

CURRICULUM VITA

Dennis A. Albert

Addresses: Michigan Natural Features Inventory 15405 Osius Road
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Research and Professional Interests:

(1) The development of regional landscape ecosystem classifications based on abiotic factors to aid in the inventory, study, and management of natural biota; (2) the use of landscape approaches to further understand natural processes and disturbance regimes, as well as human land-management and resource utilization; and (3) regionally-based wetland and inland lake research.

Education:

Ph.D. Forest Ecology, University of Michigan, School of Natural Resources, 1990.
M.S. Forest Ecology, University of Michigan, School of Natural Resources, 1983.
B.S. Botany, University of Michigan, Dept. of Evolutionary Ecology and Biology, 1981.

Professional Experience:

2002- *Senior Ecologist*, Michigan Natural Features Inventory (MNFI) of The Nature
1987 Conservancy. Duties include: serve as consultant for government agencies and conservation groups concerning management and inventory; conduct and supervise inventories of plant communities; evaluate management techniques on high ranking natural communities; develop and implement landscape-level ecosystem classification approaches and maps to assist state conservation planning; supervise development of state-wide presettlement vegetation map; refine state's plant community classification; write grant proposals and contracts; and supervise staff.

1998 *Lecturer*, School of Natural Resources, University of Michigan, Ann Arbor. Faculty appointment as lecturer and field instructor for Forest Ecology (NR 435).

1987- *Assoc. Program Ecologist*, Michigan Natural Features Inventory. Duties
1986 included conducting inventories of plant communities and training in field methodologies.

1986- *Graduate Research Assistant*, School of Natural Resources, University of
1983 Michigan. Field research for dissertation defining the natural ecoregions of Michigan, based on soils, geology, landform, and vegetation data. Supervisor: Dr. Burton Barnes.

1984 *Lecturer*, School of Natural Resources, University of Michigan, Ann Arbor. Faculty appointment as lecturer and field instructor for Forest Ecology (NR 435).

1984- *Contract Field Worker*, MNFI. Natural Area evaluation of upland and lowland
1982 conifer, northern hardwood, and oak forests in Michigan.

1983- *Teaching Assistant*, School of Natural Resources, University of Michigan.
1982 Assisted with instruction of Forest Ecology (NR 435). Professor: Dr. Burton Barnes.

1983- *Graduate Research Assistant*, School of Natural Resources, University of
1981 Michigan. Develop ecosystem classification of the Sylvania Recreation Area, Ottawa
National Forest, MI. Supervisor: Dr. Burton V. Barnes.

Publications:

- 2004 Jude, D., Albert, D. A., Brazner, J., and D. G. Uzarski. *Lake Michigan's Coastal Wetlands: Distribution and Fish Utilization*. IN: The State of Lake Michigan, edited by: M. Munawar and T. Edsall, Ecovision World Monograph Series, S. P. B. Academic Publishing, The Netherlands. (in review).
- 2003 Albert, D. A., and L. D. Minc. *Plants as indicators for Great Lakes coastal wetland health*. *Aquat. Ecosys. Health Manag.* (accepted Sept. 2003).
- 2003 Wei, A., P. Chow-Fraser, and D. Albert. Influence of shoreline features on fish distribution in the Laurentian Great Lakes. *Can. J. Fish. Aquat. Sci.* (accepted Aug. 2003).
- 2003 Lee, Y. M., P. J. Higman, and D. A. Albert. *Ecological Jewels of the Straits*, MSU Extension Bulletin E-2885.
- 2001 Albert, D. A., and L. D. Minc. *Abiotic and floristic characterization of Laurentian Great Lakes' coastal wetlands*. Stuttgart, Germany. *Verh. Internat. Verein. Limnol.* (27): 3413-3419.
- 2001 Albert, D. A. *Protecting Wetlands along the Great Lakes Shoreline*. Michigan State University Extension, Michigan Natureal Features Inventory. 10 pp. Brochure.
- 2000 Albert, D. A. *Borne of the Wind: an introduction to Michigan's sand dunes*. Michigan Natural Features Inventory. Lansing, MI. 64 pp.
- 1999 Comer, P. J., D. A. Albert, and M. B. Austin. 1999. *Vegetation of Michigan Circa 1800: An Interpretation of the General Land Office Surveys*. Pages 78-79, in *ESRI Map Book: Implementing Concepts of Geography*. Environmental Systems Research Institute. 121 pp.
- 1998 Comer, P. J., and D. A. Albert. 1998. *Vegetation of Michigan Circa 1800: An Interpretation of the General Land Office Surveys*. Michigan Natural Features Inventory. 2 maps (1:500,000).
- 1998 Chow-Fraser, P., and D. A. Albert. *Biodiversity Investment Areas: Coastal Wetland Ecosystems*. State of the Lake Ecosystem Conference 1998. United States Environmental Protection Agency and Environment Canada. 101 pp.
- 1995 Albert, D.A. *Regional Landscape Ecosystems of Michigan, Minnesota, and Wisconsin*. General Technical Report NC-178. USDA Forest Service, Northcentral Forest Experiment Station. 250 pp. and map.
- 1994 Albert, D. A. *Ecosystem Management: Saginaw Bay*. Congressional Research Service of the Library of Congress, Symposium on the Federal Role in Ecosystem Management, Washington, D. C. pp. 147-151.
- 1994 Albert, D.A. An Abiotic and Historic Overview of Michigan. In *Endangered and Threatened Wildlife of Michigan*, edited by D. Evers, pp. 5-28. University of Michigan Press, Ann Arbor, MI.

- 1993 Albert, D.A. Use of Landscape Ecosystems for Species Inventory and Conservation. *Endangered Species Update* 10(3-4):20-25.

Publications (cont):

- 1990 Albert, D.A. *A Regional Landscape Ecosystem Classification of Michigan Stressing Physiographic, Geologic, and Soil Factors*. Ph.D. dissertation, University of Michigan, UMI, Ann Arbor, MI. 384 pp.
- 1989 Albert, D.A., and G. Reese. Michigan's Wetland Heritage is Diverse. *Natural Resources Register* 9(2):4-5.
- 1987 Albert, D.A., and L.D. Minc. *The Natural Ecology and Cultural History of the Colonial Point Red Oak Stands*. University of Michigan Biological Station *Technical Report* No. 14. 62 pp.
- 1987 Albert, D.A., and B.V. Barnes. Effects of Clearcutting on a Sugar Maple-Dominated Ecosystem, Western Upper Michigan. *Forest Ecology and Management* 18:283-298.
- 1986 Albert, D.A., S.R. Denton, and B.V. Barnes. *Regional Landscape Ecosystems of Michigan*. School of Natural Resources, University of Michigan. 32 pp + map.

Unpublished Major Papers, Reports, and Maps:

- 1999 Albert, D. A., and Corner, R. A. *Landtype Associations of The Presque Isle Subsection: Subsection VII.6*. Prepared for the Northern Lower Michigan Ecosystem Management Project. Michigan Natural Features Inventory. Lansing, MI. 137 pp. + maps.
- 1999 Corner, R. A., and D. A. Albert. *Landtype Associations of The Arenac Subsection: Subsection VII.1*. Prepared for the Northern Lower Michigan Ecosystem Management Project. Michigan Natural Features Inventory. Lansing, MI. 69 pp. + maps.
- 1999 Corner, R. A., and D. A. Albert. *Landtype Associations of The High Plains: Subsection VII.2*. Prepared for the Northern Lower Michigan Ecosystem Management Project. Michigan Natural Features Inventory. Lansing, MI. 177 pp. + maps
- 1999 Corner, R. A., and D. A. Albert. *Landtype Associations of The Leelanau and Grand Traverse Peninsula: Subsection VII.5*. Prepared for the Northern Lower Michigan Ecosystem Management Project. Michigan Natural Features Inventory. Lansing, MI. 47 pp. + maps.
- 1999 Corner, R. A., and D. A. Albert. *Landtype Associations of The Manistee Subsection: Subsection VII.4*. Prepared for the Northern Lower Michigan Ecosystem Management Project. Michigan Natural Features Inventory. Lansing, MI. 84 pp. + maps.
- 1999 Corner, R. A., and D. A. Albert. *Landtype Associations of The Newaygo Outwash Plain: Subsection VII.3*. Prepared for the Northern Lower Michigan Ecosystem Management Project. Michigan Natural Features Inventory. Lansing, MI. 76 pp. + maps.

- 1998 Minc, L.D., and Albert, D.A. *Great Lakes Coastal Wetlands: Abiotic and Floristic Characterization*. MNFI report to U. S. Environmental Protection Agency. 36 pp.

Major Unpublished Papers, Reports, and Maps (cont.):

- 1998 Lee, Yu Man, Lyn J. Scrimger, Dennis A. Albert, Michael R. Penskar, Patrick J. Comer, and David L. Cuthrell. *Alvars of Michigan*. Report for The International Alvar Conservation Initiative. 30 pp.
- 1997 Albert, D., P. Comer, D. Cuthrell, D. Hyde, W. MacKinnon, M. Penskar, and M. Rabe. *The Great Lakes Bedrock Shorelines of Michigan*. MNFI report to Michigan DNR, Land and Water Management Division, Coastal Zone Management Program. 218 pp.
- 1997 Albert, D., P. Comer, D. Cuthrell, D. Hyde, W. MacKinnon, M. Penskar, and M. Rabe. *The Great Lakes Bedrock Shores of Michigan*. MNFI report to Michigan DNR, Land and Water Management Division, Coastal Zone Management Program. 58 pp.
- 1996 Albert, D.A., D.L. Cuthrell, D.A. Hyde, J.T. Legge, M.R. Penskar, and M.L. Rabe. *Sampling and Management of Lakeplain Prairies in Southern Lower Michigan*. MNFI report to U.S. Environmental Protection Agency. 93 pp.
- 1996 MacKinnon, W., and D.A. Albert. *Mitchell's Satyr Historical Habitat Analysis*. MNFI report to the U.S. Fish and Wildlife Service, Region 3 Endangered Species Office. 17 pp.
- 1995 Albert, D.A., P.J. Comer, D. Cuthrell, M. Penskar, and M. Rabe. *Bedrock Shoreline Surveys of Dolomite along Lake Michigan, in Michigan's Upper Peninsula*. MNFI report to Michigan DNR, Land and Water Management Division, Coastal Zone Management Program. 97 pp.
- 1995 Albert, D.A., M.R. Penskar, and P.J. Comer. *Results of the 1993-1994 Inventories of the Northern Lake Huron and McMahon Lake Bioreserves*. MNFI report to The Nature Conservancy, Michigan Field Office. 44 pp.
- 1995 Comer, P.J., D.A. Albert, H.A. Wells, B.L. Hart, J.B. Raab, D.L. Price, D.M. Kashian, R.A. Corner, and D.W. Schuen. *Michigan's Native Landscape, as Interpreted from the General Land Office Surveys 1816-1856*. Michigan Natural Features Inventory, Lansing, MI. 78 pp. + digital maps.
- 1995 Comer, P. J., W. A. MacKinnon, M. L. Rabe, D. L. Cuthrell, M. R. Penskar and D. A. Albert. *A Survey of Lakeplain Prairie in Michigan*. Report to Michigan Department of Natural Resources, Land and Water Management Division, Coastal Zone Management Program. 234 pp.
- 1994 Albert, D.A., P.J. Comer, D. Cuthrell, M. Penskar, M. Rabe, and C. Reschke. *Bedrock Shoreline Surveys of the Keweenaw Peninsula and Drummond Island in Michigan's Upper Peninsula*. MNFI report to Michigan DNR, Land and Water Management Division, Coastal Zone Management Program. 94 pp.
- 1994 Albert, D.A., M. Penskar, P.J. Comer. *Results of Survey of the Northern Lake Huron Bioreserve*. Report to The Nature Conservancy, Michigan Field Office. 78 pp.

- 1993 Comer, P.J., D.A. Albert, L.J. Scrimger, T. Leibfreid, D. Schuen, and H. Jones. *Historical Wetlands of Michigan's Coastal Zone and Southeastern Lakeplain*. MNFI report to Michigan DNR, Land and Water Management Division. 110 pp.
- 1993 Comer, P.J., D.A. Albert, T. Leibfreid, H. Wells, B.L. Hart, and M.B. Austin. *Historical Wetlands of the Saginaw Bay Watershed*. MNFI report to Saginaw Bay Watershed Initiative, Mich. DNR, Office of Policy and Program Development. 68 pp.

Major Unpublished Papers, Reports, and Maps (cont.):

- 1993 Comer, P.J. and D.A. Albert. *A Survey of Wooded Dune and Swale Complexes in Michigan*. MNFI report to Michigan Department of Natural Resources, Land and Water Management Division, Coastal Zone Management Program. 159 pp.
- 1992 Albert, D.A. *A Survey of Lakes, Streams, and Wetlands of the Sleeping Bear Dunes National Lakeshore*. 121 pp.
- 1992 Albert, D.A. and P.J. Comer. *A Natural Areas Inventory of Kent County, Michigan*. MNFI report to the Kent County planner. 138 pp.
- 1991 Albert, D.A., J.L. Cassin, M.R. Penskar, and L.A. Wilsmann. *Final Report on the Natural Areas Inventory of the Manistee National Forest (Lake, Manistee, Mason, Mecosta, Montcalm, Muskegon, Newaygo, Oceana, and Wexford Counties)*, March 1987 through October 1990. 48 pp
- 1991 Comer, P.J. and D.A. Albert. *A Survey of Wooded Dune and Swale Complexes in the Northern Lower and Eastern Upper Peninsulas of Michigan*. MNFI report to the Michigan DNR, Coastal Zone Management Program. 99 pp.
- 1990 Albert, D.A. *Evaluation of Pointe Aux Chenes, Mackinac County, Michigan as a Potential National Natural Landmark*. Report to the U.S. Department of the Interior, National Park Service, Division of Natural Landmarks. 71 pp.
- 1990 Albert, D.A. *Evaluation of the Shakey Lakes Barrens, Menominee County, Michigan as a Potential National Natural Landmark*. Report to the U.S. Department of the Interior, National Park Service, Division of Natural Landmarks. 59 pp.
- 1990 Minc, L.D., and D.A. Albert. *Oak-Dominated Communities of Southern Lower Michigan: Floristic and Abiotic Comparisons*. Contract report to Michigan Natural Features Inventory. 103 pp.
- 1990 Reese, G., L.A. Wilsmann, D.A. Albert, J.A. Bess, and M.R. Penskar. *A Natural Areas Inventory of Grand Traverse County, Michigan*. 197 pp.
- 1989 Albert, D.A., G. Reese, M.R. Penskar, L.A. Wilsmann, S.J. Ouwinga. *A Survey of Great Lakes Marshes in the Northern Half of Michigan's Lower Peninsula and Throughout Michigan's Upper Peninsula*. MNFI report for Land and Water Management Division of Michigan DNR, Coastal Zone Management Program. 124 pp.
- 1989 *Nongame Overview of Michigan* (draft). Prepared for Michigan DNR Nongame Program.
- 1988 Albert, D.A., G. Reese, S.R. Cripsin, M.R. Penskar, L.A. Wilsmann, S.J. Ouwinga. *A Survey of Great Lakes Marshes in the Southern Half of Michigan's Lower Peninsula*.

MNFI report for Land and Water Management Division of Michigan DNR, Coastal Zone Management Program. 116 pp.

- 1987 Albert, D.A., G. Reese, S. Crispin, L.A. Wilsmann, S.J. Ouwinga. *A Survey of Great Lakes Marshes in Michigan's Upper Peninsula*. MNFI report for Land and Water Management Division of Michigan DNR, Coastal Zone Management Program. 73 pp.

Major Unpublished Papers, Reports, and Maps (cont.):

- 1986 Reese, G., Albert, D.A., S.R. Crispin, L.A. Wilsmann, and S.J. Ouwinga. *A Natural Areas Inventory of Moran Township, Mackinac County, Michigan*. MNFI report to Moran Township Planning Commission. 75 pp.
- 1986 Reese, G., Albert, D.A., S.R. Crispin, L.A. Wilsmann, and S.J. Ouwinga. *Final Report on a Natural Areas Inventory of Michigan's Designated Sand Dune Areas*. Report to the Michigan DNR, Land Resource Programs Division. 67 pp.
- 1985 Albert, D.A., and M.R. Penskar. *Ecosystems and Rare Plant Elements of Sharon Hollow Forest*. A small grant's report for The Nature Conservancy. 57 pp.
- 1983 Albert, D.A. *Effects of Clearcutting on a Sugar Maple-Dominated Ecosystem of the Sylvania Recreation Area, Upper Michigan*. M.S. thesis, University of Michigan, Ann Arbor. 88 pp.

Other Reports Written as Ecologist for MNFI:

- 1990 Delirium Wilderness Area Overview.
- 1988 Research Natural Area Reports (9 areas), Hiawatha National Forest.
- 1987 Research Natural Area Reports (5 areas), Huron-Manistee National Forest.

Work in Progress:

Aquatic Macrophyte Sampling in Inland Lakes of Upper Peninsula of Michigan (2002-2003). WCRP (MI DNR).

Booklet on Great Lakes Coastal Wetlands (2002-2003). Coastal Zone Management Program.

Indices of Biological Integrity (IBIs) for Lake Huron's Great Lakes Coastal Wetlands (2003) Funded by U.S.E.P.A.

Indices of Biological Integrity (IBIs) for Great Lakes Coastal Wetlands (1997-2002). Funded by U.S.G.S.

Professional Presentations:

- 2003 *Classification of Great Lakes Coastal Wetlands*. Great Lakes Consortium, Great Lakes Commission. May 14, 2003.
- 2003 *Sand dunes of South Fox Island*. Hoffmaster State Park. March 18, 2003.
- 2001 *Physical Habitat of the Lake Huron Watershed*. Lake Huron Symposium, Sault Ste. Marie, Ontario. March 20-21, 2001.
- 2001 *Development of Great Lakes Macrophyte IBIs*. Michigan IBI Conference, Kellogg Biological Station. February 13-14, 2001.
- 2000 *Great Lakes Water level fluctuations*, Ottawa, Canada, Annual Wetlands Conference.
- 2000 *Great Lakes Wetland Classification*, Ottawa, Canada, Annual Wetlands Conference.
- 1999 Keynote Address: *Ecoregional Classification: A tool for understanding species distributions*. Annual meeting of the Michigan Entomological Society. MacMullan Conference Center, Grayling, MI. June 4, 1999.
- 1998 Plenary presentation: *Ecoregions of the Great Lakes*. 25th Annual Natural Areas Conference. Mackinac Island, MI. October 6-10, 1998.
- 1998 *Native American land use and forest histories at Colonial Point* (field trip). 25th Annual Natural Areas Conference. Mackinac Island, MI. October 6-10, 1998.
- 1998 *Biodiversity Investment Areas* (with P. Chow-Fraser). 1998 State of the Lakes Ecosystem Conference (SOLEC), Buffalo, New York. October 21-23, 1998.
- 1998 *Abiotic and Floristic Characterization of Laurentian Great Lakes Coastal Wetlands*. 27th Congress of the International Association of Theoretical and Applied Limnology. Dublin, Ireland. August 8-14, 1998.
- 1998 *Regionalization: a GIS Workshop* (with Rich Corner, Laurie Prange-Gregory, and Mike Donovan). 13th Annual Conference of the International Association for Landscape Ecology. March 17-21, 1998.
- 1998 *Regionalization in Southeastern Michigan: Field Trip*. 13th Annual Conference of the International Association for Landscape Ecology. March 17-21, 1998.

Professional Presentations (cont.):

- 1998 *Mapping the Vegetation of Michigan Circa 1800*. 13th Annual Conference of the International Association for Landscape Ecology. March 17-21, 1998.
- 1998 *The Scientific Basis of Ecosystem Management*. Panel Discussion. Ecosystem Management Workshop, School of Natural Resources and Management, University of Michigan. March 27-29.
- 1997 *Region-wide Sampling of Great Lakes Coastal wetlands*. Poster session, Ecological Society of America Annual Meeting, jointly with The Nature Conservancy. Albuquerque, NM. August 11, 1997.
- 1996 *The Relationship of Human Land Use to Glacial Landscapes of the Upper Midwest*. 126th Annual Meeting of the American Fisheries Society, Symposium on Applying the Landscape Perspective to the Study of Fishes in Midwestern Rivers, Dearborn, MI. August 26-29, 1996.
- 1994 *Management at Multiple Scales for Biodiversity in the Lake Superior Basin*. Symposium on Ecosystem Management Strategies for the Lake Superior Region, Duluth, MN. May 16, 1994.
- 1994 *Ecosystem Management in Action: Saginaw Bay*. Congressional Research Service of the Library of Congress, Symposium on the Federal Role in Ecosystem Management, Washington, D.C. March 24-25, 1994.
- 1993 *The Ecosystems of the Saginaw Basin*. Saginaw Bay National Watershed Initiative DNR Workshop, Northwood University, Midland, MI. October 26, 1993.
- 1993 *Original Forest Vegetation of Michigan and Regional Landscape Ecosystem Classification of MI, MN, and WI*. U.S. Environmental Protection Agency, Midwestern Wetlands meeting, Madison, Wisconsin. October 7, 1993.
- 1993 Presentation on Regional Landscape Ecosystem Classification. U.S. Environmental Protection Agency, Chicago. October 6, 1993.
- 1993 *Scientific Overview of the Northern Lake Huron Bioreserve*. National Office of The Nature Conservancy, Arlington, VA. June 18, 1993.
- 1993 *Enhancing Habitat for the Karner Blue Butterfly: Restoration of the Oak-Pine Barrens Community in Southwestern Michigan* (with Mary Rabe and Patrick Comer). Midwest Oak Savanna Conference, Northeastern Illinois University, Chicago. February 20, 1993.
- 1992 *Ecological Classification of MI, MN, and WI*. U.S. Forest Service, Round table discussions. October 15, 1992.
- 1992 *Great Lakes Past and Present*. Michigan Botanical Club, Boyne Mountain, MI. May 22-23, 1992.
- 1992 *Wetland Diversity: Swamp Forest to Wet Prairie*. Audubon Society. Hope College, Grand Rapids, MI. April 11, 1992.

Professional Presentations (cont.):

- 1991 *Openings Resulting from Natural Disturbances*. Joint Conference of Michigan Society of American Foresters and Wildlife Society, Harbor Springs, MI. October 11, 1991.
- 1991 *Basis of Ecological Regions in Michigan and their Management Applications*. International Association for Landscape Ecology World Congress, Ottawa, Canada. July 25, 1991.
- 1991 *Wetland Creation and Restoration: More Than a Cattail Marsh*. Society of Wetland Scientists, 12th Annual Meeting, University of Michigan, Ann Arbor, MI. May 29, 1991.
- 1991 *Michigan Wetlands: An Overview*. Michigan Wildflower Conference, Detroit, MI. March 18, 1991.
- 1990 *Learning to See at the Landscape Level for Ecosystem Protection and Management: A Report from Midwest Heritage Programs*. Western/Midwestern Heritage Conference, Pingree, CO. October 10, 1990.
- 1990 Nature Conservancy workshop on Coastal Plain Marshes (guided field trip). Allegan State Game Area and southwestern Michigan. September 10, 1990.
- 1990 *MNFI: A Statewide Database of Natural Communities and Threatened and Endangered Biota*. Clear Lake Landscape Ecology Conference, Hiawatha National Forest, MI. August 21-23, 1990.
- 1990 *Old-growth Forests in Michigan* (panel discussion). Clear Lake Landscape Ecology Conference. Clear Lake, Hiawatha National Forest, MI. August 21-23, 1990.
- 1990 *Overview of Great Lakes Marshes and Overview of Oak Ecosystems in Southern Lower Michigan*. Nature Conservancy Scorecard Meeting, Lansing, MI. March 15-16, 1990.
- 1990 *Landscape Ecosystem Classification*. Great Lakes Biodiversity Committee's working group on classification, Madison, WI. March 10, 1990.
- 1990 *State Game Area Surveys for Natural Communities and Threatened and Endangered Biota*. Wildlife Division Training School (Michigan DNR), Tustin, MI. February 2, 1990.
- 1990 *Great Lakes Marshes of Michigan*. Botany Lunch, University of Michigan, Ann Arbor, MI. January 18, 1990.
- 1989 *Great Lakes Marsh Sampling*. Great Lakes Management and Restoration Conference, U.S. Park Service, Indiana Dunes, IN. May, 1989.
- 1989 *Shakey Lakes Barrens*. Michigan Prairie Foundation, Albion College, Albion, MI. March 25, 1989.
- 1989 *Great Lakes Coastal Marshes and Wetland Communities*. Michigan Wildflower Conference, Michigan State University, East Lansing, MI. March 21, 1989.

1989 *Great Lakes Marsh Survey*. Wildlife Division Training School (Michigan DNR), Roscommon, MI. January 22, 1989.

Professional Presentations (cont.):

1988 *An Overview of Michigan and Ecologists' workshop on landscape ecology*. Nature Conservancy Regional Heritage Meeting, Kellogg Biological Station Gull Lake, MI. November 15, 1988.

1988 Overview of lakeplain prairies and oak openings (field trip). Nature Conservancy Stewardship Workshop, Saginaw Bay, MI. July 18-19, 1988.

1988 *Wetland Classification* (lecture and guided field trip). Land and Water Management Division Training School (Michigan DNR), Kellogg Biological Station, Gull Lake, MI. May 17, 1988.

1988 *Plant Community Classification and Survey*. Wildlife Division Training School (Michigan DNR), Tustin, MI. January 27, 1988.

1987 *Regional Multifactor Land Classification*. U.S. Forest Service Conference on Regional Ecosystem Classification, Traverse City, MI. May 11-14, 1987.

1986 *Ecosystem Classification of the Sylvania Recreation Area and Adjacent Areas* (lecture and guided field trip). Ecological Society of America's Field Conference on Wisconsin/Michigan Forests along the Modern Limit of Beech. Eagle River, WI. June 14-16, 1985.

1985 *Multifactor Land Classification at the Regional and District Level*. Michigan Society of American Foresters/Wildlife Society Annual meeting, Iron Mountain, MI. Oct. 23-25, 1985.

1985 *Forest Ecosystem Classification on Old Growth and Disturbed Forests in Gogebic and Iron Counties, MI*. Michigan Academy of Science, M.S.U., East Lansing, MI. Mar. 22, 1985.

1984 *Multi-Factor Ecosystem Classification*. Eleventh Annual Natural Areas Workshop, University of Michigan Biological Station, Pellston, MI. Sept. 11, 1984.

1983 *Ecosystem Classification of the Sylvania Recreation Area and Vicinity* (lecture and field presentation). Ottawa National Forest Initial Review. Watersmeet, MI. Oct. 5, 1983.

Grants Awarded as Principal (P) or Co-Principal (C) Investigator:

2003-2005	Effects of plowing Great Lakes Coastal Wetlands	U.S. EPA	\$270,000.	C
2003-2004	Mapping of Great Lakes Coastal Wetlands:	U.S. EPA	\$75,000.	P
2002-2004	Bioassessment for Depressional Wetlands:	U.S. EPA	\$253,750.	C
2002-2004	Habitat Restoration for Coastal Wetlands:	CZM	\$220,000.	C
2002-2003	Linear Parks:	MI DNR Parks	\$40,000.	C
2002-2003	Huron-Manistee Research Natural Areas Evaluation:	USFS	\$24,000.	P
2001-2002	Great Lakes Coastal Wetland Book:	U.S. CZM	\$36,500.	C
2001-2002	Modeling Coastal Wetlands for Fish Habitat:		16,500.	C
2001-2002	Testing of Indices of Biological Integrity:	U.S. EPA	80,000.	C
1997-2000	Indices of Biological Integrity:	U.S. EPA	184,000.	C
1997-1998	Great Lakes Indices of Biological Integrity:	U.S. EPA, U.S.G.S.	4,000.	P
1995-1998	Statewide Conservation Planning:	Frey Foundation	278,000.	C
1995-1999	Landtype Association mapping of northern Lower Michigan:			
	U.S. Bureau of Land Management		10,000.	P
	Michigan DNR, Wildlife Division		30,000.	P
	Michigan DNR, Forest Management Division		80,000.	P
	U.S. CZM		54,000.	P
1994-1997	Great Lakes Marsh Sampling:	U.S. EPA	45,750.	P
1994-1996	Bedrock Beach inventory:	U.S. CZM	66,000.	P
1993-1998	Mapping Presettlement Vegetation of Michigan:			
	U.S. CZM		7,100.	P
	Hiawatha National Forest		9,000.	P
	U.S. EPA		136,000.	P
	Michigan DNR (various divisions)		229,000.	P
1993-1996	Lakeplain Prairie sampling and restoration:	U.S. EPA	78,600.	P
1993-1994	Lakeplain Prairie inventory:			
	U.S. CZM		36,000.	P
	Michigan DNR, Wetland Division		23,000.	P
1993-1994	Great Lakes Marsh Inventory:	Michigan DNR, Wetland Division	30,000.	P
1992-1995	Regional Landscape Ecosystems of MI, MN, WI:			
	USFS, Northcentral Forest Experiment Station		35,000.	P
1992	Sleeping Bear Dune Nat'l. Lakeshore Stream Inventory:			
	U.S.D.I., National Park Service		8,000.	P
1990-1992	Wooded Dune and Swale sampling:	U.S. CZM	48,000.	P
1987-1989	Great Lakes Marsh sampling:	U.S. CZM	44,000.	P

Academic Honors:

- 1990 University Fellowship, Rackham School of Graduate Studies, University of Michigan.
- 1990 School of Natural Resources Fellowship, University of Michigan.
- 1990 Samuel Trask Dana Award for contributions to field of resource management and conservation, School of Natural Resources, University of Michigan.
- 1986 Samuel A. Graham Award for outstanding student in forest biology, School of Natural Resources, University of Michigan, 1986.
- 1986 Member of Sigma Xi, The Scientific Research Society.
- 1985 Jeffery Lund Forestry Award for outstanding forest ecology student, School of Natural Resources, University of Michigan.
- 1984 Xi Sigma Pi National Forest Resources Management Honor Society.
- 1982 University Fellowship, Rackham School of Graduate Studies, University of Michigan.
- 1981 Graduation with Distinction, University of Michigan.

Relevant University Courses:

Botany: Biology I, II, Plant Systematics, Plant Physiology, Plant Ecology, Intro. Mycology, Forest Fungal Ecology, Bryology, Boreal Flora, Aquatic Flowering Plants, Field Botany, Grass and Sedge Seminar, Botanical Illustration.

Natural Resources: Soils, Image Interpretation, Forest Entomology, Applied Statistics, Experimental Design, Forest Ecology, Advanced Forest Ecology, Wildland Management.

Geology: Intro. Geology, Soils and Development, Geomorphology, Pleistocene Geology, Sedimentary Geology, Hydrology Seminar.

References may be obtained from:

Prof. Burton V. Barnes, Forest Ecologist
SNRE
University of Michigan
Ann Arbor, MI 48109-1115
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Dr. Leni Wilsmann, Director
W. Region, Conservation Science
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