

KERLINGER, Ph.D.
Curry & Kerlinger, L.L.C.
P.O. Box 453
Cape May Point, NJ 08212
(609) 884-2842, fax 884-4569
email: pkerlinger@snip.net

PROFESSIONAL EXPERIENCE

Environmental Consultant and Principal, Curry & Kerlinger, L.L.C. (also Adjunct Professor, Collaborative Conservation Program, St. Francis University, Ebensburg, PA, 2005)	1994-
Director of Research - New Jersey Audubon Society and Director - Cape May Bird Observatory	1987-1994
Assistant Professor - University of Southern Mississippi	1985-1986
Postdoctoral Fellow - University of Calgary	1983-1985
Assistant Professor - Clemson University, South Carolina	1982-1983

EDUCATION

State University of New York at Albany	Ph.D., Biology	1982
	M.S., Biology	1981
State College of New York at Oneonta	B.A., Biology	1976

PROFESSIONAL AND POPULAR PUBLICATIONS: Outstanding publication record in scientific and popular literature - 50+ papers (published in 4 countries), 5 books, 40+ popular articles, 100s of technical reports. List and samples available upon request.

BOOKS PUBLISHED:

Kerlinger, P. 1989. *Flight Strategies of Migrating Hawks*. Chicago University Press, Chicago, IL. pp. 374.

Kerlinger, P. 1995. *How Birds Migrate*. Stackpole Press, Harrisburg, PA. pp. 250.

Fowle, M., and P. Kerlinger. 2001. New York City Audubon Society Guide to Finding Birds in the Metropolitan Area. Cornell University Press, Ithaca, NY.

Blanchard, P., and P. Kerlinger. 2001. An Islanded Nature: Natural Area Conservation and Restoration in Western Staten Island including the Harbor Herons Region. Published by: Trust for Public Land and New York City Audubon, New York, NY.

Vezo, T., and P. Kerlinger. 2001. Wings in the Wild, Habits and Habitats of North American Birds. Stackpole Books, Mechanicsburg, PA.

HONORS/DISTINCTIONS: Letters of Commendation - Director of US Fish & Wildlife Service – 1995; Governor of New Jersey – 1996; Expert Witness for State of New Jersey Department of Environmental Protection and US Justice Dept. (Endangered Species and Wetlands)

MEMBERSHIP: National Wind Coordinating Committee – Wildlife Working Group (since 1996); U. S. Fish and Wildlife Service’s Communication Tower Working Group (since 1999)

EXPERIENCE IN WIND POWER AND COMMUNICATION INDUSTRY (1993-2004)

Expertise: Provide expert advice to corporations and nonprofit organizations regarding avian and habitat issues related to windpower projects and communication towers in North America, Europe, the Caribbean, and Central America

- Design and conduct Phase I Avian Risk Assessments at proposed wind power sites (initial siting issues and assessment of overall avian risks)

- Design and conduct postconstruction impact studies at wind turbine and communication tower facilities

- Design and conduct avian research prior to, during, and after construction of wind power facilities (monitoring)

- Consult on design of wind plants and communication towers for avian safety

- Provide expertise on reduction of risk at proposed and existing wind power and communication tower facilities

- Provide expertise regarding habitat management at proposed and existing wind power facilities

- Serve as a liaison to conservation community and regulatory community for wind power developers

- Provide expert testimony for permitting and other processes

** Consulting to nonprofit environmental organizations on wildlife, habitat, and conservation issues and research.

Geographic Extent of Projects and Consulting: Vermont, New Hampshire, Maine, Massachusetts, New York, New Jersey, West Virginia, Ohio, Virginia, Maryland, Pennsylvania, Illinois, Michigan, Iowa, Colorado, Wisconsin, Kansas, Oklahoma, Kentucky, Nevada, Montana, Washington, Texas, New Mexico, California, Newfoundland, Puerto Rico, Spain (Andalucia, Galicia)

Companies: Zilkha Renewable Energy, PPM, Horizon, FPL Energy, Invenergy, Illinois Wind Power, SeaWest Inc., Kenetech Windpower Inc., Atlantic Renewable Energy Corporation, Green Mountain Energy, Green Mountain Power Corporation, Vermont Department of Public Service, Public Service Company of Colorado, Excel, enXco, Distributed Generation Corporation, Cape Winds, US Cellular, Sprint, AT&T Wireless, KRKO Radio, Superior Renewable Energy, US Wind Force, RES, etc.

Nonprofit Clients: U. S. Fish and Wildlife Service, Conservation Law Foundation, New York City Audubon Society, New York City Department of Parks and Recreation, Michigan State Police and Attorney General's Office, US DOE - National Renewable Energy Laboratory, Federal Aviation Administration, St. Francis University

REFERENCES: A list of references from industry, academia, and, or the nonprofit conservation sector (including agencies) are available upon request

PAUL KERLINGER – ACADEMIC PUBLICATIONS – PAPERS (peer reviewed only):

Kerlinger, P. 1981. Habitat disturbance and the decline of dominant avian species in pine barrens of the northeastern United States. *American Birds* 35:16-20.

Kerlinger, P. 1980. The migration of Common Loons through eastern New York. *Condor* 84:97-100.

Bingman, V.P., K.P. Able, and P. Kerlinger. 1982. Wind drift, compensation and the use of landmarks by nocturnal bird migrants. *Animal Behaviour* 30:49-53.

Kerlinger, P. and P.H. Lehrer. 1982. Owl recognition and anti-predator behavior of Sharp-shinned Hawks. *Zeitschrift fur Tierpsychologie* 58:163-173.

Kerlinger, P. and P.H. Lehrer. 1982. Anti-predator responses of Sharp-shinned Hawks. *Raptor Research* 16:33-36.

Able, K.P., W. Gergits, V.P. Bingman, and P. Kerlinger. 1982. Field studies of avian nocturnal migratory orientation. II: Experimental manipulation in white-throated sparrows released aloft. *Animal Behaviour* 30:768-777.

Kerlinger, P., J. Cherry, and K. Powers. 1983. Records of migrant hawks from the North Atlantic Ocean. *Auk* 100:488-490.

Kerlinger, P. and S.A. Gauthreaux, Jr. 1984. Flight behaviour of sharp-shinned hawks during migration. I: Over land. *Animal Behaviour* 32:1021-1028.

Kerlinger, P. 1984. Flight behaviour of sharp-shinned hawks during migration. II: Over water. *Animal Behaviour* 32:1029-1034.

Kerlinger, P., V.P. Bingman and K.P. Able. 1985. Comparative flight behaviour of migrating hawks studied with tracking radar during autumn in central New York. *Canadian Journal of Zoology* 63:755-761.

Kerlinger, P. 1985. Water crossing behavior of migrating hawks. *Wilson Bulletin* 97:109-113.

Kerlinger, P. and S.A. Gauthreaux, Jr. 1985. Seasonal timing, geographic distribution, and flight behavior of Broad-winged Hawks during spring migration in south Texas: A radar and visual study. *Auk* 102:735-743.

Kerlinger, P., M.R. Lein, and B.J. Sevick. 1985. Distribution and population fluctuations of wintering Snowy Owls (*Nyctea scandiaca*) in North America. *Canadian Journal of Zoology* 63:1829-1834.

Kerlinger, P. and M.R. Lein. 1986. Differences in winter range among age-sex classes of Snowy Owls (*Nyctea scandiaca*) in North America. *Ornis Scandinavica* 17:1-7.

- Moore, F.R. and P. Kerlinger. 1987. Stopover and fat deposition by North American wood-warblers (Parulinae) following spring migration over the Gulf of Mexico. *Oecologia* 74:47-54.
- Kerlinger, P. and M.R. Lein. 1988. Causes of mortality, fat condition, and weights of wintering Snowy Owls. *Journal of Field Ornithology* 59:7-12.
- Kerlinger, P. and M.R. Lein. 1988. Population ecology of Snowy Owls during winter on the Great Plains of North America. *Condor* 90:866-874.
- Kerlinger, P. and F.R. Moore. 1989. Atmospheric structure and avian migration. *Current Ornithology*: 6:109-142. Plenum Press, NY.
- Moore, F.R., P. Kerlinger, and T. Simons. 1990. Stopover on a Gulf Coast barrier island by spring Trans-Gulf migrants. *Wilson Bulletin* 102:487-500.
- Bednarz, J. and P. Kerlinger. 1990. Monitoring hawk populations by counting migrants. pp. 328-342. *Proceedings of the Northeastern Raptor Symposium*, Rochester, NY. National Wildlife Federation Scientific and Tech. Series No. 13.
- Kerlinger, P. and D.S. Wiedner. 1991. The economics of birding at Cape May, New Jersey. pp. 324-334, in *Ecotourism and Resource Conservation*, Vol. 1, J. Kusler, ed.
- Russell, R., P. Dunne, C. Sutton, and P. Kerlinger. 1991. A visual study of migrating owls at Cape May Point, NJ. *Condor* 93:55-61.
- Moore, F.R. and P. Kerlinger. 1991. Nocturnality, long-distance migration, and ecological barriers. *Proc. XXth Intern. Ornithol. Congr.*, pp. 1121-1129. New Zealand.
- Wiedner, D.S., P. Kerlinger, et al. 1992. Visible morning flight of Neotropical landbird migrants at Cape May, New Jersey. *Auk* 109:500-510.
- Duffy, K. and P. Kerlinger. 1992. Owl migration at Cape May, New Jersey. *Wilson Bulletin* 104:312-320.
- Mabey, S.E., J. McCann, L.J. Niles, C. Bartlett, and P. Kerlinger. 1993. The Neotropical migratory songbird coastal corridor study, final report. A report of the Virginia Council on the Environment to the NOAA. pp. 72. (not peer reviewed)
- Mabey, J.M., S.E. Mabey, L.J. Niles, C. Bartlett, and P. Kerlinger. 1993. A regional study of coastal migratory bird stopover habitat for Neotropical migrant songbirds: land management implications. Transactions 58th North American Wildlife & Natural Resources Conference, pages 358-407.
- Moore, F.R., S.A. Gauthreaux, P. Kerlinger, and T.R. Simons. 1993. Stopover habitat: management implications and guidelines. in *Proc. Status and Management of Neotropical*

Migratory Birds. Eds., D. Finch and P. Stangel, Rocky Mountain Forest and Range Experimental Station, Fort Collins, CO. USDA Forest Service Gen. Tech. Rept., RM-229, pp. 58-69.

Moore, F.R., S.A. Gauthreaux, P. Kerlinger, and T.R. Simons. 1995. Habitat requirements during migration: important link in conservation. in *Ecology and Management of Neotropical Migratory Birds*. pp. 121-144. eds. D. Finch and T. Martin, Oxford Univ. Press, NY.

McCann, J.M., S.E. Mabey, L.J. Niles, C. Bartlett, and P. Kerlinger. 1993. A regional study of coastal migratory stopover habitat for neotropical songbirds: land management implications. *Trans. 58th N. Am. Wild. and Nat. Res. Conf.*, pp. Wildl. Manage. Inst., Washington, DC.

Loos, G. and P. Kerlinger. 1994. Road mortality of Saw-whet and Screech Owls in southern New Jersey. *J. Raptor Res.* 27:210-213.

Sutton, C. C. and P. Kerlinger. 1997. The Delaware Bayshore of New Jersey: a raptor migration and wintering site of hemispheric significance. *J. Raptor Res.* 31:54-58.

PUBLICATIONS - BOOKS:

Kerlinger, P. 1989. *Flight Strategies of Migrating Hawks*. The University of Chicago Press. Chicago. 375 pp.

Kerlinger, P. 1995. *How Birds Migrate*. Stackpole Books, Mechanicsburg, PA. pp 240.

Dunne, P.J., R. Kane, and P. Kerlinger. 1990. *New Jersey at the Crossroads of Migration*. New Jersey Audubon Society. Franklin Lakes, NJ, 74 pp.

Fowle, M., and P. Kerlinger. 2001. *The New York City Audubon Society Guide to Finding Birds in the Metropolitan Area*. Cornell University Press.

Blanchard, P., and P. Kerlinger. 2001. *An Islanded Nature: Natural Area Conservation and Restoration in Western Staten Island including the Harbor Herons Region*. Published by: Trust for Public Land and New York City Audubon, New York, NY.

Vezo, T., and P. Kerlinger. 2001. *Wings in the Wild, Habits and Habitats of North American Birds*. Stackpole Books, Mechanicsburg, PA.

PUBLICATIONS - BOOK REVIEWS:

1983. *Animal Migration*. by D.J. Aidley. in *American Scientist*.

1987. *The Migration of Hawks*. by D.S. Heintzelman. in *The Auk*.

1989. *Peregrine Falcon Populations, Their Manage. and Recov.* edited by T.J. Cade *et al.* in *BioScience*.

1991. *Rapaci in Volo*. by Luisella Carretta. in *Wilson Bulletin*.

RECENT ABSTRACTS AND PRESENTED PAPERS FOR PROFESSIONAL MEETINGS

Kerlinger, P., and J. Kearns. 2003. FAA lighting of wind turbines and bird collisions. Proceedings of the **National Wind Coordinating Committee** Meeting, November 18, 2003, Washington, DC.

Gehring, J., P. Kerlinger, and A.M. Manville. 2004. Avian collisions with communication towers: a quantification of the associated tower variables.

Kerlinger, P. 2004. Wind turbines and avian risk: lessons from communication towers. Presented at the **American Bird Conservancy-American Wind Energy Association** Meeting, May 18-19, 2004, Washington, DC.

Kerlinger, P. 2004. Attraction of night migrating birds to FAA and other types of lights. **National Wind Coordinating Committee – Wildlife Working Group** Meeting, November 3-4, 2004, Lansdowne, VA.

Gehring, J., P. Kerlinger, and A.M. Manville. 2004. Avian collisions with communication towers: a quantification of some associated tower variables. Paper presented at the **American Ornithologist's Union** annual meeting, Quebec City, Quebec.

Kerlinger, P. 2005. Appalachian ridge following by night migrating birds? A test of the hypothesis using marine surveillance radar in three states. Paper accepted for the joint **Wilson Ornithological Society/Association of Field Ornithologists** Meeting, April 2005, Laurel, MD.

Gehring, J.A., P. Kerlinger, and A. M. Manville, II. 2005. Avian collisions with communication towers: a comparison of tower support systems and tower height categories. **Wilson Ornithological/Association of Field Ornithologists** joint annual meeting, April 2005.

PUBLICATIONS AND REPORTS ON BIRDING ECONOMICS/ECOTOURISM STUDIES AS CONSERVATION TOOLS

The publications that follow represent a unique body of conservation research that has been used by numerous environmental organizations, government agencies, and citizens groups to promote open space conservation.

(Those noted by an asterisk have been peer reviewed and published in the journal or volume indicated.)

*Wiedner, D. S. and P. Kerlinger. 1990. Economics of birding: a national survey of active birders. *American Birds* 44:209-213.

*Kerlinger, P. and D. S. Wiedner. 1991. The economics of birding at Cape May, New Jersey. In *Ecotourism and Resource Conservation, A collection of papers. 2nd International Symposium Ecotourism and Resource Conservation, 1991, Miami, Florida, J. A. Kusler, Jr., ed., vol. 1, pp. 324-334.*

Kerlinger, P. and D. S. Wiedner. 1992. Birding economics, or birders mean big bucks. *Living Bird* 11(1): 8-9

*Wiedner, D.S. and P. Kerlinger. 1992. Economic impact of birding in Cape May, New Jersey. *Human Dimensions in Wildlife Newsletter* 8(3):23-24.

*Kerlinger, P. 1993a. Birding economics as a tool for conserving Neotropical migrants. *Transactions of the 58th N. Amer. Wildlife and Nat. Res. Conf.* pp. 438-443. Washington, DC.

Kerlinger, P. 1993. Birding economics and birder demographics studies as conservation tools. *Proc. Status and Managem. of Neotrop. Migr. Birds.* eds. D. Finch and P. Stangel, Rocky Mntn For. and Range Exper. Station, Fort Collins, CO. USDA For. Serv. Gen. Tech. Rept. RM-229, pp. 32-38.

*Eubanks, T., P. Kerlinger, and R. H. Payne. 1993. High Island, Texas: a case study in avitourism. *Birding* 25:415-420.

Kerlinger, P. 1994. The economic impact of birding ecotourism on the area surrounding Whitefish Point, Michigan. Report to National Fish and Wildlife Foudation and the US Fish and Wildlife Service.

Kerlinger, P. 1994. The economic impact of birding ecotourism on the area surrounding the Bosque del Apache National Wildlife Refuge, New Mexico. Report to National Fish and Wildlife Foundation and the US Fish and Wildlife Service.

Kerlinger, P. 1994. The economic impact of birding ecotourism on the area surrounding the Chincoteague National Wildlife Refuge, Virginia. Report to National Fish and Wildlife Foundation and the US Fish and Wildlife Service.

Kerlinger, P. 1994. The economic impact of birding ecotourism on the area surrounding the Forsythe National Wildlife Refuge, New Jersey. Report to National Fish and Wildlife Foundation and the US Fish and Wildlife Service.

Kerlinger, P., T. Eubanks, and R. H. Payne. 1994. The economic impact of birding ecotourism on the area surrounding the Laguna Atascosa National Wildlife Refuge, Texas. Report to National Fish and Wildlife Foundation and the US Fish and Wildlife Service.

Kerlinger, P. 1994. The economic impact of birding ecotourism on the area surrounding the Malheur National Wildlife Refuge, Oregon. Report to National Fish and Wildlife Foundation and the US Fish and Wildlife Service.

Kerlinger, P. 1994. The economic impact of birding ecotourism on the area surrounding the Ottawa National Wildlife Refuge, Ohio. Report to National Fish and Wildlife Foundation and the US Fish and Wildlife Service.

Kerlinger, P. 1994. The economic impact of birding ecotourism on the area surrounding the Quivira National Wildlife Refuge, Kansas. Report to National Fish and Wildlife Foundation and the US Fish and Wildlife Service.

Kerlinger, P. 1994. The economic impact of birding ecotourism on the area surrounding the Salton Sea National Wildlife Refuge, California. Report to National Fish and Wildlife Foundation and US Fish and Wildlife Service.

Kerlinger, P., T. Eubanks, and R. H. Payne. 1994. The economic impact of birding ecotourism on the area surrounding the Santa Ana National Wildlife Refuge, Texas. Report to National Fish and Wildlife Foundation and the US Fish and Wildlife Service.

Kerlinger, P. 1994. The economic impact of birding ecotourism on the area surrounding The Nature Conservancy's Ramsey Canyon Preserve, Arizona. Report to National Fish and Wildlife Foundation and The Nature Conservancy.

Kerlinger, P. 1995. The economic implications and demographics of birding ecotourists in Trinidad and Tobago. Report to National Fish and Wildlife Foundation and New England Biolabs Foundation.

Kerlinger, P. 1995. The economic implications and demographics of ecotourists at the Chan Chich Lodge, Belize. Report to National Fish and Wildlife Foundation and the New England Biolabs Foundation.

Kerlinger, P. and J. Brett. 1995. Hawk Mountain Sanctuary: a case study of birder visitation and birding economics. pp. 271-280, in *Wildlife and recreation: coexistence through management and research*, R. L. Knight and K. J. Gutzwiller, eds. Island Press, Washington, DC.

Kerlinger, P. and T. Eubanks. 1995. Birds and bucks. *Birding* 27:21-23.

Kerlinger, P. 1995. Birders as ecotourists. *Birders World* (April):74-76.

Kerlinger, P. and T. Eubanks. 1995. The economic impact of birding ecotourism on the Corkscrew Swamp Sanctuary (National Audubon Society) area, Florida, 1993-1994. Report to National Fish and Wildlife Foundation and National Audubon Society.

Kerlinger, P., T. Eubanks, and R.H. Payne. 1995. The economic impact of birding ecotourism on the Sabal Palm Grove Sanctuary (National Audubon Society) area, Texas, 1994-1995. Report to National Fish and Wildlife Foundation and National Audubon Society.

Kerlinger, P. 1995. Preliminary report on the economic impact of ecotourists on the communities surrounding Mohonk Preserve, New York. Report to the Mohonk Preserve, Inc.

Kerlinger, P. 1995. Paying our fair share, birders should back the Wildlife Diversity Funding Initiative. *Living Bird* 14(4):8-9.

*Kerlinger, P. 1998. Establishing an economic basis for protecting bird habitat at the local level. eds. R. Bonney, L. Niles, and D. Pashley. 1996 *Partners in Flight Workshop* volume from Cape May, New Jersey 1995 meeting volume.

PUBLICATIONS - TECHNICAL REPORTS (not peer reviewed)

Kane, R., P. Kerlinger, and R. Radis. 1990. Arthur Kill Tributary and Greenway Project: Wildlife and Habitat Inventory. pp. 88. New Jersey Audubon Society, Franklin Lakes, NJ.

Kerlinger, P. and J. Palumbo. 1990. Raccoon Creek Tributaries Greenway Project (1990). pp. 68. New Jersey Audubon Society, Franklin Lakes, NJ.

Kane, R., P. Kerlinger, and K. Anderson. 1992. Delaware Bay and River Tributaries Greenway Project (1991-1992). pp. 112. New Jersey Audubon Society, Franklin Lakes, NJ.

Kane, P. and P. Kerlinger. Raritan Bay Habitat and Wildlife Inventory, 1992-1993. pp. 74. New Jersey Audubon Society, Franklin Lakes, NJ.

(More than 100 others to industry, US Fish and Wildlife Service, NOAA, EPA, National Audubon Society, The Nature Conservancy, etc.)

PUBLICATIONS - POPULAR LITERATURE/MAGAZINES

Natural History - 1995, 1996 (American Museum of Natural History)
Birders' World - 1994, 1995; 2000-2005 (Birds on the Move – a regular column)
Wild Bird - 1993, 1994, 1995, 1996
Atlantic Coast - 1993
New Jersey Outdoors 1995, 1997
The Conservationist (NYS Dept Envir. Conservation)
Birding (American Birding Association)
Kingbird (NY State Federation of Bird Clubs)
New England Bird Observer (Mass Audubon Society)
Peregrine Observer (Cape May Bird Observatory)
Newsletter of the Hawk Migration Assoc. of North America
New Jersey Audubon Magazine
Records of New Jersey Birds (1988-1994)
Bird Watcher's Digest
Cape May Bird Report - 1987 - by David A. Sibley (Kerlinger published this book)
Winging It (ABA Newsletter)
The Living Bird - 1998, 1995, 1992 (Cornell Lab of Ornithology)
The Eyas (Raptor Research Society)