



The Dunesletter

A Publication of Woodland Dunes Nature Center and Preserve



Getaway with the Dunes: Key West
Woodland Dunes newest fundraiser was great fun for everyone who attended and brought in substantial support for our organization. Above, Jessica Johnsrud presents the door prize, an iPad donated by Ellen and Don Lewellen, to Dan Gray. A live auction with Bob Gahl, a silent auction, live music by the Schmidts, food, and games, and the work of tireless volunteers made the event an evening to remember. Next year's event is Saturday, November 10, 2012. Put it on your calendar now and watch for more details in the Dunesletter.



From the Director

The end of the year is a time of reflection, making it appropriate that our holiday season begins with Thanksgiving. With age I think one becomes more thankful for smaller blessings, or perhaps it's just that we become more aware of them over time. One of my greatest joys is to sit, as I am now, at the kitchen table with a mug of tea, watching our bird feeders for a few minutes. The birds and squirrels break their fast the same time that I do, although unlike me, they are in constant motion as they refuel themselves for another cold day. Gawain, our cat, perches on a wide windowsill in front of me, his tail sweeping back and forth like a pendulum, betraying his more than casual interest in the feathered treats on the other side of the glass. This, to me, is a perfect and refreshing way to start the day, although it happens infrequently these days. Usually I am rushing in the morning, only vaguely aware of all the activity taking place in the lives of my fellow residents. Perhaps there should be an occasional announcement, like "This exceptional moment has been brought to you at no charge by Nature—pay attention!"

I am also becoming more aware of how precious Woodland Dunes is, both as a place and as an community of people who care about nature. As this is being written, we have just finished a busy fall season, with a series of successful events and programs that could only have happened through the hard work of our staff and a wealth of incredible volunteers. To all of you who help this organization in so many ways—with maintenance, educating children, citizen-science and wildlife programs, gardening, greeting visitors, serving on our Board and committees, managing records, fundraising, financial support, and everything else—know that we are truly grateful for what you do. It seems each year we try to do more with the same resources, and, thanks to all of you who support us every year, we are usually able to find a way.

As the year comes to an end, we review our status, and realize we should be thankful in that regard also. That a small nonprofit with such large ambitions can exist at all is remarkable, and not only do we exist, we make a difference. Our major challenges, like finding sustainable funding and managing invasive

cont. on page 3



The Bebringer Room of the Two Rivers Community Center was filled with friends of Woodland Dunes for Getaway with the Dunes: Key West. Above, a live auction with auctioneer Bob Gahl. Bidding was fast and furious for prizes like Packer tickets and a bird watching breakfast.

Be our fan on Facebook.

Winter 2011

Volume 146

Coming Events	2, 3
In the Bleak Midwinter	4
Poetry	5
On the Brink of Extinction	5
Squirrel Nutkin vs. Old Brown Owl	6
The Living Classroom, Citizen Science 7, 8	
Volunteers	9
Birds	10
Kidland Dunes	11
2011 Members	12, 13
Thank You	14, 15
Helping the Dunes	15

Coming Events



Looking for solar flares at OwlFest with All Kluczinske

Snowshoe Rental at Woodland Dunes

Enjoy exploring the winter landscape on snowshoes. Snowshoes will be available to rent from 9:00 a.m. to 4:00 p.m., Monday through Friday plus Saturdays, January 7 and February 4 from 9:00 a.m. to noon. Check our special events for more evening and weekend opportunities. Snowshoe rental: \$5 a pair.

The Wonder of It All Wisconsin Logging History

Wednesday, December 14 • 1:00 to 3:00 p.m.

Take a break from the holiday rush and learn about Wisconsin logging and sawmill history with Bob Walkner. See tools that shaped our state and get a glimpse of how our past has molded our present. Registration by December 9 is appreciated. Sponsor: The Dominion Foundation.

Full Moon Walk

Monday, January 9 • 6:00 p.m.

Donations appreciated.

Enjoy a self guided walk, snowshoe or ski in the moonlight. (Trails are not groomed.) You'll enjoy a completely different world than the one you see during the day. A limited number of adult and kids' snowshoes will be available for rent at \$5/pair. Please call to reserve.

The Wonder of It All Plants in the Cold

Wednesday, January 11 • 3:00 to 5:00 p.m.

In this workshop, we will examine the challenges that plants face in the Wisconsin winter, like low temperature, heavy snow and strong winds, and then explore the ways that they cope with these challenges. There will be a short walk outside (weather permitting) followed by a presentation indoors. Instructor: Dr. Jason Mills, Assistant Professor of Biology, St. Norbert College. Registration by January 6 is appreciated. Sponsor: The Dominion Foundation.

Snowshoe Hike

Saturday, January 21 • 9:00 to 11:00 a.m.

Member, \$3; Nonmember, \$5

Explore winter ecology on this guided hike to the West Twin River: see who is still active on the preserve. A limited number of adult and kids' snowshoes are available for use—call to reserve. Registration by January 17 is appreciated.

Full Moon Walk

Tuesday, February 7 • 6:00 p.m.

Donations appreciated.

Enjoy a self-guided walk, snowshoe or ski in the moonlight. Bring family and friends along for this great experience. (Trails are not groomed.) Adult and kids' snowshoes are available for rent at \$5/pair; call to reserve.

The Wonder of It All Why don't we have dinosaurs in Wisconsin?

Wednesday, February 8 • 5:30 to 7:00 p.m.

Explore Wisconsin's geologic history with Dr. McKean, Assistant Professor of Geology, St. Norbert College. We will take a look at Wisconsin's past, focusing on the fossil record. Registration by February 3 is appreciated. Sponsor: The Dominion Foundation.

Candlelight Night

Saturday, February 18 • 6:30 to 8:30 p.m.

Member, \$5; Family \$10

Nonmember, \$8; Family, \$15

Snowshoe, ski or walk through the woods on a candlelit trail. The magic of the snowy winter woods will enchant you and your family and friends. Live music provided by Schmidt Happens. Warm beverages will be served. Held at the Nature Center. Some adult and kids' snowshoes are available for use; please call to reserve.

The Wonder of It All Amphibians of Woodland Dunes

Wednesday, March 14 • 12:30 to 2:30 p.m.

As winter turns to spring we will explore the natural history of amphibians and learn to identify by sight and sound the frogs and salamanders that make Woodland Dunes their home. Registration by March 9 is appreciated. Sponsor: The Dominion Foundation.

Grafting Fruit Trees

Saturday, March 31 • noon to 2:00 p.m.

Member, \$20; Non-member, \$25

Do you wish your ornamental crabapples had large, juicy apples? Or your crabapple tree had pink flowers instead of white? For centuries people have been changing fruit trees to suit their needs and you can too. In this class we will each graft and take home two semi-dwarf trees of your choice (apple, pear or plum). Root stocks and scion wood (fruit tree cuttings) provided. Additional materials will be available for a fee. If you have a sharp knife bring it with you; some will be available as well. Registration by March 16 is required.

Winners of Getaway Baskets

If you do not want the basket your getaway auction items were packaged in, please return it to Woodland Dunes for reuse.

For information, call (920) 793-4007 or check our website at www.woodlanddunes.org. Unless noted, all events are held at the Nature Center.

At the Dunes

Scion Wood Exchange

Saturday, March 31 • 2:00 to 4:00 p.m.

Join fellow fruit tree enthusiasts as we swap stories and trade scion wood from various trees. Bring as many types of cuttings as you wish. Follows our grafting class; free to the general public. Registration by March 16 is required.

Wonder of It All

ebird and Birding 101

Wednesday, April 11 • 9:00 to 11:00 a.m.

Learn basic birding skills, then enjoy a guided hike with a Woodland Dunes naturalist. Following the hike learn how to use Cornell's ebird program to help scientists learn more about bird population and distribution. Registration by April 6 is appreciated.

Searching for

Sky Dancers and Frogs

Saturday, April 14 • 7:30 to 8:30 p.m.

Member, \$3; Nonmember, \$5

Join Woodland Dunes naturalists on a night hike to search for the elusive sky dancing Timberdoodle and listen and look for the frogs that live on the preserve. Registration by April 2 is appreciated.

Shoots, Sprouts and Flowers

Spring has Sprung Herbal Series

April 25, May 2, May 9 and May 16, 2012

Member, \$115; Nonmember, \$120

Did you know that young yellow dock leaves contain a substance that relieves the irritation from stinging nettle? Did you know that cooking, pulverizing and drying stinging nettle, takes away the sting and leaves one of the most nourishing plants on the planet. You'll learn all of this and more! Join herbalist and wild crafter Linda Conroy for this fun and inspiring herbal series. We will visit the early plants of spring and learn plant lore and applications for food and medicine passed down throughout history. Leave with recipes and an herbal first aid kit, for the bites, stings and irritations of spring plus a dash of inspiration. Registration required by April 9.



"The Fox Den" at the Enchanted Forest.

The Wonder of It All

Tree Physiology and Forest Hike

May 9 • 1:00 to 3:30 p.m.

Join Sue Crowley, Wisconsin DNR forester, on an exploration of the inner workings of a tree, then stroll through the forest to learn more about Woodland Dunes' forests. Registration by May 4 is appreciated. Sponsor: The Dominion Foundation.

Dash at the Dunes

Saturday, April 28th.

Check our website early next year.

Migration Celebration and Bird Breakfast

Saturday, May 12 • 8:00 to 11:00 a.m.

Butterfly Garden Festival

Saturday, August 18, 9:00 a.m. to noon

Enchanted Forest

Saturday, October 6



"Little" owls at OwlFest enjoyed the efforts of our volunteer face painters.

cont. from page 1

species remain, but we are making progress. In the preserve, a number of species new to us were identified this year: plants, insects, and other animals. More than 4,000 people, children and adults, visited or were visited by our staff for educational programs. Our facilities and trails were improved. Our staff grew in their expertise in many areas. We have much to be thankful for.

I hope you experienced much in your life in the past year for which you are thankful. I also hope you appreciate your place in the natural world and realize how it sustains us.

Jim Knickelbine, Director

Native Tree and Shrub Sale

Woodland Dunes is currently accepting orders for its annual Native Tree and Shrub Sale. When you order trees and shrubs through this sale, you receive quality native plants and help Woodland Dunes at the same time. Native plants are well-adapted to our conditions and provide food and shelter for birds and other wildlife.



Order forms can be found on the homepage of our website at www.woodlanddunes.org. To request an order form, please contact Jessica at jessicaj@woodlanddunes.org or call 920-793-4007. If you ordered from us last year, you will receive a form via email or in the mail soon.

All orders must be received by Friday, March 16. Every attempt will be made to fill your order; however supplies are limited so order early. Orders will be available for pick-up on Friday, April 20 from 10 a.m. to 3:00 p.m. and Saturday, April 21 from 9:00 a.m. to noon.

In the Bleak Midwinter



When winter has frozen the ground and covered the landscape with snow, I like to curl up by an open fire and revisit my favorite gardening books. As I page through, I have to laugh at the suggestions—invariably from Brits—to get outside and pick some winter blooming flowers to bring color into the house. They assure me with just a little searching, I can find a late rose, some low-growing greens, maybe even an early spring-blooming bulb. As I gaze out at the chiaroscuro landscape, I wonder how deep I'd have to burrow in the snow to find even a crumpled and colorless rose petal. The perennial plants are mush on the compost pile, and the spring bulbs have shown no interest in a mid-winter appearance. April is good enough for them.

I console myself with the thought that we northern people appreciate the more subtle aspects of nature, not relying on flash and brilliance for our pleasure. Form, texture, shades and tints, all of these catch our attention when the exuberance of summer is absent. Sometimes I head out into the forests and fields on snowshoes or skis, but often the icy winds discourage me from doing more than walking down to the end of the driveway to collect the mail.

But even this short excursion offers a glimpse of beauty. Across the road, snow-covered fields are lined by silhouetted trees displaying their architecture, black against white, some lacy, some sturdy, some weeping, some upright. The more distinctive I can recognize by their forms, but most just merge into an ebony deckled edge against the blinding white of the snow. Even experts admit difficulties in winter tree identification. Trees are not as consistent in form as they are in leaf shape or branching characteristics. Form and manner of growth are useful, but young trees often have a different form than adult trees, and forest grown and field grown trees differ as well. It's interesting to guess at what species I'm admiring, but really, it makes no difference to the visual delight of winter trees sharply outlined by sunlight or blurred by gently following snow.

On those days when relatively warm weather lures me out for an extended outing, I enjoy the understated colors

and varied textures of tree bark. One of my favorites is that of the climbing hydrangea, *Hydrangea anomala* ssp. *petiolaris*. I planted a specimen near a pergola for the sake of its handsome leaves and lacecap flowers, but now that it is mature, I find the rust-colored, exfoliating bark one of its most appealing features. As I wade into deeper snow, the dusty lavender canes of wild raspberries catch at me; summer leaves conceal their beauty, but winter puts their improbable color on center stage. Paper birch show off year around with their ermine colored bark, but after planting a small copse, I discovered that young trees lack the finely-lined white bark we all admire. But with their butter colored leaves long fallen, I find that this year the thin, cinnamon-colored juvenile bark has started to peel away, revealing the pale ivory treasure within.

As I plunge deeper into the woods, I see the birds are still ignoring the plentiful, dark red fruit of highbush cranberries. Although attractive to the eye, they must be nasty tasting, taken only when there is nothing else to eat. Just about everything else disappears early in the season, including the fruit of the winterberry I planted for the sake of winter color, the white or dull blue-gray drupes of ubiquitous red-twigged dogwood and the cheery red fruit of the Washington hawthorn (*Crataegus phaenopyrum*). In one glutinous autumn feast, cedar waxwings descend in a flock and strip the tree bare. Flowering crabapples and rose hips persist into the winter, adding flecks of amber or dark red to the landscape, until repeated frosts make them palatable to birds, particularly robins.

An unplanned slide down the path to the lake opens another world, pale and silent. I wade through faded, ragged grass to a beach marbled by snow and sand. A fragile edging of ice marks the meeting of water and land. The lake itself seems to be breathing as tiny swirls of steam rise off the heaving pewter surface. No color enlivens this landscape, but the tiny trails of birds and animals add an air of mystery. Who was here before me? And why?

A rising wind sends me in search of shelter. Closer to the house, low-growing evergreens in their varied colors peek cautiously from under the snow. Until I started paying attention, I assumed they stayed the same color year around. Now I realize many of them turn gray or copper or plum in the cold. The tall juniper 'Wichita Blue' retains its pale bluish color all winter long, but its backdrop of native arbor vitae (*Thuja occidentalis*) turns a deep bronze, giving the landscape a new depth.

Next to the house, the flash of a cardinal reminds me that I have duties. My escape to the woods is over, and it's time to fill the bird feeders, then return to the warmth and color of my winter home, where I can anticipate the first blooms of spring.

Susan Knorr, Editor





Return from the Brink of Extinction

In 1903 Ludwig Kumlien and Ned Hollister wrote in *The Birds of Wisconsin*, "The wild turkey is so rare in Wisconsin that it is safe to say it is extinct." When white men first arrived in the state, they wrote, the turkey was abundant in southern Wisconsin. Turkeys were originally found south of a line from Green Bay to Prairie du Chien. Deep crusted snow in the winter of 1842-43 was cited as the chief cause of their decline. According to modern analysis, habitat destruction, unregulated hunting, and diseases spread from domestic poultry were contributing causes of their demise.

The Wisconsin Conservation Department made several attempts to restock turkeys beginning in 1929. The present population of turkeys in Wisconsin is the result of introductions made in the 1970s. They now occur through the southern two-thirds of the state, with some as far north as Marinette County. The growth of new forests on marginal farms that were abandoned in the early twentieth century, and the establishment of refuges has probably contributed to this recent success.

The wild turkey (*Meleagris gallopavo*) was originally found from southern New England and southern Wisconsin south to the Gulf states, and west to the Rocky Mountains and northern Mexico. In other parts of its range, its history was much the same as in Wisconsin. The species survived only where habitats were mostly undisturbed. Birds from those areas were used to re-introduce the species in its former range and to establish it in other places. It now occurs in some of the Pacific states and the northern Great Plains.

Female turkeys usually lay ten to twelve eggs in a slight depression in the ground, that is lined with leaves or grasses, and concealed by grass or shrubs. The eggs hatch in about twenty-eight days, and the young birds leave the nest one or two days later. They are able to fly about two weeks after hatching. Males take no part in nesting or raising young. They make elaborate displays in early spring, strutting with all feathers fluffed out, tail spread, and wings drooping, making gobbling sounds, and trying to mate with as many females as possible.

Turkeys roost in trees, but otherwise spend their time on the ground. They travel in flocks when not nesting, usually segregated according to sex. They feed chiefly on acorns and other nuts, seeds, and fruits, but also consume small quantities of insects and other invertebrates, buds and grass. They are good runners and can fly powerfully for short distances.

Domestic turkeys are descended from wild turkeys captured in Mexico, where they have tail feathers with white tips. The wild turkey of the eastern United States has chestnut-colored tail feather tips. Wild birds are slimmer than domestic birds, and are much more wary. This excess of caution and their reproductive capacity have enabled them to repopulate their former territory.

John Woodcock



Winter's Salutation

Come winter, I turn to the trees,
to their sure, beckoning branches
lifted to that massive sky:
Look! they chant, *We are here!*

I drive along their highway meditation,
am small audience walking through
forest crescendos. Night folds
on a young smooth-bark maple
outside my window and me within
joined in quiet recollection.

Yes, in past seasons they swelled
with work—made the needed air-
giving leaves, harbored remarkable
squabbly spilling nests, and filled
bins and caches with fruit and
seed.

But now winter's sparseness expects
reflection, an accounting of blessings,
and so I turn to trees for daily lessons
in raising joy-strong limbs
bared to morning's sun: *We are here!*
We are here!

Jean Biegun

Jean Biegun has published several collections of her poetry, and has been published in local and national magazines.

Squirrel Nutkin vs. Old Brown Owl



Perhaps the question I am most often asked about feeding birds is, "How can I keep the squirrels from eating the bird seed at the feeders?" My response has been tentative at best, and absent at worst. I am reminded of my dad's attempt to address the problem by live-trapping the squirrels that came to his feeders and removing them to the countryside. The last year he engaged in this trapping endeavor, he removed more than 180 squirrels, color marking their tails to identify repeat offenders. But seemingly for every squirrel removed, two more appeared, quick to participate in the banquet. It isn't just squirrels that are attracted to the free meals; the more interesting visitors arrive under the cover of night.

The problems with squirrels remind me of reading Beatrix Potter's *Squirrel Nutkin* to our daughter. It was one of her favorite stories. Although Miss Potter is best known for *Peter Rabbit*, it was Squirrel Nutkin who our daughter found most appealing. She even had a cherished Squirrel Nutkin plush doll. If you haven't read the story, here's a synopsis: Squirrel Nutkin, a red squirrel, lived in the English countryside with his brother and cousins. One week, they ventured daily by rafts to Owl Island, hoping to gather the plentiful hazelnuts. However, the island was the home of Old Brown Owl. Despite daily peace offerings, like three fat mice, upon their arrival, Squirrel Nutkin soon attracted unfavorable attention from Old Brown Owl because of his impertinence, almost becoming the owl's dinner. At the last moment he broke away, losing part of his tail in the process. Because of this frightful experience, when Squirrel Nutkin is approached, he stomps his feet, scolds and shouts the alarm "Cuck-cuck-cur-r-r-cuck-k-k!"

Squirrel Nutkin's opportunistic exploitation of the free and abundant food is precisely what gets our squirrels in trouble. Like Old Brown Owl, we want to discourage their uninvited presence at our feeders.

Fred Alyea, a childhood friend who now lives in Dunwoody, Georgia, has an attractive garden and patio area with an array of bird feeders that attract many birds. Like my dad, he has taken the fight with the squirrels very seriously. Most of his feeders are suspended from rafter ends, making it difficult for the squirrels and chipmunks to easily dine, but they do come to the feeder areas to eat seeds dispersed by the birds or the wind.

Unlike my dad, Fred has found a solution to the squirrel problem. He uses the active ingredient in hot peppers, capsaicin, as a deterrent to squirrels and other unwanted mammals. His arsenal of tricks includes a spray made from two two-ounce bottles of McIlhenny Tabasco sauce mixed in a gallon of water. He sprays this mixture liberally in and around the bird feeding areas, even on the bird food and feeders. Each time it rains, the mixture is reapplied. In our last conversation, Fred proudly proclaimed that squirrel, chipmunk and even raccoon sightings at their feeder areas

have become rare events.

Capsaicin's effectiveness in repelling mammals has a very interesting explanation. The protein irritant, capsaicin, stimulates the capsaicinoid receptor that mammals possess, but birds do not. When this happens, it in turn triggers the release of the neurotransmitter Substance P, which signals the reception of the painful sensation. (This is similar to the cool sensation we perceive when in contact with menthol, except menthol stimulates receptors that signal the sensation of cold.) Because the capsaicinoid receptor mechanism is missing in birds, pain is not perceived, and they suffer no ill effects.

This capsaicin story is a small part of a much larger story of how plants protect themselves from being eaten or destroyed by herbivores. This defense, anti-herbivory, employs various physical and chemical tricks similar to those that protect plants from being crowded by other plants (allelopathy). In the case of allelopathy, plants play nasty tricks on other plants in their attempt to succeed in the harsh reality of life.

Animals also come armed with many tricks of their own, acquired by the selective process, that permits them to deal with plants' defensive

Sprays to discourage squirrels and other mammals

Recipe 1 Mix one small bottle of hot sauce (like Tabasco) or one can of cayenne pepper with one gallon of water. Add one teaspoon of mild dishwashing detergent. (The detergent helps the pepper water adhere to the plants and other items.) The pepper spray will need to be reapplied after watering or rain. Because it contains a detergent, the spray should not be used on the feeders or the food. Any fruits or plant material that have been sprayed should be washed carefully as the detergent will have influences on your GI system that will be remembered in family stories for a long time.

Recipe 2 In two quarts of water, mix the following:

- One tablespoon of cayenne pepper
- One chopped Jalapeno pepper
- One chopped yellow onion

Boil the ingredients for 20 minutes, then cool and strain through cheesecloth. Spray the mixture in and around the feeder area. It can be applied to birdseed and feeders. This recipe is effective, but needs to be reapplied every three to five days, or after rain or watering.

These recipes should make you the Old Brown Owl of your neighborhood. And, if you feel especially inspired, you can experiment with your own concoction. Be sure to write down the ingredients as you make the product so others can also experiment. If it works, please let Woodland Dunes know about your success.

mechanisms. Dr. Bill Karasov, a UW Madison Forest and Wildlife ecologist, has written extensively about his investigations of animals' strategies, especially those of birds, to get around plant defenses to obtain nutrition from the plants. An article he wrote in 1993 entitled "In the Belly of the Bird," (*Natural History* Vol. 102: 32 - 37) describes the interesting adjustments birds make to their GI system in order to secure a meal from plant or animal food resources.

For example, quaking aspen produces coniferyl benzoate, a toxin which interferes with nitrogen metabolism, metabolically reduces energy and causes acidosis. Yet ruffed grouse consume the leaves of the quaking aspen as part of their dietary intake. Their livers transform the toxin into a safe metabolite and excrete the by-product. And, as they dine upon the quaking aspen, they regulate the intake of leaves to prevent the intake of more toxins than the liver can detoxify.

Other findings reported by Bill Karasov are that birds have the ability to make adjustments in their own GI system to handle foods they are currently eating. This includes changing the structure of the stomach and intestine, and increasing or decreasing the speed with which the nutrients move through the gut. Some birds even change their diet from animal to plant material to take advantage of a seasonal food source. The robins remaining in our area and cedar waxwings are currently eating raised fruits instead of worms and invertebrates.

These digestive system changes became obvious to me in the early 1960s when I was a grad student at Washington State University. Before Thanksgiving, thousands of Bohemian waxwings would descend upon the community of Pullman, Washington, just as the apples were beginning to rot and ferment. The waxwings would gorge on this delightful (to them) treat and quickly deposit the partially digested products where they were



Mechanical Squirrel Discouragers

Another approach to unwanted "guests" at the feeders includes the use of mechanical gadgets that selectively restrict the use of the feeders to birds. For bird watchers who like technology, many curious devices now exist that offer non-chemical alternatives to squirrel and other mammal problems. One such device involves a feeder with a battery-operated perch that is weight sensitive. It permits birds to perch and eat, but a heavier mammal attempting to feed causes the perch to rotate violently, flinging the squirrel or chipmunk around as it clings for dear life. Perhaps for some, this is even more interesting than watching the birds. Other devices involve spring-loaded perches that close the feeder when the heavier mammal tries to remove seeds. Options in all price ranges exist, and offer creative meaning to the bird feeding experience.

unappreciated. My opinion was that the alcohol contributed to this effect. Unfortunately, the work of Bill Karasov had not been done at this time, so this rapid movement of materials through the gut of the waxwings was not at all understood. For some reason the residents of Pullman thought the Zoology Department was responsible for this disgraceful event, and complained bitterly to the department each year. The department just said that they were not responsible for the waxwings' messy deposits.

Other birds have taken an entirely different approach to eating things that contain potentially lethal toxins or distasteful substances. Macaws and

some parrots that live in South America eat liana seeds that are loaded with strychnine. Using their large, powerful hooked bills, they crack open the seeds and consume the contents. Instead of getting a severe case of indigestion—or dying from a lethal dose of toxin—the macaws and parrots fly to a clay lick and consume the otherwise non-nutritious clay. The clay absorbs the toxins from the consumed seeds, permitting the birds to digest and extract their nutrients. This consumption of edible clay is called geophagy (earth eating), and is not limited to birds. Humans also consume seemingly non-nutritious items that correct gastric distress after a night at a cheap bistro. Sour belly? One-half cup of milk of magnesia, please!

Squirrels don't seem to have learned how to use clay to avoid the pain of capsicums. So if they don't get the message to leave the bird feeders alone through the use of physical barriers and other restraints, we can turn to the chemical world, and play nasty tricks just like the plants have been doing for a very long time. I am not certain what Squirrel Nutkin would say in response to our having fed him something that sets his mouth on fire, but it probably would be less hurtful than when Old Brown Owl removed part of his tail.

Chuck Sontag

Professor Emeritus, UW-Manitowoc

Poisons in Plants

Red peppers (capsicums) are related to tomatoes and belong to the Solanaceae Family of plants. Also called nightshades, the family includes tomatoes, potatoes and peppers. This plant family is best known for producing the poison atropine (unrelated to capsaicin), which is very effective in paralyzing the parasympathetic nervous system. Together the sympathetic and parasympathetic nervous system control all internal organ function including GI, cardiovascular, urinary and reproductive. Needless to say, a little poison affecting this part of the nervous system will go a long way in upsetting the life of an animal. But, as deadly as atropine is, it is used in various drug formulations, including some that manage symptoms of diarrhea, and it is still used to dilate the pupil of the eye in some ophthalmic examinations.

The Living Classroom

Explore and Restore

In 2011, Woodland Dunes, along with Debbie Beyer, UW-Extension agent, the Wisconsin Maritime Museum and the city of Manitowoc completed a watershed awareness project funded through the Wisconsin Department of Natural Resources River Protection and Planning grant program. Eight signs installed throughout the cities of Manitowoc and Two Rivers highlight the importance of water quality and the threats to the rivers in our communities. Signs are located in Washington Park, Paddlers Park and Vets Park in Two Rivers and Manitow Park, Henry Schuette Park, Riverview/John Schuette Park, Burger Boat Company Park and Silver Creek Park in Manitowoc.

A new River Protection and Planning grant was awarded for 2012 to continue our series of educational events and programs giving people opportunities to learn about the ecology of our river systems and what steps they can take to help improve water quality. In the 2012 grant cycle we will also be partnering with 4-H clubs to offer field trips and special programs. Programs will be advertised in our newsletter as well as on our website and Facebook page.

Living on the largest surface freshwater system in the world, we have the responsibility to understand and take care of the rivers and lakes in our backyards. Join us this spring as we continue to explore our relationship with water.

Injured birds and animals

If you find an injured or abandoned animal, please **DO NOT** bring it to Woodland Dunes. Instead, call WOW's pager number, 323-5609, and leave your name, telephone number and address. They will return your call, most likely within 15 minutes, and either come to pick the animal up, or instruct you what to do. Woodland Dunes cannot legally accept wildlife as we do not have a license to do so.

Citizen Science



Stream Sampling

Our volunteer stream sampling (through the Water Action Volunteer program) is winding up for the year. We appreciate the help of everyone who participated. This year samples were taken monthly on the Neshota and Devil's Rivers, the West Twin River in three locations, and two locations on the East Twin and one of its tributaries. This is a very good showing. We are part of a network that now includes about 400 sampling sites throughout Wisconsin, contributing a large amount of data which can be used by scientists studying our water resources. Add to this the hundreds who sample Wisconsin's lakes for both physical and chemical parameters and also invasive species, and you can see the importance of citizen-science monitoring. Thank you to all who helped.

eBird

Share your bird sightings with us. If you visit Woodland Dunes there is an easy way to share your observations with both our staff and visitors through eBird. eBird is an online reporting system for birders either expert or casual. We are now set up to help you access that system. People young or old can either stop at our front desk to enter their bird lists into the database, or learn how to submit their own observations at home. If you do the latter, please make sure you share your bird list with us. There is an easy way to do that on eBird (our user name is woodlanddune). Recently, in a one-month period, people submitted more than three million checklists to eBird. Imagine how much information is being gathered! We are currently submitting weekly information from the area around our headquarters and Cattail Trail. Anyone can view those lists from the eBird.org website. We also plan to enter our historical bird data, and welcome any additional help or information.



Looking back: 2011

This year over 3,000 school children, over 500 adults and hundreds of families participated in Woodland Dunes environmental education programs, while thousands visited the preserve to learn and explore on their own.

Your membership and support make these opportunities possible and are integral in keeping Woodland Dunes' doors open free of charge, and admission fees for school field trips and education programs low. Thank you: your support helps us to make a difference.

Dominion Foundation Adult Education Series

Thanks to the on-going support of the Dominion Foundation, our adult learning series, The Wonder of It All, has been extended through 2012. Monthly programs will be presented by Woodland Dunes staff and other natural resource professionals from the area.

These popular programs are open to the public at no cost. They cover a variety of subjects relating to our natural environment. Please check our calendar for listings; they are indicated by the heading "The Wonder of It All." Please join us and invite your friends and family.

Thank You, Volunteers

Teacher Naturalists:

**Cottonwood Trail, Owling 101
and The Forest Around Us**

We could not do it without you.

Jennifer Balma
Geri Berkovitz
Lee Brey
Fran Brinkman
Donna Drexler
Andrew Goble
Lou Ann Gray
Jim Hess
Jim Knorr
Barb Koch
Peg Juchniewich
Betsy Blitz Kocourek
Ellen Lewellen
Dick Luchsinger
Jeannie Miller
Mary Ozarowicz
Susie Polk
Victoria Tyman
Gina Welch

Owl Fest Volunteers

*Thank you for braving the wind to
make Owl Fest a successful event*

Mary Ellen Beebe
Helen Bleser
Julie Braunel
Lee and Ed Brey
Fran Brinkman
Jon Brouchoud
Lyn Brouchoud
Don Debruyne
Dave and Renee Evans
Lou Ann Gray
Patty and Dan Gray
Kevin Haggerty



The Chickadees perform at OwlFest.

Tim Hamburg
Chris Jagodinsky
Barb Bundy-Jost
Al Kluczinske
Sue Knickelbine
Emma Knickelbine
Jim and Susan Knorr
Barb Koch
Betsy and Tom Kocourek
Barb Kussman
Donna, Kent and Amanda Langman
Sue Marquardt
Jeannie Miller
Mona Moen
Susie Polk
Jayne Purchatzke
Martha Rasmus
Mary Savage
Chuck and Marilyn Sontag
Victoria Tyman
Barb, Casey and Nick Vorrone
Rachel Welch
Julie and John Woodcock
Lucy Zeldenrust

Enchanted Forest Volunteers

Thank you for enchanting!

Jan Bennet "Organizer"
Geri Berkovitz "Bat"
Fran Brinkman "Storyteller"
Bernie Brouchoud "Bone Yard"

Lyn Brouchoud "Gift Shop Gal"
Beth Carreno "Fox"
Crosby Carreno "Trail Lighter"
Lou Ann Gray "Tree"
Marty Gregory "Fire Tender"
Al Kluczinske "Merlin"
Jim Knorr "Spider"
Susan Knorr "Vampire Kitty"
Bonnie O'Leske "Hot Chocolate Guru"
Mary Savage "Apple Bobber"
Nivedita Sharma "Fungus"
Victoria Tyman "Snake"
Susie Polk "Skunk"
Jim Welnetz "Trail Lighter"
*and a special thank you to McKinley
Academy students and the "Kohls
Cares" program volunteers for carving
pumpkins.*

Front Desk Volunteers 2011

Fran Brinkman
Lyn Brouchoud
Donna Drexler
Jenene Garey
Joan Hanson
Joy Krejarek
Dick Luchsinger
Susie Polk
April Sturz
Lucy Zeldenrust



*Beth Carreno enacts the role of Fox at
the Enchanted Forest event.*

Birds

2011: Birds Banded at the Dunes

Yellow-billed Cuckoo	1
Northern Saw-whet Owl	110
Hairy Woodpecker	1
Northern Flicker	1
Eastern Wood Pewee	1
Yellow-bellied Flycatcher	1
Least Flycatcher	2
Trail's Flycatcher	1
Black-capped Chickadee	4
House Wren	2
Ruby-crowned Kinglet	3
Gray-cheeked Thrush	6
Swainson's Thrush	13
Hermit Thrush	7
American Robin	2
Gray Catbird	17
Tennessee Warbler	3
Nashville Warbler	4
Chestnut-sided Warbler	1
Magnolia Warbler	12
Cape May Warbler	1
Yellow-rumped Warbler	3
Palm Warbler	1
Bay-breasted Warbler	1
Blackpoll Warbler	1
American Redstart	14
Ovenbird	7
Northern Waterthrush	1
Mourning Warbler	4
Common Yellowthroat	6
Northern Cardinal	6
Fox Sparrow	4
Song Sparrow	8
Lincoln's Sparrow	3
Swamp Sparrow	2
White-throated Sparrow	31
White-crowned Sparrow	8
American Goldfinch	1

38 Species 294 Individuals

Aegolius Bird Club

The Aegolius Bird Club meets at Woodland Dunes the second Tuesday of each month from September through May at 7:00 p.m. Field trips on Saturdays are taken to places rich in bird life. Membership is open to anyone interested in birds, but you need not be a member to enjoy meetings or field trips. For more information and field trip details, call John or Julie Woodcock at (920) 683-3878.

No More Bird Seed

Due to cost increases, Woodland Dunes will no longer be selling bird seed. We are sorry for any inconvenience.

Dear Woodies

From the very beginning, Merle Pickett and Sr. Julia Vanderneack have been outstanding supporters of Woodland Dunes. Merle died recently, and while Sr. Julia is still with us, she is not well.

In 1978 Merle and Sr. Julia took me on my very first birding trip. Merle gave me my first bird book and off we went to Aransas, Texas and environs. To speed us on our way, Sr. Julia suggested we all compose haikus. I remember Merle considered mine limericks—not true. I haven't counted the syllables in the haikus, but if Merle Pickett said they are haikus, they are haikus.

Here are a few poems written by these dear and wonderful women, and dare I say, one of mine.

Nicki Davis

The flick'ring campfire
Kindles a flame in my heart
That reaches upwards. *Merle*

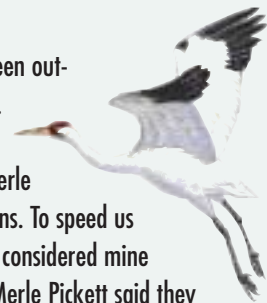
Scissor-tailed beauty!
You lift my soul toward heaven
Ecstasy untold. *Sr. Julia*

The moon rides on high
Coasting on ancient legends
On my nomad home. *Nicki*

Finally, these birders couldn't deny themselves one limerick:
Three women went south to Texas
To study birds in their nests.
When asked to explain, their peculiar vein
They sweetly replied,
"Why we mustes."

Beautiful whoopers
Feeding on Aransas flats
Oh, transport of joy. *Merle*

The spring earth is green
On this Sunday of the palms
It is a promise. *Sr. Julia*



Adopt an Owl

For \$25 you can adopt a saw-whet owl caught and banded at Woodland Dunes. Funds raised from this program support the mission of Woodland Dunes. Call the Nature Center for details.

Recent Owl Adoptions

Diane and Bill Baumann
Jason and Amanda Bavinek
Ed and JoAnn Boss
Pam Bowerman and Bob Puma
a gift from Nan Hallock
Kathy Eastling
Amy Dusick and Marian Farrior
Georgia Feldman
Ellen Fisher
Katrina Korinek
Alexia and Lance Lamont
Lowell and Linda Lamont
Wendy Lutzke
a gift from Laurie Paulin

Hope Moore
Laurie Paulin
Paula Lee Robins
Rob Tanner and Maria Sadowski
Pete Smith
Florence Spindler
Addison Terry and Autumn Terry
a gift from Gail Terry
Barbara Unger
Lynn Van Vreede
Barb and Ken Wardius
Gerald Weare
Mary and Clancy West



Kidland Dunes

A Dunesletter page for kids and kids-at-heart! By Belinda and Teresa Zoller



Woodchucks

How much wood could a woodchuck chuck if a woodchuck could chuck wood? Well, clearly, a woodchuck would chuck as much wood as a woodchuck could chuck if a woodchuck could chuck wood.

You've no doubt heard the old tongue twister before. Woodchucks (*Marmota monax*), or groundhogs, as they are also known, are small rodents and part of the marmot family. They are technically the largest species of squirrel and they consume grass, small brush and many vegetables and fruits, which can become a pain if you have a garden.

All year long, groundhogs consume as much food as they possibly can, storing fat for the winter. On February 2, dubbed Groundhog Day, if a groundhog sees his shadow, it means six more weeks of winter, and if not, winter will soon be over!

A Very Wintry Word Search

S V Y R B C S L M G S Y
 L E E K L P X C S O N W
 O Z E O S A Y A G H O N
 S A U R V X E T V D W B
 M D C N T L J A X N M P
 S Y J A F E U R C U A R
 R C V W R K R L J O N B
 F I O C Q D U A M R T D
 Z N G Y L O I Z B G J M
 S P I N E C O N E T U D
 Z D L D J F Z Q A U E H
 N E V A R G Q Z D L Z U

BARE TREES RAVEN
 CARDINAL SKY
 CLOUDS SNOW FLEAS
 GROUNDHOG SNOWMAN
 ICY
 PINE CONE

Zipporah and Eliora Zoller

Mystical Magical Ravens!

Even if you've never actually seen a raven, you probably know a lot about its reputation as a mystical, magical, and intelligent creature. Edgar Allen Poe wrote a famous poem about the raven's enigmatic cry of "nevermore." In Great Britain, there's a story that the British Kingdom will fall if the ravens desert the Tower of London. There's even a school for smart people, called "Ravenclaw," in the world of Harry Potter. But what exactly is a raven anyway? How can you tell it apart from its relative, the "cawing" crow?

Crows and ravens, although in the same genus (*Corvus*) are quite different. Ravens are as big as red-tailed hawks, soar more than crows, and have wings you can see through and a wedge-shaped tail that's apparent when they are flying. Ravens are uncommon around here, so if you see a big black bird, chances are good that it is a big crow, not a raven.

When it comes to diet, ravens are scavengers, meaning that they like decaying meat and human garbage. We may not have rotting rodents in our backyards, but you can certainly look out for ravens in places like highways, where roadkill abounds. They do also eat grains and live insects, however.

The sound a raven makes more closely resembles a throaty, grunting croak than the typical "caw" of a regular crow. However, they do have the potential to mimic other birds and even human voices.

Whether you appreciate them for their beauty, boldness, or boisterous natures, be sure to watch out for them this winter as you look up at the travelers across the silver sky.



Winter Scavenger Hunt... Try It!

We like to play in the snow and hope to build lots of mini-snow-people in the yard this winter. But whether there's snow on the ground or not, we can always do a scavenger hunt! Just make a list of things to find (or see or touch), bundle up, and head outside. You can be general ("animal tracks") or specific ("deer track"). Here are some ideas to get you started:

- | | |
|----------------|---------------|
| pine cone | nest |
| feather | insect |
| icicle | something wet |
| animal tracks | bird singing |
| winter berries | dried flower |

You can also find scavenger hunt pages to print online like this one:

<http://www.scribd.com/doc/27340229/Winter-Nature-Walk-Worksheet>

Zipporah and Eliora Zoller

Sources: *animals.nationalgeographic.com*; *Wild Wisconsin Notebook* by James Buchholz; *allabout animals.nationalgeographic.com*

Members 2011

Andercraft - Sally Kintgen
 Fawn, Rich and Courtney Abrego
 Phyllis A. Ahlborn
 Bob and Jaci Alyea
 Willard Allen
 Joyce Amato
 Amvets Post 99
 Collene Anderson
 Elma Anderson and James Aasen
 Donna M. Antonie
 Michael Arendt
 Rick and Betsy Auchter
 Al and Debbie Augustine
 Tom and Lindy Backus
 Judith A. Badura
 Bill and Barbara Bahnfleth
 Marian D. Bahr
 Rob and Margaret Bailey
 Herman Balaban
 John and Jennifer Balma
 Sylvia Barbarich
 Tom and Virginia Bare
 Scott Barner
 Richard and Nancy Bartol
 Pat Bast
 Richard and Sally Baugniet
 William and Diane Bauman
 Jason Bavinck
 Tom and Audrey Bean
 Mel and Maggie Becker-Koepp
 Harold and Fran Beckman
 Wayne and Mary Ellen Beebe
 David and Brenda Behnke Family
 Jan Bennett
 Larry and Mary Bergner
 Geri Berkovitz
 Joseph and Kathleen Bernhart
 Dr. John and Betty Best
 Joyce Beth
 Tim, Debbie and Jonathon Beyer
 Paul and Jean Biegun
 Carl, Michele and Maddie Black
 Catherine and Rosalee Bleser
 Jean Bleser-Abreu
 John Bleser
 Gary and Chris Blimel
 Grace Boeder
 Jane Boerst
 Susan D. Boettger
 Tom and April Boling
 Wayne and Lynne Bolle
 Robert and Deborah Bonk
 Mel and Edie Bose
 David Bourgeois
 Paul and Karen Bouril
 Edward B. Bouril
 Virginia Brandt
 Joseph R. Branks
 Dale and Judith Brasser
 Reggie and Kim Brault
 Kurt Breuer Family
 Ned and Janet Breuer
 Ed and Lee Brey
 Robert and Therese Brey
 John and Sharon Brey
 Fran Brinkman
 Bernie and Lyn Brouchoud
 Jon and Kandy Brouchoud
 Norbert Brouchoud

Rosie and Dorothy Bugs
 Buth Floor Covering - Gary and Nina
 Gerald and Nancy Buth
 Robin Callan
 Matt and Wendy Campbell
 Susan Carlson
 Ed Carmo
 Jack Cashman and Mary Govier
 Mike Cavanaugh
 Bill and Nancy Censky
 Jerry and Jean Censky
 Mike and Pat Chermak
 Ken Cherney
 Vernon Childs
 Patrick and Marilyn Christel
 Robert W. Christian
 Mike and Patti Ciardo
 All Ciardo and Bryan Lee
 Jana Ciardo
 Theresa Cisler
 Thomas Clark and Judy Rollin
 Phyllis Clemenson
 George and Betty Close
 Larry and Judy Corrado
 Ron and Nancy Crabb
 Shirley G. Crowley
 Susan Crowley
 John Culley
 David and Mary Ann Cunningham
 Kenneth and Catherine Daum
 Nicki Davis
 Bill and Mary Dean
 Ann Denfeld
 Wayne Denfeld
 Bob and Ellie Deubler
 Lucy DeWein
 Oscar and Sally Dick
 John E. Docter
 Donna Drexler
 Gary and Mary Drohman
 Marty and Nancy Drury
 Mary Ann Duebner
 Norval and Jean Dvorak
 Susie Eckardt
 Nathan and Terry Ehle
 Jill Ehmke-Zimmer
 Roy and Holly Engelland
 John and Kristin Epstein
 Lonnie and Lynn Erdmann
 Judy Englebert
 Greg Erickson and Suzanne Jagemann
 Richard Ertman
 Ron and Donna Feest
 Robert and Judy Ferry
 Betty Fink
 Ken and Mickey Fletcher
 Ellen Fluck
 Ken, Sandy and Tracy Folz
 Anne Fans and Kevin Smith
 Daniel and Susan Forbes
 Kenneth Foster
 Myvanwy Franz
 Thomas R. Funk
 Mark and Jeanne Gaedtk
 Jerry and Kathleen Galas
 Michal and Jenene Garey
 Glenn Gaterman
 Mary Lou Gates

Charles and Joanne Geiger
 Frederick Geisler, Sr.
 Lloyd and Appie Geraldson
 Steve and Carol Gibson
 Barbara Gilmore
 Todd, Lisa and Jacob Gilmore
 Doug Gnadl
 Laura Gomez
 Cheryl Gorsuch
 Patrick and Ann Grady
 David and Linda Gratz
 Dan and Patty Gray
 Henry and Lou Ann Gray
 Kathryn Green
 Walter and Joanna Gregorski
 Martin T. Gregory
 Ruth Griffie
 Shirley Griffen
 Dennis Grotegut
 Stephanie Grube
 William T. Gruenbaum
 Bill and Carol Gruetzmacher
 Glenn Grumann
 Dennis and Judy Gutman
 Ron, Sally and Joaquin Guynes
 Jean Haefner
 Kevin and Diane Hagerty
 Thomas and Janice Hallett
 Jim and Jane Hamann
 Tim and Chris Hamburg
 Chris and Ann Hansen
 Dr. Peter and Diane Hansen
 Jim and Sandy Hansen
 Vernon and Eunice Hansen
 Biff and Sheila Hansen
 Glen and Joan Hanson
 Charlene Hartlaub
 Dan and Connie Hassmer
 Walter Hatcher
 Shirley M. Haug
 Mary S. Haupt
 Salome Haupt
 Elmer Havlinek
 Hawkins, Ash, Baptie and Co.
 Lyle Heide
 Michael K. Heier
 Bob Heili
 Dave Heili
 Dale E. Heinen
 Robert and Joan Heinzen
 Linda Helf
 Kim Henning
 Rob and Jody Henseler
 Grace Hess
 Dean and Meghan Hessler
 Jeffrey Hildebrandt
 Ed and Helen Hintz
 Paul and Johnna Hochkammer
 Bill and Traci Hoeltke
 Matt and Tammy Hoeltke
 Jim and Mary Jo Hoftiezer
 Jim and Barb Holschbach
 Erik Hoyer
 Mark and Sally Hunner
 Linda Hunter
 Andy and Kristine Jacobson
 William and Nancy Jagemann
 Heather James

Don and Dolores Janda
 Joshua and Linda Jelinek
 Jacob and Jessica Johnsrud
 Judy Jolin
 Bob and Ruth Jome
 Dan and Peg Juchniewich
 Wolf and Betty Kannegiesser
 Dr. Barbara Karls
 Lee and Kim Kassner
 Giora and Hanna Katz
 Henry and Barbara Katz
 Kay Kaufman
 Theresa Kearney
 Kim Kettner and Connie Specht
 Don and Donna Kickland
 Bill and Mary Kiel
 Jeff and Shelly Kingan
 David and Karen Kinnamon
 Mark Klaiber
 Lewis and Beatrice Klein
 Steve and Ruth Kloss
 Ronald Klunk
 Beverly Kneebone
 Mary E. Knickelbine
 Judith Knickelbine
 Jim and Susan Knorr
 Debra Knudsen
 Barbara Koch
 Peter Koch
 Karen Koebel
 Alice Kosloski
 Lester Koeppel
 Jeff, Janet and Carey Kohn
 Rosemary Konitzer
 Bob Koenig
 Craig Kowalski
 Byron and Ramona Kowitz
 Joy C. Krejcarek
 William and Pamela Krieger
 Dale and Mary Krueger
 Jack and Marie Kubitz
 Therese Kudick
 Ken and Kathy Kuecker
 Kurtz's - Jim Christensen
 Paul and Barbara Kussman
 Tina Kvitek
 Amanda Lambert
 Tim and Susan Landers
 Dennis and Linda Larsen
 Eliot Larson
 Eugene and Katherine LeClair
 Robert and Wanda LeClair
 Tim Leigh
 Katherine Leitner
 LaMae Lemkuil
 Court and Marce Leonard
 Joan Leuck-Waak
 Geoffrey and Carla Liban
 David and Karen Loritz
 Allen and Betsy Loughead
 Friedolin Luchsinger
 Dick Luchsinger
 Nancy D. Ludwig
 Diane Lupke
 Jim Luther
 Constance Lutz
 Jim and Diane Lutz
 Margaret Lutze
 Wendy Lutze

Members 2011

Nic and Deb Lyons
 Judith MacKove
 Doris A. Magyar
 Mike, Patty and Will Maher
 Gene and Kathy Mand
 Manitowoc County Fish and Game
 Manitowoc Public Library
 Michael and Mary Maples
 Patty Marquardt
 John and Victoria Marquardt
 Ryan, Maggie and Tommy Marquardt
 Bill and Deb Marsh
 Carol Martin
 Jan Martinson
 Cory A. Masiak
 Don and Helen Massey
 Master Gardeners of Manitowoc County
 Richard and Tammy Mathewson
 Jim and Debbie McGinnis
 Donald McLean
 Dolly McNulty
 Jean McNulty-Berger
 Gerald Meister
 Mildred B. Menchal
 David Metzger
 Steve and Clara Mikkelsen
 Barbara J. Miller
 Stephen and Janette Miller
 Jim and Susie Miller
 Randall Miller
 Dan Mitchell
 Mona Moen
 Frank and Sherry Moon
 James G. Morrow, Sr.
 K. Patricia Morse
 Joretta Mountford
 Richard and Lorene Mozinski
 Shirley M. Mrotek
 Amber Mueller
 Greg Mueller
 Mary Claire and Amy Mullins
 Thomas Murphy
 Philip and Susan Murtaugh
 George E. Naidl
 Edwin J. Naidl
 Nature's Own Gardeners
 Bob and Cathy Nelson
 Jeannie M. Neuser
 Dave Nickels
 Jim and Mary Jane Nickels
 Kay Nooker
 Sheila Nysse
 Tom and Sue O'Connor
 Bonnie O'Leske
 Elizabeth Olson
 Jean M. Olson
 Modesta Olson
 Charles and Shirley Oswald
 Richard and Roberta Ott
 James Ouradnik
 Barry Pankratz
 David and Mary Ozarowicz
 Gerald and Donna Panosh
 Catherine Pape
 Terry Paulow and Patty Hayes
 Gerald E. Peck
 Jason Phelps
 Charlie Philipps
 Suzanne Pilon

Guarantors

Dr. Fred and Charlotte Aleya	Jim Dufek	Kevin Kienholz and Darcy Varona	Tim and Ann Salutz
John and Laurel Aleya	Michael and Christine Dunn	Jim and Susan Knickelbine	Lloyd Schmitt
Dr. and Mrs. Barry Bast	Dave and Judy Eskew	Tom and Betsy Kocourek	Greg Scherer and Merri Star
Helen and Don Bleser	Dave and Renee Evans	Mr. and Mrs. Armond Kueter	Edgar C. and Judith F. Stuntz
Dan Blitz	Kenneth H. Evers	Kenton and Donna Langman	Jim and Pat Szymczyk
Charles Bouril	Dr. Robert A. Gahl	Dr. John and Charlotte Larsen	Mrs. Louise Trickel
Mrs. Lois Bush	Marion H. Giesecke	Jim and Barbee Lester	Richard and Jean VanDreel
Conservation Education Inc.	Dan and Patty Gray	Don and Ellen Lewellen	Joseph and Beverly Vareka
Mrs. Nancy Dalton	Jonathon and Annette Henry	MaryAnn Neuses	Robert Vinton
Scottie Dayton and Diane Smith	Warren and Marjorie Holmes	Audrey Niquette	Robert and Jo Ann Weinert
Dr. and Mrs. Donald J. De Bruyn	Izaak Walton League	Optimist Club of Manitowoc	Steve and Gail Winter
Dr. and Mrs. Joseph DiRaimondo	Nancy and Harold Just	Ruth Perry	John and Julie Woodcock
Roger and Winnie Drape	Sue Karrmann	Tom and Jean Rees, Jr.	Lucy Zeldenrust

Guarantors are members who support Woodland Dunes annually with a donation of \$250 or more.

William and Patty Lou Pohlman
 Susan Polk
 Raymond Pollen
 Victor and Marjean Pountain
 Marjorie Pries and Paul Baker
 Norb and Rita Pritzl
 Maureen Puls
 Julia Purchatzke
 Jayne Purchatzke
 Jim and Carolyn Rabata
 Mark and Paula Radl
 Andrew and Ellen Ragatz
 Jerrel Ralph
 Bob and Shelly Randerson
 Connie Randolph
 Ed and Anita Rappe
 Jim and Martha Rasmus
 Charles Rasmussen
 Jeff Rasmussen
 Scott Rasmussen
 Vicki Rath sack
 Charlie Ratigan and Jennifer Hogan
 Tom and Judith Rauschenberger
 Evelyn Reddin-Fodden
 David and Mary Reinbold
 Roger and Janice Rezachek
 Paula Robbins
 Debra Roemer
 Mick and Joyce Rolland
 Bob Rosinsky and Ruth Williams
 Bob and Betty Rosinsky
 Tom and Susan Rusboldt
 Edith Rusboldt
 Dorr St. Claire and Andrew Herzog
 Debbie Samz
 Kayla Samz
 Gene Sandvig
 Mary Savage
 Esther Schaaf
 Jack, Charlene and Dakota Schaus
 Tony Scherer
 John and Julie Schewe
 Tom and Elizabeth Schiman
 Phillis Schippeers and Tim Maatman
 Herbert and Dorothy Schmalz
 Paul and Joan Schmid

Chuck Schnell
 Ellen Schnell
 Charles and Pauline Schroeder
 Dale and Edie Schroeder
 Kay Schroeder
 Tim and Karen Schroeder
 Lorraine Schuette
 Doug Schultz
 Rick Schultz
 Russell Schwindt
 Jerome and Shirley Scriver
 David and Gen Seefeldt
 John Sell
 Lawrence and Catherine Shallue
 Megan Sharrow
 Donald and Joyce Sheahan
 Ann Shebesta
 Roy Sheeter
 Florence Shekoski
 Diane M. Shimek
 Andrew and Stephanie Shumway
 The Siegfried Family
 Paul and Bonnie Simons
 Gerry Sisel
 The John Sisel Family
 Bennet and Alice Skatrud
 Mr. and Mrs. Richard Smith
 Roger and Cheryl Smith
 Tony Smith and Elizabeth Philips-Smith
 Dolores and Joseph Sobiech
 Joel and Susan Somerville
 Charles and Marilyn Sontag
 John and Mary Jo Stangel
 Ronda Stanzel
 Mark and Jean Stecker
 Jim and Amy Steffen
 Paul and Carol Steinbrecher
 Cathy Stevens
 Sarah Stoll
 Pauline Strohfeltd
 Marion Strzyzewski
 Doris Stueck
 Donald Swenson
 Grace Swenson-Peppard
 Conrad Swiggum
 Tapper's Bar

Florence Teatek
 Gail E. Terry
 Janice Tetzlaff
 Michael and Arlie Thee
 Jerry and Kay Thiede
 Gary Thielbar
 Bill and Joanne Thompson
 Thomas M. Tittl
 John and Cathy Torke
 Dr. Joseph and Rhonda Trader
 Richard and Barbara Tringali
 William and Candace Trochil
 Jack and Joan Troupe
 Two Rivers Kiwanis Club
 Victoria Tyman
 Tim and Pam Tyson
 Greg and Ann Unertl
 James and Debra Vandenhousten
 Lynn and Barb Vandevort
 Tom and Sandy Van Horn
 Lois Vohen
 Barbara Vorrion
 Casey and Kelly Vorrion
 Gerald and Germaine Waak
 Haley Wagner
 Tom and Paula Ward
 Darlene Waterstreet
 The Waverly - Fran and Patti
 Bill and Nan Webster
 The Eric Webster Family
 John and Gina Welch
 Donald and Darlene Wellner
 Dan and Carol Wergin
 James and Carol Westphal
 Scott and Vicki Wichlacz
 Melvin Wierzbicki
 Guy Willman
 Howard and Betty Wilsmann
 Dale B. Wiselen
 Mike S. Wolfson
 Roger Wykes
 Vance and Karen Yelmene
 George and Dorothy Zimmerman
 Bonnie Zipperer
 Eleanor Zoerb
 The Joseph Zoller Family

Thank You



The following reflect gifts, donations and memberships received through November 30, 2011.

Event Supporters

Getaway Sponsors

Food Sponsors:

American Transmission Company LLC
Charcoal Grill
Holiday Inn
The Club

Prize Sponsors:

Bob and JoAnn Weinert
Investors Community Bank

Beverage Sponsor:

Bank First National

Music Sponsors:

Green Construction
Helen and Don Bleser
MD Remodeling

Decorations Sponsors:

Associated Bank
Steffen's Auto Service

Getaway Auction Donations

A>cute Angle
Colleen Ansbaugh
Judy Badura
Margaret Bailey
Scott Barner
Helen Bleser
Dave Bourgeois
Bernie and Lyn Brouchoud
Bonnitia Budysz
Branch River Golf and Tennis
Fran Brinkman
Bug-Eyed Pete
Rosie and Dorothy Bugs
Mark Chatenka
Creative Touch
Crystal Pathway
Culver's in Manitowoc
James Dolan
Domnitz Flowers, LLC
Donna and Kent Langman
Dorothy Trembley

Dramm Corporation
Eagle Optics
Festival Foods
Fox Hills Resort
Judy Goodchild
Green Acres Lawn and Garden Center
Hartman's Town and
Country Greenhouse, Inc
Pastor Kim and Fay Henning
Traci Hoeltke
Mary Hofteizer
Inman Jewelers
Jessica and Jacob Johnsrud
Sue Karrmann
Susan and Jim Knorr
Knickelbine Family
Tom and Betsy Kocourek
Kurtz's
Kwik Trip in Two Rivers
LaDeDa Books and Beans
London Dairy Alpacas
Ellen and Don Lewellen
Manitowoc County Historical Society
Manitowoc Ice
Manitowoc Marina
Manitowoc Symphony Orchestra
Manitowoc Two Rivers YMCA
Meadow Lanes North
Meadow Lanes West
Greg Mueller
Panera Bread
Parallel 44 Winery
PDQ Car Wash
Pietroske Inc
Pine River Dairy
Posh Salon
Paula Radl
Renew Day Spa
Royal Elegance/Keep In Touch
Rick Schultz
Sew Much Wool
Subway
The Masquers, Inc
Jerry Trembley
Water Care Sales and Service
Waverly Inn Pub and Pizzeria
Wisconsin Maritime Museum
Lucy Zeldenrust

Owl Fest Sponsors

Bob and JoAnn Weinert
Browns of Two Rivers
Dave and Renee Evans
Shoreline Credit Union
Wilfert Farms

Grants

DNR River Planning Grant \$9,996
river awareness and education
Cellcom Green Gifts \$1,500
education program
Kohler Foundation \$1,000
butterfly garden enhancements
Service League of Manitowoc County, Inc. \$200
new trailhead signs

Donations

Debbie Beyer
wagon and fish finder
Festival Foods
pumpkins for Enchanted Forest
Edith Garey
bird display
Marty Gregory
kids magnifying lenses
Tom and Betsy Kocourek
glow sticks for Enchanted Forest
decorations for Getaway
Dick and Tammy Mathewson
cardstock
Bonnie O'Leske
4 jugs hot chocolate and flashlight
Aaron Petri
materials
Susie Polk
3 cloth tablecloths
Jayne Purchatzke
prizes for kids at Owlfest
Al Seidl
treated lumber
Tom Tittl
Cattail Trail sign
Carol Westphal
trash receptacle

New Members

Daniel M. Forbes
Laura Gomez
Chris and Ann Hansen
Walter Hatcher
Judy Jolin
Ron and Nancy Post
Victoria Tyman
Pam and Tim Tyson
Mel and Edie Bose
Paula Robbins
Dan Mitchell

Fund Drive Donors

Jane Boerst
Robin Callan
Jeanne and Jerry Censky
Vernon Childs
Mary and Bill Dean
Bill and Nancy Jagemann
Don and Dolores Janda
Alice Kosloski
Rick Mathewson
Jewlers Mutual Ins. Co.
Donald McLean
Esther Schaaf
Megan Sharrow
William and Candace Trochil
Lois Vohen
Gerald and Germain e (?)

Corporate Members

Trailblazer (\$1,000 and up)
Orion Energy Systems
Explorer Level (\$500-\$999)
Bank First National
Browns of Two Rivers
Fricke Printing Service
Ecologist Level (\$300-\$499)
Crafts, Inc
Conservator Level (\$151-299)
Foster Needle Co., Inc
Investor's Community Bank
KI - Manitowoc
Lakeshore Express, Inc
Lakeside Foods, Inc
Red Arrow Products Company, LLC
The Manitowoc Company, Inc
Vinton Construction
Defender Level (\$50-\$150)
Associated Bank of Manitowoc
Carron Net Company, Inc
Cawley Company
Dramm Corporation
Green Construction, LLC
Hamann Construction Co.
Heresite Protective Coatings
Ihlenfeld, Skatrud and Anderson, Inc
Jagemann Stamping Company
M.D. Remodeling, LLC
Northern Labs, Inc
Schaus Roofing and Mechanical
Schneck, SC
Twin River Turf
Wisconsin Webwriter, LLC



Jaimie Salta of Cellcom presents Jim Knickelbine with a check supporting environmental education.

Thank You

Helping the Dunes

Memorials

In memory of Joe Vareka

Ann Bengts
Don and Helen Bleser
Bernie and Lynette Brouchoud
Chris and Deborah Dorak
Dr. and Mrs. Harold Just
James and Barbara Lester
Carla Liban
Donald and Helen Massey
Pat Morse
Suzanne Neumann
Alan and Cheryl Petrashek
Tom Romoser
Florence Shekaski
Charles and Marilyn Sontag
Lorraine Sperry
James and Barbara Van Lanen
Robert and Jo Ann Weinert
Lucy Zeldenrust
Barbara and Richard Zuehl

In memory of Warren E. Holmes

Joe and Barb Backhaus
Geri Berkovitz
Dickie Bitters
Doris and Russ Bousley
Rosemarie and Dorothy Bugs
Terry and Ann Busse
David and Wendy Creagh
Ann DeWitt
Don and Cheryl Domrath
George Emme
MaryAnn and Brian Gadzinski
George Gaestl
Michael and Josephine Griesbach
Lulaine Henderson
Tom and Barb Herrmann
Bob Holmes
Adeline Holmes
Woody and Lynn Holmes
Ken and Jane Holmes
Keith Holmes and Chris
Kim Holmes (Luke and Jacob LeRoy)
David Holmes family
Allan and MaryJean Holmes
Lowell and Arita Jevens
Wayne and Nancy Kornely
Craig and Kay Kowalski
MaryJo Krueger
Bill and Bette LaRose
Greg and Shelly LaRose
Larry and Dawn Miller
Florence Moede

Eugene Ott
Barb Panosh
Marianne Quinn
Ruth and Howard Rauch
Pat and Dolly Scheuer
Michael Scheuer
John and Sue Schuh
Jerry Singer
Marge Sorensen
Terry and Mary Star (Holmes)
Sylvester Staral
Gerry and Dolly Thomley
Janice Wagner
Robert and JoAnne Weinert
Jim and Jeanette Wiesner
MaryJean Wochowski
Theresa Worachek
Edward and Virginia Wurzer
Bill and Sylvia Zahorik
Gilbert Zima
Rueben and Cheryl Zimmer

In memory of Taylor and Logan Vanserke

Geri Berkovitz
In memory of Helen Mahlek
Edwin Boettger
Susan Boettger
Ronald and Donna Feest
In memory of Claude Taddy
Don and Helen Bleser

Honorarium

In honor of Judy and Butch Bull's 50th wedding anniversary
The Butterfly Gardeners

Cash Donations

American Legion Drews Bleser Post 88
William and Diane Baumann
Lisa Boevers
Sandy and John Neuser
Western Fraternal Life Assn.

Fund Drive Donations

Enclosed is my tax deductible
Annual Fund donation.
Total Enclosed \$ _____

Make checks payable to Woodland
Dunes Nature Center and send to
Woodland Dunes
P.O. Box 486
Two Rivers, WI 54241



Gifts that Give Back

If you are looking for unique holiday gifts, shop at Woodland Dunes! We have fun gifts that give back by providing support for our organization.

Adopt-an-Owl

Adopt a saw-whet owl that was caught, banded and released at Woodland Dunes. Receive a certificate of adoption with the band number of your owl, a photo of a saw-whet owl, an information sheet, and a form for recording recaptures. \$25. Email jessicaj@woodlanddunes.org for details.

Garden Bricks and Boulders

Honor a friend or family member with a 4" x 8" brick or basketball sized boulder. Your message will be engraved and highlighted in black. Choose a brick paver (\$75) or a boulder (\$200). The brick pavers and boulders will border the paths and gardens near the Nature Center. Order forms available on our website.

Nature Shop

We have many fabulous nature-themed children's books and many adult nature guides specific to Wisconsin. Also check out our fleeces, hoodies, mugs, lapel pins and winter hats. Members get a 10% discount on all items.

Donation

Make a monetary donation in a friend or family member's name. This can be done on our website using PayPal, or give us a call.

Woodland Dunes Membership

Give the gift of membership! Individual \$25; Family \$35. Perks include:

- 10% discount in the Nature Shop
 - Discounts on most programs and events
 - Dunesletter emailed or mailed to your home
- The membership form is on our website and at the Nature Center. Memberships are good for one year.

We apologize for any errors or omissions in this issue. Please let us know, and we will print a correction in the next issue of The Dunesletter.

Woodland Dunes

Become a member!

Name _____
Address _____
City _____
State _____ Zip _____
Phone _____
Email _____

- \$25 Individual
- \$35 Family
- \$50 Patron
- \$100 Contributor

Guarantors

- \$250 Conservator
- \$500 Benefactor
- \$1,000 Steward
- \$5,000 Guardian

Please send this form and your tax-deductible donation to Woodland Dunes today.

Board of Directors

Officers

Tom Kocourek

Chairman

Don DeBruyn

Vice Chairman

Troy Christiansen

Treasurer

Lyn Brouchoud

Secretary

Board Members

Helen Bleser

Ed Brey

Robert Gahl

Jody Henseler

Susan Knorr

Donna Langman

Ellen Lewellen

Charles Sontag

Bob Weinert

John Woodcock

Lucy Zeldenrust

Headquarters

Hwy. 310 west of Two Rivers

Hours

Monday - Friday: 9 a.m. to 4 p.m.

Saturday:

Summer • 9 a.m. to noon

Winter • by appt. or for events

Hiking trails open year round

Phone (920) 793-4007

nature@woodlanddunes.org

www.woodlanddunes.org

STAFF

Executive Director: Jim Knickelbine

Assistant Director/Education Coordinator

Kelly Eskew Vorrn

Development and Marketing Coordinator

Jessica Johnsrud

Administrative Assistant: Geri Berkovitz

Environmental Educator: Bernie Brouchoud

The Dunesletter is published quarterly by Woodland Dunes
Nature Center and Preserve, Inc. ISBN 1933-8961

Susan Knorr, Editor

Nonprofit
Organization
U.S. Postage
PAID
Mantowoc, WI
54220
Permit No. 448

Woodland Dunes Nature Center
P.O. Box 486
Two Rivers, WI 54241-0486
woodlanddunes.org

RETURN SERVICE REQUESTED

