

# *Alan Ford Arbogast*

## **Professor and Chairperson**

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## **EDUCATION**

<b>Ph.D.</b>	(Geography) <i>University of Kansas,</i>	<b>1995</b>
<b>M.A.</b>	(Geography) <i>University of Kansas,</i>	<b>1991</b>
<b>B.A.</b>	(Anthropology) <i>University of Kansas,</i>	<b>1981</b>

## **ACADEMIC POSITIONS**

<i>Chairperson</i>	Department of Geography, Michigan State University	2012 - present
<i>Professor</i>	Department of Geography, Michigan State University	2009 - present
<i>Associate Professor</i>	Department of Geography, Michigan State University	2001 - 2009
<i>Assistant Professor</i>	Department of Geography, Michigan State University	1995 - 2001
<i>Instructor</i>	Department of Geography, University of Kansas	1995
<i>Instructor</i>	Department of Continuing Education, University of Kansas	1992 - 1995

## **PROFESSIONAL AFFILIATIONS**

Association of American Geographers (Geomorphology Specialty Group)	American Quaternary Association International Quaternary Association St. George Geographical Society
Geological Society of America (Quaternary Geology and Geomorphology Section)	

## **HONORS AND AWARDS**

2012	CIC Department Executive Officer Leadership Development Program, Chicago, IL
1999 – 2000	<i>Integrative Studies Institute Fellowship</i> (Michigan State University)
1999 & 2000	Nominated by the Department of Geography and the College of Social Science for the <i>Teacher/Scholar Award</i> , awarded on a competitive basis to 6 junior faculty across the University
1998 - 1999	<i>Lilly Teaching Fellowship</i> (Michigan State University) - Application of Web-Based Instruction to Physical Geography (R. E. Groop, <i>Mentor</i> )
1992 - 1995	NASA Global Climate Change Fellowship

## RELATED PROFESSIONAL EXPERIENCE

- 1992 Research Assistant: The Kansas Sand Prairies Geoarchaeological Survey. Kansas State Historical Society; Principal Investigators: William C. Johnson, Department of Geography; Brad Logan, Department of Anthropology, University of Kansas.
- Field Assistant: Geoarchaeological Survey of the Lower Verde River, Arizona; Principal Investigator: William C. Johnson, Department of Geography, University of Kansas.
- 1991 Research Assistant: Mapping Surficial Geology, Russell County, Kansas. Kansas Geological Survey; Principal Investigator: William C. Johnson, Department of Geography, University of Kansas.
- 1990 Research Assistant: Historical Climate and Vegetation Change Along the Animas River: San Juan Mountains, Colorado; Principal Investigator: William L. Baker, Department of Geography, University of Wyoming.
- Research Assistant: Mapping Surficial Geology, Finney County, Kansas. Kansas Geological Survey; Principal Investigator: William C. Johnson, Department of Geography, University of Kansas.
- 1989 Research Assistant: Mapping Surficial Geology, Phillips County, Kansas. Kansas Geological Survey; Principal Investigator: William C. Johnson, Department of Geography, University of Kansas.
- 1988 - 1989 Research Assistant: Cultural Resource Surveys - Tribune Mammoth Site (Kansas), Perry Lake, (Kansas), Lukachukai (Arizona), Eglin Air Force Base (Florida); Principal Investigator: William C. Johnson, Department of Geography, University of Kansas.
- 1988 Administrative Assistant and Field Supervisor: Phase III Archaeological Data Recovery at the Quindaro Townsite (14WY314), Kansas City, Kansas; Principal Investigator: Larry J. Schmits, Environmental Systems Analysis, Inc., Shawnee, KS.
- 1982 - 1983 Staff cartographer and laboratory technician: Supervisor: Larry J. Schmits, Environmental Systems Analysis, Inc., Shawnee, KS.
- 1983 Project Archaeologist: Phase II Testing at Site 23JA155, Blue Springs Lake Project, Blue Springs, Missouri; Principal Investigator: Larry J. Schmits, Environmental Systems Analysis, Inc., Shawnee, KS.
- 1982 Field Assistant: Phase III Archaeological Data Recovery at Site 23SL38/436, St. Louis County, Missouri; Principal Investigator: Larry J. Schmits, Environmental Systems Analysis, Inc., Shawnee, KS.
- Survey Archaeologist: Phase I Survey of Richards-Gebaur AFB, Jackson County, Missouri; Principal Investigator: Larry J. Schmits, Environmental Systems Analysis, Inc., Shawnee, KS.
- Field Assistant: "Phase I Archaeological Survey and Testing at the Proposed Fort Scott Lake Project, Bourbon County, Kansas; Principal Investigator: Larry J. Schmits, Environmental Systems Analysis, Inc., Shawnee, KS.
- Field Assistant: "Archaeological Survey and Testing at the Milford, Melvern, and Pomona Lakes Projects; Principal Investigator: Larry J. Schmits, Environmental Systems Analysis, Inc., Shawnee, KS.
- 1980 Field Assistant: "Phase II and Phase III Archaeological Excavations at Big Hill Reservoir; Principal Investigator: Thomas A. Witty, Jr., Kansas State Historical Society, Topeka, KS.

## RESEARCH

### *Books and Monographs*

- 2014 **Arbogast, A.F.** *Discovering Physical Geography*, 3rd edition. John Wiley & Sons, Inc., New York, NY. 625 p.
- 2012 Lovis, W.A., **Arbogast, A.F.**, and Monaghan, G.W. *The Geoarchaeology of Lake Michigan Coastal Dunes*. Michigan State University Press, Environmental Research Series No. 2. 223 p.
- 2011 **Arbogast, A.F.** *Discovering Physical Geography*, 2nd edition. John Wiley & Sons, Inc., New York, NY. 639 p.
- 2007 **Arbogast, A.F.** *Discovering Physical Geography*, 1<sup>st</sup> edition. John Wiley & Sons, Inc., New York, NY. 624 p.
- 1998 **Arbogast, A.F.** Late-Quaternary Paleoenvironments and Landscape Evolution on the Great Bend Sand Prairie. *Kansas Geological Survey Bulletin #242*, 74 p.

### *Book Chapters*

- 2009 **Arbogast, A.F.** Dunes and Eolian Landforms. In: Schaetzl, R.J., Darden, T. and D. Brandt. (editors). *Michigan Geography and Geology*. Pearson Custom Publishing, Boston, MA.
- 1998 Johnson, W.C., **Arbogast, A.F.**, and Homburg, J.A. Alluvial Geomorphology and Geoarchaeology of the Lower Verde River. In: Whittlesey, S.M., Ciolek-Torrello, R., and Altschul, J.H. (editors). *Vanishing River: Landscapes and Lives of the Lower Verde Valley: the Lower Verde Archaeological Project: Overview, Synthesis, and Conclusions*. SRI Press, Phoenix, AZ

### *Refereed Publications (In Review)*

Monaghan, G.W., **Arbogast, A.F.**, and Lovis, W.A. The development of the Holocene lake sequence in the upper Great Lakes. *The Holocene*.

### *Refereed Publications*

- 2015 **Arbogast, A.F.**, Luehmann, M.D., Miller, B.A., Wernette, P.A., Adams, K.M., Waha, J. D., Oneil, G.A., Tang, Y., Boothroyd, J.J., Babcock, C.R., Hanson, P.R., and Young, A.R. Late-Pleistocene Paleowinds and Aeolian Sand Mobilization in North-Central Lower Michigan. *Aeolian Research* 16: 109-116.
- 2012 Lovis, W. A., Monaghan, G.W., **Arbogast, A.F.**, and Forman, S.L. Differential Temporal and Spatial Preservation of Archaeological Sites in a Great Lakes Coastal Zone. *American Antiquity* 77: 591-608.
- Blumer, B.E., **Arbogast, A.F.**, and Forman, S.L., The OSL chronology of eolian sand deposition in a perched dune field along the northwestern shore of Lower Michigan. *Quaternary Research* 77: 445-455.
- 2010 **Arbogast, A.F.**, Bigsby, M.E., DeVisser, M.H., Langley, S.A., Hanson, P.R., Daly, T.A., and Young, A.R. Reconstructing the age of coastal sand dunes along the northwestern shore of Lake Huron in Lower Michigan: Paleoenvironmental implications and regional comparisons. *Aeolian Research* 2: 83-92.

- 2010 Schrotenboer, B.R., and **Arbogast, A.F.** Locating alternative sand sources to coastal sand dunes for Michigan's foundry industry: A geographical approach. *Applied Geography* 30: 697-719.
- Hansen, E.C., Fisher, T.G., **Arbogast, A.F.**, and Bateman, M. Geomorphic history of low perched, transgressive dune complexes along the southeastern shore of Lake Michigan. *Aeolian Research* 1: 111-127.
- Hanson, P., **Arbogast, A.F.**, Johnson, W.C., Joeckel, R. M., and Young, A.R. Megadroughts and Late Holocene Dune Activation at the Eastern Margin of the Great Plains, North-Central Kansas, USA. *Aeolian Research* 1: 101-110.
- 2009 **Arbogast, A.F.**, Shortridge, A.M., and Bigsby, M.E. Using volumetric estimates of eolian sand to explain the geography of coastal sand dunes in Lower Michigan. *Physical Geography*, 30: 479-500.
- 2008 **Arbogast, A.F.**, Bookout, J.R., Schrotenboer, B.L., Lansdale, A.M., Rust, G.A., and Bato, V.A. Post-glacial fluvial response and landform development in the upper Muskegon River Valley in North-Central Lower Michigan, U.S.A. *Geomorphology* 102: 615-623.
- 2007 Winklerprins, A.M.G.A., Weisenborn, B.N., Groop, R., and **Arbogast, A.F.** Developing online geography courses: Experiences from Michigan State. *Journal of Geography* 106:163-170.
- 2006 Hansen, E.C., **Arbogast, A.F.**, van Dijk, D., Yurk, B. Growth and migration of parabolic dunes along the southeastern coast of Lake Michigan. *Journal of Coastal Research* Special Issue 39: 209-214.
- 2005 Cordoba-Lepczyk, X.D., and **Arbogast, A.F.** Geomorphic history of dunes at Petoskey State Park, Petoskey, Michigan: Significance to coastal dune formation models. *Journal of Coastal Research* 14: 231-241.
- 2004 **Arbogast, A.F.**, Schaeztl, R.J., Hupy, J.P., and Hansen, E.C. The Holland Paleosol: An informal pedostratigraphic unit in the coastal dunes of southeastern Lake Michigan. *The Canadian Journal of Earth Sciences* 14: 1385-1400.
- Hansen, E.C., **Arbogast, A.F.**, and Yurk, B. The history of dune growth and migration along the southeastern shore of Lake Michigan: A perspective from Green Mountain Beach. *Michigan Academician* 35: 455-478.
- Arbogast, A.F.**, and Packman, S.G. Middle Holocene mobilization of aeolian sand in western upper Michigan and the probable relationship with climate and fire. *The Holocene* 14: 464-471.
- Harman, J.R., and **Arbogast, A.F.**, Empirical uncertainty and environmental ethics: The case of shoreline dunes in western Lower Michigan. *The Annals of the Association of American Geographers* 94: 23-36.
- 2002 Hansen, E.C., **Arbogast, A.F.**, Packman, S.C., and Hansen, B. Post-Nipissing origin of a backdune complex along the southeastern shore of Lake Michigan. *Physical Geography* 23: 233-244.
- Arbogast, A.F.**, Hansen, E.C. and Van Oort, M.D. Reconstructing the geomorphic evolution of large coastal dunes along the southeastern shore of Lake Michigan. *Geomorphology* 46: 241-255.
- Arbogast, A.F.**, Wintle, A.G., and Packman, S.C. Widespread middle Holocene dune formation in the eastern upper peninsula of Michigan and the relationship to climate outlet-controlled lake level. *Geology* 30: 55-58.
- 2001 Van Oort, M., **Arbogast, A.F.**, Hansen, E.C., and Hansen, B. Geomorphological history of massive parabolic dunes, Van Buren State Park, Van Buren County, Michigan. *Michigan Academician* 33: 175-188.
- 2000 **Arbogast, A.F.** Estimating the time since final stabilization of a perched dunefield along Lake Superior, *The Professional Geographer* 52: 594-606.

- 2000 Loope, W.L., and **Arbogast, A.F.** Dominance of a ~150-Year cycle of sand-supply change in late Holocene dune building along the eastern shore of Lake Michigan. *Quaternary Research* 54: 414-422.
- Arbogast, A.F.**, and Muhs, D.R. Geochemical and mineralogical evidence from eolian sediments for northwesterly mid-Holocene paleowinds, central Kansas; in S. Wolfe, G. Goodfriend, and R. Baker eds, *Holocene Environmental Change on the Great Plains of North America. Quaternary International* 67: 107-118.
- 1999 **Arbogast, A.F.**, and Loope, W.L. Maximum-limiting ages of Lake-Michigan coastal dunes: Their correlation with Holocene lake level history. *The Journal of Great Lakes Research* 29: 372-382.
- Brown, D.G., and **Arbogast, A.F.** Digital photogrammetric change analysis as applied to active coastal dunes in Michigan. *Journal of Photogrammetric Engineering and Remote Sensing* 65: 467-474.
- 1998 **Arbogast, A.F.**, and Jameson, T.J. Age estimates of inland dunes in east-central Lower Michigan using soils data. *Physical Geography* 19: 485-501.
- Arbogast, A.F.**, and Johnson, W.C. Late-Quaternary landscape response to environmental change in south-central Kansas. *The Association of American Geographers Annals* 88: 125-146.
- 1997 **Arbogast, A.F.**, Scull, P., Schaetzl, R.J., Jameson, T.P., Harrison, J., and Crozier, S. Concurrent stabilization of some interior dune fields in Michigan. *Physical Geography* 18: 61-76.
- 1996 **Arbogast, A.F.** Stratigraphic evidence for late-Holocene eolian sand mobilization and soil formation in south-central Kansas. *Journal of Arid Environments* 34: 403-414.
- Arbogast, A.F.** Late-Quaternary evolution of a lunette in the central Great Plains: Wilson Ridge, Kansas. *Physical Geography* 17: 354-370.
- 1994 **Arbogast, A.F.**, and Johnson, W.C. Climatic implications of the late Quaternary alluvial record of a small drainage basin in the central Great Plains. *Quaternary Research* 41: 298-305.
- 1992 **Arbogast, A.F.** Geoarcheological model of a small basin in the Kansas River system. *Current Research in the Pleistocene* 8: 103-105.

## Articles and Technical Reports

2015 **Arbogast, A.F.**, Cabala, T., Davis, C.F.III, DeVries-Zimmerman, S., Garmon, B., van Dijk, D., Van Horn, J., and Yurk, B. Bringing the Latest Science to the Management of Michigan's Coastal Dunes. Michigan Environmental Council, 45 pgs.

**Arbogast, A.F.**, and Garmon, B. The Emerging Science of Coastal Dune Age and Evolution. Michigan Environmental Council: <http://www.environmentalcouncil.org/mecReports/EmergingScienceofDuneAge.pdf>

2009 Lovis, W.A., **Arbogast, A.F.**, and Monaghan, G.W. Geoarchaeology and Taphonomy of Lake Michigan Coastal Dunes: Activation, Stabilization, Cycling and Archaeological Site Formation Processes. Report submitted to the Environmental Section, Michigan Department of Transportation (Contract IDS 2006-0034-Z1). Michigan State University, East Lansing.

2007 Cabala, T., **Arbogast, A.F.**, Schrottenboer, B.R., Johnson, D., and Davis, C. *Coastal Dunes and the Auto Industry: Investigating Alternatives to Mining*. Alliance for the Great Lakes, Chicago, IL, 39 p.

1996 **Arbogast, A.F.**, and Johnson, W.C. Surficial geology of Stafford County, Kansas. Kansas Geological Survey *Map Series* no. 46 (see the map at: (<http://www.kgs.ukans.edu/General/Geology/County/rs/stafford.html>).

**Arbogast, A.F.**, and Johnson, W.C. Surficial geology and stratigraphy of Russell County, Kansas. Kansas Geological Survey *Technical Series* 7, p. 45.

1996 **Arbogast, A.F.**, and Johnson, W.C. Surficial geology of Russell County, Kansas. Kansas Geological Survey *Map Series* no. 24 (see the map at: <http://www.kgs.ku.edu/General/Geology/County/rs/russellLarge.html>).

1995 **Arbogast, A.F.** Paleoenvironments and desertification on the Great Bend Sand Prairie in Kansas. Kansas Geological Survey *Open-File Report*, no. 95-24.

1994 **Arbogast, A.F.**, and Johnson, W. C. Geoarchaeology of the Lower Verde River, Arizona. Report to Bureau of Reclamation, Tucson, Arizona.

1993 **Arbogast, A.F.** Paleoenvironmental implications of buried soils in a south-central Kansas lunette; In W.C. Johnson, ed., Second International Paleopedology Symposium Field Guide. Kansas Geological Survey *Open-File Report* no. 93-30, pp. 9-1-9-7.

**Arbogast, A.F.** Late-Quaternary evolution of a small basin in the Kansas River system: Wolf Creek. Kansas Geological Survey *Open File Report* 92-8, 152 p.

1992 Johnson, W.C., and **Arbogast, A.F.** Surficial geology of Finney County, Kansas. Kansas Geological Survey *Map Series* no. 23 (see the map at: [http://www.kgs.ku.edu/General/Geology/County/def/fi/gifs/M28rev\\_FinneyGeology\\_2010.pdf](http://www.kgs.ku.edu/General/Geology/County/def/fi/gifs/M28rev_FinneyGeology_2010.pdf))

Johnson, W. C., and **Arbogast, A.F.** Surficial geology of Phillips County, Kansas. Kansas Geological Survey *Map Series* no. 20 (see the map at: [http://www.kgs.ku.edu/General/Geology/County/nop/pl/gifs/M29\\_PhillipsGeology\\_1993.pdf](http://www.kgs.ku.edu/General/Geology/County/nop/pl/gifs/M29_PhillipsGeology_1993.pdf))

1983 **Arbogast, A.F.** Archaeological survey and testing at Milford Lake; In, L.J. Schmits, ed., *Archaeological Survey and Testing at Milford, Melvern, and Pomona Lakes*; Report submitted to the United States Corps of Engineers, Kansas City District, p. 23-56.

**Arbogast, A.F.** The McClatchy site (23BO991): A late-Archaic and late-Woodland site in central Missouri; In L.J. Schmits, ed., *Archaeology of the Columbia Sewer Project, Boone County, central Missouri*; Report submitted to the City of Columbia and the Environmental Protection Agency p. 108-137.

## FUNDED GRANT PROPOSALS AND CONTRACTS

\*\* competitive grant   \* noncompetitive grant

2015	*	Lovis, W.A., <b>Arbogast, A.F.</b> , and Monaghan, G.W. Sleeping Bear Dunes National Lakeshore: Synthesis of Archaeological and Environmental Data Recovery. U.S. Department of the Interior.	<b>\$41,000</b>
2008-2009		Royalties paid to MSU associated with sales of <i>Discovering Physical Geography</i> (1e); Publisher: John Wiley and Sons, Inc.	<b>\$43,025</b>
2007	**	<b>Arbogast, A.F.</b> , and Moy, J. A Holistic Framework for Critical Dune Management ( <i>Phase III</i> ). Michigan Department of Environmental Quality.	<b>\$40,000</b>
2006	**	<b>Arbogast, A.F.</b> , and Moy, J. A Holistic Framework for Critical Dune Management ( <i>Phase II</i> ). Michigan Department of Environmental Quality.	<b>\$45,000</b>
2005	**	<b>Arbogast, A.F.</b> , and Moy, J. A Holistic Framework for Critical Dune Management ( <i>Phase I</i> ) Michigan Department of Environmental Quality.	<b>\$45,000</b>
	**	Lovis, W.A., and <b>Arbogast, A.F.</b> , and Monaghan, G.W. Dune Activation and Archaeological Site Formation: A Taphonomic Perspective to Site Preservation and Prediction. Michigan Department of Transportation.	<b>\$261,421</b>
2004	**	Cabela, T., and <b>Arbogast, A.F.</b> Investigating Alternatives to Coastal Dune Use in Auto Making. Lake Michigan Federation.	<b>\$14,900</b>
2003	**	<b>Arbogast, A.F.</b> , and Moy, J. Using GIS for Decision Support in Critical Dune Management. Michigan Department of Environmental Quality.	<b>\$39,800</b>
2001	**	<b>Arbogast, A.F.</b> , and Dowd, C. Landscape Response to Holocene Environmental Change: The Evolution of the Muskegon River in Michigan (NSF Dissertation Improvement Award).	<b>\$10,000</b>
	*	<b>Arbogast, A.F.</b> Developmental Funds for a New Introductory Textbook in Physical Geography. John Wiley & Sons, Inc.	<b>\$40,000</b>
2000	**	<b>Arbogast, A.F.</b> , and Qi, J. Establishing a Protocol for High-Resolution Monitoring of the Lake Michigan Shore. Michigan Department of Environmental Quality.	<b>\$49,600</b>
1999	**	<b>Arbogast, A.F.</b> Integrative Studies Fellowship: Application of computer and web-based instruction to ISS 310. Michigan State University.	<b>\$3,000</b>
	*	<b>Arbogast, A.F.</b> Research Experience for Undergraduates (in association with NSF grant: Late-Quaternary Eolian Environments in the Interior of Michigan)	<b>\$4,485</b>
	*	<b>Arbogast, A.F.</b> Reconstructing the Geological History of Dunes at Petoskey State Park. Michigan State Department of Natural Resources, Parks and Recreation Division:	<b>\$10,465</b>

1998	**	<b>Arbogast, A.F.</b> Application of computer and web-based instruction to Physical Geography (R. E. Groop, mentor). <i>Lilly Teaching Fellowship</i> (Michigan State University)	<b>\$12,000</b>
	**	<b>Arbogast, A.F.</b> Late-Quaternary Eolian Environments in the Interior of Michigan. National Science Foundation.	<b>\$119,965</b>
1997	*	<b>Arbogast, A.F.</b> Determining the Source for Late-Holocene Dunes on the Great Bend Sand Prairie, South-Central Kansas. United States Geological Survey.	<b>\$1,100</b>
1996	**	<b>Arbogast, A.F.</b> Reconstructing Episodes of Prehistoric Stability in Parabolic Dunes along Lake Michigan. University Research Grant, MSU College of Social Sciences.	<b>\$3,780</b>
	**	<b>Arbogast, A.F.</b> A Detailed Geological Study of Sand Dunes in Ludington State Park. Michigan Department of Environmental Quality.	<b>\$7,562</b>
	**	<b>Arbogast, A.F.</b> Holocene Desertification and Mobilization of Inland Dune Fields in East-Central Michigan. All University Research Initiation Grant; Michigan State University	<b>\$12,850</b>
1995	**	<b>Arbogast, A.F.</b> Age and Paleoenvironmental Significance of Inland Dune Fields in East-Central Michigan. University Research Grant, MSU College of Social Sciences.	<b>\$3,530</b>
	**	<b>Arbogast, A.F.</b> Sigma Xi Research Grant	<b>\$400</b>
1992	**	Johnson, W.C., and <b>Arbogast, A.F.</b> Graduate Student Fellowship in Global Climate Change. National Aeronautics and Space Administration (NASA).	<b>\$66,000</b>
1989	**	<b>Arbogast, A.F.</b> Sigma Xi Research Grant	<b>\$500</b>

*Total of contracts and grants received: \$878,383*



## PAPERS PRESENTED AT PROFESSIONAL MEETINGS OR SYMPOSIA

*(Name of Presenter Listed First)*

- 2015      **Arbogast, A.F.**, Monaghan, G.W., and Lovis, W.A. Hemispheric ENSO Cycling and Lake Michigan Coastal Dune Evolution: A Relationship? 9<sup>th</sup> Biennial State of Lake Michigan/15<sup>th</sup> Annual Lake Michigan Beach Association Joint Conference, Program, pg. 18, Traverse City, MI.
- Luehmann, M.D., **Arbogast, A.F.**, Monaghan, G.W., Lovis, W.A., Michalek, M.J., Wang, H. Late-Pleistocene Fluvial Incision and Perched-Dune Formation along the Lower Au Sable River in Northeastern Lower Michigan, USA. Association of American Geographers Annual Meeting, Programs and Abstracts, Chicago, IL.
- Luehmann, M.D., **Arbogast, A.F.**, Monaghan, G.W., Lovis, W.A., Michalek, M.J., Wang, H. Late-Pleistocene Fluvial Incision and Perched-Dune Formation along the Lower Au Sable River in Northeastern Lower Michigan, USA. Geological Society of American North-Central Section Annual Meeting, Programs and Abstracts, Madison, WI.
- 2014      Loope, W.L. and **Arbogast, A.F.** Exploring Issues of Variable OSL Ages in the Study of Quaternary Dune History in Upper Michigan, USA. Geological Society of America Regional Meeting, Lincoln, NE, Abstracts with Programs, p. 62.
- 2013      Luehmann, M.D., Schaetzl, R. J., Lusch, D., Larson, G., Kincare, K. A., and **Arbogast, A.F.** Distribution and Characteristics of Late Wisconsin Deltas in Southern Michigan, USA. Geological Society of America Annual Meeting, Programs and Abstracts. Denver, CO.
- Wernette, P., Shortridge, A.M., Lusch, D., and **Arbogast, A.F.** Accounting for Positional Uncertainty in Shoreline Change Analysis. Geological Society of America Annual Meeting, Programs and Abstracts. Denver, CO.
- Michalek, M.J., and **Arbogast, A.F.** Historic channel changes in the Muskegon River, North-Central Michigan, USA. Geological Society of America Annual Meeting, Programs and Abstracts. Denver, CO.
- Monaghan, G.W., **Arbogast, A.F.**, Lovis, W.A., and Kowalski, P.A. Millennial-scale cycles of coastal dune formation during the late Holocene, Lake Michigan. Geological Society of America Regional Meeting, Kalamazoo, Michigan, Programs and Abstracts.
- Michalek, M. and **Arbogast, A.F.** Historic channel changes in the Upper Muskegon River, north-central Michigan. Association of American Geographers Annual Meeting, Los Angeles, CA, Programs and Abstracts.
- Kowalski, D.M. and **Arbogast, A.F.** Statistical comparison of sand dune chronologies in the Great Plains and eastern Lake Michigan coastline. Association of American Geographers Annual Meeting, Los Angeles, CA, Programs and Abstracts.
- 2012      **Arbogast, A.F.**, Luehmann, M.D., Miller, B.A., and Wernette, P.A. Late-Pleistocene wind-flow patterns and dune formation in north-central Lower Michigan. Geological Society of America Annual Meeting, Programs and Abstracts. Charlotte, NC.
- Arbogast, A.F.**, Luehmann, M.D., Miller, B.A., Wernette, P.A., Adams, K.M., Waha, J. D., Oneil, G.A., Tang, Y., Boothroyd, J.J., Babcock, C.R., Hanson, P.R., and Young, A.R. Late-Pleistocene wind-flow patterns and dune formation in north-central Lower Michigan. Association of American Geographers Annual Meeting, New York, NY.

- 2012 Waha, J., and **Arbogast, A.F.** The Geomorphology of Coastal Dune Systems on the Islands of Northern Lake Michigan, Association of American Geographers Annual Meeting, New York,
- 2011 **Arbogast, A.F.**, Devisser, M.H., Hanson, P.R., Bigsby, M.E., Young, A.R. OSL Ages of Coastal Sand Dunes along the Northwestern Shore of Lake Huron in Lower Michigan: Implications for Sand Supply and Paleowinds. Association of American Geographers Annual Meeting, Seattle, WA.
- Arbogast, A.F.**, Monaghan, G.W., and Lovis, W.A. Exploring the Potential Linkage of Coastal Sand Dune Activation and Drought Episodes in the Northern Lake Michigan Basin, Geological Society of America Annual Meeting, Minneapolis, MN.
- Monaghan, G.W., Lovis, W.A., and **Arbogast, A.F.** Archaeological site preservation and settlement reconstructions in coastal dunes of Lake Michigan. Indiana Academy of Sciences, Indianapolis, IN.
- 2010 **Arbogast, A.F.**, Hanson, P.R., DeVisser, M.H., Bigsby, M.E., and Young, A.R. OSL ages of coastal dunes along the northwestern shore of Lake Huron in Lower Michigan: Implications for sand supply and paleowinds. Geological Society of America Annual Meeting, Programs and Abstracts, Denver, CO.
- Arbogast, A.F.**, and Shortridge, A.M. Calculating sand volume in coastal dunes along the shore of Lake Huron. East Lakes Association of American Geographers Annual Meeting, Grand Valley State University, Grand Rapids, MI.
- 2009 **Arbogast, A.F.**, Monaghan, G.W., Lovis, W.A., Forman, S.L. Geomorphic evolution of coastal dunes in the northern part of Lake Michigan: Environmental controls, regional comparisons, and geoarchaeological implications. Geological Society of America Annual Meeting, Portland, Oregon.
- Arbogast, A.F.**, Monaghan, G.W., and Lovis, W.A. Geomorphic evolution of coastal dune fields in the northeastern part of the Lake Michigan basin: The relationship to lake levels and isostatic rebound. Michigan Academy of Sciences Arts and Letters Annual Meeting, Abstracts with Programs, Kalamazoo, Michigan.
- Arbogast, A.F.**, Monaghan, G.W., and Lovis, W.A. Geomorphic evolution of coastal dune fields in the northeastern part of the Lake Michigan basin: The relationship to lake levels and isostatic rebound. Association of American Geographers Annual Meeting, Las Vegas, NV.
- Arbogast, A.F.**, Monaghan, G.W., and Lovis, W.A. Geomorphic evolution of coastal dune fields in the northeastern part of the Lake Michigan basin: The relationship to lake levels and isostatic rebound. Geological Society of America Regional Meeting, Rockford, IL.
- 2008 Lovis, W.A., **Arbogast, A.F.**, and Monaghan, G.W. The taphonomy and chronology of archaeological sites in Lake Michigan coastal dunes. Geological Society of American Regional Meeting, Rockford, IL.
- Bigsby, M.E., **Arbogast, A.F.**, and Shortridge, A.M. Calculating Sand Volumes in Coastal Dunes along the Eastern Shore of Lake Michigan. Association of American Geographers Annual Meeting, Las Vegas, NV.
- Arbogast, A.F.**, Monaghan, G.W., and Lovis, W.A. Dune Activation and Cycling: The Taphonomy of Buried and Stratified Archaeological Sites in the Lake Michigan Coastal Zone. Paper presented at the Science and Archaeology Symposium, Urbana, IL.

- 2008
- Lovis, W.A., Monaghan, G.W., and **Arbogast, A.F.** Dune Activation and Cycling: The Taphonomy of Buried and Stratified Archaeological Sites in the Lake Michigan Coastal Zone. Paper presented at the State Service for Archaeology, Cultural Landscapes and Built Heritage (Rijksdienst voor Archeologie, Cultuurlandschap en Monumenten, RACM), Amersfoort, The Netherlands.
- Arbogast, A.F.** Repeat photography of Lake Michigan coastal dunes: Dune stabilization at low lake phase. North-Central Section, Geological Society of America Annual Meeting, Evansville, IN. Abstracts and Programs.
- Lovis, W.A., **Arbogast, A.F.**, and Monaghan, G.W. Dune activation, cycling, and the taphonomy of buried and stratified archaeological sites in the Lake Michigan coastal zone. Conference on Michigan Archaeology, Michigan State University, East Lansing, MI.
- Lovis, W.A., **Arbogast, A.F.**, and Monaghan, G.W. Dune activation, cycling, and the taphonomy of buried and stratified archaeological sites in the Lake Michigan coastal zone. Canadian Archaeological Association, Trent University, Peterborough, Ontario, Canada.
- Arbogast, A.F.** Repeat photography of Lake Michigan coastal dunes: Dune stabilization at low lake phase. International Dune Conference, Liverpool, England, Program and Abstracts, p. 39.
- Arbogast, A.F.** Repeat photography of Lake Michigan coastal dunes: Dune stabilization at low lake phase. Association of American Geographers Annual Meeting, Boston, MA.
- Blumer, B.E., and **Arbogast, A.F.** First Application of OSL dating to test the perched dune model. Association of American Geographers Annual Meeting, Boston, MA.
- Shortridge, A.M. and **Arbogast, A.F.** Spotting the Rockies from Kansas: Reconstructing Miocene viewsheds with GIS. Association of American Geographers Annual Meeting, Boston, MA.
- Holmstadt, J.F., **Arbogast, A.F.**, and Lovis, W.A. Geomorphology and geoarchaeology of a small foredune complex along the eastern shore of Lake Michigan. Michigan Academy of Sciences Arts and Letters Annual Meeting, Abstracts with Programs, Kalamazoo, Michigan.
- Arbogast, A.F.** Repeat photography of Lake Michigan coastal dunes: Dune stabilization at low lake phase. Michigan Academy of Sciences Arts and Letters Annual Meeting, Abstracts with Programs, Kalamazoo, Michigan.
- Blumer, B.E., and **Arbogast, A.F.** First Application of OSL to test the perched dune model. Michigan Academy of Sciences Arts and Letters Annual Meeting, Abstracts with Programs, Kalamazoo, Michigan.
- 2007
- Lovis, W.A., **Arbogast, A.F.**, and Monaghan, G.W. Coastal dune activation, stabilization and cycling: The taphonomy of stratified archaeological sites in the Lake Michigan basin. Canadian Archaeological Association Meeting, Peterborough, Ontario.
- Arbogast, A.F.** Repeat photography of Lake Michigan coastal dunes: Dune stabilization at low lake phase. Association of American Geographers, East Lakes Conference, East Lansing, MI.
- Arbogast, A.F.** A potential classification system for coastal sand dunes along the eastern shore of Lake Michigan. North-Central Section, Geological Society of America Annual Meeting, Lawrence, KS. Abstracts and Programs.

- 2006 **Arbogast, A.F.** A potential classification system for coastal sand dunes along the eastern shore of Lake Michigan. Association of American Geographers Annual Meeting, San Francisco, CA. Abstracts and Programs.
- Lovis, W.A., Monaghan, G.W., and **Arbogast, A.F.** Dune activation, cycling, and the taphonomy of stratified archaeological sites in the Lake Michigan coastal zone. Presented at the 52<sup>nd</sup> Annual Meeting of the Midwest Archaeological Conference, Inc., Urbana, IL.
- Bookout, J.B., **Arbogast, A.F.**, Moy, J., and Enslin, B. What I learned while creating the Critical Dune Tool: Opportunities for improving critical dune policy and management. Great Lakes Dune Conference, Traverse City, MI, October 3-4.
- Arbogast, A.F.** A potential classification system for coastal dunes along Lake Michigan. Great Lakes Dune Conference, Traverse City, MI, October 3-4.
- Schrotenboer, B.R., **Arbogast, A.F.**, Cabala, T.J., Johnson, D. Locating alternative sand sources for Michigan's foundry industry: A geographical approach. Great Lakes Dune Conference, Traverse City, MI, October 3-4.
- Arbogast, A.F.**, and Flahive, R.A. Developing an Earth cache database for physical geography. Association of American Geographers Annual Meeting, Chicago, IL.
- 2006 Schrotenboer, B.R., and **Arbogast, A.F.** Locating alternative sand sources for Michigan's foundry industry: A geographical approach. Association of American Geographers Annual Meeting, Chicago, IL.
- Weisenborn, B.N., Groop, R.E., **Arbogast, A.F.**, Winklerprins, A.M.G.A., Harman, J. R. Assessing online geography courses at Michigan State University. Association of American Geographers Annual Meeting, Chicago, IL.
- 2005 **Arbogast, A.F.**, Bato, V.A., Bookout, J.B., Lansdale, A.L., Manschot, E.P., Rust, G.L., Schrotenboer, B.R., Stream terrace evolution along the upper Muskegon River in Michigan. Association of American Geographers Annual Meeting, Denver, CO.
- Arbogast, A.F.** Geomorphology of coastal dunes along Lake Michigan: The relationship of lake level and sand supply. International Association of Great Lakes Annual Conference, Ann Arbor, MI.
- 2004 Weisenborn, B.N., Winklerprins, A.W.P., Groop, R.G., and **Arbogast, A.F.** Developing a virtual geography program. Association of American Geographers Annual Meeting, Philadelphia, PA.
- 2003 **Arbogast, A.F.**, Wintle, A.G., and Packman, S.C. Early Holocene mobilization of eolian sand in eastern Lower Michigan. International Quaternary Association Bi-annual meeting, Reno, NV, Programs with Abstracts.
- 2003 **Arbogast, A.F.**, Hansen, E.C., and Yurk, B. Geomorphic history of the coastal dune complex southwest of Holland, Michigan. Michigan Academy of Sciences Annual Meeting, Hope College, Holland, MI.
- Hupy, J.P., Schaeztl, R.J., and **Arbogast, A.F.** Introducing the Holland Paleosol: A late Holocene buried soil in Michigan's coastal dunes. Michigan Academy of Sciences Annual Meeting, Hope College, Holland, MI.

- 2002      **Arbogast, A.F.** Holocene geomorphology in Michigan: More than just a glacial landscape. Association of American Geographers Annual Meeting, New Orleans, LA.
- Arbogast, A.F.** New understandings about the evolution of coastal dunes along the southeastern shore of Lake Michigan. Association of American Geographers, East Lakes Division, Annual Meeting.
- Hupy, J.P., Schaetzl, R.J., **Arbogast, A.F.**, and Hansen, E.C. Introducing the Holland Paleosol: A late-Holocene buried soil in Michigan 's coastal dunes. Association of American Geographers, East Lakes Division, Annual Meeting.
- Hansen, E.C., Yurk, B., and **Arbogast, A.F.** Migration history of Green Mountain beach dune, southeastern shore of Lake Michigan. Association of American Geographers, East Lakes Division, Annual Meeting.
- Packman, S.C., Wintle, A.G., Duller, G.A.T., and **Arbogast, A.F.** Disturbing equivalent dose distributions. 10<sup>th</sup> International Conference on Luminescence and Electron Spin Resonance Dating, Reno, NV.
- Drzyzga, S.A. and **Arbogast, A.F.** Technical notes about using Ikonos imagery to monitor and map coastal landscape change along the Great Lakes. Geological Society of America Annual Meeting, North-Central Section, Lexington, KY.
- Kelley, E.L., and **Arbogast, A.F.** The post-glacial geomorphic history of a portion of the Manistee River. Geological Society of American Annual Meeting, North-Central Section, Lexington, KY.
- Arbogast, A.F.**, Wintle, A.G., and Packman, S.C. Middle Holocene mobilization of eolian sand on an outwash plain in western Upper Michigan. Geological Society of America Annual Meeting, North-Central Section, Lexington, KY.
- 2001      Packman, S.C., Wintle, A.G., and **Arbogast, A.F.** Middle Holocene dune formation in the eastern upper peninsula of Michigan. Glasgow Conference on Luminescence Dating.
- Yurk, B., Weiss, W., Woloszyn, K., Van Oort, M., Hansen, E.C., and **Arbogast, A.F.** Development and growth of parabolic dunes along the southeastern shore of Lake Michigan. Geological Society of America Annual Meeting, Abstracts with Programs.
- Arbogast, A.F.**, Hansen, E.C., and Loope, W.L. Geomorphic evolution of the coastal dune landscape along the southeastern shore of Lake Michigan. Geological Society of America Annual Meeting, Abstracts with Programs.
- Hansen, E.C., **Arbogast, A.F.**, Van Oort, M.D., and Hansen, B. History of the growth and migration of parabolic dunes along the southeastern shore of Lake Michigan. International Association of Great Lakes Research Annual Conference, Green Bay, WI.
- Dowd, C.M., and **Arbogast, A.F.** Pre-historic channel patterns of the Muskegon River, north-central Lower Michigan. Association of American Geographers Annual Meeting, New York, NY.
- Arbogast, A.F.**, Hansen, E.C., and Van Oort, M.D. The emerging record of coastal dune evolution along the southeastern shore of Lake Michigan. Geological Society of America Annual Meeting, North-Central Section, Normal, IL, Abstracts with Programs.

- 2001 **Arbogast, A.F.**, Wintle, A.G., and Packman, S.C. Application of a modified perched dune model to dunes along the Au Sable River in Michigan. Association of American Geographers Annual Meeting, New York, NY.
- 2000 Van Oort, M.D., **Arbogast, A.F.**, and Hansen, E.C. Evolution of a massive coastal dune along the southeastern shore of Lake Michigan: Lake level and regional correlations. Geological Society of America Annual Meeting, Reno, NV, Abstracts with Programs.
- Arbogast, A.F.**, Wintle, A.G., Packman, S.C. Widespread mid-Holocene mobilization of eolian sand in the interior of Michigan 's eastern Upper Peninsula. Geological Society of America Annual Meeting, Reno, NV, Abstracts with Programs.
- Dowd, C.A., **Arbogast, A.F.**, and Baker, K.M. Virtual physical geography: Constructing and teaching an internet-based course, East Lakes Meeting, Association of American Geographers, Miami University, Oxford, OH.
- Arbogast, A.F.** The emerging record of coastal dune evolution along the southeastern shore of Lake Michigan. Great Lakes Region Geological Conference, Lansing, MI, Abstracts and Programs.
- Arbogast, A.F.**, and Cordoba, X.D. Interactions between humans and coastal sand dunes at Petoskey State Park, MI. Association of American Geographers Annual Meeting, Pittsburgh, PA.
- 1999 **Arbogast, A.F.**, Hansen, E.C. Reconstructing the Geomorphic Chronology of Massive Lake-Terrace Dunes along Lake Michigan. Geological Society of America Annual Meeting, Denver, CO., Abstracts with Programs.
- 1998 **Arbogast, A.F.**, and Muhs, D.R. Geochemical evidence for the youth of dunes in the Great Bend Sand Prairie, Kansas, Geological Society of America Annual Meeting, Toronto, CA, Abstracts with Programs.
- Arbogast, A.F.** Paleoenvironmental implications of interior dune fields in Michigan, Michigan: Its Geology and Geologic Resources (5th Symposium). Michigan Geological Survey Division, MI.
- 1998 Department of Environmental Quality, and Michigan Basin Geological Society; East Lansing, MI, Program and Abstracts.
- Arbogast, A.F.**, and Loope, W.L. Preliminary age estimates from parabolic dunes along the eastern shore of Lake Michigan, Association of American Geographers Annual Meeting, Boston, MA, Programs and Abstracts.
- 1997 **Arbogast, A.F.** and Schaetzl, R.J. Research emphases and preliminary results from eolian landscapes in eastern Lower Michigan, East Lakes Division, Association of American Geographers.
- Brown, D.G., and **Arbogast, A.F.** Application of digital photogrammetry to the study of active coastal dunes, Association of American Geographers Annual Meeting, Fort Worth, TX, Programs and Abstracts.
- Arbogast, A.F.** Using soils to estimate the age of stabilized perched dunes along Lake Superior, Association of American Geographers Annual Meeting (Session Chair), Fort Worth, TX, Programs and Abstracts.
- 1996 **Arbogast, A.F.** and Schaetzl, R.J. Soil characteristics as evidence for Holocene mobilization of inland dunes in east-central Lower Michigan, Geological Society of America Annual Meeting, Denver, CO, Abstracts with Programs.

- 1995 **Arbogast, A.F.** Late-Quaternary climate change and landscape evolution on the Great Bend Sand Prairie in south-central Kansas, Geological Society of America Annual Meeting, North-Central Section, Lincoln, NE, Programs and Abstracts.
- 1994 **Arbogast, A.F.** Holocene desertification on the Great Bend Sand Sheet in Kansas, Geological Society of America Annual Meeting, Seattle, WA.
- Arbogast, A.F.** Late-Quaternary paleoenvironments of the Great Bend Prairie in Kansas, Association of American Geographers Annual Meeting, San Francisco, CA, Programs and Abstracts.
- 1994 **Arbogast, A.F.** Late-Quaternary stratigraphy of the Great Bend Sand Sheet, Kansas, Association of Professional Soil Classifiers, Hutchinson, KS.
- 1993 **Arbogast, A.F.** Paleoenvironments and geomorphic processes on the Great Bend Sand Sheet. Geological Society of America Annual Meeting, Boston, MA, Programs and Abstracts.
- Arbogast, A.F.** Late-Quaternary landscape evolution on the Great Bend Sand Sheet. Kansas, Association of American Geographers Annual Meeting, Atlanta, GA, Programs and Abstracts.
- Logan, B., Johnson, W.C., and **Arbogast, A.F.** The Kansas sand prairies geoarchaeological survey, 15th annual. Flint Hills Conference, Wichita, KS.
- 1991 **Arbogast, A.F.** Late-Quaternary evolution of a small basin in the Kansas River system: Wolf Creek, Geological Society of America Annual Meeting, San Diego, CA, Programs and Abstracts.
- Arbogast, A.F.** Late-Quaternary evolution of a small basin in the Kansas River System: Wolf Creek, Association of American Geographers (Great Plains/Rocky Mountain Division) meeting, Laramie, WY, Programs and Abstracts.
- 1990 **Arbogast, A.F.** Late-Quaternary stratigraphy of the North Fork Solomon River Valley, Phillips County, Kansas, Association of American Geographers Annual Meeting, Toronto, CA, Programs and Abstracts.

## GUEST LECTURES AND COLLOQUIA

*(Sole presenter unless otherwise noted with presenter listed first)*

- 2015 **Arbogast, A.F.**, Lovis, W.A., and Monaghan, G.W. Potential Forcing Variables that Drive Coastal Dune Evolution along the Eastern Shore of Lake Michigan: Does Hemispheric ENSO Cycling Play a Role? CILER-GLERL Great Lakes Seminar Series, NOAA - Ann Arbor, MI.
- 2014 **Arbogast, A.F.** The Geography and Evolution of Coastal Sand Dunes along the Eastern Shore of Lake Michigan. Muskegon Community College.
- 2012 **Arbogast, A.F.** The geomorphology of coastal sand dunes along the eastern shore of Lake Michigan. Geography Awareness Week Kickoff Presentation, Saginaw Valley State University, Saginaw, MI.
- 2010 **Arbogast, A.F.** Principles of Geomorphology and Soils – Two day workshop, U.S. Army Corps of Engineers, Traverse City, MI, 8/17-8/18.

Teaching Physical Geography Online – Wiley Webinar, April 18, 2011.

- 2010 Lovis, W.A., **Arbogast, A.F.**, Monaghan, G.W. Coastal Dune Activation, Stabilization and Cycling: The Taphonomy of Buried and Stratified Archaeological Sites in the Lake Michigan Basin. Huron Valley Chapter, Michigan Archaeological Society, Kelsey Museum of Archaeology, Ann Arbor, MI.
- 2009 Repeat Photography of Lake Michigan Coastal Dunes. Presentation to Okemos Rotary Club.
- Lovis, W.A., Arbogast, A.F., and Monaghan, G.W. The taphonomy and chronology of archaeological sites in Lake Michigan coastal dunes. The University of Michigan Museum of Anthropology Brown Bag Series, Ann Arbor, MI.
- 2008 Lovis, W. A., **Arbogast, A.F.**, and Monaghan, G.W. Michigan Dunes. Public presentation at Michigan Archaeology Day, State Historical Museum, Lansing, MI.
- Arbogast, A.F.** Emerging Understandings about Lake Michigan Coastal Dunes. Presentation at Michigan Dune Alliance Conference, Hoffmaster State Park.
- Cabala, T.J., **Arbogast, A.F.**, and Schrottenboer, B.A. Moving away from mining coastal dunes: Research on inland alternatives. Forum at P. J. Hoffmaster State Park.
- Lovis, W.A., Monaghan, G.W., and **Arbogast, A.F.** Coastal dune activation, stabilization and cycling: The taphonomy of stratified archaeological sites in the Lake Michigan basin. Public presentation to the Upper Grand Valley Chapter, Michigan Archaeological Society, East Lansing, MI.
- 2007 Geomorphology of coastal sand dunes along Lake Michigan. General Motors Sigma XI program presentation.
- Geomorphology of coastal sand dunes along Lake Michigan. Geography Colloquium, Louisiana State University.
- 2005 Energy Consumption Patterns in the United States. Unitarian Universalist Church of Greater Lansing.
- 2005 Scientific Evidence for Global Climate Change. Unitarian Universalist Church of Great Lansing.
- Geomorphology of coastal dunes along Lake Michigan. Geography Colloquium Series, University of Kansas, Department of Geography.
- 2004 Geomorphology of coastal dunes along Lake Michigan. Presented to the Lake Michigan Federation in St. Joseph, Michigan. Event sponsored by the L.C. and Margaret Walker Foundation and the Priscilla U. Byrns Heritage Center.
- 2003 **Arbogast, A.F.**, and Walker, R. In Search of Amazonian Dune Fields: The Road to Jalapão. Geography Colloquium Series, Michigan State University.
- Geomorphology of coastal dunes along Lake Michigan. Presented to the Chikaming Open Lands Society at Warren Dunes State Park.
- Geomorphology of coastal dunes along Lake Michigan. Presented to the first annual *Michigan Dune Day* celebration at Hoffmaster State Park.
- Geomorphology of coastal dunes along Lake Michigan. Presented at the Hoffmaster Spring Speaker series; sponsored by the Lake Michigan Federation.



- 2003 New understandings about the evolution of coastal dunes along the southeastern shore of Lake Michigan. Geography Colloquium Series, Michigan State University.
- New understandings about the evolution of coastal dunes along the southeastern shore of Lake Michigan. Geology Colloquium Series, Michigan State University.
- New understandings about the evolution of coastal dunes along the southeastern shore of Lake Michigan. Presented to the Michigan Dune Alliance, South Haven, MI.
- Surviving and thriving as an undergraduate at Michigan State University. Presented to 11 separate groups of freshmen during the AOP orientation series.
- 2001 Using IKONOS satellite imagery to monitor coastal change along Lake Michigan and Lake Huron. Presented to the Michigan Department of Environmental Quality, Coastal Management Division.
- The emerging record of coastal dune evolution along the southeastern shore of Lake Michigan. Presented to the monthly dinner of the Michigan Basin Geological Society.
- Surviving and thriving as an undergraduate at Michigan State University. Presented to 13 separate groups of freshmen during the AOP orientation series.
- 2000 Creating and teaching a virtual course at Michigan State University: Introduction to Physical Geography (GEO 206V). Presented at the Instructional Technology Symposium at MSU.
- Surviving and thriving as an undergraduate at Michigan State University. Presented to 15 separate groups of freshmen during the AOP orientation series.
- Buried soils in coastal dunes along Lake Michigan: Their significance to coastal dune reconstruction. Presented at North Central Soil Survey Conference, Van Buren State Park on 6/21.
- The evolution of sand dunes at Petokey State Park. Presented at the Michigan Department of Natural Resources (Parks and Recreation Division) Management Meeting on 6/15 (in Lansing).
- The emerging geomorphic record of coastal sand dunes along Lake Michigan. Presented at the *RESAC* Brown Bag series on April 27.
- Integrative studies and the internet. Presentation given to the final meeting of the MSU Integrative Studies Institute 1999-2000.
- Preliminary implications of teaching Physical Geography (GEO 206) in the virtual environment. College of Natural Resources Explorations in Instructional Technology Brown Bag Series, Michigan State University.
- Using the virtual environment to teach *Introduction to Physical Geography* (GEO 206). Office of Libraries, Computing, and Technology Faculty Computer Fair (3/29).
- 1999 Surviving and thriving as an undergraduate at Michigan State University. Presented to 19 separate groups of freshman during the AOP orientation series.
- Developing virtual university and interactive web course material at MSU. *Lilly Workshop Series* (11/19), Kellogg Center, Michigan State University.

1999 Course content and student interactions in ISS 310. Presented at the Integrative Studies Institute Kickoff Workshop (8/17), Kellogg Center, Michigan State University.

Eolian landscapes in Michigan. Colloquia presented (5/26) at the Department of Geography, Kansas State University, Manhattan, Kansas.

Eolian landscapes in Michigan. Colloquia presented (9/11) at the Hope College Department of Geology,

## POPULAR EXHIBITS

2010 Lovis, W.A., **Arbogast, A.F.**, Monaghan, G.W., and Robertson, J.A. 2010. *Archaeological Sites and the Coastal Sand Dunes of Lake Michigan*. Public Display Poster, Michigan Department of Transportation, Lansing.

Lovis, W.A., **Arbogast, A.F.**, Monaghan, G.W., and Robertson, J.A. 2010. *Coastal Sand Dunes of Lake Michigan*. Four fold public brochure. Michigan Department of Transportation, Lansing.

2000 *Dune System Evolution and Research* - Data from study at Petoskey State Park presented in the form of an exhibit at the *Coastal Dunes Information Center* at Muskegon. This exhibit will be available to the public for 10 years.

## POPULAR PRESS

Articles about my research about sand dunes in Michigan have been featured in the Lansing State Journal, Grand Rapids Press, Muskegon Chronicle, Detroit Free Press, South Bend Tribune, The Times of Northwestern Indiana, The Buffalo (NY) News, and Chicago Tribune.

Articles about my research in Kansas have been featured in The Topeka Capital Journal, Stafford Courier, and The Pratt Tribune

I have given numerous radio interviews about such issues as Lake Michigan coastal dunes and Geography Awareness Week on the local NPR station.

## TEACHING

### *Teaching Interests*

Introduction to Physical Geography  
Stream Processes and Landforms  
Field Methods

People and the Environment  
Regional Geomorphology  
MSU Office of Study Abroad

### *Traditional Courses*

*Introduction to Physical Geography* (GEO 206) - This course introduces students to basic concepts in physical geography, such as climatology, radiation budgets, plant geography, and geomorphology.

*People and the Environment* (ISS 310) - This course focuses on complex human/environment interactions and contains components of *World Regional Geography*. I teach many of the basic concepts in physical geography (e.g., stream systems) with a cultural overprint (e.g., how people interact with streams).

*Regional Geomorphology* (GEO 407) – This course focuses on the geology and geomorphology of the various landscape regions in North America, including the Atlantic Coastal Plain, Great Lakes, Great Plains, Rocky Mountains, and Colorado Plateau, to name a few. At the end of the semester the class takes a week-long field trip to the central Great Plains to examine landscapes in that region.

*Stream Processes and Landforms* (GEO 411) – I taught this class for the first time in spring, 2008 as an “unofficial” course that focused on stream behavior and landscape evolution. This course is now an official class within the university at the 400 level.

*Seminar in Physical Geography* (GEO 809) - This is a graduate-level class that focuses on intensive geomorphic theory and application. The context of this class varies each semester. In fall, 2005, the class studied the evolution of stream terraces along the Muskegon River in central Lower Michigan.

### *Field Courses*

1999            One-day field course on the methodology associated with sampling sand dunes in Kansas. Course taught (5/27) at Kansas State University, Manhattan, KS

1998            One-day field course on dune geology and sampling along the shore of Lake Michigan. Course taught (9/12) at the Hope College Department of Geology, Holland, Michigan.

### *International Courses (Office of Study Abroad)*

2005 – 2010    *Summer Sports Program Down Under* - I was the first U.S. faculty to work with this program in Australia. I taught a version of *People and the Environment* (ISS 310), including field trips to places like the Blue Mountains and Great Barrier Reef.

2000 - 2002    *Food, Environment, and Social Systems in Australia and New Zealand* - This course is offered during the first summer term and is designed to integrate human environment interactions in both countries.

## *Online Courses Developed*

*People and the Environment* (ISS 310V) - This course is presented as an online version of ISS 310. In that context, an online course was created that can be viewed at: <http://iss310.vu.msu.edu/web/>.

*Introduction to Physical Geography* (GEO 206V) - This course is presented as an online version of GEO 206. In that context, an online course was created that can be viewed at: <http://geo206.vu.msu.edu/web/>.

## GRADUATE COMMITTEES

### *Ph.D.*

Fatima Barry	(Ongoing; <i>Member</i> )
Cathryn Dowd	( <b>Chair</b> ; withdrew from program)
Scott Drzyzga	( <i>Member</i> ; dissertation defended in 2005)
Joseph P. Hupy	( <i>Member</i> ; dissertation defended in 2005)
Allyson Philpotts	( <i>Member</i> ; dissertation defended spring, 2000)
David Ruggles	(Dept. of Anthropology; <i>Member</i> ; dissertation in 2000)
Sarah Surface-Evans	(Dept. of Anthropology; <i>Member</i> ; dissertation in 2009)
Margaret Heyman	(Dept. of Anthropology; <i>Member</i> ; Dissertation in 2009)
Marieka Brouwer	(Department of Anthropology, <i>Member</i> ; defended in 2011)
Albert Fulton	(Dept. of Geography, ongoing; <i>Member</i> )
Michael Luehmann	(Dept. of Geography, ongoing; <i>Member</i> )

### *Masters*

Steven Aichele	( <i>Member</i> ; thesis defended in 1998)
Juleigh Bookout	( <b>Chair</b> ; thesis defended in 2006)
Bradley Blumer	( <b>Chair</b> ; thesis defended in 2008)
Xiomara Cordoba	( <b>Chair</b> ; thesis defended in 2001)
Scott D. Crozier	( <b>Chair</b> ; thesis defended in 1999)
Julie Flagg	( <i>Member</i> ; thesis defended in 1999)
Jennifer Holmstadt	( <b>Chair</b> ; thesis defended in 2008)
Major Thomas P. Jameson	( <b>Chair</b> ; thesis defended in 1997)
Erin Kelley	( <b>Chair</b> ; thesis terminated for personal reasons)
Daniel Kowalski	( <b>Chair</b> ; thesis defended in 2014)
Michael Luehmann	( <i>Member</i> ; thesis defended in 2011)
Michael Michalek	( <b>Chair</b> ; thesis defended in 2015)
Tiffany Murrell	( <b>Chair</b> ; thesis defended in 2003)
Paul Rindfleisch	( <i>Member</i> ; thesis defended in 1999)
Bradley Schrottenboer	( <b>Chair</b> ; thesis defended in 2008)
Kristy Stanley	( <i>Member</i> ; thesis defended in 2008)
Marcia Taliska	( <i>Member</i> ; thesis defended in 2001)
Jaimen Waha	( <b>Chair</b> ; withdrew from program)
Beth Weisenborn	( <i>Member</i> ; thesis defended in 2001)
Phillipe Wernette	( <b>Chair</b> ; thesis defended in 2012)

## **COURSE SUPPLEMENTS AND MATERIALS**

- 1997        **Arbogast, A.F.**, Groop, R.F., Campbell, D.J., Schaeztl, R.J., and Brown, D.B. Construction of web-based modules to supplement *People and the Environment* (ISS 310) and *Introduction to Physical Geography Laboratory* (GEO 206L).
- Schaeztl, R.J., and **Arbogast, A.F.** Physical Geography Laboratory Exercises, Department of Geography, Michigan State University, 132 p.
- 1991        **Arbogast, A.F.** Instructors Manual for Geography 105 Teaching Assistants. University of Kansas, Department of Geography, 87 p.

## PROFESSIONAL SERVICE

### PROMOTION REVIEWS AND NOMINATIONS

- 2014 Timothy Fisher, University of Toledo, Nomination review for *University Distinguished Researcher*
- 2013 Jean Ellis, University of South Carolina, Promotion to *Associate Professor*
- 2002 Todd Thompson, Indiana Geological Survey, Burlington, IN; Promotion to *Senior Scientist*.
- 2001 Edward C. Hansen, Hope College, Holland, MI; Promotion to *Full Professor*.

### BOOK AND FIELD GUIDEBOOK REVIEWS

- 2012 *Dune Complexes along the Southeastern Shore of Lake Michigan: Geomorphic History and Contemporary Processes*. Geological Association of America Guidebook Series.
- 2000 *Paleoindian Geoarchaeology of the Southern High Plains* (by V. T. Holliday) for the Annals of the Association of American Geographers 90:183-186.

### PROPOSAL AND ARTICLE REVIEWS

I have conducted a number of peer reviews for a wide variety of journals, including *Aeolian Research*, *Earth Surface Processes and Landforms*, *Geological Society of America Bulletin*, *Geomorphology*, *Journal of Sedimentary Research*, *Quaternary Research*, *The Holocene*, and *Quaternary Research*. I have also conducted a number of reviews for various granting agencies, including the Great Lakes Protection Fund and NSF.

### EXPERT TESTIMONY

- 2003 *Nugent Sand Mine Administrative Appeal*. Michigan Department of Environmental Quality, Coastal Management Division.
- Lewis Administrative Appeal*. Michigan Department of Environmental Quality, Coastal Management Division.
- 2002 *Brolick Administrative Appeal*. Michigan Department of Environmental Quality, Coastal Management Division.
- Kuhnlein Administrative Appeal*. Michigan Department of Environmental Quality, Coastal Management Division.
- 2001 *Nykerk Administrative Appeal*. Michigan Department of Environmental Quality, Coastal Management Division
- 2000 *Jankowski Administrative Appeal*. Michigan Department of Environmental Quality, Land & Water Management Division.

## UNIVERSITY COMMITTEES AND DEPARTMENTAL SERVICE

- 2013            Committee Chair (Review of Robert Glew as Director of CASID), College of Social Science, Michigan State University.
- Search Committee Member (Associate Dean for Undergraduate Research), College of Social Science, Michigan State University.
- Search Committee Chair (Director – Social Science Scholars Program), College of Social Science, Michigan State University.
- 2010-2012     Graduate Advisor (Department of Geography, Michigan State University)
- 2009-2010     College Curriculum Committee (College of Social Science, Michigan State University)
- 2007-2009     *University Committee on Liberal Learning* (Michigan State University)
- Search Committee Chair (Position SSC, Department of Geography, Michigan State University)
- Search Committee Member (Position NSC-870, Department of Geology, Michigan State University)
- 2005            *Promotion and Tenure Review Committee* (College of Social Science, Michigan State University)
- Curriculum Committee* (Department of Geography, Michigan State University)
- Museum Advisory Committee* (Michigan State University)
- 2003            *Social Science Teacher/Scholar Task Force* (College of Social Science, Michigan State University)
- Merit Committee* (Chair; Department of Geography, Michigan State University)
- 2002-2004     *Faculty Advisory Committee* (Department of Geography, Michigan State University)
- 2002            *Strategic Planning Committee* (Department of Geography, Michigan State University)
- 2000 - 2001    *College Research Committee* (College of Social Science, Michigan State University)
- 2000 - 2002    *Integrative Studies Committee* (College of Social Science, Michigan State University)
- 1999            *Graduate Awards Committee* (Department of Geography, Michigan State University)
- Merit Committee* (Department of Geography, Michigan State University)
- Search Committee (Position SS 102; Department of Geography, Michigan State University)*
- Search Committee (Position SSC 817; Department of Geography, Michigan State University)*
- 1998 - 2000    *Faculty Advisory Committee* (Department of Geography, Michigan State University)
- Curriculum Committee* (Department of Geography, Michigan State University)

- 1997 - 2000 Faculty Advisor, *Gamma Theta Upsilon* (Department of Geography, Michigan State University)
- 1997 *Dean's Assistantship Selection Committee* (Dr. James I. Zacks, Chair; Michigan State University)
- 1994 - 1995 Member: Search Committee for Africanist Geographer, University of Kansas, Department of Geography

***Other Service***

- 2011 & 2013 Member: *MSU Faculty Delegation to China*. This group traveled in China for about 10 days, focusing on the development of research collaborations and student recruitment.
- 2004 Served on MSU panel discussion regarding the expansion of the campus power plant. This event was sponsored by the student environmental group.
- 2000 - 2001 Consultant for the Michigan Department of Natural Resources (Parks and Recreation Division) for the *Coastal Dunes Exhibit* at Muskegon.
- 1997 Member: *MSU Faculty Delegation to Washington, DC*. The trip lasted 3 days and consisted of a series of meetings with members of government and private industry. The primary goal of the delegation was to inform the appropriate agencies (e.g., NSF, NASA) about the environmental focus at Michigan State University.
- 1995 - 1999 Participated in the Steve Jensen program on WKAR radio during Geography Awareness Week in November of each year.

*January, 2016*