the South Fork Big Nemaha Drainage, Pawnee and Richardson Counties, Nebraska*, edited by S.R. Holen, J.K. Peterson, and D.R. Watson, pp. 26-81. Nebraska Archaeological Survey, Technical Report 95-02, University of Nebraska State Museum, Lincoln.

**Mandel, R.D.**, 1996, *Geomorphological Investigation of Route 12 (Panther Junction to Rio*

*Grande Village) and the Boquillas Canyon Road, Big Bend National Park: Implications for Archaeological Research.* Prepared for the National Park Service, Big Bend National Park.

Johnson, W.C., D.W. May, and **R.D. Mandel**, 1996, *A Radiocarbon Data Base for the Central Great Plains: Kansas and Nebraska.* Kansas Geological Survey Open-file Report 96-9.

Hajic, E.R., **R.D. Mandel**, and E.A. Bettis III, 1996, *Geomorphic Investigation, Avenue of the Saints Corridor, St. Francisville to Canton, Missouri.* Prepared for Charles Markman and Associates, St. Louis, Missouri.

**Mandel, R.D.**, 1996, Physiography and Geology. In *Excavations at the Maxwell Site (13DA264): A Great Oasis Settlement in Central Iowa*, edited by John F. Doershuk and Fred A. Finney, pp. 4-5. Office of the State Archaeologist, University of Iowa, Contract Completion Report 445, Iowa City.

**Mandel, R.D.**, 1996, Geomorphological Investigation. In *Phase I Archaeological Survey of US 151 (NHS-151-3 (84) - - 19-57), Segment 4: The Cascade Bypass, Jones and Dubuque Counties, Iowa*, edited by Susan Snow, pp. 13-18, 151-153. Office of the State Archaeologist, University of Iowa, Contract Completion Report 433, Iowa City.

**Mandel, R.D.**, 1995, A preliminary geomorphological investigation of the Platte River valley in eastern Nebraska. In *Platte River to Columbus Drainage Intensive Archeological Survey 1994-1995*, Vol. 1, by E.J. Lueck and R.P. Winham, pp. 136-173. Archeology Laboratory, Augustana College, Archeology Contract Series No. 103, Sioux Falls, South Dakota.

**Mandel, R.D.**, 1995, Geomorphology and Stratigraphy of the Little Pawnee Creek Site. In *Nebraska Phase Archeology in the South Bend Locality*, edited by John R. Bozell and John Ludwickson, pp. 193-206. Report prepared by the Nebraska State Historical Society, Lincoln.

Finney, F., C.L. Peterson, **R.D. Mandel**, and H.R. Davidson, 1995, *Archaeological, Geomorphological, and Historical Survey of the South Raccoon River Greenbelt, Dallas County, Iowa.* Office of the State Archaeologist, University of Iowa, Contract Completion Report 432, Iowa City.

**Mandel, R.D.**, 1994, *A Geomorphological Investigation of the Council Bluffs Industrial Park, Council Bluffs, Iowa.* Bear Creek Archaeology, Inc., Report No. 343, Cresco, Iowa.

**Mandel, R.D.**, 1994, Geologic potentials for buried cultural resources within the U.S. Highway 151 Corridor, East-Central Iowa. In *Phase I Archaeological Survey of US 151 (NHS-151-3 (84) - - 19-57) from Section 23, T84N-R5W, Linn County, Iowa, to the City of Anamosa, Jones County Iowa*, edited by Susan Snow, pp. 13-17, 89-96. Office of the State Archaeologist, University of Iowa, Contract Completion Report 380, Iowa City.

**Mandel, R.D.**, 1993, Geologic potentials for buried cultural resources within the U.S. Highway 151 Corridor, northeastern Iowa." In *Phase I Archaeological Survey of US 151 (NHS-151-3 (84) - - 19-57) from the City of Dubuque to the City of Cascade, Dubuque County, Iowa*, edited by



Susan Snow, pp. 10-16, 57-69. Office of the State Archaeologist, University of Iowa, Contract Completion Report 365, Iowa City.

**Mandel, R.D.**, 1994, Holocene landscape evolution in the Big and Little Blue River valleys, eastern Nebraska: Implications for archaeological research. In *Blue River Drainage Intensive Archaeological Survey, 1992-1993, Seward and Thayer Counties, Nebraska*, edited by E.J. Lueck and R.P. Winham, pp. H-1 - H-79. Archeology Laboratory, Augustana College, Archeology Contract Series No. 84, Sioux Falls, South Dakota.

**Mandel, R.D.**, 1994, Geomorphology and Stratigraphy of Lower Mill Creek Valley, Johnson County, Kansas. In *Archeological Test Excavations at Six Prehistoric Sites within the Lower Mill Creek Valley, Johnson County, Kansas*, edited by T.V. Gillen, R. P. Winham, E. J. Lueck, and L. A. Hanus, pp. 96-125. Archeology Laboratory, Augustana College, Archeology Contract Series No. 99, Sioux Falls, South Dakota.

**Mandel, R.D.**, 1994, Geomorphology and Soil Stratigraphy of 41MU55. In *The Valley Branch Archaeological Project: Excavations at an Archaic Site (41MU55) in the Cross Timbers Uplands, North-Central Texas*, edited by Alston V. Thoms, pp. 41-50. Archaeological Research Laboratory, Texas A&M University, Reports of Investigations No. 15, College Station.

Fosha, M., J.K. Haug, and **R.D. Mandel**, 1994, *Archaeological and Geomorphological Investigations at the Bloom Site (39HS1), Hanson County, South Dakota*. South Dakota State Archaeological Research Center, Contract Investigations Series No. 939, Rapid City.

**Mandel, R.D.**, 1994, *Geomorphology and Holocene Alluvial Stratigraphy of the Walnut River Valley at Arkansas City, Kansas: Implications for Archaeological Research*. Report prepared for the U.S. Army Corps of Engineers, Tulsa District.

**Mandel, R.D.**, 1993, *Preliminary Geomorphological Investigation of Site 14RY38, Riley County, Kansas*. Report prepared for the Kansas State Historical Society, Topeka, Kansas.

**Mandel, R.D.**, 1993, *Phase II Geomorphological Investigation of 14MY2336, Montgomery County, Kansas*. Report prepared for the Kansas State Historical Society, Topeka, Kansas.

**Mandel, R.D.**, 1993, Geologic potentials for buried cultural resources within the U.S. Highway 151 Corridor, northeastern Iowa. In Phase I Archaeological Survey of US 151 (NHS-151-3 (84) - 19-57) from the City of Dubuque to the City of Cascade, Dubuque County, Iowa, edited by Susan Snow, pp. 10-16, 57-69. Office of the State Archaeologist, University of Iowa, Contract Completion Report 365, Iowa City.

**Mandel, R.D.**, 1993, Geomorphology and Stratigraphy of Site 14JO359. In *Archeological Investigations of 14JO359, Johnson County, Kansas*, by Lauren W. Ritterbush, pp. 10-24. University of Kansas, Museum of Anthropology, Project Report Series No. 82, Lawrence, Kansas.

**Mandel, R.D.**, 1993, Geomorphology." In *Cultural Resource Investigations for the U.S.*

*Highway 166 Corridor*, edited by Marlin F. Hawley, pp. 24-75. Kansas State Historical Society, Contract Archeology Publication Number 11, Topeka, Kansas.

**Mandel, R.D.**, 1993, Geomorphology. In *Phase II Cultural Resource Survey of High Potential Areas within the Southeast Kansas Highway Corridor*, edited by Timothy Weston, pp. 44-121. Kansas State Historical Society, Contract Archeology Publication Number 10, Topeka, Kansas.

**Mandel, R.D.**, 1992, Chapter 5: Geomorphology and Stratigraphy of Sites 13DB17, 13DB18, and 13DB62. In *Mid- to Late-Nineteenth-Century Rural Households in the Upper Mississippi Valley Lead District: Phase III Excavations at the Mouth of Catfish Creek in the Mines of Spain Recreation Area, Dubuque County, Iowa*, edited by Fred A. Finney, pp. 21-28. Office of the State Archaeologist, University of Iowa, Contract Completion Report 350, Iowa City.

**Mandel, R.D.**, 1992, Geomorphology of the upper Brazos River Valley, North-Central Texas. In *An Archaeological Survey of the Proposed South Bend Reservoir Area, Young, Stevens, and Throckmorton Counties, Texas*, edited by J.W. Saunders, C.S. Mueller-Wille, and D.L. Carlson, pp. 53-84. Archaeological Research Laboratory, Texas A&M University, Archeological Surveys No. 6, College Station, Texas.

**Mandel, R.D.**, and R. P. Winham, 1992, Archaeological and Geomorphological Evaluation of the Des Moines Sewer Reroutes, Phase 2, Supplement B: Evaluation of Phase 7, Segment 4, Area A. Prepared by the Archaeology Laboratory, Augustana College, Sioux Falls, South Dakota for the City of Des Moines, Iowa.

**Mandel, R.D.**, 1992, Geomorphology and Stratigraphy of Sites 13PK46, 13PK467, and 13PK472, Polk County, Iowa." In *Phase II Test Excavations in the Central Des Moines River Valley*, by M. J. Perry, pp. 27-39. Highway Archaeology Program, Office of the State Archaeologist, The University of Iowa, Project Completion Report Vol. 15, No. 25, Iowa City.

**Mandel, R.D.**, 1991, *Geologic Potentials for Buried Archaeological Sites in the Whitewater River and Doyle Creek Watersheds, Southeast Kansas*. Report prepared for the Kansas State Historical Society, Topeka, Kansas.

**Mandel, R.D.**, J.D. Reynolds, B.G. Williams, and V.A. Wulfkuhle, 1991, *Upper Delaware River and Tributaries Watershed: Results of Geomorphological and Archeological Studies in Atchison, Brown, Jackson, and Nemaha Counties, Kansas*. State Historical Society, Contract Archeology Publication No. 9, Topeka, Kansas.

Winham, R.P., and **R.D. Mandel** 1991, Archaeological and Geomorphological Evaluation of the Des Moines Sewer Reroutes - Phase 2. Prepared by the Archaeology Laboratory, Augustana College, Sioux Falls, South Dakota for the City of Des Moines, Iowa.

Fosha, M.R., and **R.D. Mandel**, 1991, *Cultural Resources Investigations, Phase I Survey, West Fork Big Creek Watershed, Decatur and Ringgold Counties, Iowa and Harrison and Daviess Counties, Missouri*. University of Kansas, Museum of Anthropology, Project Report Series No. 72, Lawrence, Kansas.

**Mandel, R.D.**, 1990, Geomorphology and Stratigraphy of the Stigenwalt Site. In *The Archeology of the Stigenwalt Site, 14LT351*, edited by Randy Thies, pp. 138-145. Kansas State Historical Society, Contract Archeology Series Publication Number 7, Topeka, Kansas.

**Mandel, R.D.**, 1990, Geomorphology of the Ohio River Valley at the Gallipolis Locks and Dam, West Virginia. In *Childers and Woods: Two Late Woodland Sites in the Upper Ohio Valley, Mason County, West Virginia*, Michael J. Shott, editor, pp. 185-209. University of Kentucky, Program for Cultural Assessment, Archaeological Report 200, Lexington.

**Mandel, R.D.**, 1988, *Geomorphology of the Lower Ohio River Valley at the Gallipolis Locks and Dam, West Virginia*. Cultural Resource Analysts, Inc., Contract Publication Series 88-38, report submitted to the U.S. Army Corps of Engineers, Huntington District, West Virginia.

**Mandel, R.D.**, 1988, Geomorphology of the Smoky Hill River Valley at Kanopolis Lake, Kansas. In *Archaeological and Geomorphological Survey and Testing at Kanopolis Lake, Kansas*. L.J. Schmits, editor, pp. 49-72, report submitted to the U.S. Army Corps of Engineers, Kansas City District.

**Mandel, R.D.**, 1988, Geomorphology of the Pawnee River Valley. In *Phase II Archaeological and Geomorphological Survey of the Proposed Pawnee River Watershed, Covering Subwatersheds 3 through 7, Ness, Fort, Lane, and Finney Counties, Southwest Kansas*. R.D. Timberlake, editor, pp. 68-115. Kansas Historical Society, report submitted to the Soil Conservation Service, U.S. Department of Agriculture.

**Mandel, R.D.**, 1987, *Preliminary Report of Geomorphologic Investigations at Akrotiri-Aetokremnos, Cyprus*. Manuscript on file at the Social Sciences Center, Desert Research Institute, University of Nevada, Reno.

Schmits, L.J., **R.D. Mandel**, J. McKay, and J.G. Hedden, 1987, *Archaeological and Historical Investigations at Tuttle Creek Lake, Eastern Kansas*. Publications in Archaeology No. 3, Environmental Systems Analysis, Inc., report submitted to the U.S. Army Corps of Engineers, Kansas City District.

**Mandel, R.D.**, 1987, Geomorphology of the Wakarusa River Valley, Northeastern Kansas. In *Archaeological Investigations in the Clinton Lake Project Area, Northeastern Kansas: National Register Evaluation of 27 Prehistoric Sites*. Brad Logan, editor, pp. 20-34. University of Kansas, Office of Archaeological Research, Museum of Anthropology, and Kaw Valley Engineering and Development, Inc., Report submitted to the U.S. Army Corps of Engineers, Kansas City District.

**Mandel, R.D.**, 1987, Geomorphological Investigations. In *Buried in the Bottoms: The Archaeology of Lake Creek Reservoir, Montgomery County, Texas*. L.C. Bement, **R.D. Mandel**, Jesus de la Teja, D. Utley, and S. Turpin, editors, pp. 4-1--4-41. Texas Archaeological Survey, The University of Texas at Austin, Research Report 97, Austin, Texas.

**Mandel, R.D.**, 1987, Dating Techniques Applicable to Great Plains Environmental and Cultural History. In *Kansas Archaeological Preservation Plan*. K.L. Brown and A.H. Simmons, editors, pp. A-1--A-12, University of Kansas, Office of Archaeological Research, Museum of Anthropology, and the Center for Public Affairs, Lawrence, Kansas.

**Mandel, R.D.**, 1987, Late Quaternary Environments of the Great Plains: Implications for Cultural Resources Management. In *Kansas Archaeological Preservation Plan*. K.L. Brown and A.H. Simmons, editors, pp. IV-1--IV-28, University of Kansas, Office of Archaeological Research, Museum of Anthropology, and the Center for Public Affairs, Lawrence, Kansas.

**Mandel, R.D.**, 1987, The Environment of Kansas. In *Kansas Archaeological Preservation Plan*. K.L. Brown and A.H. Simmons, editors, pp. III-1--III-29, University of Kansas, Office of Archaeological Research, Museum of Anthropology, and the Center for Public Affairs, Lawrence, Kansas.

**Mandel, R.D.**, 1986, Geomorphological Investigation. In *Archaeological Investigations Along the F-518 Corridor*. S.C. Lensink, editor, pp. 27-31, 74-83, 166-166, 218-222, Iowa Quaternary Studies Contribution 9, University of Iowa, Iowa City.

**Mandel, R.D.**, 1985, Late Quaternary Bioclimatic Changes in Western Missouri. In *Prehistory of the Little Blue River Valley, Western Missouri*. L.J. Schmits, editor, pp. 80-92. ESA Cultural Resources Management Report Number 29, prepared for the U.S. Army Corps of Engineers, Kansas City District.

**Mandel, R.D.**, 1985, Geomorphology of the Little Blue Drainage Basin. In *Prehistory of the Little Blue River Valley, Western Missouri*. L.J. Schmits, editor, pp. 35-46. ESA Cultural Resources Management Report Number 29, prepared for the U.S. Army Corps of Engineers, Kansas City District.

**Mandel, R.D.**, C.J. Sorenson, and L.J. Schmits, 1985, Geology and Geomorphology of the Lower Perche-Hinkson Drainage, Central Missouri. In *Prehistory of the Lower Perche-Hinkson Drainage, Central Missouri*. L.J. Schmits, editor, pp. 45-66. ESA Cultural Resources Management Report Number 16, prepared for the U.S. Environmental Protection Agency.

**Mandel, R.D.**, 1985, Holocene Bioclimatic Change in Missouri. In *Prehistory of the Lower Perche-Hinkson Drainage, Central Missouri*. L.J. Schmits, editor, pp. 85-106. ESA Cultural Resources Management Report Number 16, prepared for the U.S. Environmental Protection Agency.

**Mandel, R.D.**, 1985, Geomorphological Investigation of the Cedar Cross Corridor. In *Phase II Intensive Cultural Resources Survey of the Cedar Cross Corridor, Dubuque County, Iowa*. D.F. Overstreet, editor, pp. 36-38. Brice, Petrides and Donahue, Inc., Waterloo, Iowa, report prepared for the City of Dubuque, Iowa.

**Mandel, R.D.**, 1985, Late Quaternary Environments of the Western Desert of Egypt. In *Human Occupation of a Marginal Environment: An Archaeological Survey Near Kharga Oasis, Egypt*.

A Simmons and R. Mandel, editors, pp. 43-77, University of Kansas Museum of Anthropology, Project Report Series Number 57.

Adair, M.J., **R.D. Mandel**, P. Clement, and A.H. Simmons, 1984, *Cultural Resources and Urban Development: The Kansas City-Topeka Corridor Project*. University of Kansas Museum of Anthropology, Project Report Series Number 55, prepared for the Kansas State Historical Society.

**Mandel, R.D.**, 1984, Geology, Geomorphology, and Soils. In *Archaeological Investigations at Prehistoric and Historic Sites in the Cassville (Stone County), Houston (Wright County), and Poplar Bluff (Wayne County) Districts of the Mark Twain National Forest, Missouri: Evaluation of National Register Eligibility*. B. Logan, editor, pp. 6-15, University of Kansas Museum of Anthropology, Project Report Series Number 57, prepared for the U.S. Forest Service.

Lees, W., M.E. Brown, and **R.D. Mandel**, 1984, *Cultural Resource Reconnaissance along the Lower West Bank of Lake Francis Case in Gregory and Lyman Counties, South Dakota*. University of Kansas Museum of Anthropology, Project Report Series Number 54, prepared for the U.S. Army Corps of Engineers, Omaha District.

Celmer, G.C., L.H. Knapp, and **R.D. Mandel**, 1984 *Phase I Intensive Cultural Resources Survey of the Cedar Cross Corridor, Dubuque, Iowa*. Brice, Petrides & Associates, Inc., Waterloo, Iowa, prepared for the City of Dubuque, Iowa.

**Mandel, R.D.**, and Larry J. Schmits, 1984, Geomorphology and Landscapes in the Milford, Melvern, and Pomona Lake Areas. In *Archaeological Inventory and Evaluation at Milford, Melvern, and Pomona Lakes, Eastern Kansas*. L.J. Schmits, editor, pp. 23-29, ESA Cultural Resources Management Report Number 26, prepared for the U.S. Army Corps of Engineers, Kansas City District.

**Mandel, R.D.**, 1983, Environmental Setting of the Chesterfield Site. In *The Chesterfield Site, 23SL-38436, St. Louis County, Missouri*, L.J. Schmits, editor, pp. 14-27, ESA Cultural Resources management Report Number 19, prepared for the U.S. Environmental Protection Agency.

**Mandel, R.D.**, 1983, Sedimentary Processes at Cape's Cave. In *Archaeological Investigations at Cold Brook and Cottonwood Springs Reservoirs, Fall River County, South Dakota*. T. Weston, editor, pp. 155-165, University of Kansas, Museum of Anthropology, Project Report Series Number 50, prepared for the U.S. Army Corps of Engineers, Omaha District.

Schmits, L.J., J. Donahue, and **R.D. Mandel**, 1983, *Archaeological and Geomorphological Inventory and Evaluation at the Proposed Fort Scott Lake Project, Southeast Kansas*, prepared for the U.S. Army Corps of Engineers, Kansas City District.

**Mandel, R.D.**, 1982, Geomorphic Investigation of the CBD Loop Arterial Project Area. In *Cultural Resources of the CBD Loop Arterial Project Area, Phase I Investigation*. D.R. Henning, editor, pp. 3.1-3.16, prepared for the City of Des Moines, Iowa.

Lees, W., **R.D. Mandel**, and P. Brockington, Jr., 1982, *Cultural Resources Inventory of Corps of Engineers Land in Oklahoma*, ETSI Pipeline Project Cultural Resources Report No. 5, prepared for P-III Associates, Salt Lake City, Utah.

Lees, W., **R.D. Mandel**, and K. Parker, 1982, *National Register Testing at 23BE1007, 23BE1008, and 23BE1010 Downstream from the Harry S. Truman Dam and Reservoir, Benton County, Missouri*, prepared for the U.S. Army Corps of Engineers, Kansas City District.

**Mandel, R.D.**, 1981, *State Reclamation Plan for Abandoned Mine Lands*, Vol. II, prepared for the Mined Land Conservation and Reclamation Board, State Corporation Commission, State of Kansas.

**Mandel, R.D.**, 1981, *Inventory of Water Resources Basic Data Sources*, Center for Public Affairs, University of Kansas, prepared for the State Water Council, State of Kansas.

**Mandel, R.D.**, 1979, *Land Use, Natural Resources and Infrastructure in Kansas: Implications for State and Regional Development*, Center for Public Affairs, University of Kansas.

**Mandel, R.D.**, 1978, A Profile of Regional Natural Resource Development Issues. In *Kansas Regional Development Strategies: Option for State Policy Planning and Action*, Vol. III, Institute for Social and Environmental Studies, University of Kansas.

**Mandel, R.D.**, 1976, Land Resource Planning Factors. In *Regional Environmental Analysis of the Houston-Galveston Region*, pp. 141-188, Texas Parks and Wildlife Department.

## **GEOLOGIC MAPS**

Newell, K.D., and **R.D. Mandel**, 2013, *Partial Surficial Geology of Rantoul and Fontana Quadrangles, Miami County, Kansas, USA*. Kansas Geological Survey, Open-file Report No. 2013-6, Lawrence, Kansas.

**Mandel, R.D.**, and K.D. Newell, 2012, *Preliminary Geology Field Maps and Stratigraphic Column, McPherson County, Kansas-- Hesston, Goessel, and Moundridge Quadrangles*. Kansas Geological Survey, Open-file Report No. 2012-8, Lawrence, Kansas.

**Mandel, R.D.**, and K.D. Newell, 2011, *Preliminary Geologic Field Maps and Stratigraphic Column, McPherson County, Kansas -- Halstead, Windom, Buhler, and Hutchinson Quadrangles*. Kansas Geological Survey, Open-file Report No. 2011-12.

**Mandel, R.D.**, and K.D. Newell, 2010, *Preliminary Geology Field Maps and Stratigraphic Column, McPherson County, Kansas -- Canton, Canton SW, Conway, Lehigh, McPherson S, McPherson SE, and Waldeck Quadrangles*. Kansas Geological Survey, Open-file Report No. 2010-6, Lawrence, Kansas.

Newell, K.D., and **R.D. Mandel**, 2009, *Preliminary Geologic Map of McPherson County, Kansas -- Galva, McPherson, and Windom Quadrangles*. Kansas Geological Survey, Open-file Report No. 2009-19, Lawrence, Kansas.

Newell, K.D., and **R.D. Mandel**, 2008, *Preliminary Geologic Field Maps and Stratigraphic Column, McPherson County, Kansas -- Gypsum, Langley, Lindsborg, Roxbury, and Marquette Quadrangles*. Kansas Geological Survey, Open-file Report No. 2008-36, Lawrence, Kansas.

## INVITED LECTURES

"The Search for Evidence of Humans in North America: Examples from the Central Great Plains." Keynote Lecture, Kansas Archaeology Day, Cowley County Community College, Arkansas City, Kansas, April 12, 2014.

"Using Geomorphology to Search for Evidence of the First Humans in North America: Examples from the Central Great Plains." Department of Geography Lecture Series, University of Kansas, Lawrence, Kansas, March 28, 2014.

"The Peopling of the New World: A Geoarchaeological Perspective." Audubon Society Lecture Series, Lawrence, Kansas, March 24, 2014.

"A Geoarchaeological Approach to the Search for Pre-Clovis Sites in North America: Examples from the Central Great Plains." Kansas Anthropological Association Lecture Series, Kansas History Center, Topeka, Kansas, February 24, 2014.

"The Search for Pre-Clovis Cultural Deposits in the Central Great Plains: Results of Odyssey Investigations at the Coffey and Scheuerman Sites." Explorations in Archaeology Lecture Series, Kansas Student Union, University of Kansas, Lawrence, Kansas, November 1, 2013.

"The Peopling of the Americas: A Great Plains Perspective." University of Kansas Community Forum, Ecumenical Christian Ministries, KU, Lawrence, Kansas, March 6, 2013.

"The Search for the First Americans: Exploring Buried Landscapes in Stream Valleys of the Central Great Plains." The Kansas City-Omaha Section of the Association of Environmental and Engineering Geologists, Kansas City, Kansas, December 4, 2012.

"Reconstructing the Paleoenvironmental Context of Early Paleoindian Sites in the Central Great Plains of Kansas." The Archaeological Association of South-Central Kansas and the Department of Anthropology, Wichita State University, Wichita, Kansas, January 12, 2012.

"The Peopling of the Great Plains: A Geoarchaeological Perspective." The Robert L. Harness Lecture Series, Hopewell Culture National Historical Park, Chillicothe, Ohio, July 22, 2010.

"The Peopling of the Central Great Plains: A Geoarchaeological Perspective." Missouri Archaeological Society 2009 Koch Lecture, Lake of the Ozarks Conference Center, April 4,

2009.

“Soils and Landscape Evolution in the Great Plains During the Past 12,000 Years: An Environmental Perspective.” Dyck Arboretum Lecture Series, Dyck Arboretum of the Plains, Hesston, Kansas, February 28, 2009.

“Geology, Geomorphology, and Late-Quaternary Paleoenvironments of the Kansas Flint Hills.” U.S. Department of Agriculture, Natural Resources Conservation Service 2008 North Central Regional Work Planning Conference, Kansas State University, Manhattan, Kansas, June 23, 2008.

“Stratigraphy, Paleoenvironments, and Paleoindian Geoarchaeology of Late Quaternary Valley Fills in the Central Plains of North America.” National Science Foundation IGERT Lecture Series in Archaeological Sciences, University of Arizona, Tucson, April 25, 2008.

“Geoarchaeology of *Ais Yorke*, a Pre-Pottery Neolithic Village in Southern Cyprus.” Explorations in Archaeology Lecture Series, University of Kansas, Lawrence, November 21, 2008.

“Buried Paleo-Indian Landscapes in Draws on the High Plains.” Technical Session, Geofest, Kansas Geological Survey, Lawrence, November 15, 2007.

“The Peopling of the Great Plains: A Geoarchaeological Perspective.” Annual Kansas Earth Science Teachers Association (KESTA) Conference, Kansas Geological Survey, Lawrence, September 28, 2007.

“Soil Geomorphology and Archaeology.” U.S. Soil Geomorphology Institute Training Program, National Soil Survey Center, Lincoln, Nebraska, March 5, 2007.

“Holocene Alluvial Stratigraphy and Soils.” U.S. Soil Geomorphology Institute Training Program, National Soil Survey Center, Lincoln, Nebraska, March 5, 2007.

“Kanorado Revisited: Paleoindian Geoarchaeology in Northwestern Kansas.” Kansas Geological Society Lecture Series, Wichita, Kansas, December 13, 2006.

“Geoarchaeology of Early Paleoindian and Possible Pre-Clovis Cultural Deposits at the Kanorado Locality, Northwestern Kansas.” Sam Noble Oklahoma Museum of Natural History Lecture Series, University of Oklahoma, Norman, Oklahoma, October 13, 2006.

“The Effects of Temporal and Spatial Patterns of Landscape Evolution on the Archaeological Record of the Central Great Plains.” Department of Anthropology Lecture Series, University of Oklahoma, Norman, Oklahoma, October 13, 2006.

“Stratigraphy and Paleopedology of the Kanorado Locality, Northwestern Kansas.” Kansas Association of Professional Soil Classifiers Annual Meeting, Banquet Lecture, University of Kansas, Lawrence, April 27, 2006.



"The Peopling of the New World: A Geoarchaeological Perspective." University of Kansas Evolutionists, Lawrence, Kansas, December 13, 2005.

"Geoarchaeology of Early Paleoindian and Possible Pre-Clovis Sites at the Kanorado Locality, Western Kansas." Department of Geosciences Lecture Series, University of Iowa, Iowa City, September 2, 2005.

"The Search for Pre-Clovis Archaeological Sites in the Midcontinent: A Geoarchaeological Approach." Kansas Geological Society Lecture Series, Wichita, Kansas, May 4, 2005.

"Temporal and Spatial Patterns of Late Quaternary Landscape Evolution in the Central Great Plains of North America." Baylor University Geoscience Lecture Series, Waco, Texas, April 29, 2005.

"Paleoindian and Pre-Clovis Sites in Kansas: A Geoarchaeological Perspective." Washburn University, Department of Sociology and Anthropology Lecture Series, Topeka, Kansas, October 14, 2004.

"Geoarchaeology of Archaic Earthworks in Northeastern Louisiana." Washington University, Department of Anthropology Lecture Series, St. Louis, Missouri, March 5, 2004.

"Late Quaternary Landscape Evolution in the Central Great Plains of North America." Washington University, Department of Earth and Planetary Sciences Lecture Series, March 4, 2004.

"The Effects of Late Quaternary Landscape Evolution on the Archaeological Record of the Central Plains of North America." Kansas Geological Society Lecture Series, Wichita, Kansas, September 12, 2003.

"Geoarchaeology of the Pleistocene-Holocene Boundary in Kansas." Archaeological Association of South-Central Kansas Lecture Series, Wichita State University, Wichita, Kansas, September 12, 2003.

"Geoarchaeology of the Paleoindian Record for the Central Great Plains." Kansas Academy of Science Distinguished Lecturer Series, Fort Hays State University and the Sternberg Museum, Fort Hays, Kansas, November 2, 2000.

"Late Quaternary Landscape Evolution and the Archaeological Record of the Great Plains." Department of Geology Lecture Series, University of Kansas, Lawrence, Kansas, September 14, 2000.

"Late Quaternary Landscape Evolution and the Peopling of the Central Great Plains." Kansas Academy of Science Distinguished Lecturer Series, Kansas Geological Survey, University of Kansas, Lawrence, Kansas, May 4, 2000.

“Geoarchaeology of Watson Break: The Oldest Mound Complex in the New World.” Harvard University, Department of Anthropology Lecture Series, November 10, 1999.

“Late Quaternary Landscape Evolution in Southeastern and South-Central Kansas.” Kansas Geological Survey Lecture Series, Lawrence, Kansas, October 14, 1997.

“Geoarchaeology, Stratigraphy, and Paleontology of the Akrotiri Aetokremnos Rockshelter: An Early Holocene Site in Southern Cyprus.” University of Kansas, Department of Geography Colloquium, Lawrence, January 22, 1996.

“Erosional and Depositional Processes Associated with High Magnitude Floods and their Effects on Cultural Resources.” Archeology and the 1993 Flood Workshop-Symposium, The National Trust for Historic Preservation, Augustana College, Sioux Falls, South Dakota, April 25, 1994.

“Holocene Landscape Evolution in Central and Southwestern Kansas.” Society of Independent Professional Earth Scientists Lecture Series, Wichita, Kansas, October 2, 1994.

“Stratigraphy, Archaeology, and Paleontology of the Akrotiri-Aetokremnos Rockshelter (Site E): An Early Occupation in Southern Cyprus.” Department of Geology Lecture Series, University of Iowa, Iowa City, March 5, 1993.

“Holocene Landscape Evolution in Western Kansas: Implications for Climatic Change.” Department of Geology Brown Bag Seminar, University of Iowa, Iowa City, March 5, 1993.

“Archaeology and Geology of the Akrotiri-Aetokremnos Rockshelter (Site E): An Early Occupation in Southern Cyprus.” Topeka Chapter of the Kansas Anthropological Association, Topeka, Kansas, February 3, 1993.

“Geoarchaeology and Paleontology of the Akrotiri-Aetokremnos Rockshelter (Site E): An Early Occupation in Southern Cyprus.” Mylan Stout Lecture Series, Department of Geology, The University of Nebraska at Lincoln, November 6, 1992.

“Excavations at Akrotiri Aetokremnos (Site E), Cyprus.” Texas A&M University, Department of Anthropology Seminar, College Station, Texas, February 11, 1991.

“Holocene Landscape Evolution in the Central Great Plains of Kansas: Pedological and Archaeological Perspectives.” Texas A&M University, Department of Soil and Crop Sciences Seminar, College Station, Texas, February 10, 1991.

“Soils and Archaeology on the Southern Coast of Cyprus.” Kansas State University, Kansas Association of Professional Soil Classifiers Dinner Lecture, Manhattan, Kansas, January 31, 1991.

“Holocene Landscape Evolution in the Central Great Plains of Kansas.” Spring meeting of the Nebraska Geological Society, Lincoln, Nebraska, March 15, 1990.

“The Collapse of a Major Neolithic Settlement in Jordan: Evidence of Over-exploitation of Natural Resources.” March meeting of the University of Nebraska’s Ecology Now, Omaha, Nebraska, March 7, 1990.

“Holocene Landscape Evolution in the Central Great Plains: Implications for Archaeological Research.” Topeka Chapter of the Kansas Anthropological Association, Topeka, Kansas, November 6, 1989.

“An Interdisciplinary Approach to Reconstructing the Evolution of Holocene Landscapes and Soils in the Central Great Plains.” Kansas State University, Agronomy Seminar Series, Manhattan, Kansas, February 23, 1989.

“A Geoarchaeological Investigation of the Pawnee River Valley, Southwestern Kansas: Implications for Holocene Landscape Evolution and Groundwater Hydrology in the High Plains.” University of Texas at Austin, Bureau of Economic Geology, Austin, Texas, February 16, 1987.

“Soils and Archaeology in the Great Plains.” Kansas Association of Professional Soil Classifiers, Kansas State University, Manhattan, Kansas, January 25, 1986.

“Quaternary Landscape Evolution in the Colorado River Valley, Central Texas.” University of Texas at Austin, Department of Geography, Austin, Texas, October 21, 1985.

“Properties of Quaternary Soils in Kansas: Implications for Groundwater Quality and Recharge.” Kansas Geological Survey Colloquium, Lawrence, Kansas, September 26, 1985.

“Geomorphology and Archaeology of ‘Ain Ghazal’, Jordan.” Kansas State University, Department of Geology Lecture Series, Manhattan, Kansas, March 5, 1985.

“Soils and Archaeology in Egypt and Jordan.” Kansas Association of Professional Soil Classifiers Annual Meeting, Banquet Lecture, Kansas State University, Manhattan, Kansas, January 23, 1985.

“Quaternary Landscapes at ‘Ain Ghazal, Jordan.” University of Kansas, Department of Geography Colloquium, Lawrence, Kansas, September 28, 1984.

“Geomorphology and Archaeology of the Western Desert of Egypt.” University of Kansas, Department of Geography Colloquium, Lawrence, Kansas, March 23, 1984.

## **PAPERS PRESENTED AT PROFESSIONAL MEETINGS (PUBLISHED ABSTRACTS)**

**Mandel, R.D.**, “The Co-Evolution of Geoarchaeology and Cultural Resource Management (CRM): A Great Plains Perspective.” Presented at the 79<sup>th</sup> Annual Meeting of the Society for American Archaeology, Austin, Texas, April, 2014. **(Invited)**  
Radovanovic, I., **R.D. Mandel**, and D. Mihailovic, “Meolithic Settlement in the Iron Gates

Region: Integrating Current Archaeological and Geoarchaeological Evidence.” Presented at the 79<sup>th</sup> Annual Meeting of the Society for American Archaeology, Austin, Texas, April, 2014.

Stites, M., R.J. Hoard and **R.D. Mandel**, “Calf Creek in Kansas: The Northwestern Frontier.” Presented at the 79<sup>th</sup> Annual Meeting of the Society for American Archaeology, Austin, Texas, April, 2014.

**Mandel, R.D.**, “The Past 10,000 Years: Evidence for Periods of Aridity from Rivers of the Central Great Plains.” Presented at the 40<sup>th</sup> Annual Great Plains Symposium: Drought in the Life, Cultures, and Landscapes of the Great Plains, University of Nebraska, Lincoln, Nebraska, April, 2014. (**Invited**)

Stites, M.D., R.J. Hoard, and **R.D. Mandel**, “Calf Creek Projectile Points in Kansas.” Presented at the 36<sup>th</sup> Annual Flint Hills Conference, Fort Osage Education Center, Sibley, Missouri, March, 2014.

**Mandel, R.D.**, “A Geoarchaeological Approach to the Search for Pre-Clovis Sites in North America: Examples from the Central Plains.” Presented at the Paleoamerican Conference, Santa Fe, New Mexico, October, 2013. (**Invited**)

Sellet, F., R. Brunswig, and **R.D. Mandel**, “The Paleoenvironmental and Archaeological Context of the Late Pleistocene-Early Holocene Transition at the KibRidge Site.” Poster presented at the Paleoamerican Conference, Santa Fe, New Mexico, October, 2013.

**Mandel, R.D.**, and E.A. Bettis III, “A 15,000 Year Record of Landscape Response to Climate Change Preserved in Alluvial Fans in Midcontinental North America.” Presented at the Annual Meeting of the Geological Society of America, Denver, Colorado, October, 2013.

**Mandel, R.D.**, “Geoarchaeology in the Great Plains of North America: A Historical Perspective. Presented at the Annual Meeting of the Geological Society of America, Denver, Colorado, October, 2013. (**Invited**)

Layzell, T.L., and **R.D. Mandel**, “An Assessment of the Lithostratigraphy and Erodibility of Holocene Alluvial Fills (DeForest Formation) in Northwestern Kansas, USA.” Poster presented at the Annual Meeting of the Geological Society of America, Denver, Colorado, October, 2013.

**Mandel, R.D.**, “Geoarchaeological Scale: A Soil-Geomorphic Approach in Searching for Stratified Paleoindian Cultural Deposits in the Central Great Plains, USA.” Presented at the Biennial Meeting of the Canadian Quaternary Association (CANQUA), Edmonton, Alberta, August, 2013 (**Invited Plenary Lecture**)

**Mandel, R.D.**, and L.R. Murphy, “Geoarchaeology and Paleoecology of the Beacon Island Site: An Agate Basin (Paleoindian) Bison Kill in Northwestern North Dakota.” Presented at the Annual Meeting of the Tertiary-Quaternary (TER-QUA) Association, University of Kansas, Lawrence, Kansas, May, 2012.

**Mandel, R.D.**, “The Application of Geoarchaeological Methods in the Search for Pre-Clovis Sites in the Central Plains of North America.” Presented at the 78<sup>th</sup> Annual Meeting of the Society for American Archaeology, Honolulu, Hawaii, April, 2013. **(Invited)**

Benson, B.E., G. Tsoflias, and **R.D. Mandel**, “Geophysical Investigations of the Mound City Borrow Pits, Ross County, Ohio.” Presented at the Annual Meeting of the Society of Exploration Geophysicists, Las Vegas, Nevada, November, 2012. **(Invited)**

**Mandel, R.D.**, “Inferring Late-Quaternary Flood Magnitudes From Buried Alluvial Paleosols in the Central Great Plains, USA.” Presented at the Annual Meeting of the Geological Society of America, Charlotte, North Carolina, October, 2012. **(Invited)**

Zung, A.B., **R.D. Mandel**, and J.J. Feddema, “Applying a Quantitative Method for Reconstructing Late-Quaternary Climate on the U.S. Great Plains Based on Buried Soil Properties.” Presented at the Annual Meeting of the Geological Society of America, Charlotte, North Carolina, October, 2012.

Dempsey, E.C., **R.D. Mandel**, and P.R. Hanson, “Landscape Evolution and Geoarchaeology of the Current River Valley, Southeast Missouri.” Presented at the Annual Midwest Archaeological Conference, East Lansing, Michigan, October, 2012.

Zung, A.B., J.J. Feddema, and **R.D. Mandel**. "Using Buried Soils to Reconstruct Past Climate: A Quantitative Approach," Soil Science Society of America Annual Meeting, Cincinnati, Ohio, October, 2012.

**Mandel, R.D.**, P.M. Stinson, J.W. Hoopes, and A.C. Egitto, “Modeling Cultural Landscapes and Water Resources: A Case Study in Afghanistan.” Presented at the 4<sup>th</sup> Annual Meeting of the COCOM Cultural Heritage Action Group, Arlington, Virginia, September, 2012. **(Invited)**

**Mandel, R.D.**, “Stratigraphy, Geoarchaeology, and Paleoenvironments of Late-Quaternary Valley Fills in Draws on the High Plains of Western Kansas.” Poster presented at the 22<sup>nd</sup> Biennial Meeting of the American Quaternary Association, Duluth, Minnesota, June, 2012.

Zung, A.B., and **R.D. Mandel**, “Late-Quaternary Landscape Evolution of the Caddo Canyons, Central Oklahoma.” Poster presented at the 22<sup>nd</sup> Biennial Meeting of the American Quaternary Association, Duluth, Minnesota, June, 2012.

Dempsey, E.C., **R.D. Mandel**, and P.R. Hanson, “Late-Quaternary Geoarchaeological Investigations in the Current River Valley, Southeast Missouri.” Poster presented at the 22<sup>nd</sup> Biennial Meeting of the American Quaternary Association, Duluth, Minnesota, June, 2012.

Hoopes, J.W., **R.D. Mandel**, P.M. Stinson, and A.C. Egitto, “Longterm Water Security in Afghanistan: Lessons from Archaeology and History.” Presented at the Environmental Security Conference, University of Kansas, Lawrence, Kansas, April, 2012.

Lynott, M.J., **R.D. Mandel**, J.A. Brown, and B. Ruby, “Earthen Monument Construction at Mound City, Ross County, Ohio: 2009-2011 Investigations.” Presented at the 77<sup>th</sup> Annual meeting of the Society for American Archaeology, Memphis, Tennessee, April, 2012. **(Invited)**

Murphy, L.R., and **R.D. Mandel**, “Paleoenvironmental Reconstruction at the Beacon Island Site, a Paleoindian Bison Kill in Northwestern North Dakota.” Presented at the 77<sup>th</sup> Annual meeting of the Society for American Archaeology, Memphis, Tennessee, April, 2012.

**Mandel, R.D.**, “The Search for Paleoindian and Pre-Paleoindian Sites in the Central Great Plains of North America: A Soils-Geomorphic Approach.” Presented at the 77<sup>th</sup> Annual Meeting of the Society for American Archaeology, Memphis, Tennessee, April, 2012. **(Invited)**

**Mandel, R.D.**, “Characteristics of Buried Alluvial Paleosols Dating to the Pleistocene-Holocene Transition in Semi-Arid Western Kansas.” Presented at the Annual Meeting of the Soil Science Society of America, San Antonio, Texas, October, 2011. **(Invited)**

**Mandel, R.D.**, and L.R. Murphy, “Geoarchaeology and Paleoenvironmental Context of the Paleoindian Cultural Deposits at the Beacon Island Site (32MN234), Northwest North Dakota.” Presented at the Annual Meeting of the Geological Society of America, Minneapolis, Minnesota, October, 2011. **(Invited)**

Lynott, M.J., **R.D. Mandel**, J.A. Brown, and B. Ruby, “New Evidence Relating to the Construction of Mound #7, Mound City Group, Chillicothe, Ohio.” Presented at the 57<sup>th</sup> Annual Meeting of the Midwest Archeological Conference, La Crosse, Wisconsin, October, 2011.

**Mandel, R.D.**, “Kirk Bryan Lecture: Buried Paleoindian-age landscapes in stream valleys of the Central Plains, USA.” Presented at the Annual Meeting of the Geological Society of America, Denver, Colorado, October, 2010. **(Invited)**

Lynott, M.J., **R.D. Mandel**, and J.A. Brown, “Earthen Monument Construction at Mound City, Ohio: 2009-2010 Investigations.” Presented at the 56<sup>th</sup> Annual Meeting of the Midwest Archeological Conference, Bloomington, Indiana, October, 2010. **(Invited)**

Zung, A.B., and **R.D. Mandel**, “Geomorphology and Soil Stratigraphy of Farra Canyon Central Oklahoma.” Poster presented at the Annual Meeting of the Geological Society of America, Denver, Colorado, October, 2010.

Zung, A.B., and **R.D. Mandel**, “Geomorphology and Soil Stratigraphy of Farra Canyon, Central Oklahoma.” Presented at the Annual Meeting of the Association of American Geographers Great Plains/Rocky Mountain Division, Lawrence, Kansas, October, 2010.

**R.D. Mandel**, C.E. Cordova, and J.L. Theler, “The Pleistocene-Holocene Transition in the Central Great Plains: A Multi-Proxy Approach to Reconstructing Paleoenvironments.” Presented at the Annual Meeting of the Association of American Geographers Great Plains/Rocky Mountain Division, Lawrence, Kansas, October, 2010. **(Invited)**

Dort, W., Jr., and **R.D. Mandel**, “Revised Interpretations of Alluvial Terraces and Fills in the Kansas River Basin.” Presented at the Annual Meeting of the Association of American Geographers Great Plains/Rocky Mountain Division, Lawrence, Kansas, October, 2010.

**Mandel, R.D.**, J.A. Mclean, and S.R. Ryan, “The Coffey Site (14PO1) revisited.” Poster presented at the 68<sup>th</sup> Annual Plains Anthropological Conference, Bismarck, North Dakota, October, 2010.

**Mandel, R.D.**, and L.R. Murphy, Geoarchaeology and paleoenvironmental context of Paleoindian cultural deposits at the Beacon Island Site, northwest North Dakota.” Presented at the 68<sup>th</sup> Annual Plains Anthropological Conference, Bismarck, North Dakota, October, 2010. **(Invited)**

**Mandel, R.D.**, “Buried alluvial paleosols dating to the Pleistocene-Holocene transition in the Central Great Plains, U.S.A.” Presented in the Plenary Session at the SEPM-NSF Workshop: “Paleosols and Soil Surface Analog Systems,” Petrified Forest National Park, Arizona, September, 2010. **(Invited)**

Kessler, N., and **R.D. Mandel**, “Landscape evolution and late-Quaternary environmental change in upper Driftwood Creek basin, south-central Kansas.” Poster presented at the 21st Biennial Meeting of the American Quaternary Association, University of Wyoming, Laramie, Wyoming, August, 2010.

Cordova, C., J. Porter, **R.D. Mandel**, W.C. Johnson, and M. Palmer, “Paleobiomes, paleopastures and paleofires: An initiative to reconstruct the evolution of post-glacial pastures of the South-Central Great Plains. Poster presented at the 21st Biennial Meeting of the American Quaternary Association, University of Wyoming, Laramie, Wyoming, August, 2010.

Holliday, V.T., and **R.D. Mandel**, “Alluvial and lacustrine stratigraphy across the Pleistocene-Holocene boundary in the Great Plains and Southwest.” Presented in the Plenary Session at the 21st Biennial Meeting of the American Quaternary Association, University of Wyoming, Laramie, Wyoming, August, 2010. **(Invited)**

**Mandel, R.D.**, J.L. Hofman, and S.R. Holen, “Geoarchaeology of stratified Early Paleoindian cultural deposits at the Kanorado Locality, northwestern Kansas.” Presented at the 75th Annual Meeting of the Society for American Archaeology, St. Louis, Missouri, April, 2010.

Gottsfeld, A. and **R.D. Mandel**, “Modeling the geologic potential for buried cultural resources in the upper Neosho River basin, east-central Kansas.” Presented at the 75th Annual Meeting of the Society for American Archaeology, St. Louis, Missouri, April, 2010.

Kessler, N., and **R.D. Mandel**, “Late-Quaternary landscape evolution and environmental change in the Red Hills of south-central Kansas: Implications for archaeological research.” Presented at the 75th Annual Meeting of the Society for American Archaeology, St. Louis, Missouri, April, 2010.

**R.D. Mandel**, “The role of geoarchaeology in the search for pre-Clovis archaeological sites.” Presented at the Annual Meeting of the Association of Earth Science Editors, Houston, Texas, October, 2009. **(Invited)**

Gottsfeld, A.S., and **R.D. Mandel**, “The geologic potential for cultural deposits in the upper Neosho River basin, eastern Kansas.” Poster presented at the Annual Meeting of the Geological Society of America, Portland, Oregon, October, 2009.

Haj, A.E., **R.D. Mandel**, and E.A. Bettis III, “Landscape response to Holocene bioclimatic change recorded in the alluvial stratigraphy of the Little Osage River valley, southeastern Kansas. Poster presented at the Annual Meeting of the Geological Society of America, Portland, Oregon, October, 2009.

**R.D. Mandel**, C.E. Cordova, and J.L. Theler, “The paleoenvironmental context of Paleoindian occupation in the Central Great Plains of Kansas: A tale of two sites.” Paper presented at the Annual Meeting of the Geological Society of America, Portland, Oregon, October, 2009. **(Invited)**

Smith, J.J., G.A. Ludvigson, **R.D. Mandel**, P.A. Macfarlane, A.E. Haj, L.R. Murphy, and A. McKee. “A record of carbon and oxygen isotope excursions from pedogenic carbonates of the Neogene High Plains succession in western Kansas.” Poster presented at the Annual Meeting of the Geological Society of America, Portland, Oregon, October, 2009.

Ray, J.H., and **R.D. Mandel**, “Late Paleoindian occupations at the Alley Mill Site, Shannon County, Missouri.” Paper presented at the Fall Symposium of the Missouri Archaeological Society, Thousand Hills State Park, Kirksville, Missouri, October, 2009.

Smith, J.J., G.A. Ludvigson, P.A. Macfarland, **R.D. Mandel**, A. Haj, L. Murphy, and A. McKee. “Carbon isotopic chemostratigraphy of Neogene strata in the High Plains Succession of Kansas.” Poster presented at the Joint Annual Meeting of the Geological Society of America and Soil Science Society of America, Houston, Texas, October, 2008.

Goldberg, P., and **R.D. Mandel**. “Paleopedology of a multi-component Paleoindian site (Big Eddy) in Southwest Missouri, USA.” Presented at the Joint Annual Meeting of the Geological Society of America and Soil Science Society of America, Houston, Texas, October, 2008.

**Mandel, R.D.** “Paleoenvironments of buried alluvial soils representing Paleoindian-age landscapes in draws on the High Plains of western Kansas.” Presented at the Joint Annual Meeting of the Geological Society of America and Soil Science Society of America, Houston, Texas, October, 2008.

**Mandel, R.D.** “Buried Paleoindian-age landscapes in stream valleys of the Central Plains, USA.” Presented at the 39th Binghamton Geomorphology Symposium, University of Texas at Austin, October, 2008. **(Invited)**

**Mandel, R.D.** “Alluvial paleosols and the Pleistocene-Holocene transition in the Central Great



Plains, U.S.A.” Poster presented at the 20<sup>th</sup> Biennial Meeting of the American Quaternary Association, Penn State University, University Park, Pennsylvania, June, 2008.

Ludvigson, G.A., J.J. Smith, P.A. Macfarlane, **R.D. Mandel**, A.E. Haj, L.R. Murphy, and A. McKee. Evidence for a regionally persistent carbon isotopic chemostratigraphy in the Neogene High Plains succession of western Kansas. Presented at the 42<sup>nd</sup> Annual Meeting of the North-Central Section of the Geological Society of America, University of Southern Indiana, Evansville, Indiana, March, 2008.

Holen, S.R., **R.D. Mandel**, and J.L. Hofman. “The Kanorado Paleoindian locality: New interpretations and radiocarbon ages. Presented at the 65<sup>th</sup> Annual Meeting of the Plains Anthropological Society, Rapid City, South Dakota, October, 2007.

Murphy, L.R., and **R.D. Mandel**, 2007, “Geoarchaeology of the Burntwood Creek Rockshelter (14RW418), Northwest Kansas.” Presented at the Annual Meeting of the Geological Society of America, Denver, Colorado, October, 2007.

Beeton, J.M., and **R.D. Mandel**, “Late Quaternary Landscape Evolution and Geoarchaeology in the Cottonwood River Basin, Flint Hills, Kansas.” Presented at the Annual Meeting of the Geological Society of America, Denver, Colorado, October, 2007.

Ludvigson, G.A., A. Haj, P.A. Macfarlane, **R.D. Mandel**, and L. Murphy. “Testing a carbon isotopic age model for the Neogene High Plains succession in western Kansas. Presented at the Annual Meeting of the Geological Society of America, Denver, Colorado, October, 2007.

Ludvigson, G.A., A. Haj, D.L. Fox, **R.D. Mandel**, and P.A. Macfarlane, “A new approach to understanding Neogene stratigraphic architecture of the High Plains succession in western Kansas using carbon isotope chemostratigraphy.” Presented at the Annual Mid-Continent Section Meeting of the American Association of Petroleum Geologists, Wichita, Kansas, September, 2007.

**Mandel, R.D.**, “Stratigraphy, paleoenvironments, and archaeological records of late Quaternary valley fills in draws on the Central High Plains of North America.” Presented at the XVII INQUA Congress, Cairns, Australia, July, 2007. (**Invited**)

**Mandel, R.D.**, “Geoarchaeology of the Richard Beene Site (41BX831), South-Central Texas.” Presented at the 72<sup>nd</sup> Annual Meeting of the Society for American Archaeology, Austin, Texas, April, 2007.

Nordt, L., T. Boutton, T., J. Jacob, and **R.D. Mandel**, “Relative C4 Plant Productivity and Temperatures of South-Central Texas Inferred from the Isotopic Composition of Buried Soil Organic Matter.” Presented at the 72<sup>nd</sup> Annual Meeting of the Society for American Archaeology, Austin, Texas, April, 2007.

**Mandel, R.D.**, “Stratigraphy, Geochronology, and Geoarchaeology of late Quaternary Alluvial Fills in Draws on the High Plains of Western Kansas.” Presented at the 41<sup>st</sup> Annual Meeting of

the South-Central Section/North-Central Section of the Geological Society of America, Lawrence, Kansas, April, 2007.

Beeton, J.M., and **R.D. Mandel**, “Late Quaternary Landscape Evolution and Geoarchaeology in the Cottonwood River Basin, Flint Hills, Kansas.” Presented at the 41<sup>st</sup> Annual Meeting of the South-Central Section/North-Central Section of the Geological Society of America, Lawrence, Kansas, April, 2007.

Hofman, J.L., and **R.D. Mandel**, “The Unsatisfied Quest for the First Americans: A Great Plains Perspective.” Presented at the 41<sup>st</sup> Annual Meeting of the South-Central Section/North-Central Section of the Geological Society of America, Lawrence, Kansas, April, 2007.

Ludvigson, G.A., E. Haj, D.L. Fox, **Mandel, R.D.**, and P.A. Macfarland, “Developing a Carbon Isotope Chemostratigraphic Approach to Understanding Neogene Stratigraphic Architecture of the High Plains Succession in Western Kansas.” Presented at the 41<sup>st</sup> Annual Meeting of the South-Central Section/North-Central Section of the Geological Society of America, Lawrence, Kansas, April, 2007.

**Mandel, R.D.**, and S. Holen, “The History of Research at the Kanorado Locality in Northwestern Kansas.” Presented at the 64th Annual Plains Anthropological Conference, Topeka, Kansas, November, 2006.

**Mandel, R.D.**, and S. Holen, “Stratigraphy and Geochronology of Early Paleoindian and Possible Pre-Clovis Cultural Deposits at the Kanorado Locality in Northwestern Kansas.” Presented at the 64th Annual Plains Anthropological Conference, Topeka, Kansas, November, 2006.

Holen, S., and **R.D. Mandel**, “The Early Paleoindian Occupation at the Cramer Site (14SN105), Kanorado Locality, Sherman County, Kansas.” Presented at the 64th Annual Plains Anthropological Conference, Topeka, Kansas, November, 2006.

**Mandel, R.D.**, J.L. Hofman, and C. Widga, “Geoarchaeology of Stratified Paleoarchaic Deposits at the Claussen Site (14WB322) in Northeastern Kansas.” Presented at the 64th Annual Plains Anthropological Conference, Topeka, Kansas, November, 2006.

**Mandel, R.D.**, S. Holen, and J.L. Hofman, “Geoarchaeology of Early Paleoindian and Possible Pre-Clovis Cultural Deposits at the Kanorado Locality, Northwestern Kansas.” Poster presented at the 19<sup>th</sup> Biennial Meeting of the American Quaternary Association, Bozeman, Montana, August, 2006.

**Mandel, R.D.**, “Geochronology and Paleopedology of Buried Paleoindian Landscapes in Large Kansas Streams.” Presented at the Annual Meeting of the Geological Society of America, Philadelphia, Pennsylvania, October, 2006.

Saunders, J.W., and **R.D. Mandel**, “Geoarchaeology of Watson Brake: Middle Archaic Earthworks in Northeast Louisiana.” Presented at the Annual Meeting of the Geological Society

of America, Philadelphia, Pennsylvania, October, 2006.

Lynott, M., and **R.D. Mandel**, “Geoarchaeological Study of an Ohio Hopewell Earthwork.” Presented at the Annual Meeting of the Geological Society of America, Philadelphia, Pennsylvania, October, 2006.

**Mandel, R.D.**, S. Holen, and J.L. Hofman, “Geoarchaeology of Early Paleoindian and Possible Pre-Clovis Cultural Deposits at the Kanorado Locality, Northwestern Kansas.” Presented at the Annual Meeting of the Geological Society of America, Salt Lake City, Utah, October, 2005.

Lynott, M., J. Weymouth, **R.D. Mandel**, R. Dalan, and B. Bevan, “Ohio Hopewell Earthen Construction: A View from the Hopeton Earthworks.” Presented at the 70th Annual Meeting of the Society for American Archaeology, Salt Lake City, Utah, April, 2005.

Wozniak, L.A., E.A. Bettis III, **R.D. Mandel**, E.R. Hajic, J.H. Ray, and N.H. Lopinot, “A Younger Dryas Carbon Isotope Record from Soil Organic Matter on the Southern Margin of the Prairie Peninsula.” Presented at the Annual Meeting of the Geological Society of America, Denver, Colorado, November, 2004.

Fosha, M., C. Widga, and **R.D. Mandel**, “Preliminary Assessment of 39BK100, a Multi-component Paleoindian Site and Possible Mammoth Kill.” Presented at the 62<sup>nd</sup> Annual Plains Conference, Billings, Montana, October, 2004.

**Mandel, R.D.**, C. Widga, Jack L. Hofman, Shannon Ryan, and Kale M. Bruner, “Early Holocene Landscape evolution and Human Occupation on the Prairie-Plains Border: Perspectives from the Claussen Site, Northeastern Kansas.” Poster presented at the 18<sup>th</sup> Biennial Meeting of the American Quaternary Association, University of Kansas, Lawrence, Kansas, June, 2004.

**Mandel, R.D.**, “Looking Across the Forest-Prairie Border: A Perspective on Late Quaternary Landscape Evolution in Stream Valleys of the Central Great Plains, USA.” Presented at the 18<sup>th</sup> Biennial Meeting of the American Quaternary Association, University of Kansas, Lawrence, Kansas, June, 2004. **(Invited)**

Hajic, Edwin R. and **R.D. Mandel**, “Landscape Evolution and Paleoindian Stratigraphy on the Eastern Plains-Ozark Boundary at the Big Eddy Site, Western Missouri.” Poster presented at the 18<sup>th</sup> Biennial Meeting of the American Quaternary Association, University of Kansas, Lawrence, Kansas, June, 2004.

Wozniak, L.A., E.A. Bettis III, **R.D. Mandel**, E.R. Hajic, J.H. Ray, and N.H. Lopinot, “A Younger Dryas Carbon Isotope Record from Soil Organic Matter on the Southern Margin of the Prairie Peninsula.” Poster presented at the 18<sup>th</sup> Biennial Meeting of the American Quaternary Association, University of Kansas, Lawrence, Kansas, June, 2004.

Holen, S.R., **R.D. Mandel**, and Jack L. Hofman, “Preliminary Evidence of Stratified Clovis Campsites on the High Plains of Northwestern Kansas.” Poster presented at the 18<sup>th</sup> Biennial

Meeting of the American Quaternary Association, University of Kansas, Lawrence, Kansas, June, 2004.

**Mandel, R.D.**, and A.H. Simmons, "Evidence for the Emergence of Complex Societies at Aceramic Neolithic Sites in Jordan and Cyprus: A Geoarchaeological Perspective." Presented at the 69th Annual Meeting of the Society for American Archaeology, Montreal, Canada, March, 2004.

Dillon, J.S., and **R.D. Mandel**, "A Proposal to Add the Honey Creek Fill as a Member of the DeForest Formation." Presented at the 114<sup>th</sup> Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska, March, 2004.

**Mandel, R.D.**, "The Effects of Temporal and Spatial Patterns of Landscape Evolution on Regional Archaeological Records." Presented at the 68th Annual Meeting of the Society for American Archaeology, Milwaukee, Wisconsin, April, 2003. **(Invited)**

Lynott, M., and **R.D. Mandel**, "The Hopeton Earthworks Project, Ross County, Ohio." Presented at the 68th Annual Meeting of the Society for American Archaeology, Milwaukee, Wisconsin, April, 2003.

**Mandel, R.D.**, and E.A. Bettis III, "Characteristics of the Severance Formation: A New Late Quaternary Lithostratigraphic Unit in the Eastern Plains of North America." Presented at the Annual Meeting of the North-Central Section of the Geological Society of America, Kansas City, Missouri, March, 2003.

**Mandel, R.D.**, and J.L. Hofman, "Peopling of the New World: A Great Plains Perspective." Presented at the Annual Meeting of the Geological Society of America, Seattle, Washington November, 2003. **(Invited)**

Holen, S.R., **R.D. Mandel**, and J.L. Hofman, "Preliminary Investigations at the Kanorado Locality: A Late Pleistocene Site in western Kansas." Presented at the 61st Annual Plains Anthropological Conference, Fayetteville, Arkansas, November, 2003.

**Mandel, R.D.**, and J.L. Hofman, "Geoarchaeology of the Winger Site: A Late Paleoindian Bison Bonebed in Southwestern Kansas." Presented at the Annual Meeting of the Geological Society of America, Denver, Colorado, October, 2002.

Hofman, J.L., **R.D. Mandel**, and M.S. Stein, "Winger: An Early Holocene Bison Bonebed in Southwestern Kansas." Poster presentation at the 60th Annual Plains Conference, Oklahoma City, Oklahoma, October, 2002.

**Mandel, R.D.**, "Geoarchaeology of the Winger Site, Southwestern Kansas." Poster presentation at the 60th Annual Plains Conference, Oklahoma City, Oklahoma, October, 2002.

Hoard, R.J., W.E. Banks, **R.D. Mandel**, M. Finnegan, and J.E. Epperson, "14DO417: An Archaic Burial from East Central Kansas." Paper presented at the Annual Flint Hills Conference,

Manhattan, Kansas, March, 2002.

**Mandel, R.D.**, E.A. Bettis III, and E. Hajic, "Paleopedology and the Carbon Isotope Record at the Big Eddy Site." Presented at the 67th Annual Meeting of the Society for American Archaeology, Denver, Colorado, March, 2002. **(Invited)**

Hajic, E. and **R.D. Mandel**, "Stratigraphy and Geochronology of the Big Eddy Site." Presented at the 67th Annual Meeting of the Society for American Archaeology, Denver, Colorado, March, 2002. **(Invited)**

**Mandel, R.D.**, "Archaeological Geology of the Pleistocene-Holocene Boundary in Stream Valleys of the Central Great Plains, U.S.A." Presented at the Annual Meeting of the Geological Society of America, Boston, Massachusetts, November, 2001.

Blackmar, J.M., **R.D. Mandel**, and J.L. Hofman, "Pleistocene-Holocene Hunters and Gatherers of the Kansas Region." Presented at the 59th Annual Plains Anthropological Conference, Lincoln, Nebraska, November, 2001.

**Mandel, R.D.**, "The Effects of Late Quaternary landscape Evolution on the Archaeological Record of Kansas." Presented at the 59th Annual Plains Anthropological Conference, Lincoln, Nebraska, November, 2001. **(Invited)**

**Mandel, R.D.**, "The Effects of Holocene Climatic Change on River Systems in the Central Great Plains of North America." Presented at the 7th International Conference on Fluvial Sedimentology, University of Nebraska-Lincoln, August, 2001.

**Mandel, R.D.**, and Joe Saunders, "Geoarchaeology of Middle Archaic Mound Complexes in Northeastern Louisiana." Presented at the 66th Annual Meeting of the Society for American Archaeology, New Orleans, Louisiana, April, 2001. **(Invited)**

**Mandel, R.D.**, "Lithostratigraphy and Geochronology of Playas on the High Plains of Western Kansas." Presented at the Annual Meeting of the Geological Society of America, Reno, Nevada, November, 2000.

**Mandel, R.D.**, "Lithostratigraphy and Geochronology of Playas on the High Plains of Western Kansas." Presented at the Annual Meeting of the Geological Society of America, Reno, Nevada, November, 2000.

**Mandel, R.D.**, "Stratigraphy and Sedimentology of the Akrotiri Aetokremnos Rockshelter, Southern Cyprus." Presented at the 65th Annual Meeting of the Society for American Archaeology, Philadelphia, Pennsylvania, April, 2000. **(Invited)**

**Mandel, R.D.**, T. Allen, P. Goldberg, and C.T. Hallmark, "Soil Formation at Watson Break, Northeast Louisiana." Presented at the 65th Annual Meeting of the Society for American Archaeology, Philadelphia, Pennsylvania, April, 2000. **(Invited)**

Collins, J.M., and **R.D. Mandel**, “Archaeological and Geomorphological Investigations at the Allen Fan Site, Hardin County, Central Iowa.” Presented at the 57th Annual Plains Anthropological Conference, Sioux Falls, South Dakota, October, 1999.

**Mandel, R.D.**, “Geoarchaeology of the Cowan Site (13WD88), Western Iowa,” Presented at the 111th Annual Meeting of the Iowa Academy of Science, Ames, Iowa, April, 1999.

Hajic, E.R., and **R.D. Mandel**, “Geoarchaeology and Paleoenvironments at the Big Eddy Site, Ozarks-Plains Boundary.” Presented at the 64th Annual Meeting of the Society for American Archaeology, Chicago, Illinois, March, 1999.

**Mandel, R.D.**, “Geoarchaeology of Large Rivers in the Central Great Plains of North America.” Presented at the 64th Annual Meeting of the Society for American Archaeology, Chicago, Illinois, March, 1999 (**Invited**)

Johnson, W.C., and **R.D. Mandel**, “Potential Pre-Clovis Sedimentary Environments in the Central Great Plains.” Presented at the Annual Meeting of the Geological Society of America, Toronto, Canada, October, 1998.

**Mandel, R.D.**, “The Effects of Holocene Climatic Change on River Systems in the Central Great Plains.” Presented at the Annual Meeting of the Geological Society of America, Toronto, Canada, October, 1998. (**Invited**)

**Mandel, R.D.**, and E.A. Bettis III, “The Effects of Temporal and Spatial Patterns of Holocene Erosion and Alluviation on the Archaeological Record of the Central and Eastern Great Plains, U.S.A.” Presented at the 63rd Annual Meeting of the Society for American Archaeology, Seattle, Washington, March, 1998.

Dillon, J.S., and **R.D. Mandel**, “Holocene Alluvial Stratigraphy in Honey Creek Basin, Southeastern Nebraska.” Presented at the 93<sup>rd</sup> Annual Meeting of the Association of American Geographers, New York City, April 1997.

**Mandel, R.D.**, “Geoarchaeology of Deeply Stratified Archaic Sites in Southeastern Kansas.” Presented at the 55th Annual Plains Anthropological Conference, Boulder, Colorado, November, 1997.

Ray, J., E.R. Hajic, **R.D. Mandel**, and N. Lopinot, “Stratified Clovis and Dalton Components at the Big Eddy Site, Southwest Missouri.” Presented at the 55th Annual Plains Anthropological Conference, Boulder, Colorado, November, 1997.

**Mandel, R.D.**, and R.J. Mallouf, “Geoarchaeology of the Big Bend Region, Southwestern Texas.” Presented at the 68th Annual Meeting of the Texas Archaeological Society, Odessa, Texas, October, 1997. (**Invited**)

Caran, S.C., and **R.D. Mandel**, “Chronology of Quaternary Deposition and Landscape Evolution in Texas.” Presented at the 68th Annual Meeting of the Texas Archaeological Society, Odessa,

Texas, October, 1997. **(Invited)**

**Mandel, R.D.**, and R.J. Mallouf, “Archaeological Geology of the Chihuahuan Desert of the Big Bend Region, Southwestern Texas.” Presented at the Annual Meeting of the Geological Society of America, Salt Lake City, Utah, October, 1997.

**Mandel, R.D.**, “Geoarchaeology of Deeply Stratified Sites in Southeastern Kansas.” Presented at the 19th Annual Flint Hills Archaeological Conference, Kansas State University, Manhattan, Kansas, March, 1997.

**Mandel, R.D.**, and C.T. Hallmark, “Physical and Chemical Properties of Soils at Watson Break, North-Central Louisiana.” Presented at the 53rd Annual Southeastern Archaeological Conference (SEAC), Birmingham, Alabama, November, 1996. **(Invited)**

Peterson J. K., **R.D. Mandel**, and D. R. Watson, “Archaeological Survey and Test Excavations on the South Fork of the Big Nemaha in Pawnee and Richardson Counties, Nebraska.” Presented at the 5th Annual Plains Conference, Iowa City, Iowa, November, 1996.

**Mandel, R.D.**, and A.H. Simmons, “Geoarchaeology of the Arkrotiri Aetokremnos Rockshelter, Southern Cyprus.” Presented at the Annual Meeting of the Geological Society of America, Denver, Colorado, October 1996. **(Invited)**

**Mandel, R.D.**, “Geomorphic Controls of the Paleoindian Record in the Central Plains of Kansas.” Presented at the 61st Annual Meeting of the Society for American Archaeology, New Orleans, Louisiana, April, 1996.

**Mandel, R.D.**, “Holocene Landscape Evolution in the Neosho River Valley, Southeastern Kansas.” Presented at the Annual Meeting of the Tertiary-Quaternary Association, Lawrence, Kansas, March, 1996.

**Mandel, R.D.**, “Soils and Holocene Landscape Evolution in Southeastern Kansas.” Presented at the Annual Meeting of the Kansas Association of Professional Soil Classifiers, Lawrence, Kansas, January, 1996.

**Mandel, R.D.**, and Carolyn G. Olson “Age and Morphology of Buried Paleosols in the Cimarron River Valley, Southwestern Kansas.” Presented at the Annual Meeting of the North-Central and South-Central Sections of the Geological Society of America, Lincoln, April, 1995. **(Invited)**

**Mandel, R.D.**, and E. Arthur Bettis III “Alluvial Fans and Archaeological Site Formation Processes in the Eastern Plains of the U.S. Presented at the Annual Meeting of the North-Central and South-Central Sections of the Geological Society of America, Lincoln, April, 1995.

Silence, Teresa, **R.D. Mandel**, and R.D. Shuster “Study of Sedimentation Processes within the Akrotiri Aetokremnos Rockshelter, Cyprus.” Presented at the Annual Meeting of the North-Central and South-Central Sections of the Geological Society of America, Lincoln, April, 1995.

**Mandel, R.D.,** L. Nordt, and J.S. Jacob “Late Quaternary Landscape Evolution and Paleoenvironments in the Medina River Valley, South-Central Texas.” Presented at the Annual Meeting of the Association of American Geographers, Chicago, March, 1995. **(Invited)**

**Mandel, R.D.** “Patterns of Holocene Erosion and Sedimentation in Western Kansas” Presented at the Annual Meeting of the American Association for the Advancement of Science, Atlanta, Georgia, February, 1995. **(Invited)**

Nordt, L., T.W. Boutton, J.S. Jacob, and **R.D. Mandel** “Late Quaternary Climates of Central Texas Based on the Stable Isotopic Composition of Organic Carbon.” Presented at the 52nd Annual Plains Conference, Lubbock, October, 1994. **(Invited)**

**Mandel, R.D.,** “Geoarchaeology of the Horace Rivers Site, Northwestern Texas Panhandle.” Presented at the 52nd Annual Plains Conference, Lubbock, October, 1994. **(Invited)**

**Mandel, R.D.** “Geoarchaeology of the Logan Creek Site, Northeastern Nebraska.” Presented at the Annual Flint Hills Conference, Topeka, Kansas, March, 1994. **(Invited)**

**Mandel, R.D.,** Joe W. Saunders, and Thurman Allen “Geoarchaeology of Archaic Mound Complexes in North-Central Louisiana.” Presented at the Annual Meeting of the Geological Society of America, Seattle, October, 1994.

**Mandel, R.D.** “Ongoing Studies of Alluvial Soils in Kansas, Nebraska, and Iowa.” Presented at the Annual Meeting of the Kansas Association of Professional Soil Classifiers, Hutchinson, Kansas, February, 1994.

**Mandel, R.D.,** and Bruce Evans “Soils and Holocene Landscape evolution in Mill Creek Valley, Johnson County, Kansas.” Presented at the Annual Meeting of the Kansas Association of Professional Soil Classifiers, Hutchinson, Kansas, February, 1994.

**Mandel, R.D.** “Geoarchaeology of the Logan Creek Site, Northeastern Nebraska.” Presented at the Annual Meeting of the Geological Society of America, Boston, October, 1993.

**Mandel, R.D.,** and E.A. Bettis III “Recognition of the DeForest Formation in the Midwest U.S.A.: Implications for Archaeological Research.” Presented at the 58th Annual Meeting of the Society for American Archaeology, St. Louis, Missouri, April, 1993. **(Invited)**

**Mandel, R.D.** “Paleosols Developed in Holocene Valley Fill of the Medina River, South-Central Texas.” Presented at the Annual Meeting of the Kansas Association of Professional Soil Classifiers, Lawrence, Kansas, January, 1993.

**Mandel, R.D.** “Geoarchaeological Research in the Central Plains of Kansas: An Historical Perspective.” Presented at the 50th Annual Plains Anthropological Conference, Lincoln, Nebraska, November, 1992.

**Mandel, R.D.** “Geomorphology and Stratigraphy of the Logan Creek Site (25BT3),



Northeastern Nebraska.” Presented at the 50th Annual Plains Anthropological Conference, Lincoln, Nebraska, November, 1992.

**Mandel, R.D.** “Age and Morphology of Buried Paleosols Developed in Holocene Alluvium of the Lower Medina River, South-Central Texas.” Presented at the Annual Meeting of the Rocky Mountain - Great Plains Sections of the Association of American Geographers, Manhattan, Kansas, October, 1992.

Sorenson C.J., **R.D. Mandel**, and J.S. Jacob “Properties and Genesis of an Iron-Cemented Paleosol Developed in Pleistocene Alluvium of the Colorado River, South-Central Texas.” Presented at the Annual Meeting of the Rocky Mountain - Great Plains Sections of the Association of American Geographers, Manhattan, Kansas, October, 1992.

**Mandel, R.D.**, and A.H. Simmons “Geoarchaeology of the Akrotiri-Aetokremnos Rockshelter (Site E): An Early Occupation in Southern Cyprus.” Presented at the Annual Meeting of the Geological Society of America, Cincinnati, October, 1992.

**Mandel, R.D.** and E. A. Bettis, III. “Recognition of the DeForest Formation in the East-Central Plains: Implications for Archaeological Research.” Presented at the Annual Meeting of the North-Central Geological Society of America, Iowa City, Iowa, April, 1992. (**Invited**)

**Mandel, R.D.** “Geoarchaeology of a Deeply Stratified Paleoindian through Late Prehistoric Site (41BX831) in the Medina River Valley, South Texas.” Presented at the 57th Annual Meeting of the Society for American Archaeology, Pittsburgh, Pennsylvania, April, 1992.

**Mandel, R.D.** “Patterns of Sediment Storage and Removal in the Lower Kansas River Basin, Northeast Kansas: Implications for Archaeological Research.” Presented at the 49th Annual Plains Anthropological Conference, Lawrence, Kansas, November, 1991. (**Invited**)

**Mandel, R.D.** “Geoarchaeology of a Deeply Stratified Paleoindian through Late Prehistoric Site (41BV831) in the Lower Medina River Valley, South Texas.” Presented at the 49th Annual Plains Anthropological Conference, Lawrence, Kansas, November, 1991.

**Mandel, R.D.** “Geoarchaeology of the Lower Medina River Valley, South-Central Texas.” Presented at the Annual Meeting of the Geological Society of America, San Diego, October, 1991.

**Mandel, R.D.** “Geoarchaeology of the Stigenwalt Site, Southeastern Kansas.” Presented at the 56th Annual Meeting of the Society for American Archaeology, New Orleans, Louisiana, April, 1991.

Bozell, R., J. Ludwickson, and **R.D. Mandel** “Recent Nebraska Phase Archaeology in the South Bend Locality.” Presented at the 13th Annual Flint Hills Archeological Conference, University of Nebraska, Lincoln, March, 1991.

**Mandel, R.D.** “Chronostratigraphy of the Stigenwalt Site, Southeast Kansas: Implications for

Holocene Climatic Change.” Presented at the Institute for Tertiary-Quaternary Studies Symposia, University of Kansas, Lawrence, Kansas March, 1991.

**Mandel, R.D.** “Paleosols Developed in Holocene Valley Fill of the Upper Brazos River, Northeast Texas.” Presented at the Annual Soil Survey and Land Resource Workshop, Texas A&M University, College Station, Texas, February, 1991. **(Invited)**

**Mandel, R.D.,** and Dan Owens “Paleosols Developed in Late-Quaternary Valley Fill, Southeastern Kansas.” Presented at the Annual Meeting of the Kansas Association of Professional Soil Classifiers, Manhattan, Kansas, January, 1991.

**Mandel, R.D.** “Morphology of Buried Paleosols in Holocene Alluvium, Southwest Kansas.” Presented at the Annual Meeting of the Soil Science Society of America/American Society of Agronomy, San Antonio, Texas, October, 1990.

Davis, J.O., A.H. Simmons, **R.D. Mandel,** and G. Rollefson “A Postulated Early Holocene Summer Precipitation Episode in the Levant: Effects on Neolithic Adaptations.” Presented at the 55th Annual Meeting of the Society for American Archaeology, Las Vegas, Nevada, April, 1990.

**Mandel, R.D.** “Morphology of Holocene-age Buried Paleosols Developed in Valley Fill of the Pawnee River, Southwestern Kansas.” Presented at the Annual Meeting of the Association of American Geographers, Toronto, Canada, April, 1990.

**Mandel, R.D.** “Holocene Landscape Evolution and Buried Soils within the Pawnee River Valley, Southwestern Kansas.” Presented at the Annual Meeting of the Kansas Association of Professional Soil Classifiers, Lawrence, Kansas, January, 1990.

**Mandel, R.D.** “Alluvial Fan Development in the East-Central Plains: A Case Study of the Stigenwalt Site.” Presented at the Annual Meeting of the Flint Hills Archaeological Conference, Kansas City, March, 1989.

**Mandel, R.D.** and Alan H. Simmons “Playas and the Distribution of Archaeological Sites Near Kharga Oasis in the Western Desert of Egypt.” Presented at the Annual Meeting of the Geological Society of America, St. Louis, Missouri, November, 1989. **(Invited)**

**Mandel, R.D.** “Landscape Evolution and Archaeology in the Brazos River Basin, North-Central Texas.” Presented at the 23rd Annual Meeting of the South-Central Section of the Geological Society of America, Arlington, Texas, March, 1989. **(Invited)**

**Mandel, R.D.** “Holocene Landscape Evolution in the Central Great Plains: Implications for Archaeological Research.” Presented at the 11th Annual Flint Hills Archaeological Conference, Lawrence, Kansas, March, 1989.

**Mandel, R.D.** “Geoarchaeology of the Upper Brazos River Basin, North-Central Texas.” Presented at the 46th Annual Plains Conference, Wichita, Kansas, November, 1988.

**Mandel, R.D.** “The Effects of Parent Materials on Soil Morphology: Implications for Determining Rates of Pedogenesis.” Presented at the Annual Meeting of the Association of American Geographers, Phoenix, Arizona, April, 1988. **(Invited)**

**Mandel, R.D.** “Holocene Landscape Evolution in Central and Southwestern Kansas: Implications for Archaeological Studies.” Presented at the 53rd Annual Meeting of the Society for American Archaeology, Phoenix, Arizona, April, 1988. **(Invited)**

Kafafi, Z., **R.D. Mandel**, and A.H. Simmons “The ‘Ain Ghazal Survey: Human Occupation of the Wadi Zarqa, Central Jordan.” Presented at the 53rd Annual Meeting of the Society for American Archaeology, Phoenix, Arizona, April, 1988.

Karlstrom, E., W. Dort, Jr., D. Dahms, **R.D. Mandel**, and C.J. Sorenson “Properties and Paleoclimatic Significance of a Strongly Developed Soil in ‘Kansas’ Till, Kansas.” Presented at the 22nd Annual Meeting of the South-Central Section of the Geological Society of America, Lawrence, Kansas, March, 1988.

**Mandel, R.D.** “Holocene Landscape Evolution in the Smoky Hill River Valley, North-Central Kansas.” Presented at the 22nd Annual Meeting of the South-Central Section of the Geological Society of America, Lawrence, Kansas, March, 1988.

Caran, S.C., and **R.D. Mandel** “Quaternary Terrace Stratigraphy and Geomorphology of the Texas Gulf Coastal Plains.” Presented at the 22nd Annual Meeting of the South-Central Section of the Geological Society of America, Lawrence, Kansas, March, 1988.

**Mandel, R.D.** “Geomorphology and Soils in the Lower Smoky Hill River Valley, Ellsworth County, Kansas.” Paper presented at the Annual Winter Meeting of the Kansas Association of Soil Classifiers, Salina, Kansas, January, 1988.

**Mandel, R.D.**, A.H. Simmons, and W. Farrand “Preliminary Observations on the Geomorphology of “Ain Ghazal, Jordan.” Paper presented at the 53rd Annual Meeting of the Society for American Archaeology, Toronto, Canada, May, 1987.

**Mandel, R.D.** “Holocene Landscape Evolution Inferred from Alluvial Paleosols in the Pawnee River Basin, Southwestern Kansas.” Paper presented at the Annual Meeting of the Association of American Geographers, Portland, Oregon, April, 1987. **(Invited)**

**Mandel, R.D.** “Soils and Archaeology in Lake Creek Valley, Montgomery County, Texas.” Paper presented at the 1987 Soil Survey and Land Resource Workshop, Texas A&M University, College Station, Texas, February, 1987.

**Mandel, R.D.** “Soils and Holocene Landscapes in the Pawnee River Valley, Southwestern Kansas.” Paper presented at the Annual Winter Meeting of the Kansas Association of Soil Classifiers, Lawrence, Kansas, February, 1987.

**Mandel, R.D.** and R. Timberlake “Geoarchaeology of the Pawnee River Valley, Southwestern

Kansas.” Paper presented at the 44th Annual Plains Conference, Denver, Colorado, November, 1986.

Lensink, S., and **R.D. Mandel** “The Geomorphology and Archaeology of Upland Sites in the Southeastern Iowa.” Paper presented at the 43rd Annual Plains Conference, Iowa City, Iowa, October, 1985.

**Mandel, R.D.**, C.J. Sorenson, and D. Jackson “Estimating Erosion Rates and Sediment Yields on Drastically Disturbed Lands.” Presented at the 8th Annual Meeting of the Applied Geography Conference, Denton, Texas, October, 1985. **(Invited)**

**Mandel, R.D.**, and E.A. Bettis III “Evolution of Holocene Landscapes in River Valleys of the East-Central Plains: Extrinsic and Intrinsic Factors in Fluvial Systems.” Presented at the 4th Annual Symposium of the Tertiary-Quaternary Association (TERQUA), Lawrence, Kansas, October, 1985.

**Mandel, R.D.**, and A.H. Simmons “Geomorphology and Archaeology of the Western Desert Egypt.” Presented at the 50th Annual Meeting of the Society for American Archaeology, Denver, Colorado, May, 1985.

**Mandel, R.D.** “Terraces and Alluvial Paleosols in the Lower Missouri River Basin: A Case Study.” Presented at the 42nd Annual Plains Conference, Lincoln, Nebraska, October, 1984. **(Invited)**

**Mandel, R.D.** “Quaternary Bioclimatic Changes Inferred from Alluvial Paleosols and Relict Vegetation in Central Texas.” Presented at the 3rd Annual Symposium of the Tertiary-Quaternary Association (TERQUA), Dallas, Texas, October, 1984.

**Mandel, R.D.**, and T.H.L. Williams “An Integrated Inventory and Evaluation of Abandoned Coal Mine Lands in Kansas.” Presented at the Fall Convention of the American Congress on Surveying and Mapping/American Society of Photogrammetry, Salt Lake City, Utah, October, 1983.

**Mandel, R.D.** “Properties and Origin of a Relict Oxisol in South-Central Texas.” Presented at the 75th Annual Meeting of the American Society of Agronomy-Soil Science of America, Washington, D.C., August, 1983.

**Mandel, R.D.** “Research and Development in Abandoned Mine Land Reclamation: The Kansas Prototype Study.” Presented at the 5th Annual National Abandoned Mine Land Reclamation Conference, Tulsa, Oklahoma, August, 1983. **(Invited)**

**Mandel, R.D.**, C.J. Sorenson, and D. Jackson “A Study of Erosion-Sedimentation Processes on Abandoned Coal Refuse Piles in Southeastern Kansas.” Presented at the 1982 National Symposium on Surface Mining, Hydrology, Sedimentology and Reclamation, Lexington, Kentucky, December, 1982.

**Mandel, R.D.** “Environmental Impacts of Abandoned Mined Lands in Southeastern Kansas.” Presented at the First Annual Kansas State University Symposium on Rehabilitation of Mined-Land Disturbances in the Western United States, Manhattan, Kansas, March, 1982. **(Invited)**

**Mandel, R.D.** “Costs and Potentials for Reclaiming Abandoned Mined Lands as Fish and Wildlife Management Areas.” Presented at the 43rd Midwest Fish and Wildlife Conference, Wichita, Kansas, December, 1981.

**Mandel, R.D.** “Erosion-Sedimentation Problems Associated with Mine Spoils in Southeastern Kansas.” Presented at the S.C.S. Soil Survey Work-Planning Conference, Kansas State University, Manhattan, Kansas, August, 1981.

Sorenson, C.J., and **R.D. Mandel** “Mine-Soil Characteristics and Erosion-Sedimentation Potentials in Abandoned Mined Lands of Southeastern Kansas.” Presented at the Seventy-Seventh Annual Meeting of the Association of American Geographers, Los Angeles, California, April, 1981.

**Mandel, R.D.** “Soil Genesis on Terraces of the Colorado River in South-Central Texas: A Paleoenvironmental Interpretation.” Presented at the S.C.S. Soil Survey Work-Planning Conference, College Station, Texas, February, 1979.

Sorenson, C.J., and **R.D. Mandel** “The Impact of the Western Harvester Ant (*Pogonomyrmex occidentalis*) on Soil Formation and on Soil Ecology.” Presented at the Great Plain-Rocky Mountain Divisional Meeting of the Association of American Geographers, Denver, Colorado, October, 1978.

**Mandel, R.D.** “Paleosols Developed on Quaternary Terraces of the Colorado River in Central and South-Central Texas.” Presented at the 12th Annual Meeting of the South-Central Section of the Geological Society of America, Tulsa, Oklahoma, March, 1978.

**Mandel, R.D.**, and J. Wallis “Pedogenesis of Soils Developed on Terraces of the Colorado River in East-Central Texas.” Presented at the Seventy-Third Annual Meeting of the Association of American Geographers, Salt Lake City, Utah, April, 1977.

Sorenson, C.J., **R.D. Mandel**, and J. Wallis “Changes in Bioclimate Inferred from the Distribution of Paleosols Along Rivers.” Presented at the Seventy-First Annual Meeting of the Association of American Geographers, Milwaukee, Wisconsin, April, 1975.

**Mandel, R.D.** “Paleosols and Paleoenvironmental Reconstruction Along the Texas Colorado.” Presented at the S.C.S. Soil Survey Technical Work-Planning Conference in College Station, Texas, February, 1975.

**Mandel, R.D.** “Soil Development on the Edwards Plateau and Southern Black Prairies.” Presented at the University of Texas Summer Field Institute, Austin, Texas, June, 1974.

**Mandel, R.D.** “Ant (*Pogonomyrmex barbatus*) Pedoturbation in Alluvial and Thin Hill Soils of

Texas. “ Presented at the Southwestern Social Science meeting in Dallas, Texas, March, 1974.

## **SERVICE**

### **Service Inside the University**

#### *K.U. Anthropology Department*

1. Member, Faculty Evaluation Committee, 2012-2013
2. Member, Promotion & Tenure Committee for Dr. Akiko Takeyama, 2013
3. Member, Undergraduate Committee, 2012
4. Chair, Promotion Committee for Dr. John Hoopes (Associate to Full Professor), 2012
5. Chair, Three-Year Review Committee for Frederic Sellet, 2011-2012
6. Member, Graduate Committee, 2011-2012.
7. Member, Promotion Committee for Arienne Dwyer (Associate to Full Professor), 2011.
8. Member, Ad hoc committee to study concentrations in Anthropology, 2010-2011
9. Member, Faculty Committee for the Carroll Clark Lecture Series, 2008-2011.
10. Member, Curriculum Committee, 2009-2011.
11. Member, Faculty Search Committee, archaeology position, 2009-2010.
12. Member, Faculty Search Committee, archaeology position, 2008.
13. Departmental Representative, KU's United Way Campaign, 2008.
14. Member, Faculty Search Committee, biological anthropology position, 2004.

#### *Kansas Geological Survey*

1. Member, Kansas Geological Survey's Promotion and Review Committee, 2010- 2013.
2. Chair, Kansas Geological Survey's Promotion and Review Committee, 2011.
3. Member, Search committee for hiring a geologic sample Research Technician, a joint position shared by the Kansas Geological Survey and the KU Department of Geology, 2008.
4. Member, Search committee for hiring a Post-Doctoral Research Associate specializing in Neogene stratigraphy and modern pedogenic processes in the Stratigraphic Research Section, 2007.
5. Chair, Search committee for hiring a Post-Doctoral Research Associate specializing in Neogene stratigraphy and modern pedogenic processes, Stratigraphic Research Section, 2006.
6. Member, Search committee for hiring a Field Research Assistant in Exploration Services, 2005.

#### *Department of Geography*

1. Representative on the Planning and Curriculum Committee, Department of Geography-Meteorology, University of Kansas, 1977-1978.

## *University*

1. Member, Kansas Board of Regents' Higuchi Award Committee, 2013-2014.
2. Member, Social Sciences General Research Fund Selection Committee, 2006-2007, 2010.

## **Service Outside the University**

### *Local and State*

1. Guest speaker, "20,000 Years of Change: Plants, Animals, and People in the Flint Hills" Symphony in the Flint Hills Heritage Program, June 14, 2014, Butler County, Kansas.
2. Guest speaker, "20,000 Years of Change: Plants, Animals, and People in the Flint Hills" Symphony in the Flint Hills Heritage Program, June 11, 2012, Lyon County, Kansas.
3. Taught a two-day geoarchaeology class for the Kansas Anthropological Association's Training Program, Kansas State Historical Society, Topeka, Kansas. June 10-11, 2012.
4. Guest speaker, "The Claussen Archaeological Site: Prehistory of the Flint Hills" Symphony in the Flint Hills Heritage Program, June 11, 2011, Wabaunsee County, Kansas.
5. Guest speaker, "Environmental Change and the Peopling of the Flint Hills After the Ice Age." Symphony in the Flint Hills Heritage Program, June 12, 2010, Chase County, Kansas.
6. Taught a two-day geoarchaeology class for the Kansas Anthropological Association's Training Program, Pawnee Indian Village State Historic Site, Kansas. June 12-13, 2008.
7. Guest speaker, "The Peopling of the Great Plains: A Geoarchaeological Perspective." Annual Kansas Earth Science Teachers Association (KESTA) Conference, Kansas Geological Survey, Lawrence, September 28, 2007.
8. Field trip leader to the Claussen site in Northeastern Kansas, for the Kansas Earth Science Teachers Association (KESTA) Conference, Kansas Geological Survey, September 29, 2007.
9. Co-leader (with Rex Buchanan and others) of a field trip to the Tallgrass Prairie National Preserve, Chase County Kansas, sponsored by the Kansas Geological Survey for the Kansas Academy of Science, October, 2003.
10. Served on the awards panel for student papers presented at the annual meeting of the Kansas Chapter of Sigma Xi, University of Kansas, March, 2003.
11. Taught a two-day geomorphology course at the Kansas Anthropological Association's field school in Lindsborg, Kansas, June 17 and 18, 1993.
12. Field trip leader for the Kansas Association of Professional Soil Classifiers and U.S.D.A.-Soil Conservation Service, "Quaternary Landscapes and Soils in the Upper Delaware River Valley, Northeast Kansas," Sabetha, Kansas, November 10, 1990.
13. Field trip leader for the Kansas Association of Professional Soil Classifiers and U.S.D.A.-Soil Conservation Service, "Late-Quaternary Paleosols in the Pawnee River Valley of Southwestern Kansas," Dodge City, Kansas, October 28-29, 1989.
14. Organizer and chair of a special session at the annual meeting of the Kansas Academy of Science, "Land Use Analyses: The Urban and Rural Environment," University of Kansas,

- 1978.
15. Organizer and chair of a special session at the annual meeting of the Kansas Academy of Science, "Land Use Analyses: The Urban and Rural Environment," University of Kansas, 1978.
16. Guest speaker, "The Peopling of the Great Plains: The Search for Evidence in Kansas and Nebraska, Lewellen Community Center, Lewellen, Nebraska, July 7, 2009.

### *Regional*

1. Guest speaker, "Geology, Geomorphology, and Late-Quaternary Paleoenvironments of the Flint Hills." North Central Region Work Planning Conference, U.S. Department of Agriculture, Natural Resources Conservation Service, Kansas State University, June 23, 2008.
2. Co-organizer and co-chair of a symposium, "Geoarchaeological and Geomorphological Explorations in the Midcontinent: In Honor of Wakefield Dort, Jr.," 41st Annual Meeting of the South-Central Section/North-Central Section of the Geological Society of America, Lawrence, Kansas, April, 2007.
3. Organizer and trip leader, "Geoarchaeology of the Claussen Site (14WB322)," 64th Annual Plains Anthropological Conference, November 8, 2006.
4. Organizer and chair of a special session, "Quaternary Geology of the Midwest," North-Central Section Meeting of the Geological Society of America, Kansas City, Missouri, March, 2003.
5. Field trip leader, Midwest Friends of the Pleistocene (FOP) 2000 Field Conference, "Quaternary Landscapes and Paleoenvironments in Southeastern Nebraska and Northeastern Kansas," Hiawatha, Kansas, June 2-3, 2000.
6. Field trip leader, North-Central Section Meeting of the Geological Society of America, "Late Quaternary Landscape Evolution and Stratigraphy in Northeastern Kansas and Southeastern Nebraska," Kansas City, Missouri, March, 2003.
7. Co-organizer and co-chair of a symposium at the 55th Annual Plains Anthropological Conference, "Archaeological Geology of the Archaic Period in the Great Plains," Boulder, Colorado, November, 1997.
8. Member of the Editorial Board, *Journal of the Iowa Archeological Society*, May, 1993-Present.
9. Field trip leader for the South-Central Friends of the Pleistocene Field Conference, "Late Cenozoic Alluvial Stratigraphy and Prehistory of the Inner Gulf Coastal Plain, South-Central Texas," March 24-26, 1992.
10. Organizer and chair of a symposium at the 50th Annual Plains Conference, "Geoarchaeological Research in the Great Plains: 50 Years of Progress," Lincoln, Nebraska, November, 1992.
11. Chair of round-table discussion, "Geoarchaeological Research in the Great Plains," at the 50th Annual Plains Conference, Lincoln, Nebraska, November 1992.
12. Organizer and co-chair of a symposium at the Annual Meeting of the Rocky Mountain - Great Plains Divisions of the Association of American Geographers, "Soils and Geomorphology," Manhattan, Kansas, October, 1992.
13. Organizer and chair of a symposium at the 49th Annual Plains Conference, "Geomorphological and Paleoenvironmental Research," Lawrence, Kansas, November,



1991. Chair of round-table discussion, "Geoarchaeological Research in the Great Plains," at the 49th Annual Plains Conference, Lawrence, Kansas, November 1991.
14. Field trip leader at the 1989 Big Bend National Park Seminar, Big Bend Natural History Association, "The Environment and Prehistory of Big Bend National Park," Big Bend National Park, Texas, March 17, 1989.
15. Organizer and chair of a symposium at the 46th Annual Plains Conference, "Geomorphological Research in the Great Plains," Wichita State University, Wichita, Kansas, November, 1988.
16. Field trip leader at the 46th Annual Plains Conference, "Geomorphology and Archaeology of the Smoky Hill River Valley, North-Central Kansas," Wichita State University, Wichita, Kansas, November, 1988.
17. Organizer and co-chair of a symposium at the 22nd Annual Meeting of the South-Central Section of the Geological Society of America. "Geomorphology, Quaternary Geology, and Soils," University of Kansas, Lawrence, Kansas, March, 1988.
18. Organizer and chair of a symposium at the 43rd Annual Plains Conference. "Geoarchaeology and Paleoenvironmental Research in the Great Plains," University of Iowa, Iowa City, October, 1985.
19. Field trip leader at the joint meeting of the West Lakes/Great Plains-Rocky Mountain Divisions of the Association of American Geographers, "Drastically Disturbed Coal-Mine Lands in Southeastern Kansas," University of Kansas, Lawrence, November, 1984.
20. Chair of two special sessions at the joint meeting of the West Lakes/Great Plains-Rocky Mountain Divisions of the Association of American Geographers, "Geomorphology" and "Climatology," University of Kansas, Lawrence, Kansas, November, 1984.
21. Organizer and chair of a special session at the annual meeting of the West Lakes Division of the Association of American Geographers, "Coal Mining: Environmental Problems and Reclamation Alternatives," Indiana State University, Terre Haute, Indiana, October, 1982.

### *National*

1. Committee Member, Fryxell Award for Interdisciplinary Research, Society for American Archaeology, 2014-2018.
2. Served as an instructor at the Soil Science Institute, sponsored by the U.S. Department of Agriculture/Natural Resources Conservation Service, "Soils and Geomorphology," Kansas State University, Manhattan, Kansas, June 19, 2014.
3. Organizer and co-leader of a field trip, "The Richard Beene Site." 79<sup>th</sup> Annual Meeting of the Society for American Archaeology, Austin, Texas, April 23, 2014.
4. Organized and co-chaired a session, "The Cramer Endowments, Private Funding, and the Search for the First Americans: A Session in Memory of Joseph L. Cramer," 79<sup>th</sup> Annual Meeting of the Society for American Archaeology, Austin, Texas, April, 2014.
5. Chair, Awards Committee, Geological Society of America's Archaeological Geology Division, 2008-2014.
6. Committee Member, American Philosophical Society, Lewis and Clark Fund for Exploration and Field Research, 2013-2014.
7. Organized the annual meeting (including the scientific program) of the Society for

- Cenozoic Research, University of Kansas, Lawrence, May 25-26, 2013.
8. President, Society for Cenozoic Research, 2013-2014.
  9. Co-organizer of the SERC-NSF On the Cutting Edge Workshop. *Teaching Climate Change from the Geologic Record: Insights from Large Lakes*, co-sponsored by the U.S. National Committee for the International Union for Quaternary Research and the American Quaternary Association, University of Minnesota-Duluth, June 19-20, 2012.
  10. Organizer and leader of field trip, "Soils and Quaternary Landscape Evolution in the Medina River Valley, South-Central Texas," Annual Meeting of the Soil Science Society of America, San Antonio, Texas, October 15, 2011.
  11. Associate Editor, *Current Research in the Pleistocene*, Center for the Study of the First Americans, 2011.
  12. Served as an instructor at the Soil Science Institute, sponsored by the U.S. Department of Agriculture/Natural Resources Conservation Service, "Soils and Geomorphology," Kansas State University, Manhattan, Kansas, June 9, 2011.
  13. Served as an instructor at the Cutting Edge Workshop: *Teaching Climate Change from the Geologic Record*, co-sponsored by the U.S. National Committee for the International Union for Quaternary Research and the American Quaternary Association, University of Wyoming, Laramie, Wyoming, August 11, 2010.
  14. Organized and chaired the Science Program for the 21st Biennial Meeting of the American Quaternary Association, University of Wyoming, Laramie, Wyoming, August 13-15, 2010.
  15. Associate Editor, *Encyclopedia of Geoarchaeology*. Springer Press, 2007-present.
  16. Liaison between the Geological Society of America and the Society for American Archaeology 1994-Present.
  17. Elected President of the American Quaternary Association (AMQUA), a 900-member organization; served as President-Elect 2007-2008; served as President 2009-2010.
  18. Co-organizer and co-chair of a topical session, "Soils as Components of Archaeological Landscapes," Annual Meeting of the Geological Society of America, Houston, Texas, October 6, 2008.
  19. Co-organizer and co-chair of a topical session, "The Application of Geologic and Pedologic Methods and Theories in Determining the Origin of Mima Mounds and Similar Anomalies," Annual Meeting of the Geological Society of America, Houston, Texas, October 5, 2008.
  20. Organizer and co-leader of field trip, "The Origin of the Sandy Mantle and Mima Mounds of the East Texas Gulf Coastal Plain: Geomorphological, Pedological, and Geoarchaeological Perspectives," Annual Meeting of the Geological Society of America, Houston, Texas, October 4, 2008.
  21. Reviewer for the National Science Foundation's Paleo Perspectives on Climate Change Program, 2008.
  22. Co-organizer and co-chair of a symposium, "Late Pleistocene and Holocene Paleoeecology and Archaeology at the Richard Beene Site, Coastal Plain, South-Central North America," 72nd Annual Meeting of the Society for American Archaeology, Austin, Texas, April, 2007.
  23. Reviewer for the National Science Foundation's Paleo Perspectives on Climate Change Program, 2007.
  24. Reviewer for the National Geographic Society's Funded Research Program, 2007.

25. Organizer and chair of a theme session, "Geoarchaeology of Prehistoric Earthworks," Annual Meeting of the Geological Society of America, Philadelphia, Pennsylvania, October 24, 2006.
26. Chair, Committee for the Douglas C. Kellogg Fund for Geoarchaeological Research, Society for American Archaeology, 2002-2006.
27. Served on the Council of the American Quaternary Association (AMQUA), Representing Archaeology and Geoarchaeology, 2002-2006.
28. Representative, Geological Society of America Joint Technical Program Committee, 2006-2005.
29. Chair, Geological Society of America's Archaeological Geology Division's Awards Committee, 2004.
30. Chair, 18<sup>th</sup> Biennial Meeting of the American Quaternary Association, University of Kansas, June 26-28, 2004.
31. Organizer and fieldtrip leader, "Late Quaternary Alluvial Stratigraphy and Geoarchaeology in the Central Great Plains," 18<sup>th</sup> Biennial Meeting of the American Quaternary Association, Lawrence, Kansas, June 28-30, 2004.
32. Organizer and fieldtrip leader, "Buried Paleo-Indian Landscapes and Sites on the High Plains of Northwestern Kansas," Annual Meeting of the Geological Society of America, Denver, Colorado, November 6, 2004.
33. Discussant for symposium entitled "Landscape and Landuse: Geoarchaeological Approaches to Human Impact," 67th Annual Meeting of the Society for American Archaeology, Denver, Colorado, March, 2002.
34. Co-chair of round-table discussion, "Geoarchaeology," at the 67th Annual Meeting of the Society for American Archaeology, Denver, Colorado, March, 2002.
35. Member of the External Awards Committee, Geological Society of America, 2000-2002.
36. Founder of the Geoarchaeology Interest Group, Society for American Archaeology, 1997.
37. Chair, Geoarchaeology Interest Group, Society for American Archaeology, 1997-2001.
38. Editor, *Newsletter* of the Geoarchaeology Interest Group, Society for American Archaeology, 1997-2000.
39. Chair, Archaeological Geology Division of the Geological Society of America, 1997-1998.
40. Organizer and co-chair of the Archaeological Geology Division's Symposium at the Annual Meeting of the Geological Society of America, "Archaeological Geology of Arid Environments: Dedicated to the Late Jonathan O. Davis," Salt Lake City, Utah, October, 1997.
41. Liaison between the Geological Society of America and the Society for American Archaeology, 1994-Present.
42. Editor, *Newsletter* of the Archaeological Geology Division of the Geological Society of America, 1994-2000.
43. Chair of the Geoarchaeology General Session at the Annual Meeting of the Geological Society of America, San Diego, California, October 1991.
44. Organizer and co-chair of a symposium at the Annual Meeting of the Association of American Geographers. "Soil Genesis and Soil Geography Symposium in Honor of Francis H. Hole," Phoenix, Arizona, April, 1988.

## *International*

1. Chair of the U.S. National Committee for the International Union for Quaternary Research (INQUA), The National Academies, 2012-2016.
2. Member of the U.S. National Committee for the International Union for Quaternary Research (INQUA), The National Academies, 2009-2010.
3. Reviewer for the Grants Program of the Social Sciences and Humanities Research Council of Canada, 2004.
4. Field trip leader, 7th International Conference on Fluvial Sedimentology, "Stratigraphy, Lithology, and Chronology of Late Quaternary Alluvium in the South Fork Big Nemaha River Valley," University of Nebraska, Lincoln, Nebraska, August 8, 2001.
5. Co-leader of the Second International Paleopedology Field Excursion, INQUA Commission, southwestern Kansas, August 13-20, 1993.

## **MANUSCRIPT REVIEWER**

For:

*American Antiquity*

*Archaeological and Anthropological Sciences*

*Bulletin of the Geological Society of America*

*Catena*

*Earth Science Reviews*

*Geoarchaeology*

*Geoderma*

*Geology*

*Journal of Human Evolution*

*Palaeogeography, Palaeoclimatology, Palaeoecology*

*Plains Anthropologist*

*Quaternary International*

*Quaternary Research*

*Quaternary Science Reviews*

*Soil Science Society of America Journal*

*Science*

The Geological Society (Books)

*Journal of Archaeological Science*

*Journal of Field Archaeology*

## **GRANT PROPOSAL REVIEWS**

For:

National Science Foundation

Lewis and Clark Fund for Exploration and Field

Research, American Philosophical Society

Social Sciences & Humanities Research Council of Canada

National Geographic Society

Geological Society of America

## **REFERENCES**

Dr. Wakefield Dort, Jr., Professor Emeritus, Department of Geology, University of Kansas, Lawrence, Kansas 66045; phone: 785-842-0274 (no e-mail)

Dr. Curtis J. Sorenson, Professor Emeritus, Department of Geography, University of Kansas, Lawrence, Kansas 66045; phone: 719-275-2142 ([csorenson@ukans.edu](mailto:csorenson@ukans.edu))

Dr. Alan Simmons, Distinguished Professor, Department of Anthropology, University of Nevada at Las Vegas, Las Vegas, NV 89154; phone: 702-895-3912 ([simmons@nevada.edu](mailto:simmons@nevada.edu))

Dr. Lee Nordt, Professor and Dean of Sciences, Department of Geology, Baylor University, Waco, TX 76798; phone: 254-710-4288 ([Lee\\_Nordt@baylor.edu](mailto:Lee_Nordt@baylor.edu))

Dr. Paul Goldberg, Professor, Department of Archaeology, Boston University, Boston, MA 02215; phone: 617-358-1666 ([paulberg@bu.edu](mailto:paulberg@bu.edu))

Dr. E. Arthur Bettis III, Associate Professor, Department of Geoscience, Trowbridge Hall, University of Iowa, Iowa City, IA 52242; phone: 319-335-1831 ([art-bettis@uiowa.edu](mailto:art-bettis@uiowa.edu))

Dr. Julie K. Stein, Professor and Director, Burke Museum, University of Washington, Seattle, WA 98195-3765; phone: (206) 616-7519 ([jkstein@u.washington.edu](mailto:jkstein@u.washington.edu))

Dr. Alston Thoms, Director, Center for Ecological Archaeology, Texas A&M University, College Station, TX 77843-4352; phone: 979-862-8541 ([athoms@unix.tamu.edu](mailto:athoms@unix.tamu.edu))

Dr. M.D. Ransom, Professor, Department of Soils and Agronomy, Kansas State University, Manhattan, KS 66506; phone: 785-532-7203 ([mdransom@ksu.edu](mailto:mdransom@ksu.edu))