

LAKESHORE NATURE PRESERVE E-NEWSLETTER

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Recognizing our Donors and Volunteers

By Bryn Scriver, Preserve Volunteer and Outreach Coordinator,
with Laura Wyatt, Preserve Program Manager

The Lakeshore Nature Preserve is supported by a wide assortment of partners and stakeholders who give generously of their time and resources to support the mission and iconic landscapes of the 300+ acres of campus natural areas on the UW-Madison campus.

In recognition of our appreciation for all our donors and volunteers who supported the Preserve in 2016, we are including their names in this issue of the Lakeshore Nature Preserve E-Newsletter.

In 2016, 862 individual volunteers and 56 volunteer groups contributed a total of 3,539 hours of their time to support the Preserve! Volunteers cut and pulled invasive plants, chipped trails, and planted trees, shrubs, forbs, and grasses to improve the health and function of Preserve lands.

Not included in these numbers is the great effort put forth by the Friends of the Lakeshore Nature Preserve. Among the most valuable contributions by the Friends is their educational outreach to the community including organizing 26 free field trips and walks in 2016 serving over 500 participants.

Private gift funds support approximately 36 percent of our on-going operating budget and are responsible for significant improvements such as the kiosk at the entrance to Picnic Point and the special program to remove invasive species. During 2016, 64 gifts were received totaling \$74,366.

Gifts to the Lakeshore Nature Preserve can be easily given through the UW Foundation at supportuw.org (enter "Lakeshore Nature Preserve" into search box) or by mailing a check to the UW Foundation at US Bank Lockbox, Box 78236, Milwaukee, WI 53278-0236.

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A heart-felt thank you to all our volunteers and donors for the investment they are making in the Lakeshore Nature Preserve.

Note: if you volunteered or made a gift in 2016 and your name was left out of this issue please accept our apologies and let us know by contacting Bryn Scriver at bryn.scriver@wisc.edu.

THANK
YOU!

\$74,366
in gifts

862
volunteers

3,539
service
hours

2016 Donors

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Matthew & Kimberly Lea
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Levi & Janet Wood
Sandra & Andrew Wu
Laura & Dan Wyatt

Tribute Gifts

Erin Douglas
George Fitzgerald, PhD
Carol A. Peterson
Alice Staeck Pugacz
Harriet Riley

Gifts to Friends Eagle Heights Woods Project

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Claudia Gelzer
Steve & Pam Grace
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James Krikelas
Kathleen Lieber
Andrea Poehling
Sheryl Popuch & Dr. Frederick Kelcz
Dr. Jack Westmen
Peggy Wiederholt
Sarah & John Williams
Friends of the Lakeshore Nature Preserve

Tribute Gifts

John Grace



2016 Preserve Volunteer Groups

200 Fraternity
Alpha Epsilon Delta
Alpha Chi Omega
Alpha Kappa Psi
Alpha Omega Epsilon
Alpha Phi
American Family Insurance
Americorps
Alpha Phi Omega
Army ROTC
American Society of Mechanical Engineers
Alpha Xi Delta
Badger Volunteers
Blackhawk Church-Love Madison
UW-Madison Ecology 460
Business Badgers and Beyond
Bucky Volunteering Association
UW Center for Educational Opportunity
Chancellors Scholars

Circle K
Clean Lakes Alliance
Delta Chi
Delta Sigma Pi
Delta Tau Delta
Engineers for a Sustainable World
Epsilon Alpha Omega
Fiji
Foley & Lardner, LLP
Friends of the Lakeshore Nature Preserve
GreenHouse Learning Community
MBAs with a Heart
Medlife
Mu Kappa Tau
National Guardian Life
Naval ROTC
Powers-Knapp Scholars
RCB Wealth Management
UW-Madison Communicative Disorders

Sigma Alpha Omega
Schools of Hope Americorps
Student and Emergency Medical Services
Sierra Student Coalition
Sigma Alpha
Sigma Alpha Omega
Sigma Lambda Beta
Sigma Pi
Spartan Youth Service
Students for the Preserve
Society of Women Engineers
UW Athletics
UW Health
UW Population Health Sciences
UW Womens Ultimate Frisbee
Women in Science and Engineering
Women in Economics
Youthworks



Winter Land Management Activities in Eagle Heights Woods

By Adam Gundlach, Preserve Field Projects Coordinator

While the coming of winter closes the window on many land management activities, it presents opportunities for work not suited to other seasons. For example, in order to safely remove hazard trees adjacent to or on Indian burial mounds it is best to have frozen ground that will not be disturbed by falling debris or equipment. A light snow cover and a period of sub-zero temperatures in January allowed us to proceed with hazard tree removals around the Eagle Heights Mounds Group.

Originally planned several years ago, the work was necessary to fell trees deemed potential hazards to the integrity of the mounds as well as the safety of our visitors using the surrounding trail loop. Many of the trees removed were oaks and likely victims of oak wilt disease. We were thankful for the opportunity to remove the trees this year since recent winters have not provided a deep enough frost layer.

The most dramatic change occurred on the round mound at the north end of the trail loop where several trees were

removed from the mound feature. The mound will bathe in a pool of sunlight this summer, furthering efforts to bolster herbaceous diversity, while reconnecting the spirits of the sky to the terrestrial, overlooking the water spirits of Lake Mendota below.

In the southern part of Eagle Heights Woods, our contractor removed approximately six acres of invasive brush. The woods edge immediately north of the University Houses Gardens was already in great shape from the dedicated efforts of Preserve volunteer Roma Lenehan, who working over a number of years, removed buckthorn, honeysuckle, and herbaceous weeds, and planted many native species.

We would also like to thank the Friends of the Lakeshore Nature Preserve for raising the funds that made this work possible.

Volunteer Greeters Needed to Share the Preserve!

Enjoy talking to people? Have a passion for the Preserve? Be a volunteer greeter!

We are looking for friendly individuals to greet visitors, direct visitors to Preserve locations, share the Preserve's mission, and answer questions. Greeters will be stationed at the entrance to Picnic Point on weekends from mid-April to mid-May. Volunteers are asked to work at least three 2.5 hour shifts across four weekends. Training is required and will be offered on the morning of Wednesday, April 5.

There will be opportunities for Fall greeters too! For additional information, please contact Bryn Scriver at bryn.scriver@wisc.edu.



2016 Preserve Volunteers

Dylan Abbott
Wayne Abbott
Marielle Abeyta
Bennet Abide
Luis Abrev-Socorro
Adam Kapfhamer
Clare Aeschbacher
Shannon Ahern
Jake Ahlgrimm
Chris Ahn
Kyu Ahn
Natalie Ahn
Olivia Ahn
Rajeev Ahuja
Sanjeev Ahuja
Carter Aisbet
Tyler Alheid
Brenda Allen-Johnson
Emily Anaya
Alex Anderson
Kelsey Annen
Joe Archer
Erin Ard
Allen Arntsen
Matt Aronson
Gerardo Arriaga
Emily Atseff
Aisha Ba
Alex Babinski
Lauren Bachman
Matt Backus
Cristina Bahaveolos
Erin Baldwin
Jake Ballweg
Anna Barger
Bill Barker
Riley Barnharst
Jonathan Barsness
Brad Bastiad
Christina Baum
Nicole Bauman
Robin Bauman
Lauren Bayer
Mitchell Beard
Carson Beaty
Aaron Beck
Leah Beck
Connor Becka
Patricia Becker
Colin Beney
Kushagra Beniwal
Greg Bennett
Alex Bentz
Madison Berg
Andrew Bergh
Colin Berhardt
Preston Bernstein
Joshua Beyerl
Alex Bhz
Matilyn Bindl

Pranaya Bista
Jordan Black
Maddy Blain
Katie Blue
Steve Boeder
Chris Boehnlein
Kali Boldt
Rachel Bonin
Anthony Bothman
Pete Bouchard
Beth Boudreau
Dominique Bowers
Paul Bowman
Danny Brainerd
Jonathan Brand
Calvin Branum
Keira Branum
William Bravo
Mike Bray
Haley Bremer
Noah Breneman
Hayley Bresina
Noah Broder
Scott Brooks
Christopher Brown
Kelly Brown
Allison Brucato
John Brueckbauer
Maddy Brunes
Jeremy Brunner
Connor Buchholz
Natalie Bueno
Melanie Buhr-Lawler
Will Bumbaca
Shannon Bunsen
Emilie Burditt
Ann Burgess
Alanna Burkart
Emma Burnett
Roman Burrridge

Nicole Busse
Bradley Butcher
Carter Calderon
Martin Calderon
Marina Caliendo
Patrick Callahan
Erica Calvache
Elizabeth Cameron
Polka Cameron
Derek Campbell
Tanner Campbell
Tressa Campbell
Melissa Cane
Alex Canney
Cecilia Cardenas
Alexa Carlson
Bryan Carroll
Larry Chambers
Lisa Charron
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Claire Chen
Shuai Chen
Justin Chenevert
Grace Cheng
Caroline Chengary
Sarah Childress
Nate Chotlos
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Annie Ciano
David Clark
Deryk Clary
John Click
William Cocke
John Cohen
Daniel Coleman
Nick Coleman
Madison Collignon
Kevin Collins
Sam Considine
Florenit Contreras

Janis Cooper
Cecilia Cortez
Patrick Costello
Sarah Crosby
The Culver family
Charlotte Cummins
Kyle Curry
Emma Czarnecki
Brianna Dahm
Brendan Dailey

Gretel Dentine
Kevin Dewan
Angad Dhariwal
Carlos Diaz
Maddy Dimeo
Thomas Dittus
Katy Doll
Scott Donovan
David Draka
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Jacob Dwinell
Rachel Eggert
Mario Eiden
Aaron Eklund
Landon Ellis
Naaman Endres
Brent Engaul
Nelson Engle
Tom Enright
Dana Ertl
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Student Engagement Grant Aids Undergraduate Study on Cold Tolerance of Two Native Prairie Species

By Bryn Scriver with Emily Nettesheim

As anyone who lives here knows, the seasons in Wisconsin vary widely—from the heat of summer to the deep freeze of winter. However this seasonal variation will likely change with ongoing change in our climate.

Emily Nettesheim, an undergraduate researcher in Dr. Ellen Damschen's lab and a recipient of a 2016 Lakeshore Nature Preserve Student Engagement Grant, is interested in how a changing climate, in particular winters with less snow, will affect the cold tolerance of native prairie plants.

Between 1950 and 2006, the statewide average winter temperature rose 1.5 °C (2.7°F). Warming winters lead to less snowfall. Snow acts like a blanket to buffer overwintering plants from fluctuations in air temperature; without it plants are at increased risk for frost damage to belowground plant tissues. Luckily plants have developed mechanisms for adjusting the cold tolerance of vital tissues, such as roots, to prevent damage from cold. However, according to Emily we do not know how the cold tolerance of native prairie plants changes throughout winter or if this change will be enough to keep pace with climate change.

Emily used the resources provided by the Preserve Student Engagement Grant to purchase temperature loggers and lab equipment necessary to track soil temperature and measure the root cold tolerance of plants throughout winter to help address this knowledge gap.

From September 2015 to April 2016, Emily studied the cold tolerance of two common prairie plants, stiff goldenrod (*Solidago rigida*) and rosinweed (*Silphium integrifolium*) by measuring how their root tissue adapted to seasonal changes. She also tracked the temperature profile of the soil, both at the soil surface and 10cm below

ground, to measure the temperature buffering effects of snowpack. Her project was conducted at the Biocore Prairie, a restored prairie located within the Lakeshore Nature Preserve.

Emily's results show that stiff goldenrod roots became increasingly cold tolerant as fall turned into winter; meanwhile, the cold tolerance of rosinweed was much more variable at this same time. However, in spring both species followed the same trend to lose their cold tolerance as temperatures warmed. The two species not only varied in the rate at which they gained cold tolerance but also the intensity. Rigid goldenrod's cold tolerance is more robust than that of rosinweed's.

According to Emily, the difference in cold tolerance among species could influence which species persist under a changing climate. Species with cold tolerances similar to stiff goldenrod may be more likely to survive future warmer winters with less snow. Through Emily's research, we can better understand how natural communities, such as prairies, may respond to continued climate change.



Emily collected root tissue from plants in the Biocore Prairie to measure cold tolerance. Photos by E. Nettesheim.

2016 Preserve Volunteers

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Courtney Halverson
Bonnie Hammer
Michael Hammer
Alexis Handley
Lexi Handrick
Michael Harris
Kathryn Hartfield
Amy Hartman
Eryn Hartnett
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Jasdeep Kler
Julie Klinner
McKenzie Klipp

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Owen Lamson
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Alyssa McLaughlin
Maria McMahon
Bryan McMichael
Ryan McMurtry

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Cory Michaelis
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Gavin Keogh
Ashlea Kielar
Sean Kim
Logan Kirchenwitz
Maren Kirkland

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Colin Knight
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Jason Kok
Allie Korbel
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Johan Kostuch
Mitchell Kostuch
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Regina Kostuch
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Gisela Kutzbach
John Kutzbach
Joe LaBlanche
Jared Ladish

Jaya Larsen
Greg Lauer
Tanner Lauer
Lena Law
Huy Le
Anna Leadens
Madison Leahy
Harley Leavens
Duane Lee
Robbie Lee
Abby Lembersky
Roma Lenehan



Volunteer Spotlight: Stephen Sentoff

By Bryn Scriver with Stephen Sentoff

Stephen Sentoff began volunteering more than 25 years ago for a small prairie restoration group in the western suburbs of Chicago. At the time he just wanted to find something worthwhile to do outside because he spent all week working at a desk as an engineer. He soon discovered that volunteering was a great way to meet like-minded people, and he gained a lot of satisfaction from making a difference to the environment. Eventually, Stephen ended up running that small volunteer organization, which he says taught him a lot about how to organize activities and motivate other volunteers.

Lucky for us, after retiring, Stephen and his wife Monica moved to Madison (they both attended graduate school at the UW) and started volunteering with the Lakeshore Nature Preserve. Stephen and Monica have joined many of the drop-in volunteer events in the past year. Stephen observed that there are many opportunities to help with habitat restoration in the Madison area, but he said they chose to volunteer at the Preserve because it was close to their downtown apartment.

In addition to joining our bimonthly volunteer events, Stephen joined the Preserve's on-going volunteer corps. Over the winter he provided a great service to the Preserve by organizing our equipment storage areas, cleaning and sharpening our hand tools, and assisting staff with buckthorn removal.

Stephen, whose background is in math and computer science, said a great benefit of volunteering is learning new things. Most of his biology and botany knowledge was gained through self-study and from working with others in the field. He said his enjoyment of volunteering



Stephen and Monica Sentoff chose to volunteer at the Preserve after moving to Madison in 2016.

is enhanced by learning more about the Preserve's history, anthropology, and biology.

When not volunteering at the Preserve, Stephen and Monica also volunteer at the Wisconsin State Historical Society and try to take advantage of all the things Madison has to offer.

To learn how you can get involved in the Preserve please contact Bryn Scriver at bryn.scriver@wisc.edu.

Get Involved!

Attending work parties is a great way to enjoy the Lakeshore Nature Preserve while working with other volunteers to care for it.

Visit the [volunteer page on our website](#) for information on drop-in volunteer work parties and group service projects.

Upcoming volunteer work parties:

Date	Day	Meeting place
Apr 2	Sun	Picnic Point lot 129
Apr 22	Sat	Picnic Point lot 129
May 21	Sun	Picnic Point lot 129
Jun 10	Sat	Frautschi Point lot
Jun 25	Sun	Picnic Point lot 129
Jul 15	Sat	Frautschi Point lot

Time: 9:00 am–Noon

2016 Preserve Volunteers

Andrew Nichols
Chrissy Nichols
Abby Nicholson
Katie Nicolas
Hercules Nikolaou
Cassandra Nissi
Dan Noar
Elizabeth Norman
Jenna Novak
Maddie Nowakowski
Zac Nowatzki
Mike Nowicki
Anthony Oates
Andrew Ochoa
Jack O'Connor
Mark Oldani
Andrew Olden
Jordan Olesen
Katherine Olexa
Carleigh Olsen
Stephaney Olsen
Mitchell Oswald
Debra Ott
Josh Overturf
JoLyn Owen
Sam Palmer
Ziyi Pan
Priyanka Panjwani
Ali Paulson
Michele Peacock
Anne Pearce
Katelyn Pecha
Kai Pederfon
Martha Pena Mata
Jack Pendleton
Amanda Percarpio
Jessie Perez
Anna Perrill
Sam Peters
J.R. Petnkeu
Morgan Pettit
Maria Pfister
Alec Pham
Mikaela Pierson
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Morgan Schleicher
Matt Schlidt
Cherie Schmidt
Ember Schmidt
Marcia Schmidt

Sabrina Schmidt
Cassidy Schneider
Charlie Schneider
Erika Schoenebeck
Eric Schoohs
David Schoper
Jacob Schowalter
Zachary Schramm
Mindy Schreiner
Patricia Schroeder
Ben Schuelke
Xavier Schultze
Ben Sciortino
Megan Scott
Daniel Seaton
Elizabeth Sebo
Courtney Seidel
Frederick Seidel
Mark Selby
Monica Sentoff
Stephen Sentoff
Zachary Servais
Hayley Severson
Heidi Sharer
Will Sheeley
Matt Sherman
Michael Sherman
Courtney Shipshock
Annie Shutt
Debra Siegenthaler
Justin Silvis
Susan Slapnick
Rachel Smaby
Camille Smith
Courtney Smith
Zavier Smith
Emily Snelson
Natalie Sobierajski
Lee Sobralske
Abby Soderberg
Eric Solis
Ryan Soohoo
Chrissy Spierings
Taylor Srebnick
Dennis Stadler
Brian Standing
Shea Standing
Anthony Stano
Shannon Staral
Emily Starich
Bailee Stark
Kelly Stark
Clara Stedman
Catherine Steffel
Lucas Steimann
Hannah Stellrecht
Sophia Stephenson
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Tanner Stretch
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Michael Stunte
Kishora Subramanyam
Tom Sundlin
Bintou Suso
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Jon Wagner
Taylor Wagner
Adam Wallace
Zachary Wallace
Tyler Walters
Sabkina Wana
Chenxin Wang
Haocen Wang
Sabrina Wang
Xiping Wang
Zuf Wang
Kallie Waro
Dylan Weber
Kaylin Weber
Michael Weber
Allison Weidman
Amy Weisman
Steve Welkam
Jackie Welsch
Carter Welsh
Cassie Wessel
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Andrew Zole
David Zoppo

Friends of the Lakeshore Nature Preserve Free Guided Field Trips

March 26—Bird and Nature Walk (Sun, 1:30-3:00pm).**

April 2—UW-Madison Science Expedition at Picnic Point (Sun, 2:00-3:30pm). Guides will accompany small groups of visitors to stations in the Preserve to learn about geology, mounds, and trees. Children can engage in related activities. For more information about Science Expeditions, see <http://www.science.wisc.edu/events-science-expeditions.htm>.

April 20—Beyond Backyard Birding (Thurs, 6:30-9:30pm). These evening trips are especially for backyard birders looking to grow their skills! Bring the whole family. We will have binoculars for loan. Meet in Lot 129. Trip limited to 20 people; registration is required! Contact Carolyn Byers, carolyn.byers@madisonaudubon.org.

April 23—Bird and Nature Walk (Sun, 1:30-3:00pm).**

April 28—Beyond Backyard Birding (Fri, 6:00-9:00pm). See April 20.

April 30—Spring Wildflowers at Frautschi Point (Sun, 10:00am-Noon). Explore Frautschi Point for spring ephemerals and other tender new growth. This is a family-friendly hike. Meet at Frautschi Point parking lot. Leader: Glenda Denniston, (231-1530) denniston@wisc.edu.

FULL—May 2 and 3—Wildlife Action Photography Workshop (Tues, 9:30-11:30am and Wed, 6:30-8:30am). This is a two-part class. Expert nature photographer Arlene Koziol will help you get started with the basics of wildlife action photography. Tuesday meet at the Henry Vilas Zoo Gate 1; Wednesday meet at the Willow Creek Bridge on the Lakeshore Path. A SLR or other good quality camera is necessary. Leader Arlene Koziol, (847-525-4405) arlenekoziol@mac.com.

May 10—Warblers of Frautschi Point (Wed, 7:30-9:30am). We will look for warblers and other spring migrants. Bring binoculars and a field guide if you have them. Meet at the Frautschi Point parking lot. Leader: Roma Lenehan, (238-5406) rlenehan@charter.net.

May 28—Bird and Nature Walk (Sun, 1:30-3:00pm).**

June 13—Lake Mendota Boat Trip (Tues, 9:00-11:30am). (weather date, Thurs, June 15). Learn about Lake Mendota and the shoreline of the Preserve aboard LIMNOS, the UW Center for Limnology research vessel. Group size is limited to 12; email John Magnuson (john.magnuson@wisc.edu) to reserve your place. Meet at Hasler Limnology Lab one block west of Memorial Union along the south shore of Lake Mendota.

June 25—Bird and Nature Walk (Sun, 1:30-3:00pm).**

July 8—Restoration Ecology in Eagle Heights Woods (Sat, 9:00-11:00am). Get a behind-the-scenes summer look at efforts to restore the biological health of this oak woodland. Park along Wood Lane and walk to the Shady Lane trailhead. Leader: Adam Gundlach, adam.gundlach@wisc.edu.

July 16—Native Pollinators in the Preserve (Sun, 9:00-11:00am). Join us in searching for bees and other pollinators while learning about diversity, lifestyles, and the importance of these wonderful insects. Meet at lot 129. Leader: Susan Carpenter, susan.carpenter@wisc.edu.

July 23—Bird and Nature Walk (Sun, 1:30-3:00pm).**

Aug 5—Pretty Things with Wings (Sat, 10:00am-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 lot 129. Leader: Edgar Spalding, spalding@wisc.edu.

Aug 27—Bird and Nature Walk (Sun, 1:30-3:00pm).**

** Bird and nature lovers, students, families, and kids welcome! Held every 4th Sunday of the month. Explore the Preserve and the wildlife that lives there. Meet at Lot 129. Contact: Paul Noeldner (698-0104) paul_noeldner@hotmail.com.



Scenes from the 2016 UW Science Expedition at Picnic Point. Photos by Gisela Kutzbach.

Preserve Works with University Housing to Control State Prohibited Invasive Plant

By Bryn Scriver, Preserve Volunteer and Outreach Coordinator

Several years ago volunteers alerted Preserve staff to the presence of a state-prohibited invasive plant, fig buttercup (*Ficaria verna*), in two separate lawn areas at Eagle Heights Apartments. These volunteers dug the plant from the edges of Big Woods and Eagle Heights Woods for several years, but the number of plants and the growing size of the infestation necessitated that we take a more aggressive approach to controlling it.

When we approached University Housing about the issue they were very receptive to dedicating resources to control this plant. Preserve staff worked with Housing to identify the extent of the problem and connect them to an experienced contractor to carry out the work. After two years of herbicide treatment, we will monitor the area for effectiveness this spring.

Part of the challenge with managing this plant is that it completes its life cycle in winter and spring. The blooming period occurs from early to mid-spring, lasting about one month. After that time the plant virtually disappears until the following year.



Plants consist of a basal rosette of dark green, stalked kidney-to heart-shaped leaves. The flowers are bright yellow with 8 to 12 petals, and are borne singly on stalks

that rise above the leaves. The plant spreads both by underground tubers and by bulblets produced in the leaf axils.

Fig buttercup has been shown to form dense patches in natural areas which can displace native plants, especially spring ephemeral plants.

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with a gift to the Stewardship Fund at the UW Foundation.

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the Lakeshore Nature Preserve,
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