

### CONTENTS

- 2 Hall of Fame  
WSO Convention
- 3 Volunteer Spotlight  
We Are Bird-Friendly!
- 4 Thank You  
Planned Giving
- 5 Habitat Management
- 6 Summer Interns
- 7 Butterfly Garden
- 8 Bird Survey
- 9 Herbarium Collection
- 10 Events

*Nature photography by Nancy Nabak unless otherwise noted.*



### FROM THE DIRECTOR

Once again, our summer was very productive. Our intern crew was great and accomplished a lot. We conducted many programs, and made some significant improvements to our facilities. It was an excellent season.

Well, the emerald ash borer is now here in full force, and effects are being seen throughout the preserve. Actually, the beetles have been here for a while, and their cumulative effects girdling our poor ash trees are more noticeable. However, there are other species of trees in the preserve which will fill in the void left by dying ash, along with the more than 15,000 trees we've planted.

After a summer of design refinements and permit procurement, our Forget Me Not Creek restoration project off Woodland Drive will take place this fall. Titus Seilheimer and his interns from the SeaGrant program of the University of Wisconsin have been collecting extensive pre-restoration data from the current ditch that is Forget Me Not Creek. We will be very interested in comparing those observations with the data collected after the stream is re-aligned and connected to neighboring wetlands. In addition to making the stream meander again, it will also have a floodway for high-water events, and pools and riffles. About 90 large ash logs harvested at Fischer Creek Conservation Area are being used in the process.

When you visit, you'll notice that we've made some improvements this summer. Our barn has finally been painted and repaired after many years of need. Maribel Painters did a wonderful job working around Erin Labonte's awesome mural. There is a new deck by David's Pond, which can be used as a place for meditating, a place for music, or other programs. The slope there makes the spot a natural little amphitheater.

Wildlife surveys are ongoing and have been interesting. Inside is an article about our summer birds. A number of bat surveys were done and are being interpreted, and it's been a good year for finding bumblebees. The Star Butterfly & Bee Garden has been a lively

place- one day in July our staff found seven bumblebee species in about 10 minutes, including an endangered rusty-patched. Coneflower Trail, a future survey area, has been moved to the Henry wetland location and is mowed, providing opportunities for a lovely prairie walk. In the last couple of years, it has really bloomed in the fall.

I can't tell you how many family and children's programs took place over the summer- they were happening nearly every day. Wonderful to have so many children enjoying the outdoors- it's so important for them.

Looking forward to seeing everyone at heikenbrew!

~ Jim Knickelbine, Executive Director

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## Nellie Stoiber

**How long have you been volunteering at Woodland Dunes and what motivated you to get involved?** I've been proudly volunteering at Woodland Dunes for two years now. My journey began when I moved to the community as a newly retired individual. One fateful Friday morning, I joined a captivating bird walk led by the amazing Nancy Nabak. While my love for nature was always there, that walk with Nancy transformed my perspective entirely. I became intensely aware of bird migrations, the fascinating flora and fauna, and the profound impact of human nature on the world around us. Nancy asked if I'd be interested in volunteering at Woodland Dunes, and I felt incredibly honored to be part of this organization.

**What aspects of being involved with Woodland Dunes do you find most fulfilling?** Oh, where do I begin? Everything about Woodland Dunes fills my heart with joy! This incredible beauty and wonder unfolds all around us, thanks to the dedication and expertise of the staff. Their kindness and vast knowledge are unparalleled. They passionately share information on various subjects, making every interaction a treasure trove of insights.

**What are some of your favorite pastimes or hobbies?** Beyond my commitment to Woodland Dunes, spending time with my cherished family and friends is a top priority. I also find immense joy in hiking through nature's splendor, losing myself in captivating books, penning my thoughts in writing, and experimenting with new recipes in the kitchen.



**Any words of wisdom for other volunteers?** To all the fellow volunteers, I have nothing but admiration and respect. Their passion for nature and their selfless dedication are immediately evident. From the first day I visited Woodland Dunes, I was struck by the volunteers' kindness, friendliness, their embrace, and willingness to help. They were one of the main reasons I felt compelled to volunteer. I aspired to be like them and contribute to this exceptional organization. Mirroring the Woodland Dunes Staff, the volunteers are shining examples of people who motivate others to be the best version of themselves. It is truly an unmatched privilege to be part of such a tremendous team and to make a difference in the community.

## Jim Knickelbine Inducted Into the Hall of Fame

by Nancy Nabak, Communications Coordinator

Jim Knickelbine, our Jim, was inducted into the Hall of Fame and we are so proud of him. And because of his works, we now have a larger extended family.

Jim was nominated by Tom Kocourek and the Northeastern Wisconsin Great Lakes Sport Fishermen organization for his years of dedication to conservation through his personal efforts and professional leadership at Woodland Dunes.

Here's a little background on our bird-banding, flannel-wearing Jim. He first came to Woodland Dunes when he was running a soil consulting business. That's when he met Bernie Brouchoud, director at the time. He liked what Bernie was doing and what was happening here so he began volunteering. In 1993, he joined the staff as a part-time naturalist then became Assistant Director in 2003. In 2004, he was hired as the full-time Executive Director.

His years as director have been spent living out his passion and managing a two-part mission: conservation of our natural resources and educating the public about their value. Yep, he's also a

licensed bird bander and loves any time he gets the opportunity to do so. He also participates in and coordinates a number of wildlife surveys each year. Even though he's an equal opportunity nature lover, I think he enjoys the bird surveys the best.

Jim has shared his talents with others by serving on Boards for the Wisconsin Society for Ornithology, Wisconsin Bird Conservation Initiative, and Conservation Education, Inc. And truly, he's made a difference. Prior to last night's induction, he's received awards from the Izaak Walton League, Lakeshore Natural Resource Partnership, Wisconsin Society for Ornithology, and UW-Manitowoc.

During Jim's tenure at Woodland Dunes, the Preserve has grown to more than 1,500 acres, over 15,000 trees have been planted to negate the effects of the emerald ash borer, and a beautiful addition to the nature center was added with a price tag of nearly two million dollars. In keeping with Bernie's desire to educate children, Jim has continued to emphasize grade school education programs and to date, over 170,000 children have been a part of Woodland Dunes' instruction.

*Congratulations, Jim!*



William Shakespeare said, "One touch of nature makes the whole world kin." Well, in June Jim Knickelbine, Executive Director of Woodland Dunes, and his wife Sue, plus six staff members and hundreds of other local conservation-minded people became just that - kin. All were at the 21st annual Manitowoc County Conservationists Hall of Fame Banquet to honor those who have done exceptional things in the name of conservation in Manitowoc County.

**GREAT BIRDING on a GREAT LAKE**

**Wisconsin Society for Ornithology**  
Two Rivers 2024

## WSO Convention Coming to Two Rivers and Woodland Dunes!

It's finally here! The Wisconsin Society for Ornithology annual convention will be held in Two Rivers May 17, 18, and 19, 2024!

Woodland Dunes is excited to be a partner for the statewide bird celebration, which was originally planned here in May of 2020.

Convention goers will have time to hike and bird our many trails, enjoy the Nature Center, and share social time with other like-minded individuals who view this event as a birding "family reunion." An awards ceremony for conservation leaders and science-based presentations will also take place here.

Local artist and Dunes' member, Rebecca Jabs, designed the striking logo for the 2024 event.

Be watching social media posts and our calendar for more information as this exciting Convention approaches!

## We Are Bird-Friendly!

Each year, WSO holds an awards ceremony to honor those who have worked hard to help birds in the state of Wisconsin. According to their website, the Bronze Passenger Pigeon Award is presented to individuals who have made outstanding contributions in their local communities or in the state to promote the field of ornithology through conservation work or through organizational efforts. Woodland Dunes is proud to say that we currently have three Board members and staff, Chuck Sontag (2014), Jim Knickelbine (2019), and Nancy Nabak (2023) who have received this esteemed honor. We are proud and happy to be recognized as a bird-friendly organization!



Chuck, Jim and Nancy receiving their awards.

# Thank You!

Donations are recognized on a quarterly basis. If you don't see your donation on here, it missed the cutoff and will be in the next issue. Thank you.

## Memoriams/Honoriams

*In Memory of Anne Behrmann*  
Michael Pintok & Cindy Lupin

*In Memory of Catherine Bleser*  
Helen Bleser

*In Memory of Kandy Brouchoud*  
Helen Bleser

*In Memory of Rosie Bugs*

Jodi Glitteroni

Karen Koebel

Doris Magyar

Michael Pintok & Cindy Lupin

Charles & Marilyn Sontag

Darlene Waterstreet

John & Julie Woodcock

*In Memory of Margaret Greicar*  
Nancy Scheer-Jagemann

*In Memory of Dennis Grotegut*  
Cheryl Heim

David & Carole Pfaffenbach

Ric Puls

Vicki Waack

*In Memory of John Meyer*

John & Cynthia Meyer

John & Julie Woodcock

*In Memory of Clayton Moen*

Alan & Cheryl Petrashek

*In Memory of Ruth Perry*  
Nancy Hooper Horvath

Charles & Marilyn Sontag

Merritt Wilcox

Robert & Jo Ann Weinert

*In Honor of Annette Henry*

Gerald & Patricia Henry

*In Honor of Jim*

& Marilyn Wegner

Gary & Chris Blimel

## General Donations

Advocate Aurora

Cathy Dailey

Edgar & Jessica Foster

Victoria Neelis

Corrie Schroeder

SeedsnBeans

## Grants

Community Foundation  
of the Fox Valley

Friends of Mariners Trail

NextEra Energy

Point Beach

W&P Krieger

Charitable Fund

## Endowment

Dolly McNulty

## Solar Energy Project

WPPI

## Inkind Donations

Cornerstone Concrete

& Masonry

John Vosey

Molly Wrostek



## Planned Giving

# An Everlasting Love



Has Woodland Dunes been important in your life? Do you and your family have an interest in seeing our habitat managed into perpetuity? Would you like to make a lasting and permanent difference?

Planned Giving is a meaningful way to ensure that Woodland Dunes will be able to take care of its precious land and provide strong nature-based programs to the children and families of our community.

What we can accomplish with your personal commitment:

- ensure that another 100,000 children (and more) will actively learn about nature through our impactful education programs on the preserve
- continue the fight against harmful invasive species, which threaten our globally significant land every day
- help both our common and rare wildlife species thrive through the maintenance and protection of beneficial native plants, shrubs, and trees

## Opportunities:

### Memorial Gifts and Bequests

Individuals may leave a bequest to Woodland Dunes Nature Center. A bequest is a gift made through a donor's will and is completely free from federal estate tax. If you have already named Woodland Dunes Nature Center in your plans, we would like to acknowledge your meaningful gift. Please contact us.

### Endowment

Make a gift that will support Woodland Dunes and its mission in perpetuity by contributing to the endowment fund. A percentage of the interest earned each year will support the nature center and its work, keeping the principle intact. Contributing to the endowment fund is an act of great vision, as you will leave a legacy to ensure Woodland Dunes serves the community for future generations.

### Donating Stocks and Bonds

Individuals may avoid paying capital gains taxes by donating stocks and bonds to Woodland Dunes Nature Center. Donors are entitled to a charitable income tax reduction equal to the full market value of the stock.

### Life Income Agreement

A life income agreement allows you to make a substantial capital gift to Woodland Dunes Nature Center, while retaining your income for your lifetime and/or that of additional beneficiaries.

For more information regarding any of the opportunities outlined above, please contact our Executive Director, Jim Knickelbine at: nature@woodlanddunes.org or by phone: (920) 793-4007.

*You will be among the many compassionate friends who have a long-term vision of keeping Woodland Dunes an important and special place.*

## Habitat Management

By Sue Crowley, Land Manager

### Trails and Boardwalks

Our interns improved the walkability of Black Cherry and Trillium Trails as they spent time brushing them out and treating a few invasive plants-such as honeysuckle and Japanese barberry along the way. This will greatly improve your hiking experience.

Grace Congregational United Church of Christ (GCUCC) Appalachian Service Project (ASP) volunteers helped build and install a board walk section out on Willow Trail. Hikers and Dunes' staff can now safely and easily traverse this area on foot and with our trail mowing equipment. A huge thank you to GCUCC ASP volunteers!

### Invasive Plant Species Control

Our interns worked on controlling invasive honeysuckle plants. They have made excellent progress. Their focus area is near the southern

most Trillium and Ice Age Trails intersection. You may recall last winter much of the area was mulched by our contractor Stantec. Our interns are treating the re-sprouts from this with herbicide using the cut stump method. In addition, our interns and naturalist are helping near Mariner's Trail. They have cut and treated quite a few large honeysuckle plants. Their effort is supported by a donation, and it will help reduce the invasive plants near the trail while also preserving a wonderful view of Lake Michigan.

We'll be setting up a schedule to conduct invasive control into the fall season. If you are interested in helping, please visit our website woodlanddunes.org and click on the volunteer tab. Please fill out the form with your interests and contact information. We would love to see you out here!

### Tree, Shrub, and Spring Ephemeral Plantings... Oh My!

What a great year to plant trees and shrubs! We took advantage of this very dry summer to plant 2,500 hundred trees and shrubs in our swales.

With the dry conditions, our interns were able to plant where it is often under water. Because we're planting species accustomed to wet areas, these trees and shrubs will do well even when the swales become full of water again. This project is funded by a US Forest Service grant. Volunteers planted another 400 trees/ shrubs located in the Willow Trail and Goldenrod Loop area. The trees/shrubs and the plant protection cages were funded by a Sustain Our Great Lakes- National Fish and Wildlife Foundation (NFWF) grant to improve habitat near our MOTUS bird tracking antennae on the Center. One hundred hours of volunteer time made this planting possible. Huge thank you to all the groups and individuals that contributed. Lastly, our interns also helped plant herbaceous plants at the edge of the forest to help support the rusty patched bumblebee who lives on forest-prairie edges. A grant from the Packers Foundation covered the purchase of these plants from Stone Silo Prairie in De Pere, WI.

# MEET OUR SUMMER INTERNS



Sitting left to right: Megan Raddatz, Kellsey Grange  
Back: Davin Dahl, Julia Beckner, Ariana Zimney, Max Kornetzke, Ben Schiltz

**Julia Beckner** Being an intern at Woodland Dunes has been a great experience. The main job for the interns is planting trees, but we also have helped with invasive species removal and general upkeep around the Nature Center. It is very rewarding work, and tallying the trees to see how close we are to our planting goal is really motivating. I have enjoyed participating in the various nature walks and a bird-watching paddle. We also all got to witness the banding of a Red-shouldered hawk, which was really cool to be a part of. Leaving St. Louis was a big change, but it has been well worth it. I have just recently graduated from Southern Illinois University - Carbondale with a Bachelor's in Zoology and minor in art. This internship is a great opportunity to have before either graduate school or a different job.

**Davin Dahl** Being a land management intern at Woodland Dunes has been full of great and new experiences. Many days have been spent planting trees in the ridges and swales of the State Natural Area to mitigate the effects of the emerald Ash Borer. I have also learned a lot about the native and invasive species that occupy the unique environment of Woodland Dunes. The other interns and I also got the opportunity to go on a couple bird hikes and paddles, which helped me learn how to identify different bird species by their call. We have also gone on plant walks, identifying different plant species along the way. Originally from Minneapolis, I now attend UW-Platteville as a Reclamation, Environment, and Conservation major. The experiences and skills learned during this internship will be beneficial in the rest of my education and beyond.

**Kellsey Grange** As someone who solely wants a career outside and interacting with nature, this land management internship has truly satisfied my needs. Here at Woodland Dunes, my day consists of eight hours of exclusive outdoor activity. From planting trees to bird surveys, this internship has reaffirmed my passion for natural resources. Having recently graduated from Northern Michigan University with my Fisheries and Wildlife Management degree, this summer here has allowed me to explore my options in natural resources. It has been an honor to learn more about the local flora and fauna from the staff here as well as my co-interns. During the day I get to challenge my identification skills as I explore this preserve. However, for me, the best part of this internship is the satisfying exhaustion that comes at the end of the day. Helping this beautiful and unique landscape is extremely rewarding and I'm happy to be a part of it.

**Max Kornetzke** Growing up in Kiel, Wisconsin and then studying painting and printmaking at UW- Madison were great and formative experiences, but it wasn't until 2020 that I began to look more closely at the natural world around me. Since 2020, I have become enamored with native plants and their ecosystems. As a result, I feel much more connected to earth and community. This year I was lucky enough to be a part of a great cohort of land management interns at Woodland Dunes. As we planted thousands of trees to help ensure diversity among ash stands, I realized my favorite aspect of the internship has been all around me - observing and learning about the diverse floral composition in the swales and ridges. Each week brings new blooms to marvel at. I also appreciate the valuable opportunities to do bee surveys, assist in educational programs, as well as build other land management skills with like-minded folks who are passionate about preserving and enhancing habitat. I'm excited to continue learning how to be a better steward of the land around us, and because of this internship, I will continue seeking out opportunities in land management and restoration.

**Megan Raddatz** I am from New Berlin, Wisconsin and have spent most of my summers camping in northern Wisconsin. I had never traveled east toward the Two Rivers area until I was moving in to start my habitat restoration internship here at Woodland Dunes. I was so excited when I was driving through the area and saw acres of farms surrounding me- this is the dream, I thought to myself. Since I have worked here, I have enjoyed being able to learn so much about birds. As a soon-to-be senior studying Ecosystem Restoration and Management at the University of Wisconsin Stevens Point, I was a little bummed out that I would not be able to take an ornithology class since it would not fit into my schedule. Luckily, I get to learn the basics of common birds in the area with experienced birders, which helps me get that desired bird knowledge that I am unable to get at school. One of my favorite activities that we have taken part in was the banding of the Red-shouldered hawk. Though I did not band the bird myself, I got to watch an expert do it and then hold the young hawk myself! I cannot wait to see what other great adventures await me here.

**Ben Schiltz** Spending the summer as a Land Management Intern at Woodland Dunes Nature Center and Preserve has been a very memorable and unique experience. It is very rewarding to know your job has a direct impact on the health and wellbeing of the forest. Throughout my time at Woodland Dunes, I have enjoyed admiring the many wildlife that the wetlands attract, as well as the unique plants that can be found at the preserve. Memorable experiences like the pollinator surveys and bird bandings are great reminders as to why I was interested in the field of natural resources to begin with. Although I am originally from Oshkosh, WI, my interest in forest ecology prompted me to begin my education at Fox Valley Technical College, graduating in the Spring of 2023 as a Natural Resource Technician. Previous seasonal positions, as well as being an intern at Woodland Dunes, has solidified my desire to continue schooling at UW-Stevens Point, majoring in Ecosystem Restoration and Management. I am very grateful for the many experiences and opportunities Woodland Dunes has provided me with this summer.

**Ariana Zimney** I just couldn't stay away! I am back for my third year at Woodland Dunes and couldn't be happier to work with the best staff in the world! I've been so lucky to grow up in Two Rivers and have Woodland Dunes so close to my whole life. Having attended programs when I was younger, it's wonderful to be on the flip side of it now! This summer, I am working as the environmental education intern and so far, it's been a joy to watch groups of kids (and even some adults) stand in awe at what we have found or heard around us. Planning educational programs has been a blast; from pond dipping for macroinvertebrates, Leave No Trace principles, how animals have superpowers, and teaching kids about pollinators - I have loved every second of it! This year, I will be a senior at Northern Michigan University studying Environmental Science with a Natural Resources concentration. Everything I have learned at the Dunes has been monumental in allowing me to explore new avenues for my future careers and passions. Woodland Dunes has given me so much over the years and I am forever grateful for the amazing people I have met, the crazy opportunities I've been able to be part of, and the endless knowledge I have been taught!



## The Butterfly & Bee Garden

### Bee Diversity Is Excellent this Summer in the Garden

The Dorothy R. Star Butterfly and Bee Garden is in full bloom as I write this article. A walk along the paved paths or onto the grassy lawn and around the water feature will awaken your ears to the hum of many bees!

Recently, some staff and volunteers observed the bee population in the garden together. At that time, they were able to identify the following species: tri-colored, rusty patched, half black, black and gold, brown belted, common eastern, and maybe one of the cuckoos. This rich diversity of bees gives us confidence that the native flowers found in the garden are indeed important to our population of buzzing friends. I have noticed that the spiked speedwell, hoary vervain, and lavender are especially full of pollinators.

At a time when we hear of so many insect species becoming fewer in number, it is gratifying to know that here at Woodland Dunes in our native garden, we are providing important habitat!

— Wendy Lutzke, Butterfly & Bee Garden Coordinator



## Summer 2023 Bird Surveys At the Dunes

By Jim Knickelbine

Since the mid-1960's, summer bird surveys have been conducted at Woodland Dunes. The nature center wasn't founded until 1974, but Bernie Brouchoud had a dream that the Preserve would someday happen, and he decided to start documenting birds before its inception. He knew the area he would propose for this wildlife sanctuary, and he laid out survey routes on land we didn't yet own. The early routes were very comprehensive, winding their way through what is now our Preserve and beyond. Bernie, John Woodcock, and others would document and map the location of every bird seen and heard and every other animal they saw.

As workloads increased after the founding of the organization, we modified our methods, including a combination of routes and about 30 points where observers watch and listen for 10 minutes, documenting all birds heard and seen. Mostly heard, as in summer leaves often conceal birds. Because in most years we find a hundred or so species here during nesting season, it's a challenge to learn the calls of all birds that might be encountered. Many of them we only hear a few times a year with ten months between encounters, but now there are more and more electronic aids to help decipher them.

Bernie often talked about the number of bird species and individuals found here (the reason Woodland Dunes was founded), and typically he noted about 110 species and 2-3,000 individuals. Using more point count data, we still record about 100 species a year, this year the total being 100. As far as numbers of birds, we counted about 1,200, but we make no claims as to being able to count every single bird. The fact that we still find 100 or so species after 60 years seems to indicate that our habitat is fairly stable. We are sorry that we no longer have certain species, like Upland sandpipers, but are happy to still find Henslow's and White-throated sparrows here. The latter being a northern bird, I always wonder if we will someday lose them as a nesting bird as the climate warms. We are so lucky to have Lake Michigan nearby to moderate our world in the summer.

The following is a list of birds found this summer by staff and volunteer help from Joel Trick. If you've seen additional species here, please let us know. We can't be sure that these all nested here, but they are here at the right time of year, in the right habitats, and it's certainly possible.

Acadian Flycatcher  
Alder Flycatcher  
American Crow  
American Goldfinch  
American Kestrel  
American Redstart  
American Robin  
American White Pelican  
Bald Eagle  
Baltimore oriole  
Barn Swallow  
Black-billed Cuckoo  
Black-capped Chickadee  
Black-crowned night heron  
Black-throated Green Warbler  
Blue Jay  
Blue-gray Gnatcatcher  
Blue-winged Teal  
Blue-winged Warbler  
Bobolink  
Brown Creeper  
Brown-headed Cowbird  
Canada Goose  
Canada Warbler  
Caspian Tern  
Cedar Waxwing  
Chestnut-sided Warbler  
Chimney Swift  
Chipping Sparrow  
Clay-colored Sparrow  
Cliff swallow  
Common Grackle  
Common Yellowthroat  
Dickcissel  
Downy Woodpecker  
Eastern Bluebird  
Eastern Meadowlark  
Eastern Phoebe  
Eastern Towhee  
Eastern Wood-Pewee  
European Starling  
European Starling  
Grasshopper Sparrow  
Gray Catbird  
Great Blue Heron  
Great Crested Flycatcher  
Great egret  
Green Heron  
Hairy Woodpecker  
Henslows sparrow

Herring gull  
House Finch  
House Sparrow  
House Wren  
Indigo Bunting  
Kentucky Warbler  
Killdeer  
Least Bittern  
Mallard  
Marsh Wren  
Mourning Dove  
Mourning Warbler  
Northern Cardinal  
Northern Flicker  
Northern Waterthrush  
Osprey  
Ovenbird  
Pileated Woodpecker  
Pine Warbler  
Purple Martin  
Red-bellied Woodpecker  
Red-breasted Nuthatch  
Red-eyed Vireo  
Red-shouldered Hawk  
Red-tailed hawk  
Red-winged Blackbird  
Ring-billed gull  
Rock Pigeon (Feral Pigeon)  
Rose-breasted Grosbeak  
Ruby-throated Hummingbird  
Sandhill Crane  
Savannah Sparrow  
Scarlet Tanager  
Sedge Wren  
Song Sparrow  
sora  
Spotted Sandpiper  
Swamp Sparrow  
Tree Swallow  
Turkey Vulture  
Veery  
Virginia Rail  
White-breasted Nuthatch  
White-throated Sparrow  
Willow Flycatcher  
Wilson's Phalarope  
Winter Wren  
Wood Duck  
Wood thrush  
Yellow Warbler

## Stories from The Herbarium: Elzada Clover

(September 12, 1897- November 2, 1980)

By Kennedy Zittel, Naturalist

Elzada Clover was born in Auburn, Nebraska in 1897. Clover graduated from Nebraska State Teacher's College in 1930, received her master's degree (1932), Ph.D. (1935) from the University of Ann Arbor, then went on to become a botany instructor and assistant curator of the botanical gardens. In 1960 she became a botany professor at the University of Michigan.

One of Clover's greatest accomplishments was being the very first botanist to catalog plants in the Grand Canyon along the Colorado River, while simultaneously becoming the first woman to raft the entire length of the canyon... and survive.

At this time, boating the Grand Canyon was a very rare event. Few men had attempted to do so, and even fewer were successful at it. The only woman to have tried did not survive her attempt. When asked about this, Clover responded, "Just because the only woman who ever attempted this trip was drowned is no reason women have any more to fear than men." Many people proclaimed



that Clover's mission was doomed to fail - the rapids and boulders gave it the title of being one of the most dangerous rivers in the world. Clover was determined to catalog plants along it, regardless of the danger she may face.

Clover talked with pioneering Colorado River boatman, Norman Nevills, and he agreed to captain the trip. Norman and his father constructed three custom boats for the journey, the *Wen*, the *Botany*, and the *Mexican Hat*. The trip began in 1938, traveling from Green River, Utah through the canyon to Lake Mead. The trip lasted 43 days, and covered more than 600 miles.

As they traveled along the river, Clover and Lois Jotter (female grad student) made detailed plant lists, notes on plant zones, and collected plant specimens. Their expedition was a success! Not only had they made it down the entire length of the canyon and survived, but Clover and Jotter were able to create the only plant species list of the Grand Canyon before the Glen Canyon Dam was constructed. Their findings were published in an issue of *American Midland Naturalist* (1944).

Afterward, Clover conducted several more expeditions across the US, collecting even more plant specimens, some of which ended up in our herbarium collection.

Elzada Clover and her team faced some of the most dangerous boating conditions of their time, but their plant lists have been critical for modern day restoration efforts to restore the river's ecosystem. In fact, in 1980 Lois Jotter returned to the canyon for an expedition to study the environmental change caused by the Glen Canyon Dam. Using her and Clover's original plant lists, the new team made a plan for restoring native species that were destroyed due to the construction of the dam.

Clover's determination in the face of danger created the story of a lifetime, while also furthering the field of botany.

Photo: Dr. Elzada Clover sitting in the boat the *Wen* (1938)



Registration is required for **all** programs. Please note deadlines and program location. To register, email Jess at [jessicaj@woodlanddunes.org](mailto:jessicaj@woodlanddunes.org) or call 793-4007

## Fall Star Parties



**Saturday, September 9th 8:30-9:30pm**  
**Saturday, October 14th 7:30-8:30pm**  
**Saturday, November 11th 7:00-8:00pm**

View night sky constellations with astronomers Al and Ben, along with the moon and other celestial objects through the big telescope in the Sky Shed. Bring your own telescope if you need help figuring out how to set it up. Weather and sky conditions permitting. Program takes place outside the Nature Center. Registration required by the Thursday before each session. Sponsored by The Winston Group and Next Era.

## Raising a Wild Child Preschool Program

**Thursday, September 14th: Spiders**  
**Thursday, October 12th: Fall Leaves**  
**Thursday, November 9th: Nature's Textures**  
**Session 1: 9:00-10:15am**  
**Session 2: 10:45am-Noon**  
**Members: \$2/child**  
**Non-members: \$3/child**

Experience the wonders of nature with your 2-5 year old through nature hikes, play and guided activities. Help your child notice the natural world and ignite their curiosity! Children

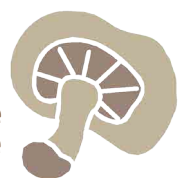
must be accompanied by an adult. Dress for the weather. Registration required by the Monday before each session, space is limited in each session. Sponsored by the Edward Jones Office of Carla Liban.



## Our Life with Fungi

**Saturday, September 16th**  
**9:00-9:30 mycology & nature book sale on site through Paper Crane Bookstore**  
**9:30-11:00am**

Join Lisa Grubisha, Associate Professor of Biology at UW-Green Bay for a short, introductory presentation that will cover mushroom identification basics, ecology and interactions with humans. Then take a 30-45-minute walk on a trail to observe mushrooms in nature and discuss important identification features and ecological functions (we will not be foraging). This is generally a slow-paced walk as we look at the ground a lot. Registration required by Wednesday, September 13th. Sponsored by The Winston Group and Next Era.



## Willow Trail Expedition

**Wednesday, September 20th**  
**2:00pm**

Join Woodland Dunes staff on an approximately 2-mile hike on Willow Trail to Horsetail Loop. Learn about the trail's history, habitat, and see one of the largest trees in Manitowoc County... a giant cottonwood tree! Space is limited, registration required by Friday September 15th. Sponsored by The Winston Group and Next Era.



## Partial Solar Eclipse Viewing

**Saturday, October 14th**  
**10:30am-1:30pm**

A partial solar eclipse occurs when the moon passes between the sun and the earth, blocking part of the sun. Safely view this interesting event with astronomers Al and Ben. Weather and sky conditions permitting. Registration encouraged by Friday, October 13th, but walk-ins welcome. Sponsored by The Winston Group and Next Era.



## Fall Walk at Ravine Park Preserve

**Wednesday, October 18th**  
**2:00pm**

Explore Ravine Park Preserve, a wildlife area owned by Woodland Dunes and located just west of Manitowoc. Walk through several habitats including old field, prairie restoration and mature hardwood forest with our staff. Be prepared for some uneven terrain. Registration required by Mon, October 16th, space is limited. Sponsored by The Winston Group and Next Era.

## Tracking the Phantoms at Woodland Dunes

**Thursday, November 16th**  
**1:00-2:00pm**

Join Red-shouldered hawk researcher, John Jacobs, to learn about this state threatened species. Using solar powered transmitters, Jacobs was able to track the hawks' movements in nesting territories, as well as their fall migration to wintering areas and back again in spring. This program will highlight the Red-shouldered hawks nesting at Woodland Dunes. Registration required by Tuesday, November 14th. Sponsored by the Winston Group and Next Era Point Beach.



## Black Ash Basket Presentation and Demonstration

**Saturday, November 18th**  
**10:00am-Noon**  
**Members: \$10**  
**Non-members: \$15**

Join Liandra Skenandore as she shares about the black ash basket process and the Haudenosaunee traditions and histories of black ash basket weaving. This traditional basket making process is uniquely practiced by tribes belonging to the northeastern/Great Lakes regions of the United States and eastern parts of Canada. Black ash is a swamp tree that is native and formerly abundant to these areas, but the advancing threat of the emerald ash borer (EAB) risks the future of black ash weaving and black ash culture for tribes. A log pounding and ash splint splitting demonstration will be done where audience members can participate in the intricate process of attaining ash splint weaving material. There will be a slideshow presentation about the material preparation and weaving process with photos of finished baskets. There will also be various black ash baskets to interact with in-person and a basket-in-progress that audience members can try weaving on. Registration and pre-payment preferred by Thursday, November 11th.

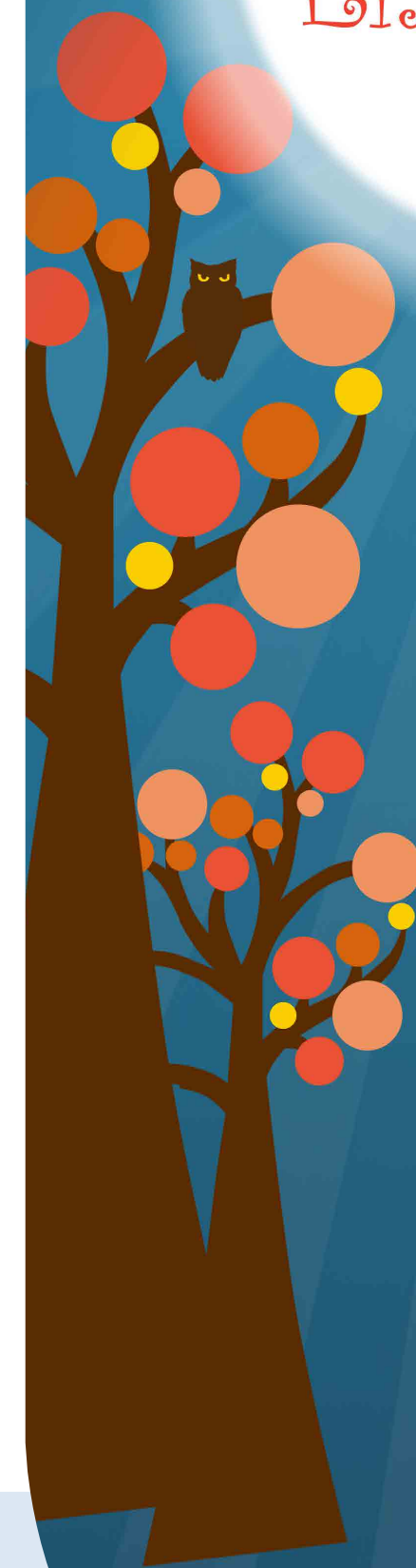
Liandra Skenandore is an enrolled citizen of the Oneida Nation of Wisconsin and also belongs to the Prairie Band Potawatomi Nation, Muscogee Creek Nation, and Seminole Nation of Oklahoma. She apprenticed as a black ash basket weaver under renowned black ash basket maker April Stone (Bad River Band of Lake Superior Ojibwe) through the 2020 Mentor Artist Fellowship Program with the Native Arts and Cultures Foundation. Liandra continues to practice black ash basket weaving and now enjoys sharing and teaching the craft with various communities. She lives in Oneida, Wisconsin.

# The Enchanted Forest

**Saturday, October 7th**  
**4:30-7:30pm**

**Members: \$5/person**  
**Non-Members: \$6/person**  
**Children 3 and under, free**

Journey along a candlelit trail and meet some of Mother Nature's misunderstood (costumed) animals and learn why they are important in nature. This is an educational evening, not a scary one. Non-scary costumes and warm clothes are encouraged. Registration required and opens September 18th. Space is limited, groups sizes are kept small. Timeslots start at 4:30pm and are offered every 10 minutes. Call or email early to reserve a timeslot as this event sells out!





PO Box 486 | Two Rivers, WI 54241-0486

## WOODLAND DUNES NATURE CENTER

*Become a member or give a gift membership!*

### Headquarters & Nature Shop

Hwy 310 West of Two Rivers

#### Hours

Monday - Friday: 9 am - 4 pm  
Saturday: 9 am - 12 pm (April - October)

#### Contact

Phone: (920) 793-4007

Email: [nature@woodlanddunes.org](mailto:nature@woodlanddunes.org)

Website: [www.woodlanddunes.org](http://www.woodlanddunes.org)

Facebook: Look up Woodland Dunes in Two Rivers, WI and like our page!

#### Staff

<i>Executive Director</i>	Jim Knickelbine
<i>Assistant Director/ Education Coordinator</i>	Jess Johnsrud
<i>Communications &amp; Development Coordinator</i>	Nancy Nabak
<i>Land Manager</i>	Sue Crowley
<i>Naturalist</i>	Kennedy Zittel
<i>Administrative Assistant</i>	Jenifer Thompson
<i>Environmental Educator/ Butterfly Garden Coordinator</i>	Wendy Lutzke

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- |                                |             |
|--------------------------------|-------------|
| <input type="checkbox"/> \$25  | Individual  |
| <input type="checkbox"/> \$35  | Family      |
| <input type="checkbox"/> \$50  | Patron      |
| <input type="checkbox"/> \$100 | Contributor |

- |                                  |             |  |
|----------------------------------|-------------|--|
| <input type="checkbox"/> \$250   | Conservator | <input type="checkbox"/> I would like to |
| <input type="checkbox"/> \$500   | Benefactor  | contribute to the                        |
| <input type="checkbox"/> \$1,000 | Steward     | endowment fund.                          |
| <input type="checkbox"/> \$5,000 | Guardian    | Please contact me.                       |

Please send this form and your tax-deductable membership to Woodland Dunes!