

The Cardinal

FEBRUARY—MARCH 2017 •

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AUDUBON SOCIETY

FEBRUARY MEMBER MEETING
THURSDAY, FEBRUARY 9, 2017

“Backyard Gardening for Nature” with Michelle Kalantari

Over a 3 year period Michelle converted her Richfield yard of mostly sod to a vibrant landscape with 70% native plants and no more grass to mow. She will take us on a photo-graphic journey of the changes made and the resulting biodiversity of life that found its way into her garden, including more songbirds. It's like a chapter out of Douglas Tallamy's book, *Bringing Nature Home*. Michelle is an amateur gardener and photographer. *The Nature Conservancy's* effort to promote biodiversity inspired Michelle to extend their mission into her own back yard.

National Audubon promotes bird friendly gardens and communities. Learn more at <http://www.audubon.org/content/creating-bird-friendly-communities-1>.



Also check out
The *Nature
Conservancy's*
program [Get Wild](#),
[Go Native](#) or learn
more about
Michelle's work at
[http://youtube/
sCjVfdFjFRw](http://youtube/sCjVfdFjFRw).

Arrive at 6:45 for social time or 7:00 for the Program;
held at Fairview Community Center, 1910 Cty Rd B, Roseville.
Free and open to the public.

Mark Your Calendars! More great programs are planned!

April 13: *National Parks: Protecting America's Treasures* with Mark Edlund, PhD, Science Museum of Minnesota

May 11: *Bird Genetic Relationships* with Scott Lanyon, PhD, Ecology, Evolution & Behavior Dept., University of Minn.

MARCH MEMBER MEETING
THURSDAY, MARCH 9, 2017

“Post-Election Reality: The Outlook for Conservation” with Don Arnosti, Conservation Director Izaak Walton League



Don has 30 years experience as a conservation advocate in Minnesota, defending our woods, wetlands, waters and wildlife. He's raised his outdoor-loving family on a steady diet of canoeing, hiking and adventuring in Minnesota, across our nation, and around the world. His favorite maxim comes from Aldo Leopold, “The first rule of intelligent tinkering is to save all the parts.”

Don will discuss the effect that the federal election could have on environmental protection in our state and nation. He will also describe ways environmental advocates can work effectively with state and national legislatures regarding our most pressing environmental challenges.

Check out these resources:

Minnesota Division Izaak Walton League of America

www.minnesotaiakes.org

Minnesota Center For Environmental Advocacy

www.mncenter.org

For almost 30 years MCEA has used law, science and research to protect Minnesota's natural resources, wildlife and public health. They advocate for positive environmental change and protection in the areas of water quality, land use and transportation, wildlife and natural resources, public health and energy.

Minnesota Environmental Partnership

www.mepartnership.org

A coalition of more than 80 Minnesota environmental and conservation organizations working together to protect and preserve Minnesota's precious natural environment.

President's Message

Winter: A time for birding

Winter in Minnesota is the season to hunker down indoors with a warm cup of tea, a good book, and if you are fortunate, a fire crackling under the mantle. In the depths of a Minnesota winter, the only draws to leave the comforts of a heated home are an empty pantry, a snow-laden drive, and a job to keep the furnace running. And of course, birds.

Good birding can be found right in your backyard if food and shelter are provided. Common winter birds such as Black-capped Chickadees, Red and White-breasted Nuthatches, Downy Woodpeckers, Northern Cardinals and American Goldfinches can be found in mixed flocks at feeders. American Robins will hang around if the previous summer's berry crop makes it worthwhile. Check out Riverside Park in South Minneapolis, where thousands can be viewed (and heard) at dusk as they come in to roost.

For the more adventurous, the Greater Twin Cities Metro Area has much to offer. Waterfowl remain near open water areas throughout the winter. You can often find rarities ducks such as the Harlequin Duck, Long-tailed Duck, and Barrow's Goldeneye. Swan Park in Monticello is a prime location to view Trumpeter Swans and other waterfowl. Bald Eagles can be found along stretches of the Mississippi and especially in Minnesota Valley National Wildlife Refuge.

Gravel roads can yield Snow Buntings, Horned Larks, and Lapland Longspurs. Rough-legged Hawks, American Kestrels, and Merlins can be sighted working the ditches for voles and mice.

Winter is owl season. *Fort Snelling State Park* and natural areas around MSP airport provide habitat for Great-horned, Barred, and even Snowy Owls.

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ABOUT OUR CHAPTER

Founded in 1945 as the 'St. Paul Bird Club' with twelve members, the Saint Paul Audubon Society now serves the entire East Metro region of the Twin Cities, and has around 2,800 members. Our Member Meetings are held from Sept. to May. For more info please contact leaders at left, or visit www.saintpaulaudubon.org

ABOUT THE CARDINAL Published 6 times a year; articles are due on the 5th of January, March, May, July, Sept, and Nov. Submissions may be edited. Send to karen.levad@gmail.com

Past issues of *The Cardinal* may be downloaded from our website www.saintpaulaudubon.org

ADDRESS CHANGES Call 1-800-274-4201 or NAS website at www.audubon.org to notify the National Audubon Society of a change of address, to continue to receive *Audubon Magazine* and *The Cardinal*.

Audubon MN 651-739-9332
www.mn.audubon.org
Nat'l Audubon www.audubon.org

Check the Minnesota Ornithologists Union website at <https://www.moumn.org> for rarities appearing in the area. This winter a Rufous Hummingbird was a regular at a feeder in Isanti, and a Curve-billed Thrasher was reported at a feeder in Grand Rapids.

For those who wish to venture farther afield, the mecca for winter birding is Sax-Zim Bog, located northwest of Duluth. For more information go to <https://saxzim.org>. The Bog hosts some of the most sought after winter birds in North America. The landscape is laced with dirt roads, making it easy to bird by car. Over two dozen feeder stations attract species such as Pine and Evening Grosbeaks, Boreal Chickadees, Common and Hoary Redpolls, and Gray Jays. White-winged Crossbills can be observed plying seeds from pine cones with their unique bills. The biggest draw to Sax-Zim is the holy trinity of owls: the Boreal Owl, Northern Hawk Owl, and the legendary Great Gray Owl. For winter birding the Bog cannot be beat.

I hope you now feel an itch to bundle up, grab a pair of binoculars, and take advantage of the unique experience of winter birding in Minnesota. It won't be long before spring migration is upon us, so time is running out. Make the most of this winter and remember, there is no such thing as bad weather, only bad clothes.

. Matt Jacobson, President

(Editor's Note: Always wear layers, never wear cotton; check the weather before you go: temp's in the Bog are 15-20 degrees colder on average than in the Cities, stay hydrated, spend money in local stores and cafes, wearing your binoculars so people notice you are there for the birds!)

Saint Paul Audubon Board Meetings
are held at the
Ramsey-Washington Metro
Watershed Office
2665 Noel Drive
Little Canada
Meetings are held from 6:30-8:30 PM
Upcoming Dates: February 6 & March 6

Audubon in Action at the Legislature

Minnesota is a better place for birds and people because of your commitment to fighting for clean water, reducing carbon pollution, and making homes and communities more bird-friendly. Regardless of political affiliation, we must continue to work together as conservationists to address issues that impact us all.

The Minnesota Legislature kicked off the 2017 legislative session on January 3rd. Your voice is needed to protect, restore, and conserve our natural resources.

What to Expect

This will be the first year of the legislative biennium, which means legislators will focus on funding the state's budget. In order to pass a new budget or make other legislative changes Republicans will need Democratic Governor Mark Dayton's approval. Gov. Dayton has signaled his continued desire to support clean water programs and policies. *Audubon Minnesota* will assist those efforts by advocating for budget outcomes that promote clean water.

While the 2017 legislative session is not a bonding year, both majorities have expressed interest in passing a paired down bonding bill. Bonding dollars generally go towards repair, renovation, or replacement of publicly owned buildings, property, and land.



As a result of the election, below is an update on the make-up of the House and the Senate:

Senate

Republicans have a new majority, led by Majority Leader Paul Gazelka. The Senate majority will be held by a single seat (34-33) which will likely necessitate a higher level of cooperation with the Democratic Farm-Labor minority, in order to, pass most legislation. Senator Tom Bakk will serve as Minority Leader for the DFL.

House

Republicans have an expanded majority in the House (76 seats), led by Speaker Kurt Daudt. The DFL will hold 58 seats and be led by Minority Leader Melissa Hortman.

Find your state Senator or Representative at <https://www.leg.state.mn.us/leg/districtfinder>

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An important project that was included in the 2016 bonding bill was funding for the Conservation Reserve Enhancement Program (CREP). CREP benefits clean water by helping landowners install and maintain perennial grasses and flowers on their most erodible acres. Many of you wrote and encouraged your legislators to support bonding for CREP last May. Because of your action and others, CREP was included in the 2016 bonding bill for \$10 million. Disappointingly, the overall 2016 bonding package failed to pass the Legislature, so we will need your help again to appeal for the inclusion of CREP in any bonding bill considered this session.

Whether you are supporting clean water, habitat for birds, or renewable energy, your voice will make a difference. *Audubon Minnesota* will endeavor to keep you informed of relevant actions at the Minnesota Legislature and assist you in making your voice heard.

- We can help by scheduling and facilitating discussion between you and your representatives at the State Capitol.
- Watch for calls to action and consider meeting with your legislators in person to advocate for these important issues.
- You can also make an impact by writing a personal letter or phone call.

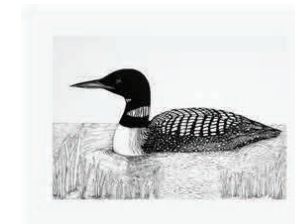
The best way to support policies and state funding for birds is to get involved. Let us know how we can help you participate in our joint mission.

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Legislative Liaison

Don't Forget: "Check Off for Wildlife!"

Look for the Loon on Your State Tax Form
or donate on-line
www.mndnr.gov/non-game/donate



To learn more about how your donation benefits
Non-game Wildlife go to
www.dnr.statemn.us/eco/nongame

Big Changes to Warbler Weekend 2017

St. Paul Audubon Society's 46th annual *Warbler Weekend* will be held May 12-14 (Mother's Day weekend) at Hok-Si-La Park in Lake City, MN. With the closing of the *Villa Maria Conference Center* in Old Frontenac come changes to this popular and important bird census. Located just 6 miles south of our traditional warbler event, Hok-Si-La Park in Lake City will be the hub for everything: gathering, socializing, eating, recording, dispersing, and more.

Check out <http://www.hoksilapark.org/> to learn more about this location which has for many years welcomed SPAS birders.



Magnolia Warbler

The registration fee for *Warbler Weekend* is a mere \$5 per person. Great and reasonably priced food is available on Saturday thanks to *Lake City Kiwanis International*.

Gluten free and vegetarian options are also available. Numerous options are available for those who opt to motel/hotel in the Lake City/Red Wing area. Camping is available at Frontenac State Park and Hok-Si-La Park.

All levels of birders are welcome! Some Saturday leader-led walks might focus on a particular habitat, basic birding skills, bird songs, walking distance, or a favorite place such as Hok-Si-La Park, Sand Point, town cemetery, Villa grounds (if it has not been sold), Old Frontenac, or Frontenac State Park.

While the new location may require some adjustment for birders, the migrants will travel the Mississippi Flyway toward northern breeding grounds as they have done for thousands of years. We and the birds will be rewarded with all the hospitality this area has to offer us. And, happily, SPAS can continue to document Spring bird migration along this particular stretch of blufflands and lowlands of the Wells Creek area of the Mississippi River. Maybe we will have as many registrants as the average number of species seen each year? That would be about 130!

Warbler Weekend Overview

Please Note:

Accommodations: Birders staying overnight need to make their own reservations soon; Lake City and Red Wing are closest.

Advance reservations: are required for all meals including requests for gluten free and/or vegetarian food.

Registration and meal reservations close April 20.

Information Boards: The usual Bird Board, Schedule, and Notices will be posted in prominent places.

Evaluation Forms: We want your input! All birders will be asked to fill out an evaluation form so that we can continue to improve *Warbler Weekend*!

Friday, May 12

Daytime: bird on your own

Evening:

6:30 PM shelter open for socializing.

7:00 PM Program about Lake Pepin
Owling will follow if weather permits

Saturday, May 13

Meals: prepared and served by *Lake City Kiwanis* in Riverside Dining Hall.

8:00 AM Full, hot breakfast

12:00 PM Sandwich with fruit and sweet dessert

6:00 PM Robust spaghetti and salad supper

Special sightings, identification of leaders, and places to bird will be announced during meals.
The *Warbler Weekend Count* will be tallied after the Saturday supper.

Saturday Birding Walks:

6:00 AM

9:15 AM (after breakfast)

1:15 PM (after lunch)

Gather at the Hok-Si-La parking lot to form groups for leader-led walks to

Frontenac State Park

Hok-Si-La north

Hok-Si-La south

And other prime locations

Sunday, May 14

6:15 AM at Hok-Si-La parking lot to bird with leaders

Please report any additions from the Sunday birding to **Bill Stjern** (norskestar@comcast.net) for inclusion in the Final Count.

Birding Lake Pepin

Known as the “warbler capital” of Minnesota, Lake Pepin is the place to be (and bird) in early May, and actually any time of the year. Designated an Important Birding Area (IBA) by *Audubon*, it is described as the “best bird habitat in the State of Minnesota, especially for migrant birds.” According to *Audubon*, “Frontenac State Park regularly records between 20 and 30 species of migrant warblers and the total number of species recorded there is 263, the second highest for a Minnesota State Park.” *Audubon* also lists Hok-si-la Park as an important migratory stopover for songbirds in both spring and fall.

To prepare for Warbler Weekend, you should check out these resources available on line. Just Google “Birding Lake Pepin” and a whole wealth of information becomes available.

- Lake City publishes a really awesome birding brochure available at www.lakecitymn.org/what-to-do/bird-watching/. It provides maps to a whole slew of good birding spots in the area. You can also fill out a form and one will be mailed to you! Heckuva deal!
- Minnesota’s Department of Natural Resources provides specific information on Frontenac State Park including a down-loadable bird list. Go to www.dnr.mn.us to access information about all of Minnesota State Parks.
- Robert B. Janssen, author of *Birds of Minnesota State Parks*, wrote a nice article for *Minnesota Conservation Volunteer* titled “[The Warbler Capital: Bird surveys of all state parks proved what birders have seen for decades: This place is tops for warblers.](http://www.dnr.state.mn.us/mcvmagazine/issues/2015/may-jun/frontenac-state-park-birding.html)” It is available on-line at www.dnr.state.mn.us/mcvmagazine/issues/2015/may-jun/frontenac-state-park-birding.html. It is good reading and helps whet your appetite for *Warbler Weekend*.

Managing Lake Pepin's diverse habitats -- bluffland, prairie, floodplain forest and upland hardwood forest -- requires the collaboration of a number of agencies. *Warbler Weekend* attendees will learn about two Lake Pepin habitat projects at the Friday evening presentation.

Dan Dieterman, Mississippi River Habitat Specialist, will describe interagency efforts to protect and improve floodplain forest habitat and diversity.

Linda Wires, with U.S. Fish and Wildlife Service, will introduce us to *Integrated Waterbird Management & Monitoring (IWMM)*, a conservation program that enables managers to ensure that nonbreeding water birds have the right habitat, in the right place, at the right time.

Warbler Weekend 2017 Registration Form



	Number of persons	Total
Friday night	_____ X \$0	= \$ _____
Registration	_____ X \$5	= \$ _____
Saturday Breakfast	_____ X \$5	= \$ _____
Saturday Lunch	_____ X \$10	= \$ _____
Saturday Dinner	_____ X \$15	= \$ _____

Total: \$ _____

____ Number birding Sunday morning

____ Number individuals requiring **gluten free** food

____ Number **vegetarians**

Make check payable to *St. Paul Audubon Society*.
Your check is your receipt *or* include a self-addressed stamped envelope.

Send check & registration form to
Saint Paul Audubon Society
c/o Tess Rizzardi, 122 W. Winifred St.
St. Paul, MN 55105

No refunds after April 20.

All prices are per person. No refunds for missed meals.

Please print clearly:

Registrant's
Name _____

Street Address _____

City _____

State _____ Zip _____

E-mail: _____

Day/Cell phone _____

Evening phone _____

Names of all guests registering on this form:

For more information please call 651-246-5277 or, preferably, send email to tessmoni.rizzo@gmail.com

Learn more about Lake Pepin! Attend the Friday Evening Program!

Where: One of the Hok-Si-La Park shelters

When: 6:30 PM Socializing and informal birding reports

7:00 PM Program: *Lake Pepin Habitat Preservation*

Greater Backyard Bird Count Feb. 17-20

Launched in 1998 by the Cornell Lab of Ornithology and National Audubon Society, the *Great Backyard Bird Count* was the first online citizen-science project to collect data on wild birds and to display results in near real-time.

Now, more than 160,000 people of all ages and walks of life worldwide join the four-day count each February to create an annual snapshot of the distribution and abundance of birds. In 2016, Great Backyard Bird Count participants in more than 130 countries counted 5,689 species of birds on more than 162,000 checklists!

You are invited to participate in this year's count. For at least 15 minutes on one or more days of the count, **February 17-20, 2017**, simply tally the numbers and kinds of birds you see. You can count from any location, anywhere in the world, for as long as you wish!

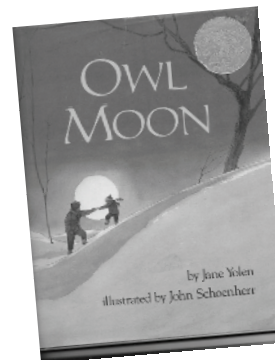
If you've participated in the count before or been part of Project Feederwatch (www.feederwatch.org), you are already familiar with eBird and the process for participating in Cornell Lab citizen-science projects. You can EVEN use your existing login information.

If you're new to the count, or have not participated since before the 2013 merger with eBird, you must create a free online account to enter your checklists. For more information and to sign up go to <https://www.gbbc.org>.

Children's Book Review by SPAS Member Katie Johnson **Owl Moon**

By Jane Yolen, Illustrated by John Schoenherr, 1987 Philomel, New York, NY

Poetic text and spare illustrations all combine to create a book that not only is *about* winter but also *exemplifies* winter in its format. Tightly-knit and spare text and illustrations powerfully -- yet simply -- create an auditory/visual/olfactory/kinesthetic experience of *owling* on a still winter evening that will make you *thankful* if you have already experienced an outing like this, or *longing* to do so, if you haven't already. Even in front of a roaring fire, you will feel the chill and solitude of a memory-laden night-time activity in the woods. Treat yourself to this rare treasure (Caldecott Award winner, 1987). This is one picture book you will *never* outgrow!



Why Count Birds?

Scientists and bird enthusiasts can learn a lot by knowing where the birds are. Bird populations are dynamic; they are constantly in flux. No single scientist or team of scientists could hope to document and understand the complex distribution and movements of so many species in such a short time.

Scientists use information from the Great Backyard Bird Count, along with observations from other citizen-science projects, such as the [Christmas Bird Count](#), [Project FeederWatch](#), and [eBird](#), to get the "big picture" about what is happening to bird populations. The longer these data are collected, the more meaningful they become in helping scientists investigate far-reaching questions, like these:

- How will the weather and climate change influence bird populations?
- Some birds, such as winter finches, appear in large numbers during some years but not others. Where are these species from year to year, and what can we learn from these patterns?
- How will the timing of birds' migrations compare with past years?
- How are bird diseases, such as West Nile virus, affecting birds in different regions?
- What kinds of differences in bird diversity are apparent in cities versus suburban, rural, and natural areas?



If you ever have trouble receiving *The Cardinal* or the National Audubon magazine contact National Member Services.
Phone: 1-844-428-3826
Email: Audubon@emailcomstomservice.com

Join the SPAS Email list.

To get infrequent but timely information about field trips, events, or legislative alerts simply email Chase Davies at ccdavies@aol.com.

Book Review

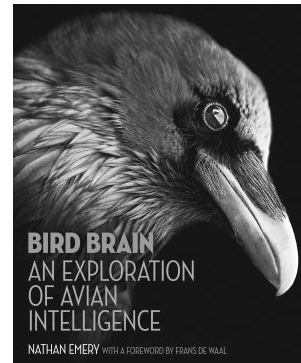
Bird Brain: An Exploration of Avian Intelligence

By Nathan Emery

© 2016, Princeton University Press, Princeton, New Jersey

Have you ever seen videos of Ravens, Crows, Rooks, or New Caledonian Crows performing 3-4-5-6, even 8 tasks to get a food reward? (Type “New Caledonia Crow” into your browser, then click to open a youtube video). These experiments are totally fascinating to watch and marvel about!

Emery provides a fascinating description of the relatively new field of avian cognition. Due to early



misconceptions about the structure of the avian brain, researchers didn't delve into the idea of cognition, intelligence, and ingenuity in birds. Only since the 1990's have researchers been designing experiments to ascertain demonstrations of intelligence – such as precise memory of events, planning ahead, song as speech, versatile tool use and creation,

and, what? Empathy! The book's *Foreword* suggests that we might wish to be rid of such epithets as “birdbrain,” unless we turn them 180 degrees and use them as compliments, not insults!

Using beautiful photography and easily understood charts and graphs, this book does a great job of describing the structure of the avian brain – showing that it contains sections similar to primate and human brains, just in a different topography. In reading and studying the charts, one gains a whole new vocabulary. In addition to the usual words to describe parts of the brain, such as hippocampus, amygdala, and cerebellum, there is the *caudolateral*, part of the *nidopallium* – an equivalent of a mammal's prefrontal cortex – one of the decision-making, thinking centers of the brain, and, the wonders of the *wulst*, the avian brain connection with their vision system.

I have trouble sometimes, in finding my glasses so occasionally I have to wear an older pair a day or two until my “spatial” brain recalls where I left them. The Rufous Hummingbird (brain size of a grain of rice), has such a great spatial memory as to defend *acres* of fields of flowers! But even better than that, he knows *which of those flowers* he visited within the last hour, and, which of them have had time to replenish their nectar so they may be visited again! Now THAT is a brilliant example of avian intelligence!

Researchers found that the bird goes more on the *position* of the nectaring flowers than on the color. They created colored fake flowers and refilled them at the same rate, but then jumbled the colors up a bit. The bird visited a different *color* of flower in the same position as the one he had emptied an hour previously. He simply drank and moved on to the next. Even more amazing is the fact that this bird may have just migrated 4,000 miles back to his well-defended Rocky Mountain meadow from wintering grounds in central Mexico.

Clark's Nutcrackers cache food all summer and fall; 33,000 pine seeds painstakingly removed from pine cones and hidden in over 3,000 locations on the side of a mountain that will be covered in snow for the next 6-7 months. What a great example of *highly-adaptive cognition*, evolved to solve a specific problem – where to hide food in a snowless environment in such a way that you could find it when there is 10 feet of snow on the ground, or, in early-to-mid summer when you need to find food for your brood before the cones are ready to harvest!

What about bower birds, birds-of-paradise, and peacocks, whose *total appreciation of artistic performance* is what attracts their mates? And the parrot family, known for their ability to speak words that we can understand? In a 30-year experiment, an African Grey Parrot named Alex learned colors, shapes, and materials. He could differentiate them, count them, and even wonder what the significance of their placement on a tray was. There have been many studies of how birds communicate: how they learn their own songs, or, what they gain by mimicking others' songs – and virtually every other type of sound as well – including doorbells and car horns!

I found the most interesting chapter to be about tool users and tool makers. This is a wonderful book. It covers a lot more than one can mention in a short review. What fun it will be to see where the research goes next! Maybe we'll find that there are more animals with cognitive brain functions than we can imagine today. We just have to adjust our own brains' train of thought to include new possibilities!

SPAS Member Holly Peirson

Tech-savvy volunteer needed for *The Cardinal*

Wanted: volunteer with technical skills to coordinate the process of labeling and mailing *The Cardinal*. Every other month, this volunteer would obtain current labels online from National Audubon, print them, direct the work at a labeling party (an enjoyable morning with treats and good conversation) and deliver them with help to the post office. If interested, contact Susan Fuller at susan.j.fuller@gmail.com.

SAINT PAUL AUDUBON SOCIETY

PO Box 7275, St Paul, MN 55107-7275
WWW.SAINTPAULAUDUBON.ORG

February–March 2017

Next Deadline 3/5/2017

Welcome to the
Saint Paul Audubon Society!

We're a chapter of the
National Audubon Society.
Our mission is to conserve and restore
natural eco systems, focusing on birds,
other wildlife, and their habitats
for the benefit of humanity and
Earth's biological diversity

*SPAS Members: Please Check our Website
www.saintpaulaudubon.org
for Calendar Updates!*

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Non-profit Organization
U.S. Postage
PAID
Permit # 3795
Twin Cities, Minnesota

Conservation Committee

The Conservation Committee has been busy on a number of fronts. Most recently, the committee has been involved in advocacy work regarding the Rush Line Corridor and the Bruce Vento Trail in east Saint Paul.

The Rush Line project involves developing a bus rapid transit line connecting northeast metro suburbs to downtown Saint Paul. The project is currently in the pre-development stage, though quickly moving to project development once a locally preferred route (known as a locally preferred alternative) is selected. Currently, the Alternative 1-Dedicated Guideway Bus Rapid Transit (BRT) along the County/Rail right-of-way (ROW) from St. Paul to White Bear Lake with a feeder bus connection to Forest Lake, has been preliminarily recommended as the option that best meets the project goals and objectives.

Saint Paul Audubon Conservation Committee has been working tirelessly to oppose this alternative as it would severely degrade a vital natural corridor in the heart of the East Metro. More information about the Rush Line project can be found at www.rushline.org.

The Conservation Committee is also in the planning stages for developing a Bird Guide to the East Metro mobile web map application. If you are tech savvy, have knowledge of birding in and around the East Metro, or have an interest in nature writing, the committee needs your skills!

Please stay tuned for more announcements regarding spring and summer events! As always, we encourage folks interested in getting involved in local conservation work to attend our monthly meeting. We typically meet on the third Monday every month from 4:30-6:00 PM at the Roseville Public Library.

For more information about the Conservation Committee:

Matthew Jacobson at [701-367-5761](tel:701-367-5761) or
Matthew.Jacobson28@gmail.com

Nancy Uppgren at Nancy.Uppgren@icloud.com

Conservation Committee Co-Chair Matt Jacobson

**This is a 'dummy' page,
so that the rest of the
newsletter can be viewed
in 'spreads' format.**

Do not print.