



# Preserve!

FRIENDS OF THE LAKESHORE NATURE PRESERVE

SPRING 2017

## KEYNOTE SPEAKER AT THE ANNUAL MEETING

### Investigating the future of the Yahara watershed

By Steve Carpenter

Ecologist Steve Carpenter is this year's keynote speaker at our annual meeting. The following article gives a brief overview of his talk—join us at the annual meeting to hear the full story.

**Yahara 2070** (Yahara2070.org) is an experiment to understand the future of the Yahara watershed, 359 square miles of land that drain into Madison's five lakes. Future changes in the watershed are unpredictable because they depend on complex biophysical changes as well as human volition.

Yahara 2070 uses scenarios to organize thinking about possible future outcomes for the watershed. The process began with public input to discuss hopes, fears, and beliefs about the region's resilience and vulnerability during the next two human generations (2010 to 2070). This information was condensed into four alternative pathways, or scenarios, presented as stories, art, and computer models. Each pathway stems from different choices about governance, land use, technology, and lifestyle.

The findings show important trade-offs among agricultural production, groundwater and surface water



Jeff Miller / University of Wisconsin–Madison

*How might future changes to the Yahara watershed affect your children and grandchildren? Join us for a discussion of four possible scenarios.*

quality, flood risk, and natural vegetation. Different policy choices lead to different packages of benefits, risks, and losses. The audience is invited to discuss the pros and cons of these choices for the Yahara and their outcomes for our children and grandchildren.

*Steve Carpenter, an ecologist in the Department of Zoology, studies lake water quality and fisheries and directs the Center for Limnology at the University of Wisconsin–Madison. Steve is a member of the U.S. National Academy of Sciences and on the Board of Directors of the Stockholm Resilience Centre.*

## ANNUAL MEETING

**Tuesday, April 4, 2017**  
at the  
**Arboretum Visitor Center**

The meeting begins at 7:00 p.m.  
Join us at 6:30 p.m. for light refreshments and socializing.

Our guest speaker, Steve Carpenter, will speak about the future of the Yahara watershed.

The public is welcome.  
Please bring a friend.


 spring/summer 2017  
**FIELD TRIPS**

## March

- 9 Evening Owl Prowl** (*Thursday, 6:30–9:00 p.m.*) Enjoy the nighttime woods on Picnic Point. Great horned and barred owls are regularly seen in this area; if we're lucky, we may also spot screech owls. We will have binoculars for loan. Meet at Lot 129 at the entrance to Picnic Point, and bring a headlamp or flashlight if you like. This trip is limited to 20 people, and usually fills very quickly—registration is required! Please contact Carolyn to reserve your spot. Leaders: Carolyn and BJ Byers, carolyn.byers@madisonaudubon.org
- 11 Evening Owl Prowl** (*Saturday, 6:30–9:00 p.m.*) See March 9 listing for details.
- 26 Birding and Nature Walk** (*Sunday, 1:30–3:00 p.m.*) See box.



Arlene Koziol


### 4<sup>th</sup> SUNDAYS— Bird and nature walk

(1:30–3:00 p.m.). Bring your binoculars and camera and explore the varied ecosystems and wildlife of the Preserve on a walk with Master Naturalist Paul Noeldner. Meet at the Picnic Point parking lot at 2002 University Bay Drive. See the website for more details. Leader: Paul Noeldner, 698-0104, paul\_noeldner@hotmail.com.

## April

- 2 Exploration Stations at Picnic Point, UW Science Expeditions** (*Sunday, 2:00–3:30 p.m.*) Learn the natural and cultural history of Picnic Point. Stop at our four exploration stations to learn from experts about geology, effigy mounds, and trees. We'll also have binoculars and a spotting scope available. At each station, children can engage in related activities. Gather at the entrance to Picnic Point, near the stone wall. For more information about Science Expeditions, see <http://www.science.wisc.edu/events-science-expeditions.htm>
- 20 Beyond Backyard Birding** (*Thursday, 6:30–9:30 p.m.*) These trips are especially for backyard birders looking to grow their skills. Come to have your bird questions answered and get help identifying all of those small brown birds as we visit both prairie and woodland habitat. Meet in Lot 129 at the base of Picnic Point. The walk will be on even trails at a leisurely pace, so bring the whole family. We will have binoculars for loan. This trip is limited to 20 people—registration is required. Please contact Carolyn to reserve your spot. Leaders: Carolyn and BJ Byers, carolyn.byers@madisonaudubon.org
- 23 Birding and Nature Walk** (*Sunday, 1:30–3:00 p.m.*) See box.
- 28 Beyond Backyard Birding** (*Friday, 6:00–9:00 p.m.*) See April 20 listing for details.
- 30 Fruitschi Point Spring Wildflower Walk** (*Sunday, 10:00 a.m.–noon*) Explore Fruitschi Point and adjacent areas for spring ephemerals and other tender new growth. Identify wood phlox, violet, bloodroot, and more. This is a family-friendly hike. Meet at Fruitschi Point parking lot. Leader: Glenda Denniston, 231-1530, denniston@wisc.edu.

## May

- 
- 2,3 Wildlife Action Photography Workshop** (*Tuesday, 9:30–11:30 a.m.; Wednesday, 6:30–8:30 a.m.*) Local nature photographer Arlene Koziol puts on an outdoor workshop to get you started taking wildlife action photography. This is a two-part class and you must attend both sessions. The group will meet at Vilas Zoo on Tuesday and at the Willow Creek Bridge on Wednesday. Registration is limited to 6 people; contact Arlene to reserve your spot. Requires working knowledge of camera, minimum 300mm lens, and burst mode. Leader: Arlene Koziol, 847-525-4405, arlenekoziol@mac.com
- 10 Warblers of Fruitschi Point** (*Wednesday, 7:30–9:30 a.m.*) We will focus on seeing warblers through the leafy foliage and will look for other spring migrants. Bring binoculars and a field guide if you have them. Meet at the Fruitschi Point parking lot on Lake Mendota Drive. Leader: Roma Lenehan, 238-5406, rlenehan@charter.net
- 28 Birding and Nature Walk** (*Sunday, 1:30–3:00 p.m.*) See box.

## June

- 13 Lake Mendota Boat Trip** (*Tuesday, 9:00–11:30 a.m.; weather date: Thursday, June 15*) Learn about Lake Mendota and the shoreline of the Lakeshore Nature Preserve from a different perspective aboard LIMNOS, the research vessel operated by the UW Center for Limnology. Group size is limited to 12; contact John to reserve your spot. Meet at Hasler Limnology Laboratory one block west of Memorial Union. Leader: John Magnuson, john.magnuson@wisc.edu
- 25 Birding and Nature Walk** (*Sunday, 1:30–3:00 p.m.*) See box.



Arlene Koziol

## Field trips, *continued*

### July

**8 Restoration Ecology in the Eagle Heights Woods** (*Saturday, 9:00–11:00 a.m.*) Get a behind-the-scenes look at efforts to restore the biological health of this oak forest and woodlands. This project has been funded by the Friends. Park along Wood Lane and meet at the Shady Lane trailhead. Leader: Adam Gundlach, 220-3482, adam.gundlach@wisc.edu

**16 Native Pollinators in the Preserve** (*Sunday, 9:00–11:00 a.m.*) Join us in searching for bees and other pollinators in the Preserve while learning about diversity, lifestyles, and the importance of these wonderful insects. Meet at the Picnic Point parking lot. Leader: Susan Carpenter, 886-7504, susan.carpenter@wisc.edu

**23 Birding and Nature Walk** (*Sunday, 1:30–3:00 p.m.*). See box.

### August

**5 Pretty Things with Wings** (*Saturday, 10:00 a.m.–noon*). Join in a search for butterflies, dragonflies, and an occasional bird. Bring your binoculars. Co-sponsored with the Madison Audubon Society and the Southern Wisconsin Butterfly Association. Meet at the Picnic Point parking lot. Leader: Edgar Spalding, 265-5294, spalding@wisc.edu

**27 Birding and Nature Walk** (*Sunday, 1:30–3:00 p.m.*). See box.

## Citizen science opportunities

Help us collect critical data on birds and bats. Join nationwide citizen research teams at the local level—learn and contribute here in the Preserve.

■ **Bluebird trail.** Receive training to participate in collecting and recording data for this 15-box trail around the Biocore Prairie. Contact Paul Noeldner, paul\_noeldner@hotmail.com

■ **Purple martin house.** New project intended to attract these interesting birds to the Preserve and study them. Contact Gisela Kutzbach, gisela.kutzbach@wisc.edu.

■ **Bat project.** Learn to use a GPS-linked echolocation monitoring device, administered by the Wisconsin DNR. Contact Kennedy Gilchrist, kennedy.gilchrist@wisc.edu.



Using a monitoring protocol developed by Friends member Suzy Will-Wolf, senior botanist at UW-Madison, we will determine how successful our planting efforts have been. We'll document what had been growing there, how the site was prepared for planting, what the weather conditions were after planting, and what species were planted. We'll also sample the planting areas, once in spring and once in summer, to determine which key species survived, whether old vegetation—mostly buckthorn and honeysuckle—has regrown, and what new species have moved in.

Become involved in this fun project to look for signs of success, including Jacob's ladder, columbine, wild geranium, and bright green sedges. For details, write to preserveFriends@gmail.com.

## Volunteer work parties

Volunteering is a great way to enjoy the Preserve. Long pants (not leggings) and closed-toe shoes required; tools and gloves provided. Groups and youth are welcome with advance notice. For more details, contact Bryn Scriver, bryn.scriver@wisc.edu, 220-5560.

**TIME:** 9:00 a.m.–noon

Date	Meeting place
Mar 11 Sat	Picnic Point, Lot 129
Apr 2 Sun	Picnic Point, Lot 129
22 Sat	Picnic Point, Lot 129
May 7 Sun	<b>Garlic Mustard Pull!</b> Frautschi Point lot <i>Time: 1:00–3:30 p.m.</i>
21 Sun	Picnic Point, Lot 129
Jun 10 Sat	Frautschi Point lot
25 Sun	Picnic Point, Lot 129
Jul 15 Sat	Frautschi Point lot
30 Sun	Picnic Point, Lot 129
Aug 12 Sat	Picnic Point, Lot 129

## Help us monitor planting success along Frautschi path

For the past 4 years, the Friends have celebrated spring with a planting festival along Frautschi path. This spring we will gather to record the outcome.

ANNUAL REPORT

# Preserving the Preserve

by Gisela Kutzbach

This year Friends members gave generously of their time and talents to our education and outreach activities, fieldwork, and operations. Your financial gifts supported both ongoing operations and special projects. Thank you to all involved.

## reach out

Our family-friendly outreach and field trips attracted over 600 visitors in 2016. Particularly popular was the Destination Stations at Picnic Point, part of the UW Science Expedition, with opportunities to identify rocks, learn about effigy mounds, identify trees, and observe wetland creatures. Shorewood 5th graders experienced stories of Eagle Heights Woods. The 4th Sunday Bird and Nature walks developed a loyal following. New field trips included a Cultural Bike Ride along the old Madison Park and Pleasure Drive and Groundwater Resources in the Preserve. Participants often comment on how much they appreciate these opportunities to learn about the Preserve. **Share your passion for the Preserve.**

## volunteer

Many Friends volunteered for field and organizational tasks, including the spring planting at Frautschi Point and the Garlic Mustard pull that yielded 50 plus bags. Many joined Preserve Volunteer work days, monitored the Bluebird Trail, or served on committees, events, and projects. Board members coordinated the newsletter, field trips, annual meeting, communications, membership, finances, and special projects, working closely with Preserve staff. Check out the work party dates on page 3 or contact [preserveFriends@gmail.com](mailto:preserveFriends@gmail.com). **Join our vibrant group of volunteers.**

## support

The Friends' finances remain strong. Thanks to your generosity, we were able to fund five summer Prairie Partner interns, contribute to the Preserve Stewardship Fund, purchase nursery plants, and support the Eagle Heights Woods Rejuvenation Project. **Help us continue funding Preserve projects.**



Gisela Kutzbach

*Annual financial report—2016*

<b>BEGINNING BALANCE</b>	<b>\$87,602</b>
<b>Income</b>	<b>\$19,784</b>
Memberships	\$15,750
Donations and memorials	\$3,930
Eagle Heights Woods Project donations	\$50
Dividends and interest	\$54
<b>Expenses</b>	<b>-\$17,483</b>
Summer interns	-\$6,547
Gifts to Preserve	-\$4,000
Eagle Heights Woods Project, transfer to	-\$3,154
Special projects	-\$1,000
Committees, supplies, newsletter	-\$961
Postage	-\$851
Annual meeting	-\$522
Plantings/seeds for Preserve	-\$448
<b>ENDING BALANCE</b>	<b>\$89,903</b>

## DEPARTING BOARD MEMBERS

Help us thank the following for their years of dedicated service:

**Pat Becker**, newsletter co-editor (6 years)—*plus a special thanks for continuing on as co-editor!*

**Susan Carpenter**, annual meeting organizer (6 years)

**Gretel Dentine**, treasurer (3 years)

**Diane Dempsey**, interim member (1 year)



Linda Deith



Arlene Koziol



Gisela Kutzbach

## get involved!

**Volunteering** is a great way to help out at the Preserve and meet fellow Friends. See page 3 for opportunities.

## Nominees to the Friends of the Lakeshore Nature Preserve Board

The Friends nominating committee—Michael Parsen (chair), David Drake, and Gisela Kutzbach—recommends the following candidates. The board has endorsed this recommendation. Other candidates may be nominated by the membership at the annual meeting. All current members of the Friends of the Preserve present at the annual meeting (April 4, 2017) are eligible to vote. Board members are elected for 3-year terms; two student board members are elected for 1-year terms and share a vote.

### New members



**Carolyn Byers** Carolyn is director of education at Madison Audubon, where she combines her love of nature with her second

passion: getting kids outside and excited about science. She studies avian behavior with a particular interest in nesting ecology, chick development, and foraging behavior. Carolyn has a BS in biology from the University of New Hampshire and a master's degree in wildlife ecology from UW–Madison.



**Sarah Congdon** Sarah is a senior artist at the University of Wisconsin Environmental Resources Center, where she

collaborates with outreach and research professionals to design agriculture, natural resources, and environmental communication materials such as websites, reports, presentations, interpretive displays, and more. She enjoys the challenge of bringing visual simplicity to complex information.



Arlene Koziol



**Olympia Mathiaramam**

*Student nominee—*

Olympia is a UW–Madison sophomore double

majoring in psychology and biology. She is a board member of the UW Habitat for Humanity Chapter and works with the Bradley Learning Community helping freshmen assimilate to college. In her hometown, Olympia participated in a 4-year effort to create a community center with prairie and organic garden landscaping.



**Paul Quinlan** Paul

manages the City of Madison's conservation parks. He earned an MS in Ecology from the State

University of New York, then worked for the Kentucky State Nature Preserve Commission and as the (Land) Stewardship Director for the Shirley Heinze Land Trust in the Indiana Dunes. Paul also has worked with a surface mining regulatory agency and an ecological consulting firm.



**Steve Sentoff** For 25 years Steve volunteered with the DuPage County Forest Preserve District near Chicago, then as

board member and volunteer site steward for the West Chicago Prairie Stewardship Group. Steve has a master's in math and computer science from UW–Madison. He learned habitat restoration and botany mostly "on the job" and through classes at the Morton Arboretum in Lisle, Illinois.

### Returning members



**Doris Dubielzig** Doris has created venues for 8th grade students to present their research projects, has mentored

new MMSD teachers, and served as a Friendly Observer for UW–Madison students in a science service learning class. With an interest in eye research, she developed educational materials for 8th graders and family science nights. Doris serves on the outreach/education committee and as secretary for the board.



**Peter Fisher** Peter taught naval architecture and ship hydrodynamics at the University of Michigan and worked as a

marine engineer in California and Hawaii. He is interested in the impact of climate change on ocean behavior, and was involved with water pollution and invasive species issues as a delegate to the UN International Maritime Organization. Peter serves as field trip organizer and fundraiser for the Friends.



**Mitchell Thomas**

*Student nominee—* Mitch is a veterinary student at UW–Madison's School of Veterinary Medicine with

an interest in wildlife medicine and conservation. As a member of the Bluebird Restoration Association of Wisconsin he participated in creating the Biocore Prairie Bluebird Trail. This summer he returns to Belize to volunteer at a manatee and primate rehabilitation center.



HELPING BEES THRIVE

# Pollinators in the Preserve

by Susan Carpenter

Although pollinator season at the Lakeshore Nature Preserve is nearly here, butterflies, beetles, flies, moths, and bees are still overwintering across local landscapes—some as adults, and some in other stages of the life cycle. Once conditions permit, they will visit and pollinate native plants, non-native species, and some garden crops throughout the growing season.

Bees are the most efficient pollinators, because female workers collect and distribute pollen (mainly as a protein source for developing young) as they move from flower to flower. They collect nectar, a carbohydrate source for adults, as well. Wisconsin has 500 species of native bees, and we are still learning which of these live at the Preserve. (European honeybees, *Apis mellifera*, also live at the Preserve—these are the familiar domesticated bees kept in hives.)

In the Preserve’s savanna, prairie, rain garden, and community garden areas we have documented eight species of bumble bees: rusty patched, two-spotted, common eastern, brown-belted,

red-belted, half-black, yellow, and gold-and-black. This is a diverse set, considering that only 14 bumble bee species are found in southern Wisconsin. The rusty-patched bumble bee may soon be listed as a federally protected endangered species. We have found it in the Biocore Prairie visiting bee balm (*Monarda fistulosa*) and Culver’s root (*Veronicastrum virginicum*).

**In the Preserve, we have documented eight species of bumble bees. This is a diverse set, considering that only 14 species are found in southern Wisconsin.**

Because of their size, bumble bees are particularly easy to observe and document.

When hiking the Preserve, document flower visitors by taking multiple photos of each bee (top or dorsal view, side view, and view of the face). Include a spacer photo between sets of photos of individuals. Upload your photos to BumbleBeeWatch.org, where experts will verify identifications, sightings will be mapped, and patterns will emerge. For other bee species, photographs are generally not sufficient for identification, although experts at BugGuide.net may be able to identify to genus.

You can promote bumble bee conservation by planting native plants or ornamentals that bees visit for pollen or



Susan Carpenter

Rusty patched bumble bee visiting oregano in Eagle Heights Gardens. Note large pollen balls on the hind legs.

nectar. To support bumble bee queens at the vulnerable time when they emerge from overwintering sites and establish colonies: **(1) plant native species that bloom early in the season**, such as woodland phlox (*Phlox divaricata*), bellwort (*Uvularia grandiflora*), bluebells (*Mertensia virginica*), waterleaf (*Hydrophyllum virginianum*), geranium (*Geranium maculatum*), and mayapple (*Podophyllum peltatum*); **(2) keep some areas relatively untended**, where the queen may find an underground nest spot in an old burrow or under bunch grass; and **(3) choose plants that will provide continuous pollen and nectar for the mid and late season** when colony size could reach 400 bees and workers are foraging. Your efforts will support native bee species reproduction and populations from year to year.



Susan Carpenter

Common eastern bumble bee visiting Culver's root flowers.

Male gold-and-black bumble bee perched on yellow cone flower, searching for mates.



Susan Carpenter



**EAGLE HEIGHTS WOODS UPDATE**

## Work in the Indian Mounds zone

by Adam Gundlach



Adam Gundlach

Following a cold snap in early January, adequate frost developed to proceed with hazard tree removals in the Indian Mounds zone. Originally planned several years ago, the work sought to fell trees deemed potential hazards to the integrity of the Eagle Heights Mounds Group as well as safety on the surrounding trail loop. Thwarted by soft ground conditions in previous winters, Wolfe Tree Service completed work on removing trees in mid-January, many of which had succumbed to oak wilt. Additional woody debris will be removed from the Indian mounds environs at a future date to maintain views across the mounds group.

In the south zone, Good Oak Ecological Services has completed the majority of initial invasive brush removal.

**NOTES FROM PRESERVE STAFF**

## Sharing the Preserve...

Enjoy people? Have a passion for the Preserve? Be a volunteer greeter! We are looking for friendly individuals to greet and direct visitors to Preserve locations, share the Preserve's mission, and answer general questions. Greeters will be stationed at the entrance to Picnic Point on weekends from mid-April and to mid-May. Volunteers are asked to work at least three 2.5 hour shifts across 4 weekends. Training is required and will be offered on the morning of Wed. April 5. There will be opportunities for Fall greeters too!

For additional information, please visit the Preserve website at [lakeshorepreserve.wisc.edu](http://lakeshorepreserve.wisc.edu) or contact Bryn Scriver, volunteer coordinator/outreach specialist, at [bryn.scriver@wisc.edu](mailto:bryn.scriver@wisc.edu).

I WANT TO MAKE A DIFFERENCE by joining or making an additional gift.

## Friends of the Lakeshore Nature Preserve

Name \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_

Email \_\_\_\_\_

- I'd like to VOLUNTEER—please send me information by email.
- I'd like to GO PAPERLESS and receive my newsletter by email.

Please mail this completed form and your check payable to:

**Friends of the Lakeshore Nature Preserve**  
 P.O. Box 5534  
 Madison, WI 53705

*Friends of the Lakeshore Nature Preserve is a tax-exempt 501(c)(3) non-profit organization.*

**ANNUAL MEMBERSHIP**

- Student . . . . \$10
- Individual . . . . \$20
- Household . . . . \$35
- Steward . . . . \$50
- Patron . . . . \$100
- Other . . . \$\_\_\_\_\_

**ADDITIONAL GIFT**

*(For members—does not include membership)*

- Woodland . . . \$500
- Savanna . . . . \$250
- Wetland . . . . \$100
- Prairie . . . . \$50
- Other . . . \$\_\_\_\_\_

Friends of the  
Lakeshore Nature Preserve  
P.O. Box 5534  
Madison, WI 53705

Ideas and *Friends* announcements for our newsletter and website are welcome. If you'd prefer to go paperless and receive your newsletter electronically, please email us at [preserveFriends@gmail.com](mailto:preserveFriends@gmail.com)

*President:* Gisela Kutzbach  
*Vice President:* Peter Fisher  
*Secretary:* Doris Dubielzig  
*Treasurer:* Gretel Dentine  
*Newsletter:* Linda Deith,  
Pat Becker, Sarah Goldenberg  
*Friends Volunteer Coordinator:*  
Galen Hasler, 608-206-5218

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Nature Preserve is a 501(c)(3)  
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Please visit our website: [www.FriendsLakeshorePreserve.com](http://www.FriendsLakeshorePreserve.com)

#### JOIN US FOR A SPECIAL VOLUNTEER DAY

### Garlic mustard pull!

Sunday, May 7, 1:00–3:30 p.m.

You'll be amazed at how many bags can be filled in just 2½ hours. We'll finish off with a tasty garlic mustard quiche and other refreshments. Bring friends and neighbors.



*Bryn Scriber*

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#### BIOCORE PRAIRIE UPDATE

### Seeding the Biocore Prairie

*By Seth McGee*

Twenty years after the first seeds were cast at the Biocore Prairie, our restoration efforts continue to thrive and grow.

In December, a dedicated group of Biocore students, alumni, and friends joined together to plant native seed in the historically weedy field that borders the Grounds nursery. This was the final corner to be planted. It will benefit from increased species diversity and will provide new educational and research opportunities.

Biocore students amassed an exceptional seed inventory, spending hundreds of hours collecting and cleaning seed from various Dane County prairies. We seeded a total of 72 species, and many more will be added as greenhouse transplants in the coming years. Keep an eye on the site as it begins to mature into prairie!



*Janet Batzli*

*Biocore students, friends, and family pitched in to cast prairie seeds.*