

**James F. Steffen**  
Ecologist  
Chicago Botanic Garden  
1000 Lake Cook Road, Glencoe, IL 60022.  
847-835-8266; sjsteffen@chicagobotanic.org

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EDUCATION     MASTER OF ENVIRONMENTAL ARTS AND SCIENCE 1980.  
University of Wisconsin-Green Bay. Thesis Title: Some Effects Of  
Clearcutting On Songbird Populations In The Northern Hardwood  
Forest. 66 pp.

BACHELOR OF SCIENCE (Biology) 1973  
University of Wisconsin-Green Bay

11/89-Present

PROFESSIONAL  
EXPERIENCE

ECOLOGIST

Chicago Botanic Garden.

Manage and restore oak woodland/savanna community. Inventory  
vegetation, birds, invertebrates, bryophytes, fungi, mammals. Analyze  
data. Conduct prescribed burns. Supervise interns, seasonals and  
volunteers. Conduct research. Present professional material and  
educational programs. Propagate native vegetation. Full time.

3/88-3/89

CONSERVATION ECOLOGIST

Chicago Botanic Garden

Conducted vegetation inventory. Analyzed and compiled data.  
Researched historical information. Formulated and implemented  
management plan for oak woodland community. Propagated native  
vegetation. Conducted wildlife surveys. Supervised interns. Presented  
educational programs. Full time.

10/86-9/87

RESEARCH SPECIALIST

University of Wisconsin-Green Bay.

Conducted biological inventory of a potential long-term biological  
field station. collected statistical data on floral and faunal populations.  
Mapped biological and geological features. Analyzed data and  
compiled research report. Full time.

6/84-9/86

WISCONSIN CONSERVATION CORPS CREW LEADER

State of Wisconsin for Brillion Public Schools and Woodland Dunes Nature Center. Supervised five to seven crews members. Designed and constructed hiking and cross-country ski trails, signs and boardwalks. Budgeted \$10,000 for tools and materials. Trained crew members to assist in interpretive programs. Designed six self-guiding nature trails. Managed six acre prairie planting. Full time.

5/83-7/83

RESEARCH ASSISTANT

Smithsonian Tropical Research Institute.  
Field assistant to Phd. candidate. Conducted field observations on lowland rainforest bird populations. Recorded vocalizations of singing birds. Mapped territories and conducted sound transmission experiments. Full time.

5/77-10/81

NATURALIST/PLANNER

Woodland Dunes Nature Center.  
Designed and conducted educational programs for children and adults. Conducted research on bird populations. Developed a two acre prairie planting. Greeted and assisted visitors. Established an injured wildlife rehabilitation program. Conducted various environmental inventories and literature reviews. Developed user surveys. Wrote a land management plan for the nature center. Base mapping. Full time.

ADDITIONAL PROFESSIONAL EXPERIENCE EDUCATOR, LECTURER

Served as co-chair of Science team for Chicago Wilderness (1997-99). Taught Field Ecology, Carex Identification, Oak Woodland Restoration, Spring Fauna, Bird Watching, Fresh Water Mussel Biology and Identification, Butterflies and Bees and Seed Collecting classes for the School of the Chicago Botanic Garden. Taught classes on bird biology for University of Wis. Extension and Lakeshore Technical College. Conducted workshops and classes for The Nature Conservancy. Guest lecturer for University of Wisconsin-Green Bay ecology classes.

CONSULTING Lakeshore Preserve vegetation inventory. Open Lands. 2010.  
Waukegan Beach threatened and endangered plant survey. 2004  
Fort Sheridan Ravine vegetation inventory. Hay and Associates. 2003.  
Reptile, Amphibian and Crayfish survey of Florsheim and North Park Nature Preserves. Town of Lincolnshire. 2002.

Vegetation inventory of North Park Nature Preserve. Town of Lincolnshire. 2001.

Deer browse evaluation of Florshiem Nature Preserve. Town of Lincolnshire. 2000.

#### PUBLICATIONS

A Baseline Inventory of Bryophytes of Mary Mix McDonald Woods, Cook County, Illinois. Co-author. In press. *Erigenia*.

Diversity and activity of ground-dwelling spiders (Araneae) in four sub-communities in a degraded oak woodland at the Chicago Botanic Garden, Cook County, Illinois. 2010. Co-author. *The Great Lakes Entomologist* 42(2&4):79-97.

Prairie Grouse (Ghost Dance). 2010. *The Passenger Pigeon*. 72(1):12

Effects of Rhamnus cathartica (common buckthorn) invasion and woodland restoration on plant diversity and carbon storage services. 2010. Co-author. Poster. Midwest chapter of the Society for Ecological Restoration International, Madison WI..

Cooper's hawks use artificial nest structure. 2008. *The Passenger Pigeon* 70(2):185-187.

Interaction of an Introduced Shrub and Introduced Earthworms in an Illinois Urban Woodland: Impact on Leaf Litter Decomposition. 2007. Co-author. *Pedobiologia* 50:543-551.

Deschampsia flexuosa (L.) Trin.: addition to the flora of Illinois. 1997. *Erigenia* (16):66.

The Tallgrass Restoration Handbook. 1996. Contributing author. Island Press, Covelo, CA.

Study Examines the Heat of Combustion of Deciduous Tree Leaf Litter (Illinois). 1993. *Restoration and Management Notes* 11(2):152.

Turnbull Woods: A Vegetation Inventory and Management Plan. Chicago Horticultural Society, Glencoe, Illinois 1989. 80 pp.

A Biological Inventory Of Kingfisher Farm: A Potential Long-term Research Site In Manitowoc County, Wisconsin. University of Wisconsin- Green Bay. 1988. 65 pp.

Some Effects Of Clearcutting On Songbird Populations In The Northern Hardwood Forest. 1985. Transactions of the Wisconsin Academy of Science, Arts, and Letters. 73: 123-132.

Turkey Vultures Breeding In Unused Farm Buildings. 1984. Passenger Pigeon 46(3):101.

Unusual Hunting Behavior Of The American Kestrel. 1981. Inland Bird Banding 53(3):109-110.

Seventh State Record For Groove-billed Ani. 1981. Passenger Pigeon 43(3):109-110.

Nesting Of The Common Loon In Manitowoc County. 1981. Passenger Pigeon 43(3):111.

Some Notes On Breeding Sharp-shinned Hawks In Manitowoc County. 1981. Passenger Pigeon 43(3):112-113.

Woodland dunes: Past, Present, and Future. A resource inventory and land management plan. 1979. 104 pp.

Cannibalism In Adult Nesting Red-tailed Hawks. 1977. Auk 94(3):593- 594.

RESEARCH      DEVELOPED THE FOLLOWING PROJECTS

Master's Thesis.

Examination of the Heat of Combustion of Tree Leaf Litter.

Moderating Effects of Canopy Cover: Sensible Heat.

Winter Food Habits of Short-eared Owls.

Utilization of Dogwood as Deer Browse.

Breeding Bird Populations of a Northeastern Wis. Bog.

Effects of Cutting on Plant Diversity of a Bog.

Invertebrate Populations of a Flowing Spring.

Effects of Grazing on Soil Compaction in Farm Woodlots.

Breeding Raptor Populations of Manitowoc County, Wisconsin.

Inventory of Soil Microarthropods of Degraded Oak Woodland.

Twelve Month Inventory of Spider Populations in the Litter Community of a Degraded Oak Woodland

Soil Microarthropods of degraded oak woodland.

Inventory of Mycorrhizal Fungi to examine impacts of Woodland Restoration.

Effects of Oak Woodland Restoration on Water Infiltration.

TEACHING      Seed collecting and propagation workshop – 2002, 08, 09, 10  
Sedge ecology and identification – 2000, 02, 08, 09

Native bees and butterflies – 2002, 09  
Woodland wildflower identification and landscape use – 2008  
Spider identification and ecology – 2007  
Herbaceous invasive plants – 2005  
Field ecology – Spring, Summer, Fall and Winter sessions – 2000, 01, 03, 04  
Introduction to bird watching – 2000, 03  
Spring Fauna – 2001,02, 03  
Introduction to native areas management – 2003  
Mechanical brush removal – 2002  
Native species gardening – 2002  
Freshwater mussel identification and ecology - 2001

PERMITS

U. S. Dept. of Interior Bird Banding Permit.  
Illinois Dept. of Conservation Scientific Collectors Permit.  
Illinois Dept. of Agriculture Pesticide Applicators license.

PROFESSIONAL

MEMBERSHIPS Raptor Research Foundation, Inc.  
The Nature Conservancy.  
Wisconsin Society for Ornithology.

REFERENCES References will be furnished upon request.