

The Orchid

May 2022

Volume 68, No. 4

peterboroughnature.org

Bulletin of the Peterborough Field Naturalists

Published nine times yearly. Publication Mail Agreement #4005104

Know • Appreciate • Conserve Nature in All Its Forms



A Beaver on Cunningham Pond in May 2020. Photo: Steve Paul

Inside: Spring Outing Reports
Nature in May: The Promise of Spring Fulfilled
Lots of Citizen Science Opportunities
Conclusion of the Tale of the Wrens

In this Issue:

PFN Coming Events 3
 Other Events of Interest 5
 Volunteers Corner 6
 Awards Presentation at 2021 PFN AGM..... 6
 Apply for a PFN Community Projects Grant 7
 Award Recipients at Regional Science Fair..... 8
 Citizen Science: 2022 Butterfly Counts 8
 Outing Report: Waterfowl at Presqu'ile 9
 Outing Report: Lang-Hastings Rail Trail 10
 Outing Report: Spring Stroll in Millbrook 10
 May: The Promise of Spring Fulfilled..... 11
 Ontario Nature: Vote for Nature 11
 New Book by Local Naturalist/ Educator 12
 Citizen Science in the Backyard 13
 Steve’s Swan Sightings..... 13
 From the Archives - Interesting Observations... 13
 Final Excerpt from *Song of the Rolling Earth* 14
 The Orchid Diary 16
 PFN Membership Application..... 20

Welcome new PFN members!

- Hendrik Selles & Joyce Peterson
- Susan & Mike Jones
- Sandy Sims & Kris Kaloudas
- Karen Hill & Martes Altara
- Ray MacLean & Sheila Olan-MacLean
- Bill Oxley & Ann Botham
- Carolyn Pigeau
- Jason Phoenix
- Mary Saso & Doug Price
- Janet Taylor
- Kellie Bonnici



Clockwise from above: White-breasted Nuthatch checking out possible nesting site on April 17 at South Drumlin Nature Area (Cathy Douglas). Wood Duck near the Lang-Hastings Rail Trail on April 17 (Don McLeod). Mourning Cloak butterfly on Hooton Road on April 12 (Cathy Douglas).

PFN Coming Events	
<p>Sunday, May 1 7:30 to 9:30 p.m. Evening outing</p>	<p>Kermit's Friends and Timber-doodles!</p> <p>The dusk air of the spring carries the mating songs of various species of frogs and the sky dance of the American Woodcock (a.k.a. Timber-doodle). Join Martin Parker for a 2-hour outing to listen to and distinguish between the different species of calling frogs. Within the provincially significant Cavan Swamp wetland we should also hear the courtship flights of the American Woodcock and Wilson's Snipe. Bring binoculars and dress for the weather of the evening. Contact Martin at mparker19@cogeco.ca to register for this outing. The participation limit will be in accordance with Public Health requirements on the date of the outing. Details will be sent to those members who have registered.</p> <p>Accessibility: Easy, walking along a closed roadway</p>
<p>Sunday, May 8 8 to 11 a.m. 15 participants</p>	<p>A Walk on the Hogsback Trail, an Esker near Omeme</p> <p>Join Scott McKinlay for a birding and nature hike along the Hogsback Trail on the Omeme Esker. While on our way there, we will be making a couple of stops in the Cavan hills and swamps. The 2.5 km Hogsback trail is hilly and rocky in areas and can be muddy after a rainfall, so wear sturdy footwear. For those who are comfortable with carpooling, we will employ cars at both ends of the trail to ferry our way back to the beginning. Those NOT comfortable with carpooling will need to turn back on the trail at some point. Bring binoculars and wear weather-appropriate clothing. We will be meeting at 8 a.m., west of Peterborough. Contact Scott at smckinlay59@yahoo.ca for further details and to register. Please indicate your preference for carpooling or not at that time.</p> <p>Accessibility: moderate to challenging.</p>
<p>Thursday, May 12 7:30 p.m. Zoom Meeting Invitations e-mailed to members</p>	<p>PFN Monthly Meeting: The Niagara Escarpment, A Natural Masterpiece 450 Million Years in the Making</p> <p>Beth Gilhespy will be presenting a talk on the natural history and geology of the Niagara Escarpment</p> <p>Beth Gilhespy has been Executive Director of the Toronto Zoo Wildlife Conservancy since 2019, an organization that secures funds for Toronto Zoo endangered species conservation programs. From 2017 to 2019 Beth served on the Niagara Escarpment Commission. Between 2004 and 2018 she was Chief Executive Officer of the Bruce Trail Conservancy, where she supervised a staff of 18 and oversaw the activities of more than 1,500 volunteers in land preservation and trail management. Prior to her work at the Bruce Trail Conservancy, Beth worked for 15 years in toxic chemical research and management. She holds Bachelor of Science and Master of Science degrees in physical geography and geology from the University of Guelph.</p>

PFN Coming Events	
<p>Sunday, May 15 8:30 a.m. 10 participants Must be fully vaccinated</p>	<p>Ingleton Wells: Prime Spring Birding</p> <p>This Stoney Lake Kawartha Land Trust property has it all: spring wildflowers, vernal pools and lots of birds. The trail travels through several habitats including mixed forest, meadows and wetlands. There is the opportunity to see several woodpeckers, warblers, wrens, blue birds and possibly the Red-shouldered Hawk. Cathy Douglas will be your guide. She asks that you be fully vaccinated to attend. Bring binoculars and dress for the weather of the day. Sturdy shoes are recommended. Register after May 5 at cddouglas77@gmail.com</p> <p>Accessibility: Easy to moderate.</p>
<p>Saturday, May 21 Rain day Sunday, May 22 8 to 11 a.m. 10 participants</p>	<p>Spring Birding in the Catchacoma Forest</p> <p>The Catchacoma Old Growth Forest is well known for its giant Eastern Hemlocks, some of which have been documented to be over 300 years old! It is also a sanctuary for bird, animal, and plant species.</p> <p>Please join Stewart MacDonald, a birder with over 30 years of experience as we search for spring arrivals, which could include warblers, and other songbirds known to breed in the Kawarthas. Details of the meeting place will be given upon registration. The outing is on uneven trails and could be muddy in some places. It would be considered of moderate difficulty. Good walking shoes are recommended. Insect repellent would also be advised. The outing will be approximately 3 kms in length. Please email Stewart after May 5 at stewjmacdonald@aol.com to register. In the event of bad weather, the outing will be held on Sunday, May 22 at the same time.</p> <p>Accessibility: moderate</p>
<p>Choose from: May 21, 25, 29, June 2 and June 6 30 minutes before sunset</p>	<p>Chimney Swift Roost Counts</p> <p>Chris Risley will once again be coordinating counts of Chimney Swifts entering their roost on five days this spring. PFN members are invited to join him. Come watch 80 to 100 Chimney Swifts enter a roost chimney in downtown Peterborough while learning more about this fascinating little bird. Watchers stand on the top floor of a parking garage and observe the swifts enter one or more chimneys at 30 minutes before official sunset. The watches last about an hour. Bring a lawn chair if you wish. The data are contributed to Project SwiftWatch coordinated by Birds Canada to learn about this declining species. After May 5, contact Chris if you would like to join the watch at (risleych@gmail.com).</p> <p>Accessibility: Easy. No walking involved</p>

PFN Coming Events	
<p>Sunday, May 29 9 a.m. to noon 15 participants</p>	<p>Ballyduff Trails Nature Walk</p> <p>Don McLeod will lead a nature walk along the Ballyduff Trails near Bethany. We will be looking for birds plus wildlife tracks and sign. These trails and the scenery are beautiful! The Ballyduff Trails are on private property owned by Ralph McKim and Jean Garsonnin. They have generously offered their trails to the public through an agreement with the Kawartha Land Trust. PFN members who wish to attend should e-mail Don at donaldmcleod.com@gmail.com after May 5. He will reply with location info and directions.</p> <p>There is some strenuous uphill walking. Walking distance is about 5 km. Optional items to bring include binoculars and camera. If you wish to stay longer, some of us will bring our lunch and folding chairs. There is a nice spot to enjoy more birding and the view.</p> <p>Accessibility: Moderate.</p>
<p>Saturday, June 4 8 to 11 a.m. 12 participants</p>	<p>June Birds & Blooms in Cavan Area</p> <p>Enjoy a hike along a rail trail and ATV trails on the Oak Ridges Moraine. There should be lots of bird song which will help with sightings. Your leader Lynn Smith is proficient using iNaturalist, eBird and Seek and can help you use these valuable phone apps. Bring binoculars and dress for the weather of the day. To register contact Lynn at smithfam@nexicom.net after May 5 and she will provide details and directions.</p> <p>Accessibility: Some hills, therefore easy to moderate.</p>
<p>Note: Recordings of past PFN Zoom meetings can be viewed on PFN's YouTube channel at https://www.youtube.com/channel/UCAgbbqgr4ujZ16qba23LTQQ under the playlist menu.</p>	

Other Events of Interest	
<p>Wednesday, Apr 27 Zoom Meeting</p>	<p>Ontario Nature Regional Meeting</p> <p>Agenda:</p> <ul style="list-style-type: none"> • Presentation by Caroline Schultz, Executive Director on Vote for Nature - Provincial Election on June 2. • Short presentation by Caroline Schultz on The Nature Network Survey response from our clubs and groups. Caroline will summarize what we heard and how we plan to move forward. • Short update by Kristen Setala, Community Science Assistant, on how Ontario Nature is planning bird surveys for Atlas-3 in a variety of Ontario Nature's candidate-protected areas this summer. <p>If interested in attending, please contact Fiona McKay (fcmckay@peterboroughnature.org) for more info.</p>

Other Events of Interest

<p>Wednesday, May 11 6:30 to 8 p.m. Online presentation</p>	<p>Restoring our Relationship with the Land w/ Dr Robin Wall Kimmerer</p> <p>Dr Robin Wall Kimmerer is a mother, scientist, decorated professor, and enrolled member of the Potawatomi Nation. She is the author of <i>Braiding Sweetgrass: Indigenous Wisdom, Scientific Knowledge and the Teachings of Plants</i>, which has earned Kimmerer wide acclaim. This is part of "Time Immemorial" - A TLDSB & PVNCCDSB Indigenous Education Speakers Series.</p> <p>Register at https://bit.ly/timeimmemorialseries</p>
---	---

Volunteers Corner

Call for Outing Volunteers

Sue Paradisis, our outings coordinator, is always looking for more volunteers so please contact her if you are interested. Training is provided and an experienced leader will help until you feel ready to go on your own. She can be reached by phone at 705-559-2061 or email at sueparadisis@hotmail.com.



Text from Awards Presentation at 2021 PFN AGM

Submitted by Rene Gareau, PFN President of PFN

Lola Leach Award

Lola Leach was a member of the Peterborough Field Naturalists through the late 1950s, 1960s and 1970s. She was a long-standing, hardworking, dependable club member. When she passed away in 1985, a memorial was established in her name.

This year the recipient of the Lola Leach award is Lynn Smith.

Lynn is a longstanding PFN member who has served on the Board of Directors and was the club's President in 2015 and 2016. Lynn's commitment to the PFN actively continues as in 2021 she led outings and represented the PFN on community committees including the Harper Park Stewardship Initiative and the Fisheries Management Zone # 17 advisory council. We thank Lynn for her outstanding and ongoing contributions. With iNaturalist close at hand, Lynn truly exemplifies the PFN motto: "To Know, Appreciate and Conserve Nature in All Its Forms". Please join me in congratulating Lynn Smith.

Certificates of Appreciation - 2021 City of Peterborough Official Plan Review

An Official Plan is a municipality's overarching framework for land use, including the protection for natural heritage and natural spaces. Over many years, PFN members have worked diligently in an attempt to proactively influence land use policies for the City of Peterborough, including participation on the City's official plan working group and Natural Heritage Task Force. In November 2021, a public meeting was held under the Planning Act for the new City of Peterborough official plan. Advocacy committee member, Sue Paradisis made a presentation to Council with the PFN's recommendations for natural heritage and protected spaces on behalf of the PFN at this meeting.

Now that a new official plan has been adopted by the City of Peterborough, the PFN takes this opportunity to recognize the outstanding contributions in 2021 by PFN members Ian Attridge, Mike McMurtry, Chris

Risley and community member Warren Dunlop in carefully reviewing, analyzing and providing sound technical input to support the PFN review of the new City of Peterborough's official plan. Thank you to all who participated in this important exercise over the years, and congratulations Ian, Mike, Chris and Warren.

Apply for a PFN Community Projects Grant

The Peterborough Field Naturalist (PFN) Community Projects Grant initiative was created to support members or community partners in enhancing the naturalist community or natural environment in Peterborough and the Kawarthas.

These grants are possible through the generous Bringeman bequest and through donations from our members which have been deposited in the PFN Legacy Fund, managed by the Community Foundation of Greater Peterborough. This is an endowment fund which provides an annual income for the PFN. The Board has allocated part of the annual income to support members and community partners in projects they wish to undertake.

This year the PFN is able to offer a limited number of grants up to \$300. Each application will be reviewed by the PFN Grant Selection Committee. Please attach any supporting documents such as letters of permission if your project is on private or public lands.

The objectives of the PFN Community Projects Grant aligns with the PFN motto: "To know, appreciate, and conserve nature in all its forms."

Eligibility:

PFN Community Projects Grant is available to a member of the PFN or non-profit group for the purposes of completing projects or research that:

1. Enhance understanding of nature through education or research
2. Restore or conserve habitat through stewardship or restoration

When a grant is awarded, it is requested that:

3. Projects are completed within 8 months.
4. Upon completion, a short project report is submitted to the PFN bulletin, "The Orchid". Pictures are encouraged.

Eligible Costs:

Grants may be used to cover project expenses such as supporting volunteer involvement, material costs, printing, data analysis, field equipment or supplies. Overhead expenses such as payroll or salary are not eligible.

Applications Form:

The application form is available on the PFN website www.peterboroughnature.org or by contacting Martin Parker at mparker19@cogeco.ca.

Submission Deadline:

Please submit a completed application to the PFN by June 1 so the grants can be awarded at the June Board meeting.

PFN Award Recipients at 2022 Peterborough Regional Science Fair

Submitted by Martin Parker

For many years the Peterborough Field Naturalists have sponsored four special awards at the annual Peterborough Regional Science Fair. The awards are for the two best projects in the Elementary Category (Grades 4 to 6) and the Junior Category (Grades 7 & 8). The PFN Special Awards are for projects that increase interest in and stimulate study in nature and wildlife, environment, conservation, or pollution research.

In the Elementary Category the two winning projects were:

1st -- Powerful Pollinators: Does Having a Pollinator Friendly Yard Increase the Yield of Tomato Plants

This project documented that pollinators do increase the yield of tomatoes.

2nd -- Cobourg Creek Water Quality

This project looked at water quality in different sections of Cobourg Creek

In the Junior Category the two winning projects were:

1st -- Quantitative Study of Microplastics in Jackson's Creek

This project sampled for the presence of microplastics at various locations along Jackson Creek in Jackson's Park. (Microplastics were found.) This project was also selected to advance to the Canada Wide Science Fair.

2nd -- Vegetation Sanitations: Measuring the Impact of Oil Spills on Oxygen Production of Aquatic Plants

This project examined the impact of oil on aquatic plants. It was also selected to advance to the Canada Wide Science Fair.

Each of these winning projects received \$40 and a copy of the current issue of *The Orchid*. Funding for these awards was from the annual grant from the PFN Legacy Fund, managed by the Community Foundations of Greater Peterborough.

Citizen Science Opportunities - 2022 Butterfly Counts

Submitted by Martin Parker

The North American Butterfly Association coordinates butterfly counts across the continent each summer following the same format as Christmas Bird Counts. A typical count covers an area contained within a circle of 7 ½ miles, the same as Christmas Bird Counts. For each count the circle is divided into smaller units which are covered by individual field parties. The count compiler in structuring the field parties will have an experienced butterfly counter lead each field party. Results of these counts provide valuable information on populations of our native butterflies.

The butterfly counts in this region are:

Presqu'île Provincial Park - Wednesday, June 29

This count is restricted to the park area and is compiled by Kristen Osborne, Chief Park Naturalist. This count is being reactivated after being suspended for the past two years due to COVID-19. Martin Parker has been asked to arrange participation by volunteers from the PFN.

Petroglyphs – Saturday, July 16

This is the 23rd year for this count which covers the eastern end of Stoney Lake north to Aspley and the Sandy Lake Road fens. Traditionally, it has more species than most counts held in Ontario. The compiler for this count is Jerry Ball with Martin Parker providing computer support.

Fenelon Falls – Saturday, July 23

This count is a joint effort with the Kawartha Field Naturalists. This is the 7th year for this count which covers the Fenelon Falls area and northward. The compiler for this count is Martin Parker.

How to Participate

If you are interested in participating in one or more of these butterfly counts please contact Martin Parker by e-mail (mparker19@cogeco.ca) or by telephone 705-745-4750.

Outing Report for March 26: Gathering of Waterfowl at Presqu'ile

Submitted by Don McLeod

Twenty members of the Peterborough Field Naturalists traveled to Presqu'ile Provincial Park for the annual waterfowl outing. It was fitting that Martin Parker, who worked in Ontario Parks, led us into the park during its 100 year anniversary. PFN members have been visiting Presqu'ile for many decades.

Despite frequent rain showers and cool temperatures, waterfowl viewing was rich with high numbers and species. The most common waterfowl were Redhead and Ring-necked Duck, numbering into the many hundreds. Species with lower numbers included Mallard, American Wigeon, Gadwall, Northern Pintail, Common Goldeneye, Bufflehead, Lesser Scaup, Greater Scaup, Long-tailed Duck, Pied-billed Grebe, Horned Grebe plus a few others. Of course, there were the usual Mute Swan and Canada Goose. Altogether there were about 40 species of birds observed.



Northern Pintail. Photo: Don McLeod



A raft of Ring-necked ducks and Redheads. Photo: Don McLeod

Much of the ice in Presqu'ile Bay had melted resulting in some movement of the waterfowl away from traditional hotspots. Ducks were feasting in the newly accessed shallows of the bay. Consequently, the south, west and east shores of the park were a bit lean for waterfowl. The Calf Pasture was also missing the usual high numbers of birds. The good areas on this trip included the shallow waters closer to Brighton and Gosport. The best viewing was at the Brighton Ontario Street Dock Parkette, a known hotspot in eBird. In addition to seeing many waterfowl and the Northern Pintail, we experienced something different with a pair of Canada Geese.

We first paid attention when one of the Geese approached Martin, followed by a 2nd Goose. They both hopped up onto the dock.

Clearly these Canada Geese were habituated to humans and likely were looking for a handout. What quickly caught our attention was that both Geese had leg bands. Attempts to read the bands were not successful at the time. But I took many photos of the birds trying to get different angles on the bands. At

home and using the computer I was able to piece together the band numbers and the contact info. There was a phone number and web address of www.reportband.gov where I entered the relevant data into an online form. I was pleased to receive back certificates of appreciation for the data submission.

The North American Bird Banding Program that manages the banding work and data is a joint effort between the United States Geological Survey and the Canadian Wildlife Service. They sent along some information on the birds. The first Canada Goose was a female banded on June 18, 2013 near Trenton, Ontario. It was described as being 'too young to fly when banded' which I interpret as a juvenile and its age this spring would be 9 years. The second Goose was a male with two leg bands. The info on this bird was that it hatched in 2015 or earlier and was banded near Brighton, Ontario on June 21, 2016. Both birds were banded by the Canadian Wildlife Service. Remarkably, these birds were still relatively close to the area.

With another great trip to Presqu'ile in the books, a big thank you goes to Martin Parker for organizing and leading this outing.



Martin Parker and friendly Canada Goose.
Photo: Don McLeod

Outing Report for April 17: Lang-Hastings Rail Trail

Submitted by Colleen Lynch

Six members of the Peterborough Field Naturalists led by Cathy Douglas walked the Lang-Hastings Trail from Technology Drive to Keene Road looking for birds. Twenty-eight species were



Photo: Cathy Douglas

identified by sight and/or sound. Highlights included American Bittern, Virginia Rail, Wood Duck, Swamp Sparrow, Northern Flicker and Yellow-bellied Sapsucker (Woodpecker). There were

also plenty of American Robins, Song Sparrows and Red-winged Blackbirds. The weather was sunny, cold and windy at times. The outing and beautiful marshland was enjoyed by all.



Virginia Rail photo by Cathy Douglas

Outing Report for April 20 – Spring Stroll in Millbrook

Submitted by Marilyn Hubley

Four PFN members enjoyed a stroll around the property of the former Millbrook Jail. We got 21 species of birds. The highlights were a Pileated Woodpecker that let us get very close and an Eastern Towhee.



Photo: Marilyn Hubley

Nature in May: The Promise of Spring Fulfilled

From the Book *Nature's Year in the Kawarthas* by Drew Monkman

All the promises that Nature has been making since the winter solstice are fulfilled in May. The birds of spring arrive en masse, leaves and flowers burst out all around us and any hint of winter is soon lost in the warmth and the sunshine. Although it seems foolish to talk of a favourite month, for anyone who takes pleasure in watching the seasons unfold, May has no equal. In fact, if you want to fall in love with the natural beauty and diversity of the Kawarthas and have only a fortnight to spare, choose the last two weeks of May.

Not that all is idyllic. May advances in fits and starts depending on the vagaries of the weather. Cold weather is no stranger to the month nor are days of mid-summer heat. But, when the warm weather does arrive, it triggers change at a dizzying pace. This can be frustrating for anyone who is attempting to observe everything new that is happening.



One of our spring ephemeral flowers:
Hepatica - a genus in the buttercup family.
Photo: Ken Morrison

May begins with tree branches bare to the sky and ends with the freshness of new leaf as a green veil is drawn down upon our forests and fence rows. But as the trees leaf out, the spectrum of pastel greens, whites, browns and reds offers a colour spectacle equal to that of fall – at least to those who take the time to appreciate the subtleties, nuances and changes occurring from one day to the next. Woodlots are carpeted with rafts of White Trilliums, fields glow with dandelion gold and lilacs blow heavy with blossom. Although lilac may be the sweetest fragrance of the month, Balsam Poplar is the most pervasive.

Southerly winds this month push avian migrants north to devour the billions of insects feasting on the rapidly developing green canopy. Many of these birds make brief appearances in our backyards as they make their way to nesting grounds further north. The serene piping of White-throated Sparrows and the exuberant song of the Ruby-crowned Kinglet often provide the background music for several days as we toil in our gardens, full of expectations for the new season. The arrival of the birds of spring is no less than a reaffirmation of life.



Photo of Garter Snake by Ken Morrison

Vote for Nature

Reprinted from ontarionature.org

Ontarians will be returning to the polls on June 2. Now is the time to assess the candidates and parties, and their environmental platforms. We must make our voices heard about the urgent need to address the twin crises of biodiversity loss and climate change. Together, we can be the voice for wild species and wild spaces.

Please help make the environment central to this election. Candidates must hear that we will not stand for continued biodiversity loss and climate inaction.



Priority Election Issues

1. Science indicates we need to protect at least 30% of our lands and waters. Yet Ontario has protected less than 11%. Call for candidates in your riding to expand protected areas, a nature-based solution to climate change and biodiversity loss.
2. We are facing an unprecedented and accelerating loss of biodiversity. Call for your local candidates to restore a science-based approach to protect and recover species at risk.
3. Environmental deregulation has gutted protections of the water, lands and wildlife on which we all depend (e.g., amendments to the Conservation Authorities Act, Environmental Assessment Act, Endangered Species Act, Planning Act). Call for candidates to respect the public voice and represent our collective interest in strong environmental laws and policies.

There's only one Ontario and the time to protect it is now. What you can do:

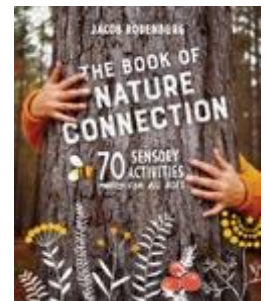
- Sign our Election Action Alert
- Consider the issues that matter the most to you and see where your local candidates stand on them (and check their voting records)
- Write a letter to the editor
- Ask your friends and neighbours to vote for the environment
- Send letters to candidates running in your district asking for specific commitments
- Ask questions at all-candidate debates
- Register to vote, learn about voting and then... vote!

New Book by Local Naturalist/Educator

From <https://newsociety.ca/books/>

The Book of Nature Connection - 70 Sensory Activities for All Ages by Jacob Rodenburg

The Book of Nature Connection is packed with fun activities for using all our senses to engage with nature in a deep and nourishing way. From "extenda-ears" and acorn whistles to bird calls, camouflage games, and scent scavenger hunts, enjoy over 70 diverse, engaging, sensory activities for all ages that promote mindfulness and nature connection.



With activities grouped by the main senses – hearing, sight, smell, touch, and taste – plus sensory walks and group games, *The Book of Nature Connection* is both a powerful learning tool kit and the cure for sensory anesthesia brought on by screen time and lives lived indoors.

Whisper in birds, be dazzled by nature's kaleidoscope of colors, taste the freshness of each season, learn to savor the scented world of evergreens, hug a tree and feel the bark against your cheek. Spending time in nature with all senses tuned and primed helps us feel like we belong to the natural world – and in belonging, we come to feel more connected, nourished, and alive.

Ideal for educators, camp and youth leaders, caregivers and parents, and anyone looking to reconnect and become a nature sommelier!

About the Author: Jacob Rodenburg, nature sommelier, is an award-winning educator, executive director of Camp Kawartha, a summer camp and outdoor education center, and instructor in environmental education at Trent University. He has taught more than 100,000 students and is co-author of *The Big Book of Nature Activities*. Jacob lives in Peterborough, Ontario.

Who Wants to Be a Citizen Scientist? We Need Your Help!

Submitted by Sarah Jamieson, Assistant Professor, Department of Biology, Trent University

There is a general ecology concept, the Predator Protection Hypothesis, which suggests that some bird species may benefit from nesting near other species that aggressively defend their nest sites. For example, geese nesting in the Arctic may have more chicks survive if they build their nest close to a Snowy Owl's nest. Owls are very protective of their chicks and have been seen chasing foxes who get within 500 m of the nest.

Laura Maskell (honours student) and I are curious if this hypothesis might apply in our own backyards. We want to see if breeding Robins that share their space with pet dogs and cats do better than those breeding in yards without pets. Does Fido chasing a squirrel actually help Robins? We need your help to answer this question! We are looking for volunteers (pet owners and non-pet owners) who have Robins nesting in their backyard who will allow us to set up a trail camera to record nest activity. Additionally, for those volunteers with pets, we would ask if you would be willing to record your dog(s)'s time in the backyard for four days.

If you are interested in volunteering, or simply interested in our progress, please join our Facebook group "Peterborough Robins" <https://www.facebook.com/groups/381219056977899>

Steve's Swan Sightings

Submitted by Steve Paul

In the June/July 2021 issue of *The Orchid* - I wrote about my very first encounter meeting X66 ("Sadie") and her untagged, unbanded (UTUB) partner. At the time, I wasn't sure if they were going to stick around, but as all of you read each month in my sightings reports, they have chosen to call the Peterborough area home, staying local all the way through this past winter and spring.



Photo of Trumpeter Swans by Steve Paul

One morning in the middle of April, Laurie and I were driving past a local pond, and saw two Trumpeter Swans cruising around. I always stop to look for tags and, sure enough, I quickly saw the yellow X66 tag on Sadie's left wing. We watched them for a good 20 minutes, and got some nice photos as they came pretty close while feeding. Later that morning, they moved to Thompson Bay where they spent all last summer. I expect Thompson Bay will be their "go-to" spot for 2022 as well.

As I mention each month, please consider reporting all sightings of Trumpeter Swans you see either to me through email (stevepaul70@gmail.com) or through the other resources published in the April 2022 *Orchid*. This information is very important for tracking them and learning about their breeding habits. If you have any additional questions, or would like to get more involved with monitoring Trumpeter Swan activity, please reach out to me.

From the Archives -- Interesting Observations

Submitted by Martin Parker

Nature's Happenings - *The Orchid*, June 1964, Vol 9, No. 6

Morley Powell reported an interesting incident about Starlings around his house [during] the later part of the winter. On cold mornings these wily birds were noted perched along the edge of the chimney pots, heads out, 'getting thawed out' from the exhaust of the furnace -- another evidence of 'wisdom in the wild'.

A report from Brendan Lee. Just outside Lakefield a large Muskie was found dead. Tightly clamped in its jaws and also dead, a one and half to two foot American Eel. Evidently in attempting to evade being swallowed the eel had wedged its head and part of its body in the gills of the Muskie, and the Muskie's jaws were tightly clamped on the tail part of the Eel. The Muskie likely drowned and the Eel died of injury or starvation.

Editor's Note: Interesting nature observations are always welcome in *The Orchid*.

Excerpt from *Song of the Rolling Earth* by John Lister-Kaye

When we last left off in the April 2022 Orchid, the author had taken home a nest box in need of repair only to discover that it was filled with very cold Eurasian Wrens trying to keep warm amid a cold snap in the Scottish Highlands. He warmed the wrens in a bowl and awakened them to the point that the bowl "ticked like a bomb".

I don't know how close to death they had been. They were certainly torpid and apparently comatose; eyes tight shut and little fuse-wire feet clenched tight. The one that had been in my pocket was quite dead. Perhaps it had been the one nearest the entrance hole, the one exposed to sharpest chill. I doubt that the rest could have survived another frosty night. It had been too cold for too long. At Aigas we have recorded minus eight degrees Fahrenheit [-22°C] on a few numbing occasions, lasting ten days and driving frost two and a half feet into the ground. Three consecutive winter weeks of twelve or fifteen degrees of frost is not unusual up these glens.

Later I was to learn from the Handbook that the record is sixty-one wrens communally roosting in a nest box and ninety-six in a loft, both in severe weather. I learned too that they squat up to two and three layers deep, heads facing inwards, tails towards the entrance or sides. Also it seems it's not altogether a happy arrangement. They don't really like it, but it's their only hope. Mr Armstrong's 1955 observation is that 'much squabbling occurs at [the] roost, and up to four or five birds [have been] seen falling in a bunch as they tried to evict one another'.

The remarkable *Handbook* publishes seventeen and a half large pages of small print on *Troglodytes*. Six and a half of them are dedicated to its song. Someone once told me that if the human eye were as important to humans as the kestrel's eye is to the kestrel, each human eyeball would weigh four and a half pounds. By the same logic the wren's voice is 37.1 per cent of its worth. I rank it higher than that. It is, quite simply, dazzling. The *Handbook* again:

Behaviour combines quiet skulking with frequent, noisy and irascible squabbles with other birds; actions include obvious bobbing, tail-wagging, and body-swivelling, and amazing vibrating of the whole bird during singing. A well-structured rattling warble of clear shrill notes, delivered with remarkable vehemence. A pulsing warbling phrase delivered as if the bird is trying to burst its lungs.

My twenty wrens were now a problem. I was reluctant to put them outside again. I feared that they had insufficient left in them to cope with another night of grinding cold. I transferred them to a cardboard



A close relative of the Eurasian Wren: the Winter Wren. Photo: Cathy Douglas

shoobox. They made no attempt to fly, although they did scuttle around the bowl like mice, trying to evade capture. It was as if they knew that flying would expend too much vital strength, let out too much heat – that they weren't ready to go. I put the box in the boot room where it was cool but well above freezing. I placed some finely grated cheese and some water in jam-jar lids and left them alone in the dark.

I resisted the temptation to go back and look. I thought they needed peace and rest, so stayed away right through that night and until ten o'clock the following morning. I reckoned that ought to be long enough. I lifted the lid: twenty wrens looked up at me from forty shiny dots of eye. The cheese had gone. Every last curl. I had wren cheeselets in a box. Twenty light bites. I was thrilled. Not only did they look well again, but they were cheese-filled and fluffed out like canapés. I set the lid aside and gently reached inside to pick up the jam-jar lid to refill it. There was an explosion of wrens. A multiple jack-in-a-box. Cave-dwellers burst out in every direction. A whirring diffusion of winged cheeselets scattered to every corner of the boot room.

The Aigas boot room contains more footwear than an old-fashioned shoe shop. They stand in rows on shelves all round the room. There were then, and are still, boots of every size and shape from my long leather riding boots to little red wellies that briefly served the twins as toddlers and had never been given away. There were the abandoned boots of years of rangers as well as all those of a large, outdoor family. There were dozens of dark caverns for cave-dwellers. Every time I approached a perching wren it darted off into another cave. I went from boot to boot catching nothing. In no time at all I was defeated. I gave up.

I grew cunning. If they liked cheese I would give them cheese. I would put the cheese in a box, prop the lid open with a stick tied to a long string and retire to outside the window. As soon as a few wrens entered the box I would pull the string and – *Hey Presto!* – I would have them back in hand. All I had to do was repeat the process until I had caught all twenty.

I sat outside in the cold for an hour and a half and froze. I gave up for the second time. No wren emerged from a single cave and the cheese remained untouched. In disgust I abandoned my ploy. I took the nest box back to the tree and nailed it up again. I warned everyone to be very careful when putting on a boot and I tried to forget about wrens. I succeeded, until the following morning.

The day dawned bright and frosty. I came downstairs late and hurried about my usual daily chores. The sun beamed in through the windows, flooding the house with yellow light. As I walked down the passage towards the boot room on my way to the back door, I could scarcely believe my ears. The corridor rattled with birdsong. Pulsing warbling phrases bombarded my ears with remarkable vehemence. Crescendos of shrill melodies were bursting their lungs all round me. The air vibrated with trilling so loud that I had to hold my hands to my ears. I ran out into the bright sun. I propped the back door wide open. I left it open all day.

One by one they emerged, trickling out like guilty children, fluttering along close to the ground and away into the frosty shrubbery of the garden. What was to surprise and delight me most of all happened a few days later when I was standing outside the garage in the chill dusk, frost crisping the grass all round me. I saw two wrens come flickering through the branches to the same tree. They dived straight into the nest box as if there were no time to lose. I stood quietly and watched. In the next few minutes another eighteen wrens came whirring in, scurrying from tree to tree, chucking and chittering angrily to each other just as the book says: 'Sites often traditional. Nightly establishment of roost seems to be initiated by a leader, probably a resident male, with much agitation.'

That spring wren song split the air asunder. It cleft a vibrating wake through the dawn chorus, gliding the air, hallowing the morning. Now that I had a locus, now that they were *my* wrens, I wanted insight. The song was personal now, intimate and precious. I heard them as sparks of rage against winter, pearls of morning dew, fleeting glimpses of the Everlasting. They were demi-semi-quavers of radiant hope.



The Orchid Diary



A summary of noteworthy observations by PFN members and others in Peterborough County. Information compiled from e-bird, Drew Monkman's Sightings website, PTBO Sightings and individual submissions. Please submit your interesting observations to Martin Parker at mparker19@cogeco.ca or phone 705-745-4750. FOY: First-of-year, LH Trail: Lang-Hastings Trail, NFC: Night Flight Call station which records call notes of birds passing over.

Special Winter Visitors	
Carolina Wren -- continued in the Nicholls Oval area during period -- heard singing along Rotary Trail	
Mar. 16	Redheads (3) on Little Lake by David Britton. Hermit Thrush in Otonabee Gravel Pits CA by Luke Berg & Cathy Douglas.
Mar. 17	Snow Goose at the Otonabee Gravel Pits CA by Luke Berg. 2 Gadwall on river between Locks 22 and 23 by Cathy Douglas & Dave Milsom. 1 Gadwall at Lakefield Marsh by Scott McKinlay. Redheads : reports from Lakefield Marsh (18), Little Lake (20), between Lock 25 and Lakefield (4) & Trent River off Asphodel Beach (40) -- all by numerous observers. Present for days following throughout the region. Red-shouldered Hawk over Lakefield by Iain Rayner. Rusty Blackbird along Duncan's Line south of County Road 2.
Tundra Swans	
Movement through region on March 17: 45 in flock flying over Bensford Road by Henrique Pacheco, 10 in 2 nd Line field east of Bailieboro by Scott McKinlay, 10 in Lakefield Marsh by several observers, & 43 in flyover at Otonabee Gravel Pits CA by Luke Berg -- reports continued throughout the month.	
Geese in Field on 2nd Line east of Bailieboro	
The low-lying field with several seasonal ponds has been a gathering spot for various species of geese during the period. Canada Geese were the most abundant with up to 600 some days. Cackling Geese were located on March 17 by numerous observers and continued regularly until April 2. Snow Goose on March 18 by Donald Sutherland. 4 Greater White-fronted Geese arrived on April 2 (remained to April 4) by many observers.	
Mar. 18	Numerous reports of Cackling Goose - 1 on Little Lake off Mark St. ramp, 1 along Airport Road, & 1 off Beavermead Park. Little Lake bird still present next day. Snowy Owl in area of Peterborough Airport by Marilyn Hubley & Jane Kroes. Gadwall - 2 at Hall's Landing by Donald Sutherland & 1 above Lock 25 by Martin Parker.
Mar. 19	Turkey Vulture arrived along Emerald Isle Road according to Bill Snowden.
Mar. 20	2 Gadwall still present at Hall's Landing by several observers. Tundra Swan (20) - flyover in area of Cedar Valley by Donald Sutherland. Red-shouldered Hawk in Mather's Corner area by Donald Sutherland & Cathy Douglas and another over city by Dan Chronowic. Snow Goose on Duncan's Line south of Cty Rd 2 by Cathy Douglas. Osprey returned to nest platform at Cty Rd 2 at Keene Road by JB Jaboor.
Mar. 21	Female Red-winged Blackbird at the feeder of Bill Snowden, Upper Buckhorn Lake. 2 Cackling Geese on Dummer Alvar by Luke Berg. 1 Cackling Goose with Canada Geese at Mervin Line by Zach Wile & Rosemary Minns. 3 Tundra Swans on Trent River off Asphodel Beach by Donald Sutherland. Gadwall report: 1 at Mather's Corners by Donald Sutherland, 1 by Laurie Healey on 2 nd Line Bailieboro, and 2 at Blind Channel, Pigeon Lake by Donald Sutherland.

	<p>Glaucous Gull off Beavermead Park by Natasha Carr-Morrill & Bill Crins. 10 Tundra Swans in Lakefield Marsh by Jess Daze & Cathy Douglas. 2 Double-crested Cormorants & 1 Wilson's Snipe at Otonabee Gravel Pits CA by Carling Dewar. Snowy Owl along Douro 8th Line by Mike Burrell. Eastern Phoebe at South Bay, Stoney Lake by Cathy Douglas.</p>
Mar. 22	<p>Gadwall still present at Mather's Corners by John Bick & Ben Taylor. Ring-necked Pheasant along Hwy 28 in Lakefield area by Jess Daze. Tree Swallows (3) on river between Nassau Mills and Lock 22 by Henrique Pacheco, Dolan Bohnert & Kevin Gevart - report from river during month but in small numbers. 4 White-winged Crossbills along Cty Rd 40 south of Stoney Lake by Donald Sutherland.</p>
Mar. 23	<p>Horned Grebe & Double-crested Cormorant on Little Lake by Chris Risley - seen on days following by many. Common Loon on Little Lake by multiple observers - continued for several weeks. Golden Eagle near Millbrook by Jeff Stewart.</p>
Mar. 24	<p>Mallard/Northern Pintail hybrid was located at Mather's Corners by Ken Fulsang and by others on this date and following days. Red-breasted Merganser at Fothergill Isle Causeway by Luke Berg. Virginia Rail detected by NFC near Lakefield by Iain Rayner. Eastern Meadowlark along Nicholson Road by Jerry Ball. Green-winged Teal & Killdeer in pond opposite Pinecrest Golf Course.</p>
Mar. 25	<p>Blue-winged Teal at Mather's Corners by multiple observers. Long-tailed Duck on Little Lake by Ken Fulsang & Andrew Brown. Red-breasted Merganser in Lakefield Marsh by Matthew Garvin & Iain Rayner.</p>
Mar. 26	<p>Blue-winged Teal at Gannon's Narrows by Andrew Brown & Olivia Maillet. Red-breasted Merganser on Little Lake by many observers.</p>
Mar. 27	<p>Blue-winged Teal on Little Lake by John Bick Glaucous Gull within flock of Ring-billed Gulls at Millenium Park by Marilyn Hubley.</p>
Mar. 29	<p>Rough-legged Hawk along Duncan Line by Cathy Douglas.</p>
Mar. 30	<p>American Woodcock was flushed on the property of Lynn Smith near Cavan. Yellow-bellied Sapsucker at Marvin Line by Donald Sutherland & Heritage Line by Maureen Smith.</p>
Mar. 31	<p>American Bittern near Douro by Bruce Kidd.</p>
Apr. 1	<p>Otter and Muskrat were present on the ice at Hall's Landing by Martin Parker. Common Loon -- Don McLeod observed an individual land on Lancaster Bay, Chemong Lake during a snow flurry. Swamp Sparrow along Mervin Line by Cathy Douglas. Snowy Owl still present at airport by Tony Barrett. Great Blue Heron at Mather's Corners by Jerry Ball.</p>
Apr. 2	<p>2 Otters on the Indian River at Keene & 1 Muskrat on Duncan Line Bay by Jerry Ball.</p>
Apr. 3	<p>Eastern Towhee at Hope Mill CA by Pam Martin. 27 Tundra Swans on Bailey's Bay, Chemong Lake by Don McLeod. 4 American Woodcock, 1 Wilson's Snipe and 1 Leopard Frog along Hooton Drive by Jerry Ball and Martin Parker.</p>
Apr. 4	<p>Vesper Sparrow at Bellmere Winds Golf Resort by Donald Sutherland. Lone Tree Swallow at nest box on Harrington Line, Ennismore by Bill Snowden.</p>
Apr. 5	<p>Pair of Eastern Bluebirds investigating nest box on property of Lynn Smith. Red-necked Grebe on Little Lake by multiple observers.</p>

	Virginia Rail along Bartlett Road by Donald Sutherland.
Apr. 6	Mourning Cloak (butterfly) along Allendale Road, Lang by Robert DiFruscia Mourning Cloak, Eastern Comma & Compton's Tortoiseshell (butterflies) along Charlie Allan Road off Cty Rd 507 by Jerry Ball & Ken Morrison Coltsfoot in boom along Charlie Allan Road by Jerry Ball & Ken Morrison. Snowy Owl still present at Peterborough Airport by Tony Barrett - present until April 10. Red Crossbill (2) in north end of city by Luke Berg. Vesper Sparrow along Towerhill Trails by Colin Jones.
Apr. 7	Bill Snowden reported the ice has disappeared from Upper Buckhorn Lake. White-winged Scoter on Lake Katchewanooka off Stenner Road by Dave Milsom & Iain Rayner. Red-necked Grebe on Rice Lake off Serpent Mounds Park by Luke Berg.
Apr. 8	Eastern Phoebe in Jackson Park by Murray Palmer. Long-tailed Duck on Little Lake by multiple observers. Virginia Rails were present in Cavan Swamp Wildlife Management Area by Kevin Gevaert and along the LH Trail between Drummond and Heritage Lines by Luke Berg - many reports from around region in days following.
Apr. 9	Otter emerged from hole in ice and fed repeatedly by Paul Frost and Martin Parker. Dark-eyed Junco & American Tree Sparrows still coming to Bill Snowden's feeder, Upper Buckhorn Lake. Also first Eastern Meadowlark in Ennismore area. Pectoral Sandpiper along Tara Road, Ennismore by Donald Sutherland - present for next few days by others.
Apr. 11	Bonaparte's Gull at the Otonabee Gravel Pits Conservation Area by Luke Berg. FOY Chipping Sparrow (2) along Keene Road by Steve Paul.
Apr. 12	Snapping Turtle was in shallow stream within Jackson Park by Murray Palmer. 1 Painted Turtle , calling Western Chorus Frogs, Spring Peepers along Sandy Lake Road by Jerry Ball & Robert and Joan DiFruscia. Also Eastern Comma, Compton's Tortoiseshell and 17 Mourning Cloak . Also 9 Mourning Cloak on Hubble Road. At a heronry, found a Canada Goose occupying one of the old heron nests. Snow Goose in flock of Canada Geese at Nephton Ridge by Luke Berg. Glaucous Gull on north side of Little Lake by Mike Burrell and the next day by Iain Rayner
Apr. 14	Wood Frogs, Spring Peepers, Pickerel Frog and Western Chorus Frogs calling from a wetland off the LH Trail west of Villiers Line by King Baker. Pair of Sandhill Cranes in corn field off David Fife Line by Michael Gillespie. A large raft of ducks was present off the Mark St Boat Ramp - highlights -- 2 White-winged Scoter , 2 Long-tailed Duck , Red-necked Grebe along with Bufflehead, Greater & Lesser Scaup, Redhead, Ring-necked Duck, Common Goldeneye , and Hooded Merganser by many observers. FOY Pine Warbler in Beavermead Park by Zach Wile. FOY Caspian Tern off Mark Street ramp by Matthew Garvin. FOY Clay-coloured Sparrow with Fox Sparrows in Rogers Cover by Andrew Brown.
Apr. 15	Report from Catchacoma Lake area by Ken MacDonald - pair of Red Crossbills, American Woodcock , many Pine Siskins and Moose tracks along Cty Road 507. Canvasback at Briar Hill Bird Sanctuary by multiple observers. FOY Northern Rough-winged Swallow at Briar Hill Bird Sanctuary by Matthew Garvin. FOY Upland Sandpiper in Darling Wildlife area by Scott Gibson.
Apr. 16	Pine Warbler, Brown Creeper & Hermit Thrush in Catchacoma Lake area by Ken MacDonald

FOY **Solitary Sandpiper** on Douro Ninth Line by Luke Berg & Cathy Douglas.
 FOY **Great Egret** in wetland off Hwy 7 east of Drummond Line by Donald Sutherland and others.
 FOY **Broad-winged Hawk** over Lakefield Lagoon by Cathy Douglas
 FOY **Cliff Swallow** on river between Locks 23 and 24 by Luke Berg

PFN Board of Directors				Other Volunteers	
President	Rene Gareau	rene.gareau@sympatico.ca	705-741-4560	Membership Secretary	Jim Young 705-760-9397
Vice-President and Outings Coordinator	Sue Paradisis	sueparadisis@hotmail.com	705-559-2061	Orchid Editor	Kathryn Sheridan orchid@peterboroughnature.org
Treasurer	Ted Vale	treasurer@peterboroughnature.org	705-741-3641	Orchid Mailing	Mary Thomas
Secretary and Liaison with Juniors	Anda Rungis	rungisa@gmail.com	613-298-9062	Webmaster	Chris Gooderham webmaster@peterboroughnature.org
Digital Comms Coordinator	Marilyn Hubley	media@peterboroughnature.org	705-760-9378	Jr. Naturalists	Activities on hold due to COVID-19. Board contact: Anda Rungis
Meeting Coordinator	Steve Paul	stevepaul70@gmail.com	705-930-8370	Ecology Park Feeders	JB Jaboor, Kathryn Sheridan
Assistant Meeting Coordinator	Phil Shaw	pshaw78@hotmail.com	705-874-1688	Orchid Diary	Martin Parker
AGM and Zoom Coordinator	Reem Ali	reemest@hotmail.com	705-868-0060	Citizen Science Projects	Martin Parker and Daniel Cadieux
Assistant Membership Secretary	Cathy Douglas	cddouglas77@gmail.com	905-751-5292	PFN Advocacy Committee	Martin Parker, Ted Vale, Sue Paradisis, Anda Rungis, Rene Gareau
Ontario Nature Representative	Fiona McKay	fcmckay@peterboroughnature.org		Policy Committee	Reem Ali, Anda Rungis, Fiona McKay, Ted Vale, Rene Gareau, Josh Russell.
Director at Large	Daniel Cadieux	dm.cadieux@gmail.com	416-994-7978	Audit Committee	Sue Paradisis and Bruce Kidd
Director at Large	Martin Parker	mparker19@cogeco.ca	705-745-4750	Signage Committee	Martin Parker and Steve Paul
Board Intern	Josh Russell	josh russell@bleackley@trentu.ca	705-957-9789	Harper Park Stewardship Cmte.	Lynn Smith, Rene Gareau, Marilyn Hubley, Ted Vale, Sue Paradisis.
				Gala Committee	Steve Paul, Cathy Douglas, Sue Paradisis, Rene Gareau.

Peterborough Field Naturalists, P.O. Box 1532, Peterborough, Ontario, K9J 7H7

PFN on Social Media:	
 Facebook Peterborough Field Naturalists	 YouTube peterboroughnature
 Instagram @PtboNature	 TikTok peterboroughnature
 Twitter @PtboNature	

Orchid submissions are encouraged!

The submission deadline for the next issue is Friday, May 20
 Send submissions to Kathryn Sheridan via email: orchid@peterboroughnature.org
 or post mail to: PFN, PO Box 1532, Peterborough ON K9J 7H7



Left: Great Egret on April 16.

Right: Osprey carrying a fish on April 11.

Photos by Robert Difrussia

Membership Application Form

Memberships may be obtained by mailing this completed form to:

Peterborough Field Naturalists
PO Box 1532
Peterborough Ontario K9J 7H7



PETERBOROUGH FIELD NATURALISTS

Contact Information:

Name(s):	Phone(s):
Address:	Email(s):

I would like to receive The Orchid by (pick one): Mail Delivery Email Both

Membership type and fee schedule:

Notice: Membership fees provide only a small part of the funds required to operate the Peterborough Field Naturalists. Donations from members like you help us offer a diverse range of programming for everyone. Please consider including a donation with your membership so that we can continue to serve you and the Peterborough community. **Please make cheques payable to Peterborough Field Naturalists.** For E-Transfer go to <https://peterboroughnature.org/membership/join-online/>

I have included a donation with my membership fees:

Yes or **No**

If yes, amount: \$ _____

1. Single Adult \$30 2. Single Student or Youth \$15 3. Family \$40*

*** Please give the names and ages of children wishing to enroll in the Junior Field Naturalists:**

Name	Age	Name	Age

<<< New Member Information >>>

Main interests:	How do you hope to participate?
<input type="checkbox"/> Natural Environment <input type="checkbox"/> Reptiles and Amphibians <input type="checkbox"/> Botany <input type="checkbox"/> Birds <input type="checkbox"/> Aquatic Life <input type="checkbox"/> Geology <input type="checkbox"/> Insects <input type="checkbox"/> Astronomy <input type="checkbox"/> Mammals Other: _____	<input type="checkbox"/> Outings <input type="checkbox"/> Citizen Science <input type="checkbox"/> Meetings <input type="checkbox"/> Junior Naturalists

Volunteers are always needed. Are you interested in any of these activities?

- | | | |
|--|---|---|
| <input type="checkbox"/> Join the PFN Board | <input type="checkbox"/> Sit on research or conservation committees | <input type="checkbox"/> Lead an outing |
| <input type="checkbox"/> Assist with meetings | <input type="checkbox"/> Work on field projects | <input type="checkbox"/> Help with the Orchid publication |
| <input type="checkbox"/> Help the junior naturalists | <input type="checkbox"/> Give a presentation | |

Liability Waiver (New and Returning Members):

In consideration of the Peterborough Field Naturalists (PFN) accepting this application, I hereby for myself, my heirs, executors, administrators and assigns forever release and discharge the PFN, their officers, directors, servants and agents from any liability whatsoever arising from my participation in PFN activities, whether by reason of negligence of the PFN or its representatives, or otherwise. I affirm that I am in good health, capable of performing the exercise required for field trips or other activities in which I participate and accept as my personal risk the hazards of such participation. As a member of the PFN and/or as a parent / guardian of a member under 18 years of age, I have read and understood the above, and accept its term on behalf of all my underage children.

Signature: _____ **Date:** _____