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CURRICULUM VITAE

ROLFE DAVID MANDEL November 2026

PERSONAL DATA

Office:
Kansas Geological Survey
1930 Constant Ave., University of Kansas
Lawrence, Kansas 66047-3724
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CURRENT POSITION

University Distinguished Professor, Department of Anthropology
University of Kansas

Senior Scientist
Kansas Geological Survey
University of Kansas

Executive Director, Odyssey Archaeological Research Program
University of Kansas

EDUCATION

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

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

Recipient of the University of Kansas Department of Geology 2026 E. Haworth Distinguished Alumni Award

Selected by the National Academy of Sciences to serve as the delegate to represent the U.S. at the XXI International Union for Quaternary Research (INQUA) Congress in Rome, Italy, July 13-20, 2023.

Named University of Kansas Distinguished Professor, June 8, 2014.

Recipient of the 2012 University of Kansas Endowment Association's 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, 2011-2020.

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
Sigma Xi
Society for American Archaeology
Plains Anthropological Society

TEACHING AND RESEARCH INTERESTS

Primary: Geoarchaeology
Geomorphology
Quaternary Soils
Paleoenvironmental Reconstruction

Secondary: Environmental Geology
Natural Resources

SPECIALIZED TRAINING IN FIELDS OF INTEREST

Geoarchaeology	Paleoenvironmental Reconstruction
Quaternary Geology	Environmental Geology
Geomorphology and Soils	Isotope Geochemistry
Fluvial Processes	Quaternary Paleontology

TEACHING EXPERIENCE

University Distinguished Professor, Department of Anthropology, University of Kansas, June 1, 2014-Present.
Professor, Department of Anthropology, University of Kansas, May 1, 2009-June 1, 2014.
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 on soil-stratigraphic and geophysical approaches to landscape and site investigations.
Anthropology 848. Seminar in Geoarchaeology. A seminar focusing on recent geoarchaeolgical 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:

Advisor/Committee Chair for Haley Bjorklund, Dept. of Anthropology (Ph.D.)
Advisor/Committee Chair for Erika Blecha, Dept. of Anthropology (Ph.D.)
Advisor/Committee Chair for Daisy Sulavik, Dept. of Anthropology (M.A.)
Advisor/Committee Chair for Casey Trutna, Dept. of Anthropology (M.A.)
Committee Member for Shawna Fitzwater, Dept. of Anthropology (Ph.D.)

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

Steven R. Holen, Dept. of Anthropology, completed in 2001
Jeremy Dillon, Dept. of Geography, completed in 2003
Virginia Hatfield, Dept. of Anthropology, completed in 2006
Chris Widga, Dept. of Anthropology, completed in 2006
Mark Zlojutro, Dept. of Anthropology, completed in 2008
Lillian Rebellato, Dept. of Geography, completed in 2011
Trish Jackson, Dept. of Geography, completed in 2011
Anne Egitto, Dept. of Anthropology, completed in 2014
Alison Hadley, Dept. of Anthropology, completed in 2015
Emily Williams, Dept. of Anthropology, completed in 2015
Brendon Asher, Dept. of Anthropology, completed in 2015
Shannon Ryan, Dept. of Anthropology, completed in 2016
Aoesta Mohammed, Dept. of Geography & Atmospheric Science, completed in 2018
Aaron Koop, Dept. of Geography & Atmospheric Science, completed in 2022
Caroline Kisielinski, Dept. of Anthropology, completed in 2023

Justin Garnett, Dept. of Anthropology, completed in 2024
Beth Potter, Dept. of Anthropology, completed in 2025

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*

Laura Murphy, Department of Anthropology, completed in 2015.
Dissertation Title: *Geoarchaeology, Paleoenvironments, and Hunter-Gatherer Land-Use Intensification in the Caprock Canyonlands of Northwest Texas, USA*

Anthony Layzell, Department of Geography, completed in 2015.
Dissertation Title: *Plio-Pleistocene Landscape Evolution on the High Plains of Southwestern Kansas*

Timothy Griffith, Department of Anthropology, completed in 2016.
Dissertation Title: *Ancient Economic Complexity and Adaptation in the Semi-Arid Highlands of Jordan: A Zooarchaeological Study of the Early Bronze Age Through the Ottoman Period at Tell Madaba*

Andrew Gottsfield, Department of Anthropology, completed in 2017.
Dissertation Title: *Geoarchaeology of the Ozark-St. Francis National Forest, Northwest Arkansas*

Blair Benson Schneider, Department of Geology, completed in 2017.
Dissertation Title: *GPR Imaging of Prehistoric Animal Bone-beds*

Kale Bruner, Department of Anthropology, completed in 2019
Dissertation Title: *Holocene Maritime Hunter-Gatherer Lithic Assemblage Variability in the Eastern Aleutians, Alaska: Planning, Provisioning and Predictability*

Mason Niquette, Department of Anthropology, completed in 2022
Dissertation Title: *Stratigraphy, Site Formation, and Geochronology at San Esteban Rockshelter in the Big Bend Region of Southwest Texas*

Leila Joyce Seals, Department of Geology, completed in 2022

Dissertation Title: *Late Quaternary Landscape Evolution and Geoarchaeology of the Big Blue River Valley, Northeastern Kansas.*

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

Laura R. Murphy, Department of Anthropology, M.A. completed in 2008.
Thesis title: *Geoarchaeology of the Burntwood Creek Rockshelter (14RW418), Northwest Kansas*

Arlo M. McKee, Department of Anthropology, M.A. completed in 2009.
Thesis title: *The Application of Ground Penetrating Radar at the Kanorado Locality, Northwest Kansas*

Andrew S. Gottsfield, Department of Anthropology, M.A. 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, M.A. completed in 2010. Thesis title: *Late-Quaternary Landscape Evolution, and Environmental Change in the Upper Driftwood Creek Basin, Barber County, Kansas*

Blair Benson Schneider, Department of Geology, M.S. completed in 2012.
Thesis title: *Geophysical Investigations of the Mound City Borrow Pits, Ross County, Ohio*

Kristopher West, Department of Anthropology, M.A. completed in 2013.
Thesis title: *A Soil-Based Methodology for Locating Buried Early Prehistoric Cultural Deposits in Draws on the High Plains of Eastern Colorado and Western Kansas*

Mason Niquette, Department of Anthropology, M.A. completed in 2018.
Thesis title: *Site Formation Processes at the Spring Valley Site (23CT389), Ozark National Scenic Riverways, Missouri*

Michelle Prouix, Department of Geology, M.S. completed in 2021.
Thesis title: *Ground Penetrating Radar Imaging Prehistoric Animal Skeletons and Paleofeatures in Ash Beds at Ashfall Fossil Beds Historical State Park, Nebraska*

Grace Awbrey, Museum Studies, M.A. completed in 2024.
Thesis title: *A Geophysical Analysis to Locate Graves in Southwest Cemetery, Eudora, Kansas*

Lauren Bleeker, Department of Anthropology, M.A. completed in 2025.
Thesis Title: *Combining Soil Survey and Elevation Data to Develop a Predictive Model for Buried Cultural Deposits in Mill Creek Valley, Northeast Kansas, USA.*

Leah Stirrup, Department of Anthropology, M.A., completed in 2026
Thesis title: *Paleoenvironmental Context of Stratified Cultural Deposits at Site 5DA380 on the Front Range of the Rocky Mountains, East-Central Colorado, USA.*

Advisor and committee chair for the following non-thesis master's at the University of Kansas:
Paige Englert, Department of Anthropology, completed in 2019
Barbara Crable, Department of Anthropology, completed in 2018
Kevin Fenyak, Department of Anthropology, completed in 2015
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
Steven Keehner, Department of Anthropology, completed in 2015
Morgan Robledo, Department of Anthropology, completed in 2025

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

Dr. Caroline Kisielinski, September 1, 2025-Present
Dr. Beth Potter, August 1, 2025-Present
Dr. Justin Holcomb, June 27, 2021-January 1, 2024
Dr. Lauriane Bourgeon, February 24, 2020-February 24, 2025
Dr. Anthony Layzell, May 15, 2015-September 25, 2016
Dr. Jon J. Smith, September 1, 2007-2009
Dr. Adel Haj, September 1, 2006- August 1, 2007

PROFESSIONAL EXPERIENCE: GRANTS AND RESEARCH PROJECTS

August 8, 2022-Present
Senior Scientist and Executive Director of the Odyssey Geoarchaeological Research Program, Kansas Geological Survey, University of Kansas; University Distinguished Professor, Department of Anthropology, University of Kansas.

September 10, 2017-August 8, 2022
Director & State Geologist, Kansas Geological Survey, University of Kansas
Senior Scientist and Executive Director of the Odyssey Geoarchaeological Research Program, Kansas Geological Survey, University of Kansas; University Distinguished Professor, Department of Anthropology, University of Kansas.

October 23, 2014-September 9, 2017
Interim Director & State Geologist, Kansas Geological Survey, University of Kansas
Senior Scientist and Executive Director of the Odyssey Geoarchaeological Research Program, Kansas Geological Survey, University of Kansas; University Distinguished Professor, Department of Anthropology, University of Kansas.

June 1, 2009-October 23, 2014
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. Geoarchaeological Investigation at site 41CF8 (Garcia Pasture Site), Cameron County, Texas. **Rolfe D. Mandel** (PI), Funding period: May 6, 2026-February 6, 2027. Funding Source: Burns & McDonnell, Inc. Funding awarded to the KGS: $68,912.

2. A Geoarchaeological Assessment of the Canes Area and Newblock Park in Association with the 1921 Tulsa Race Massacre Graves Investigation. **Rolfe D. Mandel (PI).** Funding period: June 1, 2024-December 31, 2024. Funding Source: University of Oklahoma/City of Tulsa. Funding awarded to the KGS: $22,807.

3. A Statewide Geographic Information System (GIS) as a Predictive Tool for Locating Deeply Buried Archaeological Deposits in Nebraska (Phase III), the Sandhills Region. **Rolfe D. Mandel** (PI). Funding period: September 1, 2022-December 31, 2024. Funding Source: Nebraska State Historical Society/Nebraska Department of Transportation. Funding awarded to the KGS: $88,500.

4. Geologic Mapping in Kansas for FY24. J.J. Smith (PI), Co-PIs: K. Andrzejewski, I. Bode-Omoleye, B. Bream, J.W. Dunham, J. Kalbas, A. Layzell, **R.D. Mandel**, A. Moeller, S. Mohammadi, S. Oborny, and D. Ortega-Ariza. Funding period: 2024.Funding Source: U.S. Geological Survey STATEMAP Program. Amaount awarded to the KGS: $567,462.

5. Geologic Mapping in Kansas for FY22. J.J. Smith, J.J. (PI), Co-PIs: F. Hasiuk, Anthony Layzell, Stephan Oborny. Kate Andrzejewski, John W. Dunham, Diana Ortega-Ariza, Ibuken Bode-Omoleye, Sahar Mohammadi, Evan Franseen, **R.D. Mandel**, and Scott Ishman. Funding period: 2022. Funding Source: U.S. Geological Survey STATEMAP Program. Amount awarded to KGS: $599,195.

6. A GIS-based Predictive Model for Surface and Buried Archaeological Sites in Kansas. **Rolfe D. Mandel (PI)**. Funding period: January 13-August 31, 2021. Funding Source: Kansas State Historical Society. Amount Awarded to the KGS: $43,000.

7. Geologic Mapping in Kansas for FY21. John J. Smith, J.J. (PI), Co-PIs: Franek Hasiuk, Anthony Layzell, Greg Ludvigson, **Rolfe D. Mandel**, Scott Ishman, Stephan Oborny, John W. Dunham, Evan Franseen, Diana Ortega-Ariza, Ibukun Bode-Omoleye, Sahar Mohammadi. Funding period: 2021. Funding period: 2020. Funding Source: U.S. Geological Survey STATEMAP Program. Amount awarded to KGS: $517,951.

8. Geologic Mapping in Kansas for FY20. Jon J. Smith (PI), Co-PIs: Anthony Layzell, Franek Hasiuk, Stephan Oborny, Greg A. Ludvigson, G.A., **Rolfe D. Mandel**, I. Bode-Omoleye, Sahar Mohammadi, and Jihn W. Dunham. Funding period: 2020. Funding Source: U.S. Geological Survey STATEMAP Program. Amount awarded to KGS: $427,965.

9. Geoarchaeological Investigations at Peach Tree Crossing, Bear Creek, and Hairpin Erosion Control Sites, Fort Sill, Oklahoma. **Rolfe D. Mandel (PI).** Funding period: January 1-March 31, 2020. Funding source: U.S. Army Corp of Engineers. Amount awarded to KGS: $40,775.

10. A Statewide Geographic Information System (GIS) as a Predictive Tool for Locating Deeply Buried Archaeological Deposits in Nebraska (PHASE II). Funding period: December 1, 2019-December 31, 2020. **Rolfe D. Mandel (PI).** Funding Source: History Nebraska (formerly the Nebraska State Historical Society). Amount awarded to the KGS: $75,000.

11. Streambank Evaluation of the Cottonwood and Neosho Rivers above John Redmond Reservoir. Tony Layzell (PI) and **Rolfe Mandel** (Co-PI). Funding Period: January 1, 2020-December 31, 2020; Funding Source: Kansas Water Office. Amount Awarded to the KGS: $100,000.

12. GWPC-Regional Induced Seismicity Collaborative (RISC). Funding period: October 1, 2018-September 30, 2020. **Rolfe D. Mandel (PI).** Funding Source: U.S. Department of Energy. Amount awarded to the KGS: $65,000.

13. Geologic Mapping in Kansas for FY2019, STATEMAP Program Contract No. G19AC00231. Mapping of surficial geology of four counties in Kansas. J.J. Smith (PI/PD), J.W. Dunham (Co-PI), A. Layzell (Co-PI), G.A. Ludvigson, (Co-PI), **R.D. Mandel (Co-PI)**, and K.D. Newell (Co-PI). Funding source: U.S. Geological Survey, Amount Awarded to the KGS: $146,294**.**

14. Geologic Mapping in Kansas for FFY2018, STATEMAP Program Contract No. _ G18AC00197. Mapping of surficial geology of Sedgwick, Harper, Sumner, and Cowley counties in Kansas. J.J. Smith (PI/PD), J.W. Dunham (Co-PI), A. Layzell (Co-PI), G.A. Ludvigson, (Co-PI), **R.D. Mandel (Co-PI)**, and K.D. Newell (Co-PI). Funding source: U.S. Geological Survey, Amount Awarded to the KGS: $147,401.

15. Geoarchaeological Investigation of Harlan County Lake, Nebraska. Funding period: December 1, 2017-June 30, 2018. **Rolfe D. Mandel (PI)**. Funding source: U.S. Army Corps of Engineers. Amount awarded to KGS: $36,240.

16. Developing a Geographic Information System (GIS) as a Predictive Tool for Locating Deeply Buried Archeological Deposits in Nebraska. Funding period: December 1, 2015- December 31, 2017. **Rolfe D. Mandel (PI)**. Funding source: Nebraska State Historical Society. Amount awarded to KGS: $59,758.

17. Geologic Mapping in Kansas for FFY2017, STATEMAP Program Contract No. G17AC00261. Mapping of surficial geology of Sedgwick, Harper, Sumner, and Cowley counties in Kansas. J.J. Smith (PI/PD), J.W. Dunham (Co-PI), A. Layzell (Co-PI), G.A. Ludvigson, (Co-PI), **R.D. Mandel (Co-PI)**, and K.D. Newell (Co-PI). Funding source: U.S. Geological Survey, Amount Awarded to the KGS: $155,315.

18. Geologic Mapping in Kansas for FFY2016, STATEMAP Program Contract No. G16AC00195. Mapping of surficial geology of Lincoln, Rice, Sedgwick, and Miami counties in Kansas. G.A. Ludvigson, (PI/PD), J.W. Dunham (Co-PI), A. Layzell (Co-PI), J.J. Smith (Co-PI), **R.D. Mandel (Co-PI)**, and K.D. Newell (Co-PI). Funding source: U.S. Geological Survey, Amount Awarded to the KGS: $151,009.

19. Phase II Geological-Archeological Survey of Two Areas within the Fort Leavenworth, U.S. Army Garrison Command, Leavenworth County, Kansas. Funding period: November 1, 2015-June 1, 2016. **Rolfe D. Mandel (PI)**. Funding source: U.S. Army Corps of Engineers. Amount awarded to KGS: $30,230.

20. Geologic Mapping in Kansas for FFY2015, STATEMAP Program Contract No. G15AC00225. Mapping of surficial geology of Lincoln, Rice, Sedgwick, Miami counties in Kansas. G.A. Ludvigson (PI/PD), J.W. Dunham (Co-PI), A. Layzell (Co-PI), J.J. Smith. (Co-

PI), **R.D. Mandel (Co-PI)**, and K.D. Newell (Co-PI). Funding source: U.S. Geological Survey, Amount Awarded to the KGS: $116,476.

21. Geologic Mapping in Kansas for FFY2014, STATEMAP Program Contract No. G14AC00226. Mapping of surficial geology of Haskell, Rice, Sedgwick, Miami counties in Kansas. G.A. Ludvigson (PI/PD), J.W. Dunham (Co-PI), A. Layzell (Co-PI), J.J. Smith (Co-PI), **R.D. Mandel (Co-PI)**, and K.D. Newell (Co-PI). Funding source: U.S. Geological Survey, Amount Awarded to the KGS: $140,973.

22. Geologic Mapping in Kansas for FFY2013, STATEMAP Program Contract No. G13AC00168. Mapping of surficial geology of four counties in Kansas. 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.

23. 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. Funding period: November 1, 2012-March 31, 2013. **Rolfe D. Mandel (PI)**. Funding source: USGS/Kansas Water Resources Institute/Kansas Water Office. Amount awarded to KGS: $10,000

24. Collaborative Research: Stabilized Organic Carbon and Paleoenvironmental Interpretations of Late Quaternary Paleosols. Funding period: May 1, 2012-December 31, 2015. 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: $113,647

25. Multidisciplinary Research at *Ais Yorkis*, a Pre-Pottery Neolothic 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 and continued through 2015. **Rolfe D. Mandel** led the geoarchaeological and paleoenvironmental investigations at the site.

26. 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}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}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 (14SC327), Scott County, Western Kansas.
(13) Test Excavations at the KibRidge-Yampa (KRY) site, Northwestern Colorado.
(14) Test Excavations at the Two Rivers site (23SH101), Ozark National Scenic Waterway, Southeastern Missouri.
(15) Test Excavations at the Spring Valley site (23CT389), Ozark National Scenic Waterway, Southeastern Missouri.
(16) Exploration at the Classen Mastodon locality and adjacent areas of the Classen Ranch in Meade County, southwestern Kansas.
(17) Test Excavations at the Magic Mountain site (5JF223), Golden, Colorado
(18) Test Excavations at the Pipe Creek (Davis/Jackson) site (14OT407), Ottawa County, north-central Kansas.
(19) Test Excavations at the San Esteban Rockshelter (41PS20), Presidio County, Southwest Texas.
(20) Reconnaissance of Bluefish Caves and Archaeological Testing of Cave IV, Yukon Territories, Canada.
(21) Test Excavations at the Genevieve Lykes Duncan site (41BS2615), Brewster County, Southwest Texas.
(22) Assessment of Late Quaternary Landscape Evolution and the Geoarchaeology of the Big Blue River Valley, Northeastern Kansas.

27. Geologic Mapping in Kansas for FFY2012, STATEMAP Program Contract No. G11AC20263. Mapping the surficial geology of ten counties in Kansas. 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.

28. Geologic Mapping in Kansas for FFY2011, STATEMAP Program Contract No. G11AC20263. Mapping the surficial geology of ten counties in Kansas. 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.

29. Geologic Mapping in Kansas for FFY2010, STATEMAP Program Contract No. G10AC0364. Mapping the surficial geology of ten counties in Kansas. 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.

30. Geoarchaeological investigation of the Coffey Site (14PO1), northeastern Kansas. Funding period: October 1, 2010-March 1, 2010. **Rolfe D. Mandel (PI)**. Funding source: U.S. Army Corps of Engineers. Amount awarded to the KGS: $12,300.

31. 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. Funding period: July 1, 2010-December 31, 2014. **Rolfe D. Mandel (PI)**. Funding source: U.S. Department of Defense. Amount awarded to KGS: $800,000

32. 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. Funding period: December 1, 2011-December 1, 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.

33. Investigating the Earliest Human Occupation of Minnesota: A Geoarchaeological Approach. Funding period: July 1, 2010-June 1, 2011. **Rolfe D. Mandel (PI).** Funding source: Minnesota Historical Society (subcontract with Augustana College, Sioux Falls, South Dakota). Amount awarded to KGS: $22,504.

34. Geoarchaeology of the Ozark-St. Francis National Forests, Arkansas. Funding period: July 1, 2010-December 31, 2012. **Rolfe D. Mandel (PI)**. Funding source: U.S. Department of Agriculture, Forest Service. Amount awarded to KGS: $90,468.

35. Geologic Mapping in Kansas for FFY2009, STATEMAP Program Contract No. G09AC00176. Mapping the surficial geology of ten counties in Kansas. 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.

36. Paleoenvironmental Reconstruction and Geoarchaeological Investigation on the Edge of the Llano Estacado, Northwest Texas. Funding period: August 1 2009-May 1, 2011. **Rolfe D. Mandel (PI)**. Funding source: Texas Tech University. 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 of the Hopeton Earthworks, Hopewell Culture National Historical Park, Ross County, Ohio. Funding period: June 1, 2003-June 1, 2004. **Rolfe D. Mandel (PI**). Funding source: National Park Service. Amount awarded to the KGS: $32,100

2. 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.

3. Multidisciplinary Research at *Ais Yorkis*, a Pre-Pottery Neolothic Site in Cyprus. Conducted 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).

4. Geoarchaeological Reconnaissance of the Overland Pass Pipeline Project Area, Western Kansas. Project duration: March 1, 2006-August 1, 2006. **Rolfe D. Mandel (PI).** Funding source: NRG, Inc. (subcontract with R. Christopher Goodwin & Associates). Amount awarded to the KGS: $14,383.

5. Geoarchaeological Testing of the Overland Pass Pipeline Project Area, Western Kansas. Funding period: March 1, 2006-August 1, 2006. **Rolfe D. Mandel (PI).** Funding source: NRG, Inc. (subcontract with R. Christopher Goodwin & Associates). Amount awarded to the KGS: $21,737

6. Geoarchaeological Investigation of the Texas and Oklahoma Portions of the Boardwalk Gulf Crossing Pipeline Project Area. January 1, 2008-June 31, 2008. Funding source: R. Christopher Goodwin & Associates. **Rolfe D. Mandel (PI)**. Amount awarded to the KGS: $42,400.

7. Geologic Mapping in Kansas for FFY2008, STATEMAP Program Contract No. 08-HQAG-0071. Mapping the surficial geology of ten counties in Kansas. 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.

8. Geologic Mapping in Kansas for FFY2007, STATEMAP Program Contract No. 07-HQAG-0071. Mapping the surficial geology of ten counties in Kansas. 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.

9. Investigations at the Kanorado Archaeological Locality: Documenting the First Kansans. A National Register Nomination for the Kanorado Locality in Sherman County, Kansas. Project period: May 1, 2006-December 31, 2006. **Rolfe D. Mandel (Co-PI)** and Dr. Jack Hofman (Co-PI). Funding source: Historic Preservation Office of the Kansas State Historical Society. Amount awarded to the KGS: $18,151.

10. Geomorphological, Geoarchaeological and Paleoenvironmental Investigation of Fox

Creek Valley, Tallgrass Prairie National Preserve, Chase County, Kansas. Project duration: October 1, 2004-August 1, 2006. **Rolfe D. Mandel (PI)**. Funding source: National Park Service. Amount awarded to the KGS: $13,426.

11. Geoarchaeological Investigation in Support of Archaeological Testing, Bureau of Indian Affairs Route 4, Crow Creek Indian Reservation, South Dakota. Funding period: May 1, 2002-May 1, 2004. **Rolfe D. Mandel (PI)**. Funding source: Bureau of Indian Affairs (sub-contract with Augustana College Archeology Laboratory). Amount awarded to the KGS: $14,031.

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 1, 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 1, 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. 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 collaborated with a research team from the Augustana College Archeology Laboratory. The final report was submitted in 2002.

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). The fieldwork has been completed and the reports of investigations are being prepared.

August 15, 1989-May 1, 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 1, 1986-August 14, 1989
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 the Institute for Social and Environmental Studies/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.

2. Project Director: "Trend Analysis of Land and Related Natural Resource Use Patterns in Kansas: Implications for Regional Development Policy Planning," Contact with Kansas Division of State Planning and Research, 1978.

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, 1978-1079.

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.

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.

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.

7. Co-Principal Investigator: Kansas City-Lawrence-Topeka Corridor Cultural Resources Planning Study; Contract with the Kansas Historical Society, 1982-1983.

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.

9. Co-Principal Investigator: Archaeological and Geomorphic Survey in the Western Desert of Egypt; Contract with the AMOCO Foundation, 1982-1983.

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.

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.

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.

14. Co-Principal Investigator: A State Plan for the Archaeology of Kansas, Phase II; contract with the Kansas State Historical Society, 1984-1985.

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

Current

Associate Editor, *Encyclopedia of Geoarchaeology* (2nd Edition), Springer, New York, 2021-Present.

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

Past

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

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

Associate Editor, *Encyclopedia of Geoarchaeology* (1st Edition), Springer, New York, 2013-2016.

Associate Editor, *Current Research in the Pleistocene*, Center for the Study of the First Americans, Texas A&M University, June 2011-December 2013.

BOOKS

Gilbert, A.S., P. Goldberg, **R.D. Mandel**, and V. Aldeias (Editors), 2024. *Encyclopedia of Geoarchaeology (Second Edition).* Encyclopedia of Earth Sciences Series, Springer, Cham, Switzerland.

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

PEER-REVIEWED JOURNAL ARTICLES AND BOOK CHAPTERS

Mandel, R.D., M.D. Mitchell, and M.L. Koons. Geoarchaeology and Paleoenvironmental Context of Magic Mountain (5JF223): A Stratified Site Representing Archaic and Plains Woodland Occupations on the Front Range of the Southern Rocky Mountains, North-Central Colorado, USA. *Quaternary International* (Accepted with minor revision)

Bourgeon, L., L.E.Y. Norman, and **R.D. Mandel**, 2026. Taphonomy of Beringian Karstic Sites: A Case Study from Bluefish Cave III, Yukon, Canada. *PaleoAmerica* 1-16. https://www.tandfonline.com/doi/full/10.1080/20555563.2026.2694234

Waters, M.R., J.J. Halligan, **R.D. Mandel**, J.A. Holcomb, L.G. Davis, and V.T. Holliday, 2026. Evaluation of the Geoarchaeological Study that Proposes a Middle Holocene Age for Monte Verde II, Chile. PaleoAmerica 1-3. https://www.tandfonline.com/doi/full/10.1080/20555563.2026.2699013

Blecha, E., and **R.D. Mandel**. 2026. Late Quaternary Faunal Remains as Proxies for the Human-Environment Relationships at San Esteban Rockshelter in the Northern Chihuahuan Desert, Southwest Texas, USA. *Quaternary International* 783. https://www.sciencedirect.com/science/article/pii/S1040618226003277

Waters, M., J. Halligen, **R. Mandel**, J. Holcomb, L. Davis, and V. Holliday, 2026. Geoarchaeological Assessment of the Suggested Middle Holocene Age for Monte Verde II, Chile. *Science eLetters*. https://www.science.org/doi/full/10.1126/science.adw9217#

Mandel, R.D., and A. Layzell, 2026. Late Quaternary Landscape Evolution in River Valleys of the Nebraska Sand Hills, USA. *Quaternary Science Reviews* 338. https://doi.org/10.1016/j.quascirev.2026.110058

Holcomb, J.A., B.L. O'Leary, and **R.D. Mandel**, 2026. The Geoarchaeology of Planetary Exploration: New Approaches to Space Heritage Preservation. *Geology Today* 42: 129-133. https://doi.org/10.1111/gto.70020

Kisielinski, C., J. Tackney, L. Norman**, R. Mandel**, and D.O'Rourke, 2026. Leveraging Sedimentary Ancient DNA from Bluefish Cave III to Provide Paleoenvironmental Context for Human Activity in Eastern Beringia. *Frontiers in Ecology and Evolution*. https://www.frontiersin.org/journals/ecology-and-evolution/articles/10.3389/fevo.2026.1789717/full

Mahoney, G., **R.D. Mandel**, P.R. Hanson, and S.C. Fritz, 2025. Early Holocene Interaction of Aeolian, Alluvial, and Lacustrine Processes in a Dune-Dammed Valley in the Central Nebraska Sand Hills. *Quaternary Research,* Published online, First View:1-18. https://doi.org/10.1017/qua.2024.42

Mandel, R.D., P. Goldberg, and V.T. Holliday, 2024. Site Formation Processes. In *Encyclopedia of Geoarchaeology (Second Edition),* edited by A.S. Gilbert, P. Goldberg, **R.D. Mandel**, and V. Aldeias, Encyclopedia of Earth Sciences Series, Springer, Cham, Switzerland. https://doi.org/10.1007/978-3-030-44600-0_147-1

Holliday, V.T., and **R.D. Mandel**, 2024. Great Plains Geoarchaeology. In *Encyclopedia of Geoarchaeology (Second Edition),* edited by A.S. Gilbert, P. Goldberg, **R.D. Mandel**, and V. Aldeias, Encyclopedia of Earth Sciences Series, Springer, Cham, Switzerland. https://doi.org/10.1007/978-3-030-44600-0_82-1

Holliday, V.T., and **R.D. Mandel**, 2024. Paleoenvironmental Reconstruction. In *Encyclopedia of Geoarchaeology (Second Edition),* edited by A.S. Gilbert, P. Goldberg, **R.D. Mandel**, and V. Aldeias, Encyclopedia of Earth Sciences Series, Springer, Cham, Switzerland. https://doi.org/10.1007/978-3-030-44600-0_191-1

Goldberg, P., V.T. Holliday, and **R.D. Mandel**, 2024. Stratigraphy. In *Encyclopedia of Geoarchaeology (Second Edition),* edited by A.S. Gilbert, P. Goldberg, **R.D. Mandel**, and V. Aldeias, Encyclopedia of Earth Sciences Series, Springer, Cham, Switzerland. https://doi.org/10.1007/978-3-030-44600-0_2-1

Holcomb, J.A., B.L. O'Leary, A.G. Fairen, **R.D. Mandel**, and K.W. Wegmann, 2024. The Emerging Archaeological Record of Mars. *Nature Astronomy* 8: 1490-1492. https://www.nature.com/articles/s41550-024-02439-w

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INVITED LECTURES

"A Geoarchaeological Approach to Finding Evidence of the First People in the Americas." Augustana University Archeology/Anthropology Invited Lecture Series, Sioux Falls, South Dakota, September 24, 2026.

"A Geoarchaeological Approach to Finding Evidence of the First People in the Americas." Keynote Speaker, Developing International Geoarchaeology 11th Biennial Meeting combined with the annual meeting of the AK Geoarchäologie & Geoarchaeology Working Group of the Institute for Archaeological Sciences, Tübingen, Germany, May 22, 2025.

"Bluefish Caves Revisited: A Geoarchaeological and Paleoenvironmental Assessment of a Potential Pre-Clovis Site in the Yukon Territory of Northwestern Canada." Invited Lecture Series, Archaeological Society of Alberta-Calgary Centre, March 15, 2023.

"Searching for Evidence of the First People in the Americas: A Geoarchaeological Perspective."

Invited Lecture Series, Topeka, Kansas Gem and Mineral Society, Topeka, Kansas, October 28, 2022.

"Searching for Evidence of the First People in the Americas: A Geoarchaeological Perspective." Invited Lecture Series, Olathe, Kansas Gem and Mineral Society, Olathe, Kansas, October 6, 2022.

"Searching for Evidence of the First People in the Big Bend Region and Beyond: A Geoarchaeological Perspective." Keynote Address, 93rd Texas Archaeological Society Annual meeting, The University of Texas at Tyler, Tyler, Texas, October 22, 2022.

"Bluefish Caves Revisited: Ongoing and Future Archaeological and Paleoecological Research in the Northern Yukon of Canada. Beringia Centre Science Talks, Whitehorse, Yukon Territory, Canada, May 12, 2022.

"Searching for Evidence of the First People in the Americas: A Geoarchaeological & Paleontological Perspective." Kansas City Paleontological Society, Park University, Parkville, Missouri, February 20, 2022.

"Searching for Evidence of the First People in the Americas: A Geoarchaeological & Paleoecological Perspective." Keynote Address, 27th Annual Conference of the Center for Big Bend Studies, Sul Ross State University, Alpine, Texas, November 6, 2021.

"In the Footprints of Kirk Bryan and Claude C. Albritton, Jr.: A Reinvestigation of Late-Quaternary Landscape Evolution and Geoarchaeology in the Big Bend Region of Southwest Texas." Texas Bureau of Economic Geology, University of Texas at Austin, April 30, 2021.

"Searching for Evidence of the First People in the Americas: A Geoarchaeological and Paleoecological Perspective." Fort Hays State University's Kansas Wetlands Educational Center Lecture Series, Cheyenne Bottoms, March 1, 2020.

"Searching for Evidence of the First People in the Americas: A Geoarchaeological and Paleoecological Perspective." Department of Geography & Atmospheric Science Lecture Series, University of Kansas, January 24, 2020.

"The Peopling of the Great Plains Near the End of the Pleistocene: A Geoarchaeological and Paleoecological Perspective." Department of Ecology and Evolutionary Biology Lecture Series, University of Kansas, Lawrence, September 10, 2019.

"Landscape Response to Bioclimatic Changes Over the Past 13,000 Years in the Central Great Plains of North America." Keynote Speaker, 26th Annual H.W. Borns Symposium, Climate Change Institute, University of Maine, May 1, 2018.

"The Peopling of the Great Plains at the End of the Ice Age: A Geoarchaeological Perspective." Banquet Lecture, 26th Annual Kansas Hydrology Seminar, Association of Environmental and Engineering Geologists and the American Institute of Hydrology, Kansas History Museum, Topeka, Kansas, November 17, 2017.

“Geoarchaeological Evidence for the Peopling of the Central Great Plains at the End of the Ice Age.” Keynote Speaker, Shallow Exploration Drillers Conference, Olathe, Kansas, April 12, 2017.

“Advancements and Prospects in Geoarchaeology Today: The SAA Geoarchaeology Interest Group at 20.” Keynote Speaker for the Geoarchaeology Interest Group, 82nd Annual Meeting of the Society for American Archaeology, Vancouver, Canada, April 1, 2017.

“Prairie Soils in the Context of the Anthropocene.” Dyck Arboretum of the Plains, Hesston College Educational Symposium, Hesston, Kansas, March 18, 2017.

“Geoarchaeology of *Akrotiri Aetokremnos*: Evidence for Human-Environment Interactions in Cyprus during the Terminal Pleistocene.” Department of Earth & Environmental Sciences Lecture Series, University of Iowa, Iowa City, Iowa, January 27, 2017.

“The Peopling of the Great Plains at the End of the Ice Age: A Geoarchaeological Perspective.” Annual Meeting of the State Boards of Geology, University of Kansas, November 5, 2016.

“Geoarchaeology of *Akrotiri Aetokremnos* and *Ais Yiorkis*: Evidence for Human-Environment Interactions in Cyprus during the Terminal Pleistocene and Early Holocene.” Department of Geography and Environmental Studies Lecture Series, University of Texas, Austin, Texas, February 27, 2015.

“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 Yorkes*, 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 Americas.” 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." University of Nebraska's Ecology Now Lecture Series, 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., and J.A. Holcomb, Bluefish Caves Revisited: A Geoarchaeological Assessment of a Potential Pre-Clovis Site in the Yukon Territory of Northwestern Canada. Poster presented at the Paleoamerican Odyssey Conference, Santa Fe, New Mexico, October 2026.

Bourgeon, L., L.E.Y. Norman, A. Burke, and **R.D. Mandel**, Taphonomic Synthesis of Bluefish Caves (Yukon Canada): Four Cavities, Four Faunal Assemblages, Four Different Stories. Poster presented at the Paleoamerican Odyssey Conference, Santa Fe, New Mexico, October 2026.

Kisielinski, C., L.E.Y. Norman, J. Tackney, K. Beaty, A. Singh, S.Fitzwater, **R.D. Mandel**, and D.H. O'Rourke, Paleoenvironmental Insights from Sedimentary Ancient DNA during the Pleistocene-Holocene Transition at Bluefish Caves. Poster presented at the Paleoamerican Odyssey Conference, Santa Fe, New Mexico, October 2026.

Norman, L.E.Y., Ca. Kisielinski, K. Borthwick, Ol.Frye, and **R.D. Mandel**. Understanding Human Use of Bluefish Caves: Integrating Legacy and Contemporary Data for Research, Collaboration, and Outreach. Poster presented at the Paleoamerican Odyssey Conference, Santa Fe, New Mexico, October 2026.

Lee, C.M., **R.D. Mandel**, and J. Fisher, Late Pleistocene Landscapes and Faunal Records at Scott Spring: A Synergistic Geoarchaeological Investigation along the Colorado Front Range. Poster presented at the Paleoamerican Odyssey Conference, Santa Fe, New Mexico, October 2026.

Holcomb, J.A., and **R.D. Mandel**, The What, Why, and How of Archaeological Micromorphology in Pleistocene Archaeology. Poster presented at the Paleoamerican Odyssey Conference, Santa Fe, New Mexico, October 2026.

Kisielinski, C., L.E.Y. Norman, J. Tackney, K.G. Beaty, A. Singh, S. Fitzwater, K. Bruner, **R.D. Mandel**, and D.H. O'Rourke, Recovery of Sedimentary Ancient DNA from Museum Archived Archaeological Sediments Provides Novel Lens into the Past. Poster presented at the Paleoamerican Odyssey Conference, Santa Fe, New Mexico, October 2026.

Bjorklund, H., **R.D. Mandel**, and B. Schroeder, Characterizing Spatial Patterning of Proboscidean Sites across the Big Bend Region of Southwest Texas

Blecha, E.S., **R.D. Mandel**, and B. Schroeder, The Genevieve Lykes Duncan Site: A Deeply Buried Clovis Campsite in the Big Bend Region of Southwest Texas. Poster presented at the Paleoamerican Odyssey Conference, Santa Fe, New Mexico, October 2026.

Mandel, R.D., B. Schroeder, E.S. Blecha, S.M. Mentzer, J.A. Holcomb. Evidence for Pre-Clovis Occupation at the San Esteban Rockshelter in the Big Bend Region of Southwest Texas. Poster presented at the Paleoamerican Odyssey Conference, Santa Fe, New Mexico, October 2026.

Kisielinski, C., L. Norman, J. Tackney, K. Beaty, D. O'Rourke, **R.D. Mandel**, New Tricks for Old Sediments: Applying Sedimentary Ancient DNA to Geoarchaeological Contexts. Presented at the

Annual Meeting of the Geological Society of America, Denver, Colorado, October 2026.

Niquette, R.M, and **R.D. Mandel**, Site Formation Processes at the Spring Valley Site (23CT389), Ozark National Scenic Riverways, Missouri. Presented at the Annual Meeting of the Geological Society of America, Denver, Colorado, October 2026.

Shelton, J., and **R.D. Mandel**, Showing an Old Rolfe in New Pits: Recent Excavations at 32RM116. Presented at the Joint Meeting of the Plains Anthropological Conference & Midwest Archaeological Conference, Iowa City, Iowa, October 2025.

Holcomb, J.A., and **R.D. Mandel**, Planetary Geoarchaeology: Investigating Site Formation Processes Beyond Earth. Presented at Developing International Geoarchaeology 11th Biennial Meeting combined with the annual meeting of the AK Geoarchäologie & Geoarchaeology Working Group of the Institute for Archaeological Sciences, Tübingen, Germany, May 2025.

Kisielinski, C., J. Tackney, L. Norman, **R.D. Mandel**, and D. O'Rourke, Ancient DNA from Bluefish Cave III Sediments Provides Paleoenvironmental Context for Terminal Pleistocene Human Activity. Presented at Developing International Geoarchaeology 11th Biennial Meeting combined with the annual meeting of the AK Geoarchäologie & Geoarchaeology Working Group of the Institute for Archaeological Sciences, Tübingen, Germany, May 2025.

Fitzwater, S., C. Kisielinski, J. Tackney, L. Norman, **R.D. Mandel**, D.H. O'Rourke. Microbial Metagenomic Composition in Archaeological Context at the Pleistocene-Holocene Transition. Presented at the Annual Meeting of the American Geophysical Union (AGU), Washington, D.C., December 2024.

Mandel, R.D., and A.L. Layzell, In the Footprints of Dan Muhs: Reconstructing Late Quaternary Landscape Evolution in Stream Valleys of the Nebraska Sand Hills. Presented at the Annual Meeting of the Geological Society of America, Anaheim, California, September 2024.

Andrzejewski, K., A.L. Layzell, and **R.D. Mandel**, Evaluating Paleoenvironment and Paleoclimate in the Central Great Plains, North America During Marine Isotope Stage 3 (ca. 59-27 ka). Presented at the Annual Meeting of the Geological Society of America, Anaheim, California, September 2024.

Schneider, B., L.E.Y. Norman, and **R.D. Mandel**, FAST: a new approach to Training Future Geoarchaeologists. Presented at the Annual Meeting of the Geological Society of America, Anaheim, California, September 2024.

Mandel, R.D., and A.L. Layzell, Late Quaternary Landscape Evolution in Stream Valleys of the Nebraska Sand Hills. Presented at the Biennial Meeting of the American Quaternary Association (AMQUA), Salt Lake City, Utah, August 2024.

Layzell, A.L., and **R.D. Mandel**, Landscape and Paleoenvironmental Change in Stream Valleys of the Central Great Plains During Marine Isotope Stage 3. Presented at the Biennial Meeting of the American Quaternary Association (AMQUA), Salt Lake City, Utah, August 2024.

Mandel, R.D., Lithostratigraphy as a Tool for Finding Evidence of the First People in the Americas. Presented at the Annual Meeting of the Society for American Archaeology, New Orleans, Louisiana, April 2025. **(Invited)**

Mandel, R.D., Geoarchaeology and Paleoenvironmental Context of Magic Mountain (5JF223): A Stratified Site on the Front Range of the Southern Rocky Mountains, North-Central Colorado. Presented at the Annual Meeting of the Society for American Archaeology, New Orleans, Louisiana, April 2024.

Holcomb, J.A., and **R.D. Mandel**, Incorporating Soil Micromorphology into First American Research. Presented at the Annual Meeting of the Society for American Archaeology, New Orleans, Louisiana, April 2024.

Seals, L.J., and **R.D. Mandel**, Geoarchaeology of the Big Blue River Valley. NE Kansas: Implications for Paleoindian and Earlier Archaeology. Presented at the Annual Meeting of the Society for American Archaeology, New Orleans, Louisiana, April 2024.

Potter, B., K. Graf, and **R.D. Mandel**, Lithic Technological and Use-Wear Analysis for Two Paleoindian Sites at the Kanorado Locality, Kansas. Presented at the Annual Meeting of the Society for American Archaeology, New Orleans, Louisiana, April 2024.

Blecha, E., **R.D. Mandel**, E.C. Reed, and A.M. Rosen, The Relationship between Human Subsistence Strategies and Late-Quaternary Paleoenvironmental Changes in the Northern Chihuahuan Desert of Southwest Texas. Presented at the Annual Meeting of the Society for American Archaeology, New Orleans, Louisiana, April 2024.

Bourgeon, L., and **R.D. Mandel**, Bluefish Caves I, II, and III: Taphonomic Analysis of thr Mammal and Bird Bone Assemblage. Presented at the Annual Meeting of the Society for American Archaeology, New Orleans, Louisiana, April 2024.

Mandel, R.D., and Bryon Schroeder, Searching for Archaeological Evidence of the First People in the Big Bend Region of Texas: A Tale of Two Sites. Presented at the 29th Annual Conference of the Center for Big Bend Studies, Sul Ross State University, Alpine, Texas, November 2023.

Mandel, R.D., In the Footprints of Kirk Bryan and Claude C. Albritton, Jr.: A Reinvestigation of Soils as Evidence of Late-Quaternary Climate Change in the Northern Chihuahuan Desert of the Big Bend Region, Southwest Texas. Presented at the XIV International Symposium and Field Workshop on Paleopedology, INQUA International Union of Soil Sciences, New Mexico State University, Las Cruces, New Mexico, October 2023.

Layzell, A., and **R.D. Mandel**, A Pervasive Period of Pedogenesis in Stream Valleys of the Central Great Plains During MIS 3. Presented at the XIV International Symposium and Field Workshop on Paleopedology, INQUA International Union of Soil Sciences, New Mexico State University, Las Cruces, New Mexico, October 2023.

Seals, L.J., and **R.D. Mandel**, The Effects of Late Quaternary Landscape Evolution on the Early Archaeological Record in the Big Blue River Valley, Northeastern Kansas, USA. Presented at the Annual Meeting of the Geological Society of America, Pittsburgh, Pennsylvania, October 2023.

Mandel, R.D., L.E.Y Norman, L. Bourgeon, C.A. Kisielinski, J.A. Holcomb, and D.H. O'Rourke, "Bluefish Caves Revisited: A Geoarchaeological and Paleoenvironmental Assessment of a Potential Pre-Clovis Site in the Yukon territory of Northwestern Canada." Presented at the annual meeting of the European Association of Archaeologists, Belfast, Ireland, September 2023. (**Invited**)

Kisielinski, C., J. Tackney, L.E.Y. Norman, **R.D. Mandel**, D.H. O'Rourke. Paleoenvironmental Reconstruction at Bluefish Cave III Using Sedimentary Ancient DNA (*sed*aDNA). Presented at the XXI INQUA Congress, Rome, Italy, July 2023.

Mandel, R.D., L.E.Y Norman, L. Bourgeon, C.A. Kisielinski, J.A. Holcomb, and D.H. O'Rourke, "Bluefish Caves Revisited: A Geoarchaeological and Paleoenvironmental Assessment of a Potential Pre-Clovis Site in the Yukon territory of Northwestern Canada." Presented at the XXI INQUA Congress, Rome, Italy, July 2023. (**Invited**)

Holcomb, J.A., **R.D. Mandel**, and K.W. Wegmann, "The Case for a Lunar Anthropocene: Understanding Current and Future Anthropogenic Activity on Earth's Moon." Presented at the XXI INQUA Congress, Rome, Italy, July 2023.

Mandel, R.D., "Searching for the Early Archaeological Record in the Big Bend Region of Southwest Texas: A Lithostratigraphic Approach." Presented at the Annual Meeting of the Society for American Archaeology, Portland, Oregon, April 2023.

Norman, L.E.Y., **R.D. Mandel**, L. Bourgeon, C.A. Kisielinski, J.A. Holcomb, "Bluefish Caves Revisited: Testing a Potential Pre-Clovis Site in Eastern Beringia." Presented at the Annual Meeting of the Society for American Archaeology, Portland, Oregon, April 2023.

Baka, A., B. Potter, R.M. Niquette, and **R.D. Mandel**, "Preliminary Analysis of San Esteban (41PS20) Lithic Data: Implications for Mobility, Investment, and Dietary Predictions. Presented at the Annual Meeting of the Society for American Archaeology, Portland, Oregon, April 2023.

Mandel, R.D., "Bluefish Caves Revisited: A Geoarchaeological and Paleoenvironmental Assessment of a Potential Pre-Clovis Site in the Yukon Territory of Northwestern Canada." Presented at the Beringia Symposium, Institute for Arctic and Alpine Research, University of Colorado, Boulder, Colorado, March 2023.

Bourgeon, L., and **R.D. Mandel**, "Bluefish Caves I, II, III: An Archaeological, Taphonomic and Radiometric Re-Evaluation." Presented at the Beringia Symposium, Institute for Arctic and Alpine Research, University of Colorado, Boulder, Colorado, March 2023.

Mandel, R.D., and J.A. Holcomb, "In the Footprints of Kirk Bryan and Claude C. Albritton, Jr.: A Reinvestigation of the Soils as Evidence of Late-Quaternary Landscape Evolution in the Big

Bend Region of Southwestern Texas. Presented at the Annual Meeting of the Geological Society of America, Denver, Colorado, October 2022.

Mandel, R.D., L. Bourgeon, C.A. Kisielinski, L.E.Y. Norman, J.A. Holcomb, and D.H. O'Rourke. "Bluefish Caves Revisited: A Geoarchaeological and Paleoenvironmental Assessment of a Potential Pre-Clovis Site in the Yukon Territory of Northwestern Canada." Presented at the Annual Meeting of the Geological Society of America, Denver, Colorado, October 2022. **(Invited)**

Mandel, R.D., L. Bourgeon, C.A. Kisielinski, L.E.Y. Norman, and D.H. O'Rourke. "Bluefish Caves Revisited: Ongoing and Future Archaeological and Paleoecological Research in the Northern Yukon of Canada. Presented at the Annual Meeting of the Canadian Archaeological Association, Edmonton, Alberta, Canada, April 2022. **(Invited)**

Holcomb, J.A., B. O'Leary, A.G. Darrin, C. Kling, **R.D. Mandel**, and K. Wegmann, "Planetary Geoarchaeology as a New Frontier in Archaeological Science: Assessing Site Formation Processes on Extraterrestrial Surfaces." Presented at the 87th Annual Meeting of the Society for American Archaeology, Chicago, Illinois, May 2022.

Niquette, R.M., and **R.D. Mandel**, "Stratigraphy and Site Formation at San Esteban Rockshelter in the Big Bend Region of Southwest Texas." Presented at the 87th Annual Meeting of the Society of American Archaeology, Chicago, Illinois, May 2022.

Andrzejewski, K., A.L. Layzell, G.A. Ludvigson, R.M. Joeckel, A. Möller, and **R.D. Mandel**, 2022. "Unique Insight to the Cretaceous OAE1d, Mid-Cenomanian Event, and OAE2 from Longline Drillcores along the Eastern Cratonic Margin of the Western Interior Basin." Presented at the Perkins-Rosen GCSSEPM Conference, Houston, Texas, December 2022.

Mandel, R.D., "Geoarchaeology of the Magic Mountain (5JF223): A Stratified Site on the Front Range of the Southern Rocky Mountains, North-Central Colorado." Presented at the 78th Annual Plains Anthropological Conference, Boulder, Colorado, November 2021.

Mandel, R.D., C.N. Jass, and J.I. Mead, "A Late-Quaternary Paleoenvironmental Record from Parker's Pit, a Natural Trap in the Southern Black Hills of Southwestern South Dakota, USA." Presented at the Annual Meeting of the Geological Society of America, Portland, Oregon, October 2021.

Niquette, R.M., B.A. Schroeder, and **R.D. Mandel**, "Preliminary Results of Geoarchaeological Investigations at the San Esteban Rockshelter (41PS20), Southwest Texas. Poster presented at the 86th Annual Meeting of the Society for American Archaeology. Virtual presentation, April 2021.

Layzell, A.L., and **R.D. Mandel**, "The Past 14,000 Years: Evidence for Periods of Warming and Aridity from River Valleys of the Central Great Plains." Presented at the Annual Meeting of the Geological Society of America, Portland, Oregon, October 2021.

Layzell, A.L., G.A. Ludvigson, **R.D. Mandel**, and J.J. Smith, "Using Factors of Soil Formation to Investigate Stable Carbon Isotope Disequilibrium in Late Pleistocene (MIS 3) Buried Soils of the

Central Great Plains, USA." Geological Society of America, October 2020 Online, doi: 10.1130/abs/2020AM-355553.

Layzell, A.L., G.A. Ludvigson, J.J. Smith, and **R.D. Mandel**, 2020. "Assessing Stable Carbon Isotope Disequilibrium in Late Pleistocene Buried Soils of the Great Plains, USA, Using a State Factor Approach. Goldschmidt Conference, Hawaii, June 2020.

R.D. Mandel, A.E. Bettis III, and P. Hanson, "Characteristics and Geochronology of the Severance Formation: A New Mid-through Late Wisconsinan Lithostratigraphic Unit in the Eastern Plains, USA." Poster presented at the XX INQUA Congress, Dublin, Ireland, July 2019.

Layzell, A.L., and **R.D. Mandel**, "Holocene River Terraces and Alluvial Fans in the Republican River Valley: Implications for Geoarchaeology in the Central Great Plains, USA." Poster presented at the XX INQUA Congress, Dublin, Ireland, July 2019.

C. Kisielinski, J. Tackney, D. O'Rourke, and **R.D. Mandel**, "eDNA Analysis of Mid-latitude Sites for Paleoenvironmental Reconstruction." Poster presented at the XX INQUA Congress, Dublin, Ireland, July 2019.

Layzell, A.L., and **R.D. Mandel**, "The Application of Holocene Alluvial Stratigraphy to Address Streambank Erosion and Reservoir Sedimentation in the Midwestern U.S.A." Presented at the XX INQUA Congress, Dublin, Ireland, July 2019.

Ludvigson, G.A., A.L. Layzell, R. Joeckel, A. Möller, and **R.D. Mandel**, "Chemostratigraphic Profiles of the Cretaceous OAE 1D. Mid-Cenomanian Event, and OAE2 from Long-Line Drill Cores, Cratonic Margin of the North American Western Interior Basin." Presented at the Annual Meeting of the Geological Society of America, Phoenix, Arizona, September 2019.

Mandel, R.D., "Revisiting Julie K. Stein's 'Archaeological Sediments in Cultural Environments': The Nexus Between Lithostratigraphy and Geoarchaeological Research in the Great Plains and Central Lowlands, USA." Presented at the 84th Annual Meeting of the Society for American Archaeology, Albuquerque, New Mexico, April 2019. **(Invited)**

Mandel, R.D., "Alan H. Simmons Contributions to North American and Near Eastern Archaeology: A Personal Perspective." Presented at the 84th Annual Meeting of the Society for American Archaeology, Albuquerque, New Mexico, April 2019. **(Invited Discussant)**

Layzell, A.L., and **R.D. Mandel**, "Holocene Landscape Evolution in the Republican River Valley, South-Central Nebraska." Presented at the Joint Section Meeting of the Geological Society of America, North-Central, South-Central, and Rocky Mountain Sections, Manhattan, Kansas, March 2019.

Ludvigson, G.A., R. Joeckel, A.L. Layzell, A. Möller, and **R.D. Mandel**, "Expression of the Middle Cenomanian Event Along the Cratonic Margin of the Cretaceous Western Interior Seaway WIS). Presented at the Joint Section Meeting of the Geological Society of America, North-Central, South-Central, and Rocky Mountain Sections, Manhattan, Kansas, March 2019.

Layzell, A.L., D.K. Newell, **R.D. Mandel**, and J.W. Dunham, "Preliminary Surficial Geologic Map of Miami County, Kansas." Poster presented at the Joint Section Meeting of the Geological Society of America, North-Central, South-Central, and Rocky Mountain Sections, Manhattan, Kansas, March 2019.

Mandel, R.D., and A.L. Layzell, "Advances in Using Soil Survey Data as a Predictive Tool for Locating Deeply Buried Archaeological Deposits in Stream Valleys of the Midwest, USA. Presented at the Annual Meeting of the Geological Society of America, Indianapolis, Indiana, November 2018.

Layzell, A.L., and **R.D. Mandel**, "Holocene Landscape Evolution and Bioclimatic Change in the Republican River Valley, South-Central Nebraska: Implications for Geoarchaeology in the Central, Great Plains." Presented at the Annual Meeting of the Geological Society of America, Indianapolis, Indiana, November 2018.

Layzell, A.L., and **R.D. Mandel**, "The Application of Holocene Alluvial Stratigraphy to Address Streambank Erosion and Reservoir Sedimentation in the Midwestern U.S.A." Presented at the Joint Biennial Meeting of the Canadian and American Quaternary Association, Carleton University, Ottawa, Canada, August 2018.

Mandel, R.D., **"**The Application of Quaternary Science in Cultural Resource Management: New Challenges in the 21st Century." Presented at the Joint Biennial Meeting of the Canadian and American Quaternary Association, Carleton University, Ottawa, Canada, August 2018.

Youjng, M.H., J. Boak, **R. Mandel**, N. Dunbar, M. Timmons, and R. Miller, "Regional Induced Seismicity Collaborative: Integrating Research Approaches in the Southern Midcontinent." Presented at Annual Meeting of the AAPG, Salt Lake City, Utah, May 2018.

Mandel, R.D., "The Contributions of Vance T. Holliday to the Earth Sciences." Presented at the 83rd Annual Meeting of the Society for American Archaeology, Washington, D.C., April 2018. **(Invited)**

Ray, J.H., **R.D. Mandel** and N.H. Lopinot, **"**Paleoindian Deposits at the Spring Valley Site near Big Spring, Southeast Missouri." Presented at the Annual Southeastern Archaeological Conference (SEAC), Tulsa, Oklahoma, October 2017.

Mandel, R.D., "The Application of Quaternary Science in Cultural Resource Management: New Challenges in the 21st Century." Presented at the Annual Meeting of the Geological Society of America, Seattle, Washington, October 2017.

Ray, J.H., **R.D. Mandel**, and N.H. Lopinot, "Paleoindian Deposits at the Spring Valley Site near Big Spring, Southeast Missouri." Presented at the 74th Annual Southeastern Archeological Conference, Tulsa, Oklahoma, October 2017.

Mandel, R.D. "Geoarchaeology of the Coffey Site, Northeastern Kansas: Implications for Finding the Material Remains of Paleoamericans in the Eastern Plains, USA." Presented at the 82nd Annual

Meeting of the Society for American Archaeology, Vancouver, Canada. April 2017.

Mandel, R.D. "The Effects of Late Quaternary Landscape Evolution on the Archaic Archaeological Record of the Minnesota River Valley." Presented at the Annual Conference of the Council for Minnesota Archaeology, Hamline University, St. Paul, Minnesota, February 2017.

Mandel, R.D., and E.C. Grimm. "Holocene Paleoenvironmental Changes in the Upper Midwest Inferred from Pollen Records and Stable Carbon Isotope ($\delta^{13}C$) Values of Soil Organic Matter: Implications for Archaic Subsistence Strategies." Presented at the Annual Conference of the Council for Minnesota Archaeology, Hamline University, St. Paul, Minnesota, February 2017.

Mandel, R.D. "Stratigraphic Context of Paleoindian Components at the Coffey Site (14PO1), Northeastern Kansas: Implications for Finding the Early Archaeological Record in the Eastern Plains, USA." Presented at the 74th Annual Plains Conference, Lincoln, Nebraska, October 2016.

Mandel, R.D., M. Fosha, and C. Widga. "Geoarchaeology of the Brookings Mammoth Site (39BK100) in Eastern South Dakota." Presented at the 74th Annual Plains Conference, Lincoln, Nebraska, October 2016.

Layzell, A., **R.D. Mandel**, C. Ziska, and R. Bozell. "Developing a Geographic Information System (GIS) as a Predictive Tool for Locating Deeply Buried Archaeological Deposits in Nebraska." Presented at the 74th Annual Plains Conference, Lincoln, Nebraska, October 2016.

Mandel, R.D., E.A. Bettis III, and P.R. Hanson. "Characteristics and Geochronology of the Severance Formation: A New Mid- Through Late Wisconsinan Lithostratigraphic Unit in the Eastern Plains of North America." Presented at the Annual Meeting of the Geological Society of America, Denver, Colorado, September 2016.

Mandel, R.D., E.A. Bettis III, and P.R. Hanson. "Characteristics and Geochronology of the Severance Formation: A new Mid- Through Late Wisconsinan Lithostratigraphic Unit in the Eastern Plains of North America." Presented at the Biennial Meeting of the American Quaternary Association (AMQUA), Santa Fe, New Mexico, June 2016.

Mandel, R.D., P. Goldberg, A.L. Layzell, and J.R. Hass, "Unraveling the Site Formation Process at Finch (47JE0902): A Multicomponent Habitation in Southeastern Wisconsin." Presented at the Annual Meeting of the Association of American Geographers, San Francisco, California, March 2016.

Mandel, R.D., "The Application of Geoscientific Methods and Theories in the Search for Pre-Clovis Sites: Lessons from the Great Plains." Presented at the Annual Meeting of the Geological Society of America, Baltimore, Maryland, November 2015. **(Invited)**

Layzell, A.L., H.R. Hunter, G.A. Ludvigson, **R.D. Mandel** and J.J. Smith. "Major Element and Isotope Geochemistry from Late Quaternary Paleosols in Southwestern Kansas: Assessing Climate and Parent Material Changes." Presented at the Annual Meeting of the Geological Society of America, Baltimore, Maryland, November 2015.

Mohammed, A., D. Hirmas, D. Gimenez, and **R.D. Mandel**, "A Digital Morphometric Method for Quantifying Ped Shape." Presented at the Annual Meeting of the Soil Science Society of America, Minneapolis, Minnesota, November 2015.

Mandel, R.D., and A.H. Simmons, "Geoarchaeology of Ais Yiorkis, an Upland early Ceramic Neolithic Site in Southwestern Cyprus: Evidence for Human-Environment Interactions." Presented at the XIX International Quaternary Union (INQUA) Congress, Nagoya, Japan, July 2015.

Simmons, A.H., and **R.D. Mandel**, "The Geoarchaeology of Akrotiri *Aetokremnos*, Cyprus and its Contribution to Pleistocene Extinctions of Island Fauna: Why is it so Controversial?" Presented at the GEOMEDISLANDS International Conference: *The Geoarchaeology of Mediterranean Islands: Multidisciplinary Approaches to Paleoenvironmental Changes and History of Human Occupation in the Mediterranean Islands Since the Last Glacial Maximum.*
Cargese, Corsica, France, July 2015.

Mandel, R.D., and A.H. Simmons, "Geoarchaeology of Ais Yiorkis, an Upland early Ceramic Neolithic Site in Southwestern Cyprus: Evidence for Human-Environment Interactions." Presented at the GEOMEDISLANDS International Conference: *The Geoarchaeology of Mediterranean Islands: Multidisciplinary Approaches to Paleoenvironmental Changes and History of Human Occupation in the Mediterranean Islands Since the Last Glacial Maximum.*
Cargese, Corsica, France, July 2015.

Mandel, R.D., P. Goldberg, A.L. Layzell, and J.R. Hass, "Unraveling the Site Formation Process at Finch (47JE0902): A Multicomponent Habitation in Southeastern Wisconsin." Presented at the 80th Annual Meeting of the Society for American Archaeology, San Francisco, California, April 2015.

Simmons, A.H., and **R.D. Mandel**, "Site Formation Processes and Stratigraphy of Akrotiri *Aetokremnos*, Cyprus: The Devil is in the Details." Presented at the 80th Annual Meeting of the Society for American Archaeology, San Francisco, California, April 2015.

Ludvigson, G.A., J.J. Smith, J. Doveton, **R.D. Mandel**, L.R. Murphy, T. Layzell, R.L. Stotler, and R. Sleezer, "Sedimentologic and Stratigraphic Characterization of Cored Sediments from the High Plains Aquifer System of Western Kansas." Presented at the 2014 Kansas Governor's Water Policy Conference, Topeka, Kansas, November 2014.

Ludvigson, G.A., J.J. Smith, J. Doveton, **R.D. Mandel**, L.R. Murphy, T. Layzell, R.L. Stotler, and R. Sleezer, "Sedimentologic and Stratigraphic Characterization of Cored Sediments from the High Plains Aquifer System of Western Kansas." Presented at the 59th Annual Midwest Groundwater Conference, Lawrence, Kansas, September 2014.

Mandel, R.D., "Archaeological Sites in Alluvial Settings as Paleoclimatic and Paleoenvironmental Archives: Examples from the Central Plains, USA." Presented at the Annual Meeting of the Geological Society of America, Vancouver, Canada, October 2014. **(Invited)**

Mandel, R.D., and A.H. Simmons, "Geoarchaeology of Ais Yiorkis, an Upland early Ceramic Neolithic Site in Southwestern Cyprus: Evidence for Human-Environment Interactions." Presented at the Annual Meeting of the Geological Society of America, Vancouver, Canada, October 2014. **(Invited)**

Layzell, T.L., and **R.D. Mandel**, "Late Pleistocene Eolian Sedimentation, Soil Development and Climate Change on the high Plains of Southwestern Kansas." Poster presented at the Annual Meeting of the Geological Society of America, Vancouver, Canada, October 2014.

Mandel, R.D., "Geoarchaeology of Hopewell Earthworks at Hopeton, South-Central Ohio." Presented at the Annual Midwest Anthropological Conference, Champaign, Illinois, October 2014. **(Invited)**

Mandel, R.D., "The Search for Pre-Clovis Sites in the Great Plains of North America: A Geomorphological Approach to Finding the Needle in the Haystack." Presented at the 72nd Annual Plains Anthropological Conference, Fayetteville, Arkansas, October 2014. **(Invited)**

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." Poster presented at the 23rd Biennial Meeting of the American Quaternary Association, Seattle, Washington, August 2014.

Layzell, T.L., and **R.D. Mandel**, "Late Quaternary Stratigraphy and paleoenvironmemtal change in the Cimarron River Valley, Southwest Kansas." Poster presented at the 23rd Biennial Meeting of the American Quaternary Association, Seattle, Washington, August 2014.

Mandel, R.D., "The Co-Evolution of Geoarchaeology and Cultural Resource Management (CRM): A Great Plains Perspective." Presented at the 79th 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 79th 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 79th Annual Meeting of the Society for American Archaeology, Austin, Texas, April 2014. **(Invited)**

Mandel, R.D., "The Past 10,000 Years: Evidence for Periods of Aridity from Rivers of the Central Great Plains." Presented at the 40th 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 36th 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 78th 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. Feddama, "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 4th 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 22nd 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 22nd 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 22nd 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 77th 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 77th 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 77th 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 57th 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 56th 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 68th 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 68th 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.

Gottsfield, 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)**

Gottsfield, 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 20th 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 42nd 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 65th 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, paeoenvironments, 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 72nd 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 72nd 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 41st 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 41st 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 41st 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 41st 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 19th 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 62nd 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 18th 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 18th 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 18th 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 18th 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 18th 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 114th 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 93rd 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 an 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. Director of Graduate Studies, Department of Anthropology, 2024
2. Chair, Promotion Committee for Dr. Kelly Graf (Associate to Full Professor), 2023
3. Chair, Personnel Committee, Department of Anthropology, 2023-2024
4. Member, Personnel Committee, Department of Anthropology, 2021-2024
5. Member, Graduate Committee, Department of Anthropology, 2020-2021
6. Member, Executive Committee, Department of Anthropology, August 2017-2019
7. Associate Chair of the Department of Anthropology, August 2015-August 2016
8. Chair, Promotion and Tenure Committee for Dr. Frederic Sellet, 2014-2015
9. Member, Faculty Evaluation Committee, 2012-2013
10. Member, Promotion & Tenure Committee for Dr. Akiko Takeyama, 2013
11. Member, Undergraduate Committee, 2012
12. Chair, Promotion Committee for Dr. John Hoopes (Associate to Full Professor), 2012
13. Chair, Three-Year Review Committee for Frederic Sellet, 2011-2012
14. Member, Graduate Committee, 2011-2012.

15. Member, Promotion Committee for Arienne Dwyer (Associate to Full Professor), 2011.
16. Member, Ad hoc committee to study concentrations in Anthropology, 2010-2011
17. Member, Faculty Committee for the Carroll Clark Lecture Series, 2008-2011.
18. Member, Curriculum Committee, 2009-2011.
19. Member, Faculty Search Committee, archaeology position, 2009-2010.
20. Member, Faculty Search Committee, archaeology position, 2008.
21. Departmental Representative, KU's United Way Campaign, 2008.
22. Member, Faculty Search Committee, biological anthropology position, 2004.

Kansas Geological Survey

1. Member, Promotion and Review Committee, 2023-Present
2. Chair, Search Committee for hiring an Assistant Scientist in Stratigraphic Research
3. Director and State Geologist, 2016-2022.
4. Associate Editor, *Midcontinent Geoscience*, 2020-2022.
5. Member, Stratigraphic Nomenclature Committee, 2016-2022.
6. Chair, Promotion and Review Committee, 2011.
7. Member, Promotion and Review Committee, 2010-2013.
8. 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.
9. Member, Search committee for hiring a Post-Doctoral Research Associate specializing in Neogene stratigraphy and modern pedogenic processes in the Stratigraphic Research Section, 2007.
10. Chair, Search committee for hiring a Post-Doctoral Research Associate specializing in Neogene stratigraphy and modern pedogenic processes, Stratigraphic Research Section, 2006.
11. 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, Search Committee for Museum Curator/Professor, Joint Appointment with the Biodiversity Institute and Department of Anthropology, 2022-2023.
2. Member of the KU Center for Research's Search Committee for the Director of the Kansas Biological Survey, 2019.
3. Member of the KU Provost's Search Committee for the Vice Chancellor for Research, 2018.
4. Chair, University of Kansas Endowment Association's Higuchi Award Committee, 2014.
5. Member, University of Kansas Endowment Association's Higuchi Award Committee, 2013.

6. Member, Social Sciences General Research Fund Selection Committee, 2006-2007, 2010.
7. Member, University Tenure and Promotion Committee, College of Liberal Arts and Sciences, 2009.

Service Outside the University

Local and State

1. Guest speaker, "Geology and Past Environments of the Flint Hills: A Walk Through the Past 280 Million Years." Symphony in the Flint Hills Heritage Program, June 10, 2023, Wabaunsee County, Kansas.
2. Guest speaker, "The Peopling of the Great Plains at the End of the Ice Age: A Geoarchaeological Perspective." Annual meeting of the Wallace County Historical Society, Ft. Wallace, Kansas. May 6, 2018.
3. 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.
4. 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.
5. Taught a two-day geoarchaeology class for the Kansas Anthropological Association's Training Program, Kansas State Historical Society, Topeka, Kansas. June 10-11, 2012.
6. Guest speaker, "The Claussen Archaeological Site: Prehistory of the Flint Hills" Symphony in the Flint Hills Heritage Program, June 11, 2011, Wabaunsee County, Kansas.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. Taught a two-day geomorphology course at the Kansas Anthropological Association's field school in Lindsborg, Kansas, June 17 and 18, 1993.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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. Advisory Board Member, Center for Big Bend Studies, Sul Ross State University, Alpine, Texas, January 1, 2023-Present.
2. Organizer and trip leader, "Magic Mountain: A Stratified Site on the Front Range of the Southern Rocky Mountains, North-Central Colorado." 78th Annual Plains Anthropological Conference, Boulder, Colorado, November 10, 2021.
3. Organizer and trip leader, "Late-Quaternary Landscape Evolution and Geoarchaeology in the Flint Hills of Northeastern Kansas: A Tale of Two Sites." 2019 Joint Geological Society of America Section Meeting: South-Central, North-Central, and Rocky Mountain Sections, Manhattan, Kansas, March 24, 2019.
4. 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.
5. 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.
6. Organizer and trip leader, "Geoarchaeology of the Claussen Site (14WB322)," 64th Annual Plains Anthropological Conference, November 8, 2006.
7. 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.
8. 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.
9. 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.
10. 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.
11. Member of the Editorial Board, *Journal of the Iowa Archeological Society,* May 1993-Present.
12. 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.

13. 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.
14. Chair of round-table discussion, "Geoarchaeological Research in the Great Plains," at the 50th Annual Plains Conference, Lincoln, Nebraska, November 1992.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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. Co-chaired a poster symposium, "Bridging Continents: Current Research in Greater Beringia and the Peopling of the Americas." Paleoamerican Odyssey Conference, Santa Fe, New Mexico, October 15, 2026.
2. Organized and led the Geological Society of America's Quaternary Geology & Geomorphology Division Kirk Bryan Field Trip: "Quaternary Landscape Evolution,

Soils, and Geoarchaeology in the Medina River Valley, South-Central Texas." Annual Meeting of the Geological Society of America, San Antonio, Texas, October 18, 2025.

3. Gave a virtual, one-hour presentation entitled "The Role of Geoarchaeologists in the Study of Earthworks" for the Society for American Archaeology's Geoarchaeology Interest Group bi-monthly forum, June 4, 2025.
4. Organized and led a field trip, "Geoarchaeology and Paleoenvironmental Context of Deeply Stratified Early Paleoindian Sites at the Kanorado Locality, Northwestern Kansas." 90th Annual Meeting of the Society for American Archaeology, Denver, Colorado, April 23, 2025.
5. Chair, Fund Raising Committee for Division Awards, Geological Society of America's Soils & Soil Processes Division, 2022-Present.
6. External Reviewer for Promotion to Full Professor, Utah State University, 2024
7. Organized and Co-chaired a session, "Reconstruction of Quaternary Paleoenvironments at Regional and Global Scales: A Tribute to Eric C. Grimm (1951–2020)." Annual Meeting of the Geological Society of America, Portland, Oregon, October 2021.
8. Chair, Awards Committee, Geological Society of America's Archaeological Geology Division, 2004-2020.
9. Organized and led a field trip, "Late-Quaternary Landscape Evolution and Geo-archaeology in the Flint Hills of Northeastern Kansas: A Tale of Two Sites." Joint Section Meeting of the Geological Society of America, North-Central, South-Central, and Rocky Mountain Sections, Manhattan, Kansas, March 24, 2019.
10. Organized and Co-chaired a session, "A Call to Arms: Applying Quaternary Science in the 21st Century." Annual Meeting of the Geological Society of America, Seattle, Washington, October 2017.
11. Chair, Fryxell Award for Interdisciplinary Research, Society for American Archaeology, 2016-2017.
12. Committee Member, Fryxell Award for Interdisciplinary Research, Society for American Archaeology, 2014-2016.
13. Committee Member, American Philosophical Society, Lewis and Clark Fund for Exploration and Field Research, 2016.
14. External Reviewer for Promotion to Full Professor, Oregon State University, 2016
15. External Reviewer for Promotion to Full Professor, University of Alabama, 2016.
16. External Reviewer for Promotion and Tenure, University of Washington, 2016
17. External Reviewer for Promotion and Tenure, Southern Methodist University, 2016
18. Organized and Co-chaired a session, "Contributions of Paul Goldberg to Archaeology." 80th Annual Meeting of the Society for American Archaeology, San Francisco, California, April 2015.
19. 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.
20. Organized and co-led of a field trip, "The Richard Beene Site." 79th Annual Meeting of the Society for American Archaeology, Austin, Texas, April 23, 2014.
21. 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," 79th Annual Meeting of the Society for American Archaeology, Austin, Texas, April 2014.

22. Committee Member, American Philosophical Society, Lewis and Clark Fund for Exploration and Field Research, 2013-2014.
23. External Reviewer for Promotion and Tenure, University of Washington, 2014.
24. External Reviewer for Promotion and Tenure, Southern Methodist University, 2014.
25. External Reviewer for Promotion and Tenure, Knox College, 2014.
26. External Reviewer for Promotion and Tenure, Sewanee: The University of the South, 2013.
27. Organized the annual meeting (including the scientific program) of the Society for Cenozoic Research, University of Kansas, Lawrence, May 25-26, 2013.
28. President, Society for Cenozoic Research, 2013-2014.
29. 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.
30. 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.
31. Associate Editor, *Current Research in the Pleistocene,* Center for the Study of the First Americans, 2011.
32. 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.
33. 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.
34. 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.
35. Elected President of the American Quaternary Association (AMQUA), a 900-member organization; served as President-Elect 2007-2008; served as President 2009-2010.
36. 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.
37. 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.
38. 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.
39. Reviewer for the National Science Foundation's Paleo Perspectives on Climate Change Program, 2008.
40. Co-organizer and co-chair of a symposium, "Late Pleistocene and Holocene Paleoecology 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.

41. Reviewer for the National Science Foundation's Paleo Perspectives on Climate Change Program, 2007.
42. Reviewer for the National Geographic Society's Funded Research Program, 2007.
43. Organizer and chair of a theme session, "Geoarchaeology of Prehistoric Earthworks," Annual Meeting of the Geological Society of America, Philadelphia, Pennsylvania, October 24, 2006.
44. Chair, Committee for the Douglas C. Kellogg Fund for Geoarchaeological Research, Society for American Archaeology, 2002-2006.
45. Served on the Council of the American Quaternary Association (AMQUA), Representing Archaeology and Geoarchaeology, 2002-2006.
46. Representative, Geological Society of America Joint Technical Program Committee, 2006-2005.
47. Chair, 18th Biennial Meeting of the American Quaternary Association, University of Kansas, June 26-28, 2004.
48. Organizer and fieldtrip leader, "Late Quaternary Alluvial Stratigraphy and Geoarchaeology in the Central Great Plains," 18th Biennial Meeting of the American Quaternary Association, Lawrence, Kansas, June 28-30, 2004.
49. 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.
50. 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.
51. Co-chair of round-table discussion, "Geoarchaeology," at the 67th Annual Meeting of the Society for American Archaeology, Denver, Colorado, March 2002.
52. Member of the External Awards Committee, Geological Society of America, 2000-2002.
53. Founder of the Geoarchaeology Interest Group, Society for American Archaeology, 1997.
54. Chair, Geoarchaeology Interest Group, Society for American Archaeology, 1997-2001.
55. Editor, *Newsletter* of the Geoarchaeology Interest Group, Society for American Archaeology, 1997-2000.
56. Chair, Archaeological Geology Division of the Geological Society of America, 1997-1998.
57. 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.
58. Liaison between the Geological Society of America and the Society for American Archaeology, 1994-Present.
59. Editor, *Newsletter* of the Archaeological Geology Division of the Geological Society of America, 1994-2000.
60. Chair of the Geoarchaeology General Session at the Annual Meeting of the Geological Society of America, San Diego, California, October 1991.

61. 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. As Delegate of the U.S. National Committee for Quaternary Research-INQUA, Represented the United States at the International Council Meetings, XXI INQUA Congress, Rome, Italy, July 13-20, 2023.
2. As Chair of the U.S. National Committee for Quaternary Research-INQUA, Represented the United States at the International Council Meetings, XX INQUA Congress, Dublin, Ireland, July 24-31, 2019.
3. On behalf of the U.S. National Committee for the International Union for Quaternary Research (INQUA) and the National Academy of Sciences, organized and chaired a topical session entitled “The Application of Quaternary Science to Societal Issues in the 21st Century,” XX INQUA Congress, Dublin, Ireland, July 24-31, 2019.
4. On behalf of the U.S. National Committee for the International Union for Quaternary Research (INQUA) and the National Academy of Sciences, co-organized and chaired a mentoring event for early career Quaternary scientists at the XX INQUA Congress, Dublin, Ireland, July 24, 2019.
5. On behalf of the U.S. National Committee for the International Union for Quaternary Research (INQUA) and the National Academy of Sciences, organized and chaired a mentoring event for early career Quaternary scientists at the Biennial Meeting of the Canadian and American Quaternary Association, Ottawa, Canada, August 8, 2018.
6. On behalf of the U.S. National Committee for the International Union for Quaternary Research (INQUA) and the National Academy of Sciences, organized and co-chaired a session entitled “The Application of Quaternary Science to Societal Issues in the 21st Century” for the Biennial Meeting of the Canadian and American Quaternary Association, Ottawa, Canada, August 9, 2018.
7. As Chair of the U.S. National Committee for Quaternary Research-INQUA, Represented the United States at the International Council Meetings, XIX INQUA Congress, Nagoya, Japan, July 26-August, 2, 2015.
8. Chair of the U.S. National Committee for the International Union for Quaternary Research (INQUA), The National Academy of Sciences, 2012-2020.
9. Organized and Co-Chaired a topical session, “Geoarchaeology: Integrating Palaeoenvironmental and Archaeological Records for Ancient Landscape Reconstruction.” XIX INQUA Congress, Nagoya, Japan, July 26-August, 2, 2015.
10. Organized and Co-Chaired a topical session, “Integrating Quaternary Research.” XIX INQUA Congress, Nagoya, Japan, July 26-August 2, 2015.
11. Member of the U.S. National Committee for the International Union for Quaternary Research (INQUA), The National Academies, 2009-2010.
12. Reviewer for the Grants Program of the Social Sciences and Humanities Research Council of Canada, 2004.
13. 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.

14. 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
American Journal of Science
Bulletin of the Geological Society of America
Catena
Earth Science Reviews
Geoarchaeology
Geoderma
Geology
Geomorphology
Journal of Archaeological Science
Palaeogeography, Palaeoclimatology, Palaeoecology
Journal of Quaternary Science
PaleoAmerica
Plains Anthropologist
PLOS One
Quaternary International
Quaternary Research
Quaternary Science Reviews
Science
Soil Science Society of America Journal
The Geological Society (Books)
Journal of Field Archaeology
Journal of Human Evolution

GRANT PROPOSAL REVIEWER

For:

Social Sciences & Humanities Research Council of Canada
Lewis and Clark Fund for Exploration and Field Research, American Philosophical Society
National Geographic Society
Geological Society of America
National Science Foundation

REFERENCES

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

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

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