MICHAEL A. KOST

Curriculum Vitae

University of Michigan, Matthaei Botanical Gardens and Nichols Arboretum 1800 N. Dixboro Rd., Ann Arbor, MI 48105 Phone: (734) 647-7704 • E-mail: michkost@umich.edu

APPOINTMENTS

2020-	Lecturer, School for Environment and Sustainability (SEAS), University of
	Michigan, Ann Arbor.
2020-	Faculty Affiliate, Program in the Environment (PitE), University of Michigan,
	Ann Arbor.
2019-	Associate Curator, University of Michigan, Matthaei Botanical Gardens and
	Nichols Arboretum
2015-18	Assistant Curator, University of Michigan, Matthaei Botanical Gardens and
	Nichols Arboretum
2014-15	Native Plant Specialist, University of Michigan, Matthaei Botanical Gardens and
	Nichols Arboretum
2009-12	Senior Conservation Scientist / Lead Ecologist, Michigan State University
	Extension, Michigan Natural Features Inventory
2006-09	Senior Conservation Scientist / Ecology Program Leader, Michigan State
	University Extension, Michigan Natural Features Inventory
2004-06	Ecology Program Leader, Michigan State University Extension, Michigan Natural
	Features Inventory
2003-04	Interim Ecology Program Leader, Michigan State University Extension, Michigan
	Natural Features Inventory
2000-03	Associate Program Leader / Ecologist, Michigan State University Extension,
	Michigan Natural Features Inventory
1999-2000	Ecologist, The Nature Conservancy, Michigan Natural Features Inventory
1998-99	Assistant Ecologist, The Nature Conservancy, Michigan Natural Features
	Inventory
1996-98	Manager of Natural History Education / Ecologist, The Morton Arboretum

EDUCATION

1996	M.S. Biological Sciences, University of Wisconsin-Milwaukee
1986	B.S. Public and Environmental Administration, University of Wisconsin-Green
	Bay

HONORS AND AWARDS

- 2017 Special Recognition Award for *A Field Guide to the Natural Communities of Michigan*. Michigan Botanical Club
- 2017 2017 Community Partner Award. Vernal Pools: Using New Technologies, Partnerships, and Citizen Science to Help Understand and Protect a Critical Resource. Community & Natural Resources Development Association at MSU.

<u>PUBLICATIONS</u> <u>Peer-reviewed Books and Articles</u>

Cohen, J.C., M.A. Kost, B.S. Slaughter, and D.A. Albert. 2015. *A field guide to the natural communities of Michigan*. Michigan State University Press, East Lansing, MI. 362 pp. http://msupress.org/books/book/?id=50-1D0-3F20#.XdmlFZNKj_A

Kost, M.A. and D.A. Hyde. 2009. *Exploring the prairie fen wetlands of Michigan*. Michigan State University Extension, Bulletin E-3045, East Lansing, MI. 106 pp. https://mnfi.anr.msu.edu/pdfs/Exploring-the-Prairie-Fen-Wetlands-of-Michigan.pdf

O'Connor, R.P., M.A. Kost, and J.G. Cohen. 2009. *Prairies and savannas in Michigan: Rediscovering our natural heritage*. Michigan State University Press, East Lansing, MI. 152 pp. <u>http://msupress.org/books/book/?id=50-1D0-3C01#.Xdmk_JNKj_A</u>

Kost, M.A. and D. De Steven. 2000. *Plant community responses to prescribed burning in Wisconsin sedge meadows*. Natural Areas Journal 20:36-45. http://www.naturalareas.org/docs/v20 1 00 pp036 045.pdf

Natural Community Classification:

Kost, M.A, D.A. Albert, J.C. Cohen, and B.S. Slaughter. 2010. *A field guide to the Natural Communities of Michigan*. Michigan Natural Features Inventory, Lansing, MI. 189 pp.

Albert, D.A., J.G. Cohen, M.A. Kost, B.S. Slaughter, and H.D. Enander. 2008. *Distribution maps of Michigan's natural communities*. 2008. Michigan Natural Features Inventory, Report Number 2008-01, Lansing, MI. 172 pp. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-2008-01.pdf</u>

Kost, M.A., D.A. Albert, J.G. Cohen, B.S. Slaughter, R.K. Schillo, C.R. Weber, and K.A. Chapman. 2007. *Natural Communities of Michigan: Classification and Description*. Michigan Natural Features Inventory, Report Number 2007-21, Lansing, MI. 314 pp. https://mnfi.anr.msu.edu/reports/MNFI-Report-2007-21.pdf

Conservation Research Studies:

Kost, M.A. and M. Avalos. 2020. Setting conservation management priorities for Matthaei Botanical Gardens, Nichols Arboretum, Horner-McLaughlin Woods, and Mud Lake Bog. U-M Matthaei Botanical Gardens & Nichols Arboretum, Ann Arbor, MI. 21 pp. Publication and accompanying web application available at: <u>https://mbgna-</u>umich.hub.arcgis.com/apps/conservation-management-priorities/explore

Faber-Langendoen, D., C. Hedge, M. Kost, S. Thomas, L. Smart, R. Smyth, J. Drake, and S. Menard. 2012. Assessment of wetland ecosystem condition across landscape regions: A multimetric approach. Part A. Ecological Integrity Assessment overview and field study in Michigan and Indiana. EPA/600/R-12/021a. U.S. Environmental Protection Agency Office of Research and Development, Washington, DC. 130 pp.

https://www.natureserve.org/sites/default/files/publications/files/natureserve_eia_wetlands_epa_part_a_main_report_2012.pdf

Faber-Langendoen, D., J. Rocchio, S. Thomas, M. Kost, C. Hedge, B. Nichols, K. Walz, G. Kittel, S. Menard, J. Drake, and E. Muldavin. 2012. *Assessment of wetland ecosystem condition*

across landscape regions: A multi-metric approach. Part B. Ecological Integrity Assessment protocols for rapid field methods (L2). EPA/600/R-12/021b. U.S. Environmental Protection Agency Office of Research and Development, Washington, DC. 103 pp. https://www.natureserve.org/sites/default/files/publications/files/assessment_of_wetland_conditi on_part_b_eia_standards_0.pdf

Lee, Y., M. A. Kost, J. G. Cohen, and E. H. Schools. 2012. *Climate Change Vulnerability Assessment and Adaptation Strategies for Natural Communities in Michigan, Focusing on the Coastal Zone*. Michigan Natural Features Inventory, Report Number 2012-18, Lansing, MI. 185 pp. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-2012-18.pdf</u>

Monfils, M. J., M. A. Kost, C. R. Weber, M. L. Donovan, and P. W. Brown. 2011. *Characteristics of Coarse Woody Debris in Northern Michigan Forests*. Michigan Natural Features Inventory, Report Number 2011-13, Lansing, MI. 29 pp. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-2011-13.pdf</u>

Kost, M.A. and Y. Lee. 2011. *Climate Change Vulnerability Assessment of Natural Features in Michigan's Coastal Zone – Phase I: Potential Changes to Natural Communities*. Michigan Natural Features Inventory, Report Number 2011-17, Lansing, MI. 9pp. + appendices. https://mnfi.anr.msu.edu/reports/MNFI-Report-2011-17.pdf

Monfils, M. J., C. R. Weber, M. A. Kost, M. L. Donovan, and P. W. Brown. 2009. *Comparisons of Coarse Woody Debris in Northern Michigan Forests by Sampling Method and Stand Type*. Michigan Natural Features Inventory, Report Number 2009-12, Lansing, MI. 37 pp. https://mnfi.anr.msu.edu/reports/MNFI-Report-2009-12.pdf

Hyde, D. A., B. S. Slaughter, D. L. Cuthrell, H. D. Enander, Y. Lee, M. R. Penskar, B. J. Barton, M. A. Kost, M. A. Sanders, P. J. Badra, and M. J. Monfils, 2009. *Development of a Multi-State Mitchell's Satyr Habitat Conservation Plan: Michigan Portion - 2009 Annual Report*. Michigan Natural Features Inventory, Report Number 2009-18, Lansing, MI. 75 pp. + appendices. https://mnfi.anr.msu.edu/reports/MNFI-Report-2009-18.pdf

Lee, Y., E.H. Schools, B.S. Slaughter, M.R. Penskar, P.J. Badra, J.L. Gehring, A.L. Derosier, M. A. Kost, and P.W. Brown. 2009. *Statewide Analysis and Surveys to Develop an Approach for Identifying Priority Conservation Areas in Michigan: 2008 Progress Report*. Michigan Natural Features Inventory, Report Number 2009-02, Lansing, MI. 28 pp. + appendices. https://mnfi.anr.msu.edu/reports/MNFI-Report-2009-02.pdf

Lee, J.G., and M.A. Kost. 2008. *Systematic Evaluation of Oak Regeneration in Lower Michigan*. Michigan Natural Features Inventory, Report Number 2008-13, Lansing, MI. 127 pp. + appendices. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-2008-13.pdf</u>

Albert, D.A., P. Adamus, D. Campbell, J. Christy, J.G. Cohen, T. Cook, H. Enander, L. Hardison, M.A. Kost, K. Mitchell, J. Sackinger, and B.S. Slaughter. 2008. *Rapid Wetland Assessment for Michigan*. Michigan Natural Features Inventory, Report Number 2008-06. Lansing, MI. 46 pp. + appendices. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-2008-06.pdf</u>

Weber, C.R., M.A. Kost, M.L. Donovan, and P.W. Brown. 2007. *Coarse Woody Debris in Managed and Unmanaged Forests of Northern Michigan: 2006 Progress Report*. Michigan Natural Features Inventory, Report Number 2007-06, Lansing, MI. 12 pp. + appendices. https://mnfi.anr.msu.edu/reports/MNFI-Report-2007-06.pdf

Paskus, J.J., A.L. Derosier, E.H. Schools, H.D. Enander, B.S. Slaughter, M.A. Kost, and R.L. Rogers. 2007. *Biodiversity Assessment of Michigan Technical Report*. Michigan Natural Features Inventory, Report Number 2007-11. Michigan Natural Features Inventory, Lansing, MI. 232 pp. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-2007-11.pdf</u>

Kost, M.A., Y.M., Lee, J.G. Lee, and J.G. Cohen. 2006. *Habitat Characterization and Evaluation of Community Types Utilized by Copperbelly Water Snake (Nerodia erythrogaster neglecta) in Michigan and Northern Ohio*. Michigan Natural Features Inventory, Report Number 2006-02, Lansing, MI. 20 pp. + appendices. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-</u> 2006-02.pdf

Lee, J.G., M.A. Kost, and D.L. Cuthrell. 2006. *A Characterization of Hine's Emerald Dragonfly* (*Somatochlora hineana Williamson*) *Habitat in Michigan*. Michigan Natural Features Inventory, Report Number 2006-01, Lansing, MI. 16 pp. + appendices. https://mnfi.anr.msu.edu/reports/MNFI-Report-2006-01.pdf

Kost, M.A. 2003. An Evaluation of Candidate and Potential Candidate Research Natural Areas on the Huron-Manistee National Forest with a Focus on Ecosystem Representation. Michigan Natural Features Inventory, Report Number 2003-14, Lansing, MI. 138pp. https://mnfi.anr.msu.edu/reports/MNFI-Report-2003-14.pdf

Penskar, M.R., E.H. Schools, H.D. Enander, M.A. Kost, D.L. Cuthrell, and P.B. Pearman. 2003. *The Potential for Using Rare Species as Great Lakes Environmental Indicators: A Methodology Using Natural Heritage Program Data*. Michigan Natural Features Inventory, Report Number 2003-20, Lansing, MI. 42 pp. + appendices.

Rabe, M.L., M.A. Kost, H.D. Enander, and E.H. Schools. 2002. Use of a GIS-based Habitat Model to Identify Potential Release Sites for Mitchell's satyr (Neonympha m. mitchellii) in Michigan. Michigan Natural Features Inventory, Report Number 2002-07, Lansing, MI. 34 pp. https://mnfi.anr.msu.edu/reports/MNFI-Report-2002-07.pdf

Kost, M.A. 2001c. *Potential Indicators for Assessing Biological Integrity of Forested, Depressional Wetlands in Southern Michigan*. Michigan Natural Features Inventory, Report Number 2001-10, Lansing, MI. 24 pp. + appendices. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-2001-10.pdf</u>

Cuthrell, D.L. and M.A. Kost. 2001. Assessing the Use of Tamarack Tree Cricket (Oecanthus laricis T.J. Walker), a Rare Species, as an Indicator of Biological Integrity. Michigan Natural Features Inventory, Report Number 2001-09, Lansing, MI. 4 pp. https://mnfi.anr.msu.edu/reports/MNFI-Report-2001-09.pdf

Kost, M.A. 2000. Vegetation Characteristics of Mitchell's satyr (Neonympha m. mitchellii) Habitat. Michigan Natural Features Inventory, Report Number 2000-08, Lansing, MI. 25 pp. https://mnfi.anr.msu.edu/reports/MNFI-Report-2000-08.pdf

Ecological Inventory And Management Recommendations Reports:

Cohen J.G., M.J. Monfils, M.A. Kost, Y. Lee, P.J. Badra, M. Sanders, and H.D. Enander. 2014. *Natural Features Inventory and Management Recommendations for Barry State Game Area*. Michigan Natural Features Inventory, Report Number 2014-08, Lansing, MI. 185 pp. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-2014-08.pdf</u>

Kost, M.A., Y. Lee, P.J. Badra, M.J. Monfils, M.R. Penskar, and H.D. Enander. 2012. *Natural Features Inventory and Management Recommendations for Port Huron State Game Area*. Michigan Natural Features Inventory, Report Number 2012-05, Lansing, MI. 82 pp. https://mnfi.anr.msu.edu/reports/MNFI-Report-2012-05.pdf

Cohen, J.G., B.S. Slaughter and M.A. Kost. 2012. *Natural Community Surveys of Known Element Occurrences on State Park and Recreation Area Lands*. Michigan Natural Features Inventory, Report Number 2012-25, Lansing, MI. 2012-01. 116 pp. https://mnfi.anr.msu.edu/reports/MNFI-Report-2012-01.pdf

Kost, M.A., S.A. Thomas, M.J. Monfils, Y. Lee, D.L. Cuthrell, P.J. Badra, M.R. Penskar, and H.D. Enander. 2010. *Natural Features Inventory and Management Recommendations for the Waterloo Wildlife Unit in Waterloo Recreation Area*. Michigan Natural Features Inventory, Report Number 2010-25, Lansing, MI. 75 pp. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-2010-25.pdf</u>

Kost, M.A., S.A. Thomas, Y. Lee, D.L. Cuthrell, M.J. Monfils, P.J. Badra, M.R. Penskar, and H.D. Enander. 2009. *Natural Features Inventory and Management Recommendations for Crane Pond, Three Rivers, and Fabius State Game Areas*. Michigan Natural Features Inventory, Report Number 2009-19, Lansing, MI. 85 pp. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-2009-19.pdf</u>

Cohen, J.G., B.S. Slaughter, and M.A. Kost. 2008. *Natural Community Surveys of Potential Reference Areas on State Forest Lands. Michigan Natural Features Inventory*. Michigan Natural Features Inventory, Report Number 2008-04, Lansing MI. 272 pp. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-2008-04.pdf</u>

Kost, M.A., J.G. Cohen, A.L. Bozic, R.P. O'Connor, B.S. Walters, and H.D. Enander. 2006. *Natural Features Inventory and Management Recommendations for Independence Oaks, Lyon Oaks, and Rose Oaks Oakland County Parks*. Michigan Natural Features Inventory, Report Number 2006-04, Lansing, MI. 65 pp. + appendices. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-2006-04.pdf</u>

Kost, M.A., J.G. Cohen, B.S. Walters, H.D. Enander, D.A. Albert, and J.G. Lee. 2006. Natural *Features Inventory and Management Recommendations for Wolcott Mills and Metro Beach*

Metroparks. Michigan Natural Features Inventory, Report Number 2006-03, Lansing, MI. 41 pp. + appendices. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-2006-03.pdf</u>

Cuthrell, D.L. and Kost, M.A. 2005. *Current Distribution and Status of the Hine's Emerald Dragonfly (Somatochlora hineana) in Michigan: 2004 Progress Report*. Michigan Natural Features Inventory, Report Number 2005-02, Lansing, MI. 27 pp. + appendices.

Kost, M.A. and J.G. Cohen. 2005. *A Reassessment of High-Quality Natural Communities on Camp Grayling*. Michigan Natural Features Inventory, Report Number 2005-11, Lansing, MI. 41 pp. + appendices. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-2005-11.pdf</u>

Kost, M.A., J.G. Cohen, R.P. O'Connor and H.D. Enander. 2005. *Natural Features Inventory and Management Recommendations for Huron Meadows and Lake Erie Metroparks*. Michigan Natural Features Inventory, Report Number 2005-05, Lansing, MI. 40 pp. + appendices. https://mnfi.anr.msu.edu/reports/MNFI-Report-2005-05.pdf

Cohen, J.G., H.D. Enander and M.A. Kost. 2005. *Mapping Plant Alliances of the Pine Barrens Management Opportunity Area*. Michigan Natural Features Inventory, Report Number 2005-04, Lansing, MI. 9 pp. + appendices. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-2005-04.pdf</u>

Kost, M.A., R.P. O'Connor, and H.D. Enander. 2004. *Natural Features Inventory and Management Recommendations for Indian Springs, Lower Huron, and Willow Metroparks*. Michigan Natural Features Inventory, Report Number 2004-02, Lansing, MI. 41 pp. + appendices. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-2004-02.pdf</u>

Kost, M.A. and R.P. O'Connor. 2003. *Natural Features Inventory and Management Recommendations for Kensington and Oakwoods Metroparks*. Michigan Natural Features Inventory, Report Number 2003-10, Lansing, MI. 34 pp. + appendices. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-2003-10.pdf</u>

Kost, M.A. and A. Tepley. 2003. *Albert E. Sleeper State Park: Natural Features Inventory and Management Recommendations*. Michigan Natural Features Inventory, Lansing, MI. 8 pp.

Kost, M.A., A. Tepley, D.L. Cuthrell, P.G. Higman, and R.R. Goforth. 2003. *An Inventory of Porcupine Mountain State Park to Identify Significant Natural Features*. Michigan Natural Features Inventory, Report Number 2003-02, Lansing, MI. 17 pp. + appendices.

Kost, M.A. and E.G. Choberka. 2002. *Natural Features Inventory and Management Recommendations for Delhi, Dexter-Huron, Hudson Mills, and Stony Creek Metroparks*. Michigan Natural Features Inventory, Report Number 2002-01, Lansing, MI. 33 pp. + appendices. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-2002-01.pdf</u>

Penskar, M.R., Y. Lee, M.A. Kost, D.A. Hyde, J.J. Paskus, D.L. Cuthrell, and H.D. Enander. 2002. *Biological Inventory for Conservation of Great Lakes Islands: 2002 Inventory and Final Report*. Michigan Natural Features Inventory, Report Number 2002-27, Lansing, MI. 42 pp. + appendices. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-2002-27.pdf</u>

Penskar, M.R., J.O. Olson, M.A. Kost, J.J. Paskus, D.L. Cuthrell, L.R. Boehm, E.H. Schools, and M.T. Fashoway. 2002. *Biological Inventory for Conservation of Great Lakes Islands: Year 2001 Progress Report*. Michigan Natural Features Inventory, Report Number 2002-21, Lansing, MI. 38 pp. + appendices. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-2002-21.pdf</u>

Lee, Y., E.H. Schools, and M.A. Kost. 2002. Surveys for the Copperbelly Water Snake (*Nerodia erythrogaster neglecta*) *in Michigan: Year One Progress Report - 2001*. Michigan Natural Features Inventory, Report Number 2002-06, Lansing, MI. 45 pp. https://mnfi.anr.msu.edu/reports/MNFI-Report-2002-06.pdf

Lee, Y., P.G. Higman, Kost, M.A., A. Tepley, and R.R. Goforth. 2002. *An Inventory of Fort Custer State Recreation Area to Identify Significant Natural Features*. Michigan Natural Features Inventory, Lansing, MI. 27 pp. + appendices.

Kost, M.A., D.L. Cuthrell, H.D. Enander, R.R. Goforth, P.G. Higman, and Y. Lee. 2002. *An Inventory of Warren Dunes State Park to Identify Significant Natural Features*. Michigan Natural Features Inventory, Report Number 2002-16, Lansing, MI. 14 pp. + appendices.

Cuthrell, D.L., P.J. Higman, M.A. Kost, H.D. Enander, R.R. Goforth and Y. Lee. 2002. *An Inventory of Warren Woods State Park to Identify Significant Natural Features*. Michigan Natural Features Inventory, Report Number 2002-14. Lansing, MI. 36 pp.

Lee, Y., M.A. Kost, D.L. Cuthrell, H.D. Enander, R.R. Goforth, P.G. Higman. 2002. *An Inventory of Grand Mere State Park to Identify Significant Natural Features*. Michigan Natural Features Inventory, Report Number 2002-12, Lansing, MI. 18 pp. + appendices.

Higman, P.J., M.A. Kost, H.D. Enander, and E. Schools. 2001. *Pontiac Lake State Recreation Area Natural Features Inventory and Management Recommendations*. Michigan Natural Features Inventory, Lansing, MI. 5 pp.

Hyde, D.A. M.L. Rabe, D.L. Cuthrell, and M.A. Kost. 2001. *Surveys for the recovery of Mitchell's satyr butterfly (Neonympha m. mitchellii) in Michigan*. Michigan Natural Features Inventory, Report Number 2001-05, Lansing, MI. 98 pp. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-2001-05.pdf</u>

Penskar, M.R., D.A. Hyde, J.O. Olson, M.A. Kost, P.J. Higman, J.J. Paskus, R.L. Boehm, and M.T. Fashoway. 2001. *Biological Inventory for Conservation of Great Lakes Islands: Year 2000 Progress Report*. Michigan Natural Features Inventory, Report Number 2000-15, Lansing, MI. 105 pp. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-2000-15.pdf</u>

Kost M.A., P.J. Higman, D. Cuthrell, and J. Cooper. 2000. *North Camp Grayling Pine Barrens Management Plan*. Michigan Natural Features Inventory, Report Number 2000-02, Lansing, MI. 67 pp. <u>https://mnfi.anr.msu.edu/publications/reports?year=2000#</u>

Penskar, M.P., P.J. Higman, D.A. Hyde, D.L. Cuthrell, R.A. Corner, M.A. Kost and E.J. Judziewicz. 1999. *Biological Inventory for Conservation of Great Lakes Islands: 1998 Progress Report.* Michigan Natural Features Inventory, Report Number 1999-01, Lansing, MI. 38 pp. <u>https://mnfi.anr.msu.edu/reports/MNFI-Report-1999-01.pdf</u>

Natural Community Abstracts

Cohen, J.G., D.A. Albert, M.A. Kost, and B.S. Slaughter. 2010. *Natural community abstract for Coastal Fen*. Michigan Natural Features Inventory, Lansing, MI. 16 pp. <u>https://mnfi.anr.msu.edu/abstracts/ecology/Coastal Fen.pdf</u>

Slaughter, B.S., and M.A. Kost. 2010. *Natural community abstract for Wet-mesic Prairie*. Michigan Natural Features Inventory, Lansing, MI. 12 pp. <u>https://mnfi.anr.msu.edu/abstracts/ecology/Wet-mesic_Prairie.pdf</u>

Slaughter, B.S., J.G. Cohen, and M.A. Kost. 2010. *Natural community abstract for Wet Prairie*. Michigan Natural Features Inventory, Lansing, MI. 11 pp. https://mnfi.anr.msu.edu/abstracts/ecology/Wet Prairie.pdf

Slaughter, B.S., J.G. Cohen, and M.A. Kost. 2010. *Natural community abstract for Wet-mesic Flatwoods*. Michigan Natural Features Inventory, Lansing, MI. 13 pp. https://mnfi.anr.msu.edu/abstracts/ecology/Wet-mesic Flatwoods.pdf

Slaughter, B.S., M.A. Kost, and J.G. Cohen. 2010. *Natural community abstract for Inundated Shrub Swamp*. Michigan Natural Features Inventory, Lansing, MI. 13 pp. <u>https://mnfi.anr.msu.edu/abstracts/ecology/Inundated_Shrub_Swamp.pdf</u>

Kost, M.A., and B.S. Slaughter. 2009. *Natural community abstract for Mesic Sand Prairie*. Michigan Natural Features Inventory, Lansing, MI. 9 pp. <u>https://mnfi.anr.msu.edu/abstracts/ecology/Mesic_sand_prairie.pdf</u>

Kost, M.A., and B.S. Slaughter. 2008. *Natural community abstract for Wet-mesic Sand Prairie*. Michigan Natural Features Inventory, Lansing, MI. 8 pp. <u>https://mnfi.anr.msu.edu/abstracts/ecology/Wet-mesic_sand_prairie.pdf</u>

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Slaughter, B.S., J.G. Cohen, and M.A. Kost. 2007. *Natural community abstract for Hardwood-conifer Swamp*. Michigan Natural Features Inventory, Lansing, MI. 19 pp. <u>https://mnfi.anr.msu.edu/abstracts/ecology/Hardwood-conifer_swamp.pdf</u>

Cohen, J.G. and M.A. Kost. 2007. *Natural community abstract for Northern Shrub Thicket*. Michigan Natural Features Inventory, Lansing, MI. 9 pp. <u>https://mnfi.anr.msu.edu/abstracts/ecology/Northern_Shrub_Thicket.pdf</u>

Cohen, J.G., and M.A. Kost. 2007. *Natural community abstract for Northern Wet Meadow*. Michigan Natural Features Inventory, Lansing, MI. 8 pp. <u>https://mnfi.anr.msu.edu/abstracts/ecology/Northern_Wet_Meadow.pdf</u>

Weber, C.R., J.G. Cohen, and M.A. Kost. 2007. *Natural community abstract for Northern Hardwood Swamp*. Michigan Natural Feature Inventory, Lansing, MI. 8 pp. <u>https://mnfi.anr.msu.edu/abstracts/ecology/Northern_hardwood_swamp.pdf</u>

Courteau, J.B., J.G. Cohen, and M.A. Kost. 2006. *Abstract on the Oak Association of northern Michigan*. Michigan Natural Features, Inventory, Report Number 2006-21, Lansing, MI. 24 pp. <u>https://mnfi.anr.msu.edu/reports/2006-21%20OakAssociationAbstract.pdf</u>

Weber, C.R., J.G. Cohen, and M.A. Kost. 2006. *Abstract on the Aspen Association of northern Michigan*. Michigan Natural Features, Inventory, Report Number 2006-16, Lansing, MI. 14 pp. <u>https://mnfi.anr.msu.edu/reports/2006-16%20Aspen%20Abstract.pdf</u>

Kost, M.A. 2004a. *Natural community abstract for Dry Sand Prairie*. Michigan Natural Features Inventory, Lansing, MI. 9 pp. <u>https://mnfi.anr.msu.edu/abstracts/ecology/Dry_sand_prairie.pdf</u>

Kost, M.A. 2004b. *Natural community abstract for Mesic Prairie*. Michigan Natural Features Inventory, Lansing, MI. 10 pp. <u>https://mnfi.anr.msu.edu/abstracts/ecology/Mesic prairie.pdf</u>

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Kost, M.A. 2002. *Natural community abstract for Rich Conifer Swamp*. Michigan Natural Features Inventory, Lansing, MI. 9 pp. https://mnfi.anr.msu.edu/abstracts/ecology/Rich conifer swamp.pdf

Kost, M.A. 2001a. *Natural community abstract for rich tamarack swamp*. Michigan Natural Features Inventory, Lansing, MI. 7 pp. https://mnfi.anr.msu.edu/abstracts/ecology/Rich_tamarack_swamp.pdf Kost, M.A. 2001b. *Natural community abstract for Southern Wet Meadow*. Michigan Natural Features Inventory, Lansing, MI. 5 pp. https://mnfi.anr.msu.edu/abstracts/ecology/Southern_wet_meadow.pdf

Kost, M.A. and M.R. Penskar. 2000. *Natural community abstract for Coastal Plain Marsh*. Michigan Natural Features Inventory, Lansing, MI. 5 pp. https://mnfi.anr.msu.edu/abstracts/ecology/Coastal plain marsh.pdf

Spieles, J.B., P.J. Comer, D.A. Albert, and M.A. Kost. 1999. *Natural community abstract for Prairie Fen*. Michigan Natural Features Inventory, Lansing, MI. 5 pp. https://mnfi.anr.msu.edu/abstracts/ecology/Prairie_fen.pdf

Albert, D.A. and M.A. Kost. 1998. *Natural community abstract for Lakeplain Wet-mesic Prairie*. Michigan Natural Features Inventory, Lansing, MI. 6 pp. <u>https://mnfi.anr.msu.edu/abstracts/ecology/Lakeplain_wet-mesic_prairie.pdf</u>

Albert, D.A. and M.A. Kost. 1998b. *Natural community abstract for Lakeplain Wet Prairie*. Michigan Natural Features Inventory, Lansing, MI. 5 pp. <u>https://mnfi.anr.msu.edu/abstracts/ecology/Lakeplain_wet_prairie.pdf</u>

WEBSITES

Michigan Natural Community Classification [web application]. Cohen, J.G., M.A. Kost, B.S. Slaughter, D.A. Albert, J.M. Lincoln, A.P. Kortenhoven, C.M. Wilton, H.D. Enander, and K.M. Korroch. 2020. Michigan Natural Features Inventory, Michigan State University Extension, Lansing, Michigan. Available at: <u>https://mnfi.anr.msu.edu/communities</u>

Matthaei-Nichols GIS Hub [web application]. Avalos, M. and M.A. Kost. 2018. Matthaei Botanical Gardens & Nichols Arboretum, University of Michigan, Ann Arbor, Michigan. Available at: <u>https://mbgna-umich.hub.arcgis.com/</u>

EXTERNAL FUNDING

2020	Foufopoulos, J., M. Kost, S. Schueller, and C. Riseng. Supporting Experiential
	Field-based Learning in Online and Remote Courses. University of Michigan
	Center for Academic Innovation. \$11,000. P.I. J. Foufopoulos.
2019	Kost, M.A. Ecological Restoration at Matthaei Botanical Gardens & Nichols
	Arboretum. USFWS. \$13,000. PI: M. Kost.
2018	Sikkenga, K. and M.A. Kost. Museums Empowered Plant Records Training.
	Institute of Museums and Library Services. \$76,916. PI: M. Kost.
2017	Kost, M.A. and R.E. Grese. Middle Huron Sediment Reduction. MDEQ Water
	Resources Division Nonpoint Source Program. \$346,286. PI: M. Kost
2016	Kost, M.A. and K. Sikkenga. Dixboro Road Shared Use Trail. Submitted by Ann
	Arbor Township. MDNR Natural Resources Trust Fund. \$300,000. PI: M. Moran
2016	Grese, R.E. and M.A. Kost. Native Orchid Garden Establishment. Ann Arbor
	Farm & Garden. \$12,000. PI: B. Grese
2016	Kost. M.A. and K. Sikkenga. Expansion of Bonsai Garden and Studio. Stanley
	Smith Horticultural Trust. \$18,500. PI: K. Sikkenga

2015	Kost, M.A. and D.C. Michener. Developing a geospatial database and GIS apps to support collections management, teaching and research. Institute of Museums and
	Library Services. \$148,065. PI: D. Michener
2008-12	Kost, M.A. Southern Michigan DNR Lands Integrated Inventory Project. MDNR Wildlife Division. \$1,090,000. PI: M. Kost
2009-10	Kost, M.A. Sampling Design and Protocols for the Assessment of Wetland Condition Across Landscape Regions: A Multi-metric Approach. NatureServe via the US EPA. \$147,488. PI: M. Kost
2009	Kost, M.A. Rare Wetlands: Abstracts, Assistance, Field Key, and Workshops. MDEQ Water Resources Division, Wetlands, Lakes, and Streams Unit. \$202,800. PI: M. Kost
2006-09	Kost, M.A. Coarse Woody Debris in Michigan's Natural and Managed Aspen and Northern Hardwood Forests. MDNR Wildlife Division. \$126,094. PI: M. Kost.
2005-08	Kost, M.A. and J.G. Cohen. Systematic Evaluation of Oak Regeneration in Lower Michigan. MDNR Wildlife Division. \$367,817. PI: M. Kost
2008	Kost, M.A. and Y. Lee. Development of a Monitoring Framework for Michigan's Wildlife Action Plan. MDNR. \$10,000. PI: M. Kost
2006	Kost, M.A. Vegetation Classification and Mapping at Sleeping Bear Dunes National Lakeshore. NatureServe via the National Park Service. \$54,652. PI: M. Kost
2006	Kost, M.A. Vegetation Classification and Mapping at Pictured Rocks National Lakeshore. NatureServe via the National Park Service. \$55,004. PI: M. Kost
2005-07	Kost, M.A. Update Natural Community Classification. MDNR Wildlife Division. \$170,000. PI: M. Kost
2005-07	Kost, M.A. Update Structure of Community Classification and Build Key. MDNR Forest, Mineral, and Fire Management Division. \$75,000. PI: M. Kost
2003-07	Kost, M.A. State Wildlife Grants Element Occurrence Inventory. MDNR Wildlife Division. \$197,750. PI: M. Kost
2005	Kost, M.A. Technical Support for Great Lakes Region LANDFIRE Project. The Nature Conservancy. \$116,000. PI: M. Kost
2001-05	Kost, M.A. Natural Features Inventory and Evaluation of Huron-Clinton Metroparks. Huron-Clinton Metropolitan Authority. \$104,120. M. Kost
2003-04	Kost, M.A. Natural Features Inventory and Evaluation of Oakland County Parks. Oakland County Parks. \$38,047. PI: M. Kost
2003	Kost, M.A. Reassessment of Threats to High Quality Natural Communities on Camp Grayling. Michigan Dept. of Military and Veterans Affairs. \$50,000. PI: P. Higman
2003	Kost, M.A. Mapping of Plant Alliances on Pine Barrens Management Opportunity Area at Camp Grayling. Michigan Dept. of Military and Veterans Affairs. \$15,000. PI: P. Higman
2002	Albert, D.A. and Kost, M.A. Evaluation of Research Natural Areas for the Huron- Manistee National Forest. Funded by North Central Experimental Forest Station and Huron-Manistee National Forest. \$24,000. PI: M. Kost

INVITED CONFERENCE PRESENTATIONS

2018	Inspiring Conservation: The Great Lakes Gardens at Matthaei Botanical Gardens. National Academy of Science, Central Botanical Gardens of Belarus, Minsk,
	Belarus.
2016	The Rare Wetland Natural Communities of Michigan. Michigan Wetlands Association Annual Conference. Indian Springs Metropark, White Lake, MI.
2016	Navigating the Natural Communities of Michigan. Wildflower Association of Michigan Annual Conference, East Lansing, MI.
2016	The Role of Fire in Shaping Wetland Community Structure. Lake States Fire Science Consortium Burning Issues Conference, Fort Custer Training Center, Augusta, MI.
2010	The Historical Distribution and Ecology of Grasslands in Michigan. The Wildlife Society Annual Meeting, North Central Michigan College, Petoskey, MI.
2010	Acknowledging the Gifts of Native Ecosystems. Plenary Presentation, Stewardship Network Annual Conference, Kellogg Center, Michigan State University, East Lansing, MI.
2009	Plant Community Response to Prescribed Fire. Integrated Prescribed Fire Management Conference, Michigan Prescribed Fire Council, Roscommon, MI.
2008	From Landscapes to Microsites: Viewing Fire Effects at Multiple Scales. Burning Issues Conference: Prescribed Fire, Herps, and Habitat Restoration. Fort Custer Training Center, Augusta, MI.
2008	Fire and Biodiversity Conservation. Midwest Science and Stewardship Conference, The Nature Conservancy, Michigan State University, Kellogg Biological Station, Augusta, MI.
2008	Ecology of Savanna and Prairie Natural Communities. Plenary Presentation, Stewardship Network Annual Conference, Kellogg Center, Michigan State University, East Lansing, MI.
2006	Prioritizing Areas for Large-scale Restoration in Michigan. Michigan Stewardship Network Annual Conference, Kellogg Center, Michigan State University, East Lansing, MI.
2005	Fire as an Ecological Process for Maintaining Biodiversity. Michigan Prescribed Fire Council Annual Conference, Kalamazoo Nature Center, Kalamazoo, MI.
2005	Using Circa 1800s Vegetation for Natural Landscaping. Wildflower Association of Michigan Annual Conference, Kellogg Center, Michigan State University, East Lansing, MI.
2004	Michigan's Rare Wetland Communities. DEQ Wetlands Conference. Traverse City, MI.
2001	Prescribed Fire as an Ecological Process for Maintaining Plant Diversity in Graminoid-dominated Wetlands. Michigan Prescribed Fire Council Annual Conference, Lansing, MI.

INVITED LECTURES AND SEMINARS (Select)2022Factors Influencing Oak Regeneration Factors Influencing Oak Regeneration in Michigan. The Stewardship Network Webcast. Remote Presentation. Oak Regeneration in Michigan. Washtenaw County Conservation District 2022 Webinar. Remote Presentation.

2020	Ecological Overview of Savannas and Prairies. Michigan State University Master
	Naturalist Program. Remote Presentation.
2019	The Natural Communities of Michigan. Guest Lecture in Ecological Restoration
	Applications course, University of Michigan, Ann Arbor, MI.
2019	Environmental Factors Influencing Oak Regeneration. Professional Steward's
	Hike, The Stewardship Network, Ann Arbor, MI.
2019	Michigan Ecosystems. Michigan State University Conservation Stewards
	Program, Washtenaw County, Ann Arbor, MI.
2019	The Natural Communities of Michigan. Oakland County Master Gardener
	Society. Bloomfield Hills, MI.
2018	Factors Influencing the Distribution of Natural Communities in Michigan.
	Michigan Botanical Club, Red Cedar Chapter, Ann Arbor, MI.
2018	The Natural Communities of Michigan. Guest Lecture in Woody Plants course,
	University of Michigan, Ann Arbor, MI.
2018	A Survey of the Natural Communities of Michigan. Michigan State University
	Conservation Stewards Program, Washtenaw County, Ann Arbor, MI.
2018	Factors Influencing the Distribution of Natural Communities in Michigan.
	Michigan Botanical Club, Red Cedar Chapter, Matthaei Botanical Gardens, Ann
	Arbor, MI.
2018	The Natural Communities of Michigan. Guest Lecture in Woody Plants course,
	University of Michigan, Ann Arbor, MI.
2018	Michigan Ecosystems. Michigan State University Conservation Stewards
	Program, St. Clair County, Port Huron, MI.
2018	Michigan Ecosystems. Michigan State University Conservation Stewards
	Program, Oakland County, Commerce Township, MI.
2018	A Survey of the Natural Communities of Michigan. Michigan State University
	Conservation Stewards Program, Matthaei Botanical Gardens, Ann Arbor, MI.
2018	The Role of Fire in Michigan Ecosystems. Guest Lecture in Ecological
	Restoration Applications course, University of Michigan, Ann Arbor, MI.
2017	Surveying the Natural Communities of Michigan. Southeast Chapter of the
	Michigan Botanical Club Fall Program, Farmington Hills, MI.
2008	The Natural Communities of Michigan. Michigan Botanical Club Spring Foray,
	Spring Lake, MI.
2007	The Upland Natural Communities of Michigan. Guest Lecture, Michigan State
	University, East Lansing, MI.
2006	Summary of Survey Results for Natural Community and Rare Plant Inventories at
	Huron-Clinton Metroparks. Kensington Metropark, Huron-Clinton Metropolitan
	Authority, Brighton, MI.
2005	Nature's Legacy as Interpreted From Circa 1800s Vegetation. Grand-Raisin
	Cluster Meeting, The Stewardship Network, Napoleon, MI.
2002	Fire as an Ecological Process for Maintaining Wetland Biodiversity. Spring
	Seminar Series, Michigan State University, Kellogg Biological Station, Hickory
	Corners, MI.
2002	Protecting Biodiversity: Opportunities and Challenges at Huron-Clinton
	Metroparks. Huron-Clinton Metropolitan Authority Annual Meeting. Kensington
	Metropark, Brighton, MI.
2002	Corners, MI. Protecting Biodiversity: Opportunities and Challenges at Huron-Clinton Metroparks. Huron-Clinton Metropolitan Authority Annual Meeting. Kensingto

INVITED WORKSHOPS, SYMPOSIUMS, AND TRAININGS

2010	The Natural Communities of Michigan. Natural Resource Academy, DNR RAM
	Center, Houghton Lake, MI.
2009	Rare Wetlands of Northern Lower Michigan. Rare Wetlands Workshop, Michigan Department of Environmental Quality (MDEQ), Traverse City, MI.
2009	Prairie Fen Wetlands. Rare Wetlands Workshop, MDEQ, Stockbridge, MI and Brighton, MI.
2009	Rare Wetlands of Southern Lower Michigan. Rare Wetlands Workshop, MDEQ, Stockbridge, MI and Brighton, MI.
2007	Updating the Natural Community Classification for Michigan. Biodiversity Research Symposium, DNR, Lansing, MI.
2006	Natural Communities of Michigan: Southern Lower Peninsula. Biodiversity Workshop, MDNR, Lansing, MI.
2006	Natural Communities of Michigan: Northern Lower Peninsula. Biodiversity Workshop, MDNR, Roscommon, MI.
2006	Natural Communities of Michigan: Eastern Upper Peninsula. Biodiversity Workshop, MDNR, Newberry, MI.
2006	Natural Communities of Michigan: Western Upper Peninsula. Biodiversity
2 004	Workshop, MDNR, Marquette, MI.
2004	Regional Overview of Northern Michigan Wetland Communities. Wetlands Training Seminar for Michigan Department of Environmental Quality (DEQ), Cheboygan, MI.
2003	Natural Communities of Southeast Lower Michigan. Wetlands Training Seminar for DEQ, Chelsea, MI.
2003	Prairie Fens of Southeast Michigan. Wetlands Training Seminar for DEQ, Chelsea, MI.
2003	Natural Communities of Southwest Lower Michigan. Wetlands Training Seminar for DEQ, Kalamazoo, MI.
2003	Prairie Fens of Southwest Michigan. Wetlands Training Seminar for DEQ, Kalamazoo, MI.
1999	Prairie Fen Ecosystems. Ecosystems Training Seminar for DNR, Chelsea, MI.
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CONFERENCE PRESENTATIONS (unsolicited)

2020	Stories, Maps, and Pictures: Transforming Classic Communications Via Apps and
	New Tech. American Public Association Virtual Conference.
2020	Finding "The One": Evaluating & Implementing New Technologies. American
	Public Gardens Association Virtual Conference.
2017	Developing an Enterprise GIS to Support Collections Management, Teaching, and
	Research. Inaugural Digital Data in Biodiversity Research Conference, University
	of Michigan. Ann Arbor, MI.
2014	Contributing to Conservation: The Great Lakes Gardens at Matthaei Botanical
	Gardens. Michigan Consortium of Botanists Annual Conference, Ann Arbor, MI.
2005	Historical and Current Distribution of Fire-dependent Ecosystems in Michigan.
	Midwest Fish and Wildlife Conference, Grand Rapids, MI.

2002 Development of Plant-based Indicators for Forested, Depressional Wetlands in Michigan. Regional Workshop on Bioassessment of Wetlands, EPA Region 5, Michigan State University, Kellogg Biological Station, MI.
2001 Potential Indicators for Assessing Biological Integrity of Forested Wetlands in Southern Michigan. Midwest Region Natural Heritage Conference, NatureServe, St. Louis, MO.
2001 Plant-based Bioassessment of Inland, Forested Depressional Wetlands. Regional Workshop on Bioassessment of Wetlands, EPA Region 5, Michigan State University, Kellogg Biological Station, Hickory Corners, MI.

TEACHING AND INSTRUCTIONAL SUPPORT

Primary Instructor

2020-21	Herbaceous Flora & Ecosystems (EAS 501.003/.004/.005)
2003	Environmental Science, Lansing Community College
2002	Natural Resource Conservation, Lansing Community College
1997-98	Field Ecology: Spring, The Morton Arboretum, College of DuPage
1997-98	Field Ecology: Winter, The Morton Arboretum, College of DuPage
1997	Techniques of Surveying and Monitoring Vegetation, The Morton Arboretum,
	College of DuPage
1996-97	Field Ecology: Fall, The Morton Arboretum, College of DuPage

Graduate Teaching Assistant

Identification of Flowering Plants
Plant Systematics and Evolution
The Plant Kingdom
Plant Ecology

- 1994 Plants in Today's World
- 1993-94 Environmental Dynamics

CURATORIAL ACCOMPLISHMENTS

Awarded cost share funding (\$13,000) through USFWS for ecological restoration 2021 of a fen at Matthaei Botanical Gardens and an oak savanna at Nichols Arboretum. Developed model to prioritize conservation management on the four properties 2020 managed by Matthaei Botanical Gardens and Nichols Arboretum. https://mbgnaumich.hub.arcgis.com/apps/conservation-management-priorities/explore 2019 Established a Memorandum of Understanding (MOU) with the Smithsonian's North American Orchid Conservation Center to outline our participation in this collaborative orchid conservation project as part of our Jean Avis Wilson Native Orchid Garden in the Great Lakes Gardens. 2018 Obtained funding (\$76,916) through IMLS to train our staff and volunteers in using the new collections-focused apps, story maps, and data-collection tools. Oversaw the development of a new, publicly accessible, living collections 2017-2020 database (https://tinyurl.com/v58qeek), Open Data GIS Hub (https://mbgnaumich.hub.arcgis.com/), and over 30 collection-focused web mapping applications, 7 story maps, and numerous data-collections tools.

- 2016-2019 Obtained funding (\$146,065) through IMLS to design and implement a new collections database using ArcGIS to incorporate data on the flora, fauna, and natural communities at our four properties. Managed project.
- 2016-2019 Coordinated the development a shared information management system to support teaching and research on field proprieties managed by EEB (Biological Station, E.S. George Reserve), SEAS, and Matthaei-Nichols.
- 2016- Development of collections management plans for the Great Lakes Gardens and natural areas.
- 2017 Production of plant labels Great Lakes Gardens.
- 2017 Obtained identification of hybrid ferns for the Herb Wagner Fern Garden by Drs. Anton Reznicek and Jim Montgomery.
- 2016-17 Redesign and installation of Jean Avis Wilson Native Orchid Garden. Helped raised funds (\$12,000) for the project.
- 2015 Development of five-year management plan for Great Lakes Gardens.
- 2015 Inventory and cataloging of native plant seed collection.

SERVICE

2020-	Faculty Affiliate, Program in the Environment (PitE)
2018-	The Stewardship Network, Huron-Arbor Collaborative Conservation Community
	Planning Committee
2017-2019	Michigan Exhibit Committee, University of Michigan, Museum of Natural
	History
2017-2019	Faculty Science Advisory Committee, University of Michigan, Museum of
	Natural History
2015-	Collections Committee, University of Michigan
1999-2012	Mitchell's Satyr Working Group, US Fish and Wildlife Service
2003-08	Board of Directors, Ebersole Foundation. Secretary, 2003-05
2001-08	Advisory Board, Ebersole Environmental Education Center (Lansing Public
	School District)
2002-05	Ecosystem Management Working Group, MDNR Wildlife Division