



Nature London

2019-20

Annual Report

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PRESIDENT'S REPORT

This report, which covers the period from September 1, 2019 to August 31, 2020, also covers a period that is unprecedented in the history of Nature London and in our lives. It started off normally enough for almost six months. It then changed dramatically as measures put in place to slow the spread of coronavirus disease 2019 (COVID-19) affected our programs and operations that involved in-person meetings.

The autumn of 2019 was typically active with field trips, Indoor and Birding Wing Meetings at the Civic Garden Complex (CGC), the annual Awards Banquet at the Greenhills Golf Club, the Christmas Bird Counts, the publication of another issue of *The Cardinal*, publication of our club brochure, and continuous updating of our website, e-Newsletter, and Facebook page. In 2019, Nature London also formally recognized and thanked Jim Cushing with the W.E. Saunders Award of Merit, Norm Corrin with the Special Recognition Award, and Muriel Andreae, Kathy Ellis, Gail McNeil, Bob McGee, and Henry Przysieszny with Thank You (Suncatcher) Awards.

We came into 2020 with much enthusiasm for what the 2020s would bring our way. With thanks to Pat Tripp, there was another successful season in January and February of Nature in the City, our collaboration with the London Public Library. Our 2020 Annual General Meeting was held on February 21, 2020 where we were able to summarize the numerous activities and events of 2018-2019, to discuss Nature London's financial position, and to introduce the roster of board members and appointees who would lead the club through 2019-2020; however, not long after this, in mid-March, along with much of the rest of the world, we realized that maintaining the status quo was untenable and that in-person meetings scheduled to be held at the CGC had to be cancelled—a decision that was subsequently made for us anyway when the City of London closed the CGC. This situation persists at the time of writing (January 2021) and will likely continue for months longer. Not long afterwards, club-sponsored outdoor activities were cancelled as well.

So . . . now what? Well, we still had *The Cardinal*, the e-Newsletter, our Facebook page, our website, and our Nature Line available as means of communicating with each other and, like many other organizations, we started learning how to conduct meetings using the video telephony service Zoom, with our first board of directors Zoom meeting being held on April 14, 2020 and our first virtual Friday evening meeting being held on May 22, 2020. Further, with COVID-19 infection levels being relatively low in our region during the summer of 2020, the Chimney Swift monitoring program was able to begin again on July 14, 2020 following consultations with the Middlesex-London Health Unit and the development of a COVID-19 safety protocol. And, finally, by mid-August we set up a process and protocols to reinstate field trips, albeit it on a more limited basis than previously, and the first of these was held on August 29, 2020.

Nature London's Eco-Grants Program continued to be implemented in 2019-2020 with grants being given to the Thames Talbot Land Trust for a trail bridge at the Meadowlily Nature Preserve, the establishment of a pollinator garden in collaboration with ReForest London, and a naturalization project at Meander Creek, also in collaboration with ReForest London.

As part of our continuing quest to polish and enhance our communications with our members, allied organizations, and the general public, we designed and produced an attractive new stand-up display banner, thanks especially to the efforts of Bernie VanDenBelt, Hugh and Sylvie Casbourn, Betsy Baldwin, and Ryan McNaughton. Unfortunately, due to the pandemic, we haven't had much opportunity to show it off. We are looking forward to a chance to do so!

Also, thanks to Chris Baldock's interest and initiative, Nature London launched a new YouTube Channel on August 31, 2020. As time goes on, I expect it will become an increasingly important vehicle for Nature London's communication and outreach.

The pandemic has had the effect of increasing our reliance on virtual and digital communications, or perhaps has just accelerated an inevitable trend, and we owe a special vote of thanks to the stewards of our various communications outlets for their efforts above and beyond as we try to keep members informed and engaged. We also introduced new processes and systems (e.g., for organizing field trips) that had not been envisioned, let alone implemented, as recently as March 2020. Some of these may be maintained in the interests of efficiency even after the need for physical distancing is just a memory.

In concert with other environmental organizations, Nature London was active in raising concerns about proposed legislative and regulatory changes whose potential environmental impacts needed to be flagged. Consistent with our Mission "To Preserve and Enjoy Nature" and our organizational objectives, the areas of concern included proposed changes to the mandates of the conservation authorities, proposed changes to the Provincial Policy Statement, proposed amendments pertaining to numerous laws and regulations as presented in the omnibus Bill 132, and proposed amendments to the Rondeau Provincial Park Management Plan. All our interventions are aimed at providing constructive input from an environmental perspective to government decision-making processes.

As an all-volunteer organization with a broad portfolio of activities and programs, Nature London's success as an organization depends on maintaining a cadre of dedicated volunteers; nevertheless, there comes a time when even the most dedicated people must, for various reasons, step down. In 2019-2020 we were sorry to see the departures of Irma Harris from the Board, Tom Reaume, Leslie Rockwell, and Ron Martin from *The Cardinal* Editorial Committee, Sheila Scott as Publicity Administrator, and Roslyn and Jim Moorhead as Natural Areas Guide Editors. Your

contributions are greatly appreciated and form part of the history and continuity of a venerable natural history organization that has been active in London for more than 156 years.

As we depart 2019-2020 and look forward to 2020-2021, we can do so with guarded optimism that the pandemic will cease to be such a focus of attention as vaccinations roll out and take effect and we can once again explore nature more widely and more freely in companionship with like-minded friends and colleagues.

Gordon Neish

PAST PRESIDENT'S REPORT

It wasn't until I became president that I came to fully appreciate the scope of activity within Nature London. There is an astonishing number of "moving parts" within the club including over 30 appointed positions. Often, these appointees oversee committees involving even more individuals. To think that all of this activity is undertaken and coordinated entirely by volunteers makes it that much more impressive.

I would like to acknowledge the many volunteers who have stepped forward to keep Nature London "humming". Many have roles that are "behind the scenes", and the fact that we know so little about them is a testament to how well they perform their tasks. To those who have completed their term in a particular role: thank you for dedicated service, service that has spanned multiple years in many cases. To those extending their service: thank you for the experience and sense of continuity you bring your position. And to those who have stepped up and into a new role this past year: thank you for bringing the new ideas and perspectives that are needed to keep the club vibrant.

Our traditional ways of doing things were abruptly upended with the arrival of the COVID-19 pandemic during the latter part of the year. Our special thanks go to all those who have helped the club transition quickly to new ways of doing things. Particular thanks go to the coordinators of our indoor meetings and field trips as well as to our webmaster, Chris Baldock.

In closing, I would like to acknowledge the efforts of Norm Corrin. As our Volunteer Coordinator, Norm is one of the linchpins of the organization, matching the interests and skills of our volunteers to the various needs within the club. Thank you, Norm!

Bernie VanDenBelt

ARCHIVES

Nature London Archival Fonds

The bulk of the Nature London (NL) fonds is housed, free of charge, in the restricted-access area of the London Room of the Central Public Library (LPL). NL is grateful to LPL for making this space available. A significant amount of additional NL archival material is temporarily stored in the basement of the archivists, due to insufficient space at LPL. Because of the COVID-19 situation, the archivists have not been able to access the NL archival holdings at LPL since March 2020.

Work has been ongoing on accruals and potential accruals stored in the archivists' home. Many more items have been selected, sorted, organized and tentatively assigned to Series and Files. Dates, names and locations were added to numerous photographs, many of which were also scanned for future inclusion in the club's digital database. The various materials that have been processed will not be formally accessioned until they can be transferred to a permanent location within the NL archives proper.

Activities Carried Out in Response to Requests

- Located lists of early spring arrival dates for 1920s and supplied details on 1970s bird rarities.
- Assembled information on early London-area naturalist, John Morden.
- Supplied biographical info on two former club members.
- Provided advice to the Thames Talbot Land Trust on how to set up and organize an archive.
- Provided information to the club, documenting the adoption of the name Nature London in 2009.
- Assisted a researcher developing a bibliography of the publications of WW Judd.

Other Activities

- Contributed information to and/or wrote memorial tributes in *The Cardinal* for two NL club members.
- Prepared six historical vignettes on the club's history for inclusion in *The Cardinal*. Three were published in 2019/20.
- Created a set of PowerPoint slides (60 in all) presenting highlights from Nature London's history. This was in response to an earlier request from the Webmaster.

Professional Development

- Attended Middlesex County Archives Open House and Heritage Fair in Delaware (Feb 22/20).
- Attended online webinar: Introduction to Archeion, sponsored by Archives Association of Ontario (May 15/20). Archeion allows digitized lists of holdings at individual archival institutions to be accessed online.

Winifred and David Wake
Archivists for Nature London

AWARDS BANQUET

Nearly 100 Nature London members gathered at Greenhills Golf Club on Friday, November 15 for our annual Awards Banquet. The banquet is one of the highlights of the year for the club as we gather to honour service to the club and the broader cause of conservation with fine food and fellowship. Fortunately, the freezing rain that threatened did not materialize making travel easy that evening.

Nature London's President, Gordon Neish, was emcee for the event. In addition to our award winners, our guests that evening included Bob Johnstone and Ann Vance of the St. Thomas Field Naturalists.

Following some introductory remarks and grace, attendees enjoyed a traditional turkey dinner with all the trimmings with a vegan stir fry option also available. As usual, Chef Peter and his kitchen staff served up an amazing meal served by attentive wait staff. Dinner was followed by the awards ceremony. This year, Nature London recognized the contributions of two of its own.

To begin, the club's Special Recognition Award was presented to Norm Corrin. As Karen Auzins noted in her citation, Norm has packed a lot of activity into his decade as a member. One of his principal contributions to Nature London has been as our Volunteer Coordinator. In this role, he has matched many people to volunteer opportunities within the club. Norm also served on the board of directors from 2013 – 2019 and is a regular at club activities and events. For many years now, he has canvassed area businesses for raffle prizes for our banquet. Your contributions are certainly worthy of special recognition, Norm.

The W.E. Saunders Award of Merit was presented to Jim Cushing for contributions spanning several decades. He served as the club's Conservation Representative – twice for a total of ten years – and as Nature London's Heritage Representative. As well, Jim served on the board of directors including a term as president in 1991/92. He also has a long-standing link to the Banquet as he too, for many years, solicited gifts for the bucket raffle and silent auction. Jim's citation was authored and read by Anita Caveney. For his varied and exemplary service to Nature London over many years, he is truly deserving of the Saunders Award. Thank you, Jim! Our congratulations go out to both Norm and Jim for their richly deserved honours.

Following the awards ceremony and the announcing of the silent auction and door prize winners, the program moved to our guest speaker, Kevin Callan, known to many by his moniker *The Happy Camper*. In a light-hearted talk entitled *Adventures on the Thames River & Other River Stories*,

Kevin shared stories from his exploration of our beloved river, many of which were in the form of video clips. Accustomed to paddling northern waters, the Thames presented him with an array of new species, many of which were new to him but very familiar to many in the audience.

Kevin noted that, despite its proximity to urban centres, he encountered few other people most days until nearing his journey's end at Lake St. Clair. Along the way, he camped in a wide variety of places ranging from backyards to conservation areas. One night, he even set up his tent on a hotel bed to maintain that camping vibe! In closing, he encouraged us to take to the river and explore this local gem. As an audience member, I enjoyed seeing a familiar friend through fresh eyes.

Following Kevin's talk, it was time for the much anticipated bucket raffle draws under the capable leadership of Deb Gorman-Smith. We had a record number of prizes donated, so many left the event with some early Christmas presents.

Many individuals were involved in making the evening a success. Two individuals deserving of special recognition are Deb Gorman-Smith and Karen Auzins. Many of us take the silent auction and raffle as givens, but neither would be possible without Deb's efforts to orchestrate the process like a master conductor. Although officially retired from her role as Banquet Coordinator, Karen nevertheless made substantial contributions to the event and served as a mentor to me in overseeing banquet preparations. Thank you to the many volunteers who made this most enjoyable evening possible. It was a great team effort.

Bernie VanDenBelt, Awards Banquet Coordinator

BIRD RECORDS SECRETARY

Over the years, it is amazing to see how the gathering of bird records has changed. In the past, phone calls and direct contact at meetings led to most of the records. Some handed in yearly-kept lists. In more recent years, I obtained many more through emails than phone calls but still got some from records from the meetings.

For the 2018 Bird Records Annual Report, which is published in the Spring edition of *The Cardinal* and posted on the webpages during this annual period, I obtained some records from some of the old methods but, by far, most records are from eBird, a popular online repository for records for our many birders in Middlesex. I get a summary of all the sightings from the thousands of checklists submitted by more than 200 local birders from throughout the year.

This year, there were almost 84 000 individual sightings to go through. We recorded 234 species which is higher than average. Also, there were about 110 species which either nested or attempted nesting. No new species were added. The results for most of the 2019 year have been obtained as I write this, and soon will be in the Annual Report for the 2019 year. I will report on that year in the next Annual Report for the Bird Records Secretary.

Pete Read, Bird Records Secretary since 1983

BIRDING WING

The Birding Wing Committee members for 2019/2020 were Rose Braxton, Kathy McCoy and Quinten Wiegersma.

Quinten started off the new season with a presentation about his summer adventures surveying the shorebirds of James Bay. We learned a lot about this fascinating ecosystem and the abundance of wildlife that can be seen there.

On Friday November 29, Brendon Samuels, a PhD student in the biology department at Western University, gave a presentation about how to prevent birds flying into windows. Brendon discussed best practices for preventing collisions, how to help a bird injured by a collision, the role of citizen science in increasing awareness of collisions and recent actions taken by the City of London to protect migratory birds. We also learned about his ongoing research into how the vision and behaviour of birds influences their ability to detect and avoid glass.

In February, Cyril Crocker, the coordinator of Hawk Cliff Raptor Banders, shared the importance of banding to scientific research on raptors and particularly to those species in decline and those recovering from near extinction.

All meetings were held at the Civic Garden Complex on Friday evenings starting at 7:30 pm.

The COVID-19 pandemic that was declared in early March – and the lockdown that followed – resulted in all future meetings being cancelled.

Stacey Jaczko

Birding Wing Board Liaison

BOOK DONATIONS

During the 2019 / 2020 Nature London year, 19 donors gave nature books, as well as puzzles and other nature-themed items, to the club. Most donations were made by NL members. Some donations were made on behalf of friends and, in one case, an estate. As well as books, the estate donation included large quantities of birdseed, bird feeders, and binoculars. Some things were used by the club, some seed and feeders were given to a club member's class or Thames Talbot Land Trust, while the remaining books and other items were kept for sale.

Most book sales were made at club meetings between September 2019 and February 2020. After COVID-19 ended in-person meetings, I made a few sales from home. Total revenue for the year was \$277. Some special books, a picture, and CDs became bucket raffle prizes at the 2019 NL banquet, while a set of special books was included in the silent auction. There were no sales of the club's 2015 publication, *150 Years: The Nature London Story* in 2019 / 2020.

Betsy Baldwin

BUTTERFLY COUNT

A total of 48 species were recorded by 25 observers (compared to 49 species in each of the last two years with more than double the number of counters) during the 2020 Skunk's Misery Butterfly Count. Record numbers of Banded, Hickory and Striped Hairstreaks, along with both Tawny and Hackberry Emperors were seen on the count. No new species were recorded. Noticeable misses included Painted and American Ladies, Buckeye, and a few Skipper species including Mulberry Wing.

SKUNKS' MISERY BUTTERFLY COUNT				
Species		2018	2019	2020
SWALLOWTAILS (Papilionidae)				
Pipevine Swallowtail	<i>Battus philenor</i>			
Black Swallowtail	<i>Papilio polyxenes</i>	6	11	13
Giant Swallowtail	<i>Papilio cressphontes</i>	1	8	13
Eastern Tiger Swallowtail	<i>Papilio glaucus</i>	43	17	33
Spicebush Swallowtail	<i>Papilio troilus</i>	1	2	4
Mustard White	<i>Pieris napi</i>		1	
Cabbage White	<i>Pieris rapae</i>	210	97	808
Clouded Sulphur	<i>Colias philodice</i>	90	19	336

Species		2018	2019	2020
Orange Sulphur	<i>Colias eurytheme</i>	52	14	51
Little Yellow	<i>Eurema lisa</i>			
Harvester	<i>Feniseca tarquinius</i>	1	1	
American Copper	<i>Lycaena phlaeas</i>			
Bronze Copper	<i>Lycaena hyllus</i>			1
Coral Hairstreak	<i>Satyrium titus</i>	2	1	
Acadian Hairstreak	<i>Satyrium acadica</i>		1	
Edwards' Hairstreak	<i>Satyrium edwardsii</i>			
Banded Hairstreak	<i>Satyrium calanus</i>	63	35	402
Hickory Hairstreak	<i>Satyrium caryaeorum</i>	8		136
Striped Hairstreak	<i>Satyrium liparops</i>		1	27
Grey Hairstreak	<i>Strymon melinus</i>			
Eastern Tailed Blue	<i>Everes comyntas</i>	5	2	9
Summer Azure	<i>Celastrina neglecta</i>	36	15	14
BRUSH-FOOTED Butterflies (Nymphalidae)				
Fritillaries, Subfamily Heliconiinae				
American Snout	<i>Libytheana carinenta</i>			1
Variiegated Fritillary	<i>Euptoieta claudia</i>			
Great Spangled Fritillary	<i>Speyeria cybele</i>	71	42	116
Aphrodite Fritillary	<i>Speyeria aphrodite</i>			
Atlantis Fritillary	<i>Speyeria atlantis</i>			
Silver-bordered Fritillary	<i>Boloria selene</i>			
Meadow Fritillary	<i>Boloria bellona</i>			4
True Brushfoots, Subfamily Nymphalinae				
Silvery Checkerspot	<i>Chlosyne nycteis</i>	1	2	7
Pearl Crescent	<i>Phyciodes tharos</i>	38	14	12
Northern Crescent	<i>Phyciodes selenis</i>	45	40	33
Tawny Crescent	<i>Phyciodes batesii</i>			
Baltimore Checkerspot	<i>Euphydryas phaeton</i>	12	2	3
Question Mark	<i>Polygonia interrogationis</i>	1	16	11
Eastern Comma	<i>Polygonia comma</i>	47	30	43
Green Comma	<i>Polygonia faunus</i>			
Grey Comma	<i>Polygonia progne</i>	13		5
Compton Tortoiseshell	<i>Nymphalis vaualbum</i>	2		
Mourning Cloak	<i>Nymphalis antiopa</i>	17	9	16
Milbert's Tortoiseshell	<i>Nymphalis milberti</i>	1	1	
American Lady	<i>Vanessa virginiensis</i>		15	
Painted Lady	<i>Vanessa cardui</i>		14	

Species		2018	2019	2020
Red Admiral	<i>Vanessa atalanta</i>	14	496	8
Common Buckeye	<i>Junonia coenia</i>	2		
Admirals & relatives, Subfamily Limenitidinae				
Red Spotted Purple	<i>Limenitis arthemis</i>	3	3	13
Viceroy	<i>Limenitis archippus</i>	6	3	6
Hackberry Emperor	<i>Asterocampa celtis</i>	2	4	56
Tawny Emperor	<i>Asterocampa clyton</i>	161	76	966
Satyr, Subfamily Satyrinae				
Northern Pearly-Eye	<i>Enodia anthedon</i>	3	1	11
Eyed Brown	<i>Satyroides eurydice</i>	6	8	18
Appalachian Brown	<i>Satyroides appalachia</i>	6	14	10
Little Wood-Satyr	<i>Megisto cymela</i>	608	370	339
Common Ringlet	<i>Coenonympha tullia</i>	2	1	5
Common Wood-Nymph	<i>Cercyonis pegala</i>	271	59	358
Monarchs, Subfamily Danainae				
Monarch	<i>Danaus plexippus</i>	108	196	117
SKIPPERS (Hesperiidae)				
Spread-wing Skippers, Subfamily Pyrginae				
Silver-spotted Skipper	<i>Epargyreus clarus</i>	9	49	34
Southern Cloudywing	<i>Thorybes bathyllus</i>			
Northern Cloudywing	<i>Thorybes pylades</i>		1	
Juvenal's Duskywing	<i>Erynnis juvenalis</i>			
Wild Indigo Duskywing	<i>Erynnis baptisiae</i>			
Common Checkered				
Common Sootywing	<i>Pholisora catullus</i>	2	2	1
Grass skippers, Subfamily Hesperinae				
Least Skipper	<i>Ancyloxypha numitor</i>	2	7	4
European Skipper	<i>Thymelicus lineola</i>	1502	754	959
Fiery Skipper	<i>Hylephila phyleus</i>			
Peck's Skipper	<i>Polites peckius</i>	6	7	9
Tawny-edged Skipper	<i>Polites themistocles</i>	2		3
Crossline Skipper	<i>Polites origines</i>	1		2
Long Dash	<i>Polites mystic</i>	1		
Northern Broken-Dash	<i>Wallengrenia egeremet</i>	4	4	166
Little Glassy Wing	<i>Pompeius verna</i>	4	5	3
Delaware Skipper	<i>Anatrytone logan</i>	26	13	24
Mulberry Wing	<i>Poanes massasoit</i>		1	
Hobomok Skipper	<i>Poanes hobomok</i>		1	2
Broad-winged Skipper	<i>Poanes viator</i>			

Species		2018	2019	2020
Dion Skipper	<i>Euphyes dion</i>			
Black Dash	<i>Euphyes conspicua</i>			
Two-spotted Skipper	<i>Euphyes bimacula</i>			
Dun Skipper	<i>Euphyes vestris</i>	9	13	57
Total Individuals		3526	2498	5269
Total Species		49	49	48

George Prieksaitis

THE CARDINAL

The Cardinal, as usual, was published four times in the year and continues to be available online to members only. The online version is in full colour, has clickable links and may be printed at home as required.

The Cardinal Committee went through some changes during the year. Due to the COVID-19 restrictions, the committee has been meeting via ZOOM since February but has still managed to keep to production timelines. The Summer issue was somewhat smaller, as there were fewer club activities to report on.

Tom Reaume decided to leave the committee after serving as Layout Editor, very creatively, for some time. The Spring Issue (No. 259) was his last. Mike Channon stepped in to fill the breach while a replacement was sought.

The current members of The Cardinal Committee are Muriel Andreae, Barbara Bain, John Berry, Mike Channon, Ron Martin, Carrie Long, Leslie Rockwell, and Rich Voros. Leslie Rockwell has decided to leave the committee in September after serving for some time. Fortunately, Carrie Long and Rich Voros have just joined the committee as layout editors. Their creative approach to adjusting the “look” of *The Cardinal* will be apparent in the Fall 2020 issue. A replacement for Leslie is still being sought.

John Berry

CEDARCROFT

We began last fall with lots of interest in holding more group activities out at Cedarcroft to encourage Nature London members to come out and enjoy the property.

On Saturday, September 28, 2019, the Cedarcroft Committee hosted a very successful corn roast with approximately 35 folks attending. This was a celebration to acknowledge the completion of the third and final bridge. Jeff Paul was given a plaque in appreciation for all his work building and installing the three bridges. A second plaque is now on the outside wall of the cabin to recognize Jeff Paul's contribution to the property.

On Monday, February 17, 2020 (Family Day), the Field Trips Committee and the Cedarcroft Committee welcomed hearty winter folks to walk the trails and then warm up by a bonfire. Folks of all ages enjoyed hotdogs and hot chocolate and various other goodies. Perfect weather made the day really fun.

As usual, we had a maintenance schedule and, at least once a month, committee members checked the property from November to April. One interesting sighting was a fairly fresh deer carcass near the river's edge in early spring. Another was in January when there was a massive flood and the Thames backed up along the creek where it flooded over Bridge #3 which usually is about 12 feet above the creek - amazing.

After COVID-19 hit, we continued to maintain Cedarcroft but there was no group spring clean-up. Instead, two or three committee members went out and cleared the trails or pulled garlic mustard. We found a lot of garlic mustard along the far (east) side of the pond, and we pulled bags of it over several different visits. Once again, Herb Bax planted a number of small native trees in the spring in various spots around the property.

Our new lawn mower is working well according to Evelyn Rogers who is our faithful lawn cutter.

Cedarcroft was in good shape this year to welcome members who wanted a quiet place to enjoy a break from the virus. We have held no organized group activities since March.

Barb Kaiser
Cedarcroft Committee

CHIMNEY SWIFT PROGRAM

This account covers the 12 months from Nov 1/19 to Oct 31/20, a period that enables reporting on a single (April-to-October) season of Chimney Swift presence in London.

Introduction

During much of 2020, the COVID-19 pandemic had a dampening effect on Nature London's ability to deliver its multi-pronged program of Chimney Swift initiatives. Specifically, from March 2020 onward, outreach and advocacy activities were reduced, and the planned spring and early summer monitoring program was suspended. Following consultations with the Nature London Board and the Middlesex-London Health Unit, formal monitoring began in mid-July, at which time a strict COVID-19 protocol was implemented to keep volunteers safe. Despite the limitations, 2020 was a highly productive and successful year for swift initiatives in London.

Once again, the flagship program, capably organized by Sandy Symmes, was weekly evening monitoring at 13 targeted chimneys. Additional monitoring took place at some of these chimneys throughout the season, and also at other chimneys. About 55 volunteers helped with monitoring.

As in 2019, the London monitoring program operated independently, using its own guidelines, online data portal, and field forms. All data collected were later submitted via spreadsheets to the provincial database maintained by Ontario SwiftWatch (Birds Canada).

A summary of swift-related initiatives during the past year follows, presented in three categories: Education/Outreach, Conservation/Advocacy and Monitoring/Data Collection.

Education/Outreach

- Prepared an 84-page report on the 2019 daytime monitoring pilot project for participants and others; provided customized reports to landlords of 12 swift chimneys in the pilot.
- Published overview of 2019 Nature London swift activities in Winter 2020 *Cardinal*.
- On Nature London website, maintained page of educational materials about swifts.
- Delivered PowerPoint presentations on swifts to
 - Dundas Street Centre United Church – Nov 17/19 (attendance 40),
 - Lambton Wildlife in Sarnia – Feb 24/20 (attendance 60+).
- In 2020, provided updates on swift usage of their chimneys to landlords of 10 active chimneys.
- Posted recent videos of swifts entering London chimneys on NL's YouTube Channel.
- Via e-newsletters and Facebook provided NL members with updates on sites of big fall roosts.
- During monitoring, educated passersby through conversation and swift info "postcards".
- Exchanged information and ideas with other swift stakeholders in MB, PQ, ON and US.

Conservation/Advocacy

- In response to requests, compiled info regarding
 - Strategies to encourage preservation of swift chimneys,
 - Evidence that swifts and nests in chimneys pose no health or safety hazards,
 - Designs and locations of artificial swift towers that work in Canada.
- Submitted report to Transport Canada and Canadian Wildlife Service of Jul 4/20 incident of a recreational drone buzzing a swift-occupied chimney, which was abandoned soon after.
- Contacted Development Services, City of London, urging action re three deteriorating chimneys of heritage interest in McCormick Area Secondary Plan district; all were used by swifts in 2020.
- Participated in process of re-evaluating the status of the Chimney Swift by COSSARO (Committee on the Status of Species at Risk in Ontario):
 - Submitted 13 pages of input based on London swift data and observations since 2003,
 - As observers, attended virtual meeting on Sep 24/20 (W Wake and S Symmes).
- As per five-year plan:
 - Updated photo inventory of known London swift chimneys,
 - Updated status of 180 known swift chimneys: 120 available, 60 demolished or capped,
 - Checked approximately half the 120 chimneys for current swift usage.
- Identified suitable site (Smith Fruit) for release of three orphaned swifts from Destined to Fly Wildlife Rehab Centre in Harrowsmith (Sep 8).

Monitoring / Data Collection

- Tried to create meaningful and enjoyable experiences for volunteer monitors.
- Generally followed monitoring protocol used in 2019, with updated guidelines and materials for 2020, including COVID-19 protocol.
- Engaged approximately 55 volunteer monitors, new ones being mentored by experienced ones.
- Made 139 Tuesday evening monitoring visits (11 weeks) to 13 chimneys, Jul 14 to Sep 22, rotating volunteers among sites.
- Made 85 additional early, mid- and late-season monitoring visits to 13 chimneys, May 6 to Oct 1.
- Made 55 monitoring visits to 48 other swift chimneys (breeding season plus some fall migration).
- Made single monitoring visits to 8 chimneys on spec (2 held swifts).
- Collected data on sightings of Common Nighthawks.
- Sent out weekly e-communication to volunteers: schedule of monitoring assignments; cumulative results for each chimney; table plus analysis of current-week results; trends, counting tips; etc.
- Shared 279 data entries via spreadsheet with Ontario SwiftWatch (Birds Canada).
- Hosted monitors' end-of-season gathering via Zoom (Oct 20); presenter W Wake (attendance 22).
 - Video of session available via dropbox until Nov 30.
- Prepared and distributed end-of season monitoring report for 2020 (30 pages).

Highlights of Monitoring Results in 2020

- Seven chimneys held roosts of at least 20 swifts for at least a few weeks of the season.
- First swifts of season in London seen Apr 29, last on Sep 27.
- Combined peak fall counts at 13 chimneys was greater than in 2019 but less than in 2018; peak came later than in 2019 but about the same time as in 2018.

Thanks to

- The dedicated volunteer monitors, the backbone of Nature London's swift monitoring program,
- Sandy Symmes, organizer, communicator and trouble-shooter par excellence,
- Ric Symmes, creator of online data portal,
- Dave Wake, creator of tables, graphs, spreadsheets, etc. (computer guru),
- Wufoo, operator of data entry system, allowed Nature London a reduced rate,
- Nature London, sponsor and funder, and facilitator of Zoom meeting.

Winifred Wake

Chimney Swift Liaison for Nature London

CHRISTMAS BIRD COUNT

The CBC for London was held on Saturday, December 14, 2019. We sponsor the London Count for the National Audubon Society, and submit our results to them. As I am the Compiler, I took on the various tasks of securing the Pot Luck location, Riverside United Church, and then informing the previous participants and team leaders who would be participating in the Count. I also contacted the E-Newsletter Editors, the Cardinal Committee, and the Webmaster to put out notifications to anyone else who could be able to participate.

We had 120 participants and, although we found 75 species, we found one of the lowest numbers of individuals in recent years. We added two new species to our list this year. Thanks go to Hugh Casbourn who continued to perfect our overall checklist spreadsheet.

After I compiled the results, I send them in to Audubon and then submitted them to members of Nature London who published them in the various pertinent places. As well, I sent out the results to the many participants. Thanks also go to all those who took part and to the people responsible for our great Pot Luck.

Pete Read

London CBC Coordinator since 1983

CONSERVATION ACTION COMMITTEE

The following abbreviations are used in this report:

CAC = Conservation Action Committee

CMP = Conservation Master Plan

EEPAC = Environmental and Ecological Planning Advisory Committee

ESA = Environmentally Significant Area

NL = Nature London

UTRCA = Upper Thames River Conservation Authority

This year's CAC consisted of seven Nature London members: Sandy Levin, Chair; Anita Caveney, Roslyn Moorhead, Bill Maddeford, Margo Does, Jack Blocker, and Wayne Tingle. The CAC met two times during the period of this report, January 20 and April 17, 2020.

1. ESA Visits. CAC members made no ESA visits as a committee during the reporting period, but members took part in a visit to Euston Park, part of The Coves ESA, on July 17 in the company of City of London Ecologist Planner, Linda McDougall; Friends of the Coves Subwatershed, Inc., president, Thom McClenaghan; and Rachel Voros, Naturalization Division Manager, Quiet Nature Ltd. This visit was carried out to review the success of a City project to replace non-native with native species of plants alongside managed and multi-use trails in the park. The City contracted Quiet Nature Ltd. to do the naturalization.

2. Work Undertaken: The CAC monitored numerous items and attended a variety of public meetings throughout the year. In many cases, the CAC initiated correspondence with the City of London, Provincial and Federal Ministries, UTRCA and other groups or agencies for the purpose of stating the CAC's support, opposition or recommendations. For some issues, comments were submitted to the Environmental Registry of Ontario. Issues monitored or addressed included:

- **Conservation Action Alerts.** At the initiative of the CAC, NL sent out three Conservation Action Alerts to encourage members to respond to provincial government actions which threaten natural heritage.
- **Ontario Bill 132.** In November 2019, Margo Does appeared with NL President Gordon Neish before the Provincial Standing Committee on General Government to object to provisions of Bill 132, *Better for People, Smarter for Business Act, 2019*, which contained various provisions threatening our province's natural heritage on many fronts.
- **Invasive Plants Brochure.** NL printed a new brochure on invasive plants compiled by two CAC members, Roslyn Moorhead and Anita Caveney, based on an article in *The Cardinal*. Copies were quickly snapped up, and a second printing was ordered.
- **London Health Sciences Centre.** Responding positively to an initiative by a CAC member, London Health Sciences Centre has left unmown a 3-hectare area of lawn near Parkwood Hospital for the use of grassland birds. This breeding season, Eastern Meadowlarks were seen in the area.

- London’s Environmental Management Guidelines.** As noted in the Autumn 2019 and Summer 2020 issues of *The Cardinal*, the City is undertaking an update of its Environmental Management Guidelines (EMG). The EMG provide a framework for environmental studies that occur within the City. The guidelines are used to evaluate planning applications, municipal infrastructure projects, Conservation Master Plans, Secondary Plans, Area Plans, Subject Land Status Reports, and Environmental Assessments or Environmental Impact Studies. The guidelines describe standards for ecological inventories, the assessment of natural features and functions, the determination of ecological buffers during development, and monitoring of ecological features and functions post-development. The City has retained a consultant, AECOM, to carry out this review. David Wake, in coordination with the Conservation Action Committee, is participating in the review as a representative of Nature London. It is hoped that through this process the revised and updated EMG will lead to better protection of environmental features and functions during future development.

Complete information on the above items is detailed in the CAC meeting minutes. Selected details were published in the Conservation section of *The Cardinal*, flights 257, 258, and 260.

Jack Blocker
 Conservation Action Committee

ECO-GRANTS PROGRAM

Five grant applications were received and three were approved for funding. Additional funds were available this year and hopefully, as projects can be safely undertaken, a larger pool of grant applications will be received and approved for funding going forward.

The recipients this year were:

Recipient	Grant Amount	Project
Thames Talbot Land Trust	\$3,500	Trail Enhancement at Meadowlily Nature Preserve
ReForest London	\$2,500	Meander Creek Naturalization Project in Killaly Meadows ESA
Climate Action London with ReForest London	\$900	Pollinator Demonstration Garden at Westminster Ponds Centre

Susan Relecom

E-NEWSLETTER AND E-MAIL COORDINATORS

Nature London E-Newsletter is published twice monthly, normally on the 1st and 15th of each month. The E-Newsletter is a concise reminder service for members of events within the coming three weeks. The content depends heavily on material from the Nature London website or Facebook page and many news items include “links” to the website for details or registration. This has the added benefit of alerting members to interesting items on the website and providing regular reasons to visit the Nature London site.

The E-Newsletter circulation consists of members who voluntarily allow us to “push” messages to their mail twice per month, and we honour this trust by keeping the items short with no pictures or attachments. As a result, we experience very few “unsubscribes” and we often have more than one subscriber in each member household. Total subscription was about 545 at the end of August 2020, up from 176 when the list started in 2017.

There are two sections in each E-Newsletter:

- **Nature London Events**, that describe upcoming meetings, field trips, presentations and events, and
- **Other Events That May be of Interest**, often sponsored by other natural heritage organizations in our region.

Priority is given to Nature London events, but where space permits, we include links for events sponsored by other organizations. Urgent conservation items are handled separately by the Conservation Action Committee and their “Action Alerts”. We also monitor the info@naturelondon.ca mailbox. We answer questions where we can or direct mail to the volunteer most likely to provide an answer.

We very much appreciate the support and cooperation of *The Cardinal* editors, our webmaster, Conservation Action Committee members, field trip coordinators and other volunteer appointees of the club who provide the information and responses that are the heart of the E-Newsletter.

Ric and Sandy Symmes

FACEBOOK REPORT

As of August 31, 2020, the Nature London Facebook page had almost 700 followers. NL's Facebook presence is integrated with the website, *The Cardinal* and the email newsletter.

Mady Hymowitz

FIELD TRIPS

Date Time	Duration	Location	Leader/s	Attendees	Weather	Highlights
Sept. 11 Wed. 9 am 2019	2 hours	Weldon Park	Jim Jarrett	28+1	Overcast, high humidity. Pleasant 20°C to 27°C by 11am	Moderate stroll with great local info, good bird sightings, butterflies and flora.
Sept. 22 Sunday 1:30 pm	about 2 ½ hrs.	Fish Creek	B. & L. Wheeler	23	Humid, windy 28°C	Varied autumnal flora, habitats, and paths. Eagle nest(s) present.
Oct. 5 Sat. 1 pm	2 hrs.	Andreae's Fungi Walk	Dr. G. Thorn	36	Breezy, mostly sunny, 14°C	Some hills through the woods, lots to learn. Know before eating!
Oct. 26 Sat.	2 hrs.	Dorchester Mill Pond	G. McNeil E. Rogers	16	Pleasant, somewhat overcast	Easy walk on dirt paths. Some birds, flora, garter snake.
Nov. 2 Sat. 1:30 pm	2 hrs.	Fanshawe C.A.	C. Quinlan	19	Overcast, 5°C remained dry, threatened rain	Not many birds, nine (9) species. Lots of flora. Some history and rehabilitation of forest information.
Nov. 10 Sun 8 am	7.5 hrs.	Kettle Point & Area *Need to apply to First Nations @Kettle Point beforehand	C. McCrae	23	Mostly cloudy, some wind, a little mud 4°C	50 species present including White-winged Scoter, Eastern Meadowlark, several Northern Harriers, Bald Eagles; lots of Bonaparte Gulls.

Date/ Time	Duration	Location	Leader/s	Attendees	Weather	Highlights
Dec. 7 Sat. 9 am 2019	3 hrs.	Civic Garden Complex KIDS CBC	C. McCrae B. VanDenBelt E. Rogers Q. Wiegersma Z. Fedder Kitchen elves	10 Kids 30 total	Partly sunny -2°C Some icy patches 2 groups	Slideshow introduction plus 1.5 hrs. birding 22 species, 524 individuals: Hooded Mergansers, Red- bellied wood, Song Sparrow
Jan. 1 Wed. 10 am 2020	2 hrs.	205 Wonderland Rd. S. to Springbank	W. & D. Wake	50	Pleasant, cold	A Bald Eagle flew over as the group gathered and shared good wishes for the year ahead. Broke into clusters. Experienced shared with interested others.
Feb. 17 Mon. Family Day	Set-up- clean-up 9:30-1:30	2-hour Open House at Cedarcroft	Joint between Field Trips & Cedarcroft committees	35 mem- bers	Beautiful, sunny, no wind, blue skies, pit fire, hotdogs, trails, cone feeders	88 years young to 10 years old. Cabin display, warm fire. Lots of photos, chatting and enjoyment of our club property by members.
March 12 Thurs. 10 am		Pond Mills east entrance	E. Rogers	14	Cloudy, no wind +2°C	Easy to moderate walk. Very few birds seen: robin, cardinal, R-w Blackbird, junco, flying geese & ducks.
March 15 Sun. 10 am	2.5 hrs.	Aylmer Wildlife Management Area & Sewage Lagoon	C. McCrae	20	Sunny +5°C A bit breezy A nice morning!	AWMA- about 1000 Tundra swans, H. Merganser, A. Widgeon, N. Pintail, E. Meadowlark, B-h Cowbird, N. Shoveler, Cackling Geese ASL- Redhead, Killdeer, Bufflehead, G. Scaup, Ringed- neck, Ruddy, C. Merganser, Green-winged Teal 34 species total
Aug. 29 Sat. 1:30 pm	2.25 hrs.	Medway Valley Heritage Forest (North)	G. Neish	8/10	Light rain at beginning, quickly tapered off; equable conditions	Easy, paved, mostly forest, little elevation change. Vascular plants: grasses, forbs, shrubs.

The walks were able to restart once the pandemic lockdown was eased for outdoor gatherings. There was a lot of effort put in to make the completion of registrations and waivers contactless (completed online). The work required for this was appreciated both by those participating and especially by the organizers.

Locations - 14 Eight (8) trips were open to the public, which is always good for growing our membership.

All field trips were cancelled from April – July, 2020 due to pandemic-related restrictions.

Christine McGonigle

FRIENDS OF THE COVES

This year, the Friends of the Coves (FOTC), like everything else, have been “COVID quiet”.

Projects still on the burner have no progress at present, namely:

- The Silver Creek erosion control project which is still at the planning stage but with no funds yet for activation, and
- The possible acquisition of the Coves flats from the Sherwin Williams Company.

The past months have seen a lot of activity with the Coves East Trail and the Euston Park Trail being used for recreation as Londoners seek COVID relief. Both trails are well cared for by the City of London.

Bill Maddeford

Friends of the Coves Representative

GIVING PROGRAM

Giving Program Marketing Plan: A marketing plan was presented to the board to expand our reach and involve club leadership in creating awareness of the opportunity through giving to help support the work of the Nature London.

Brochure: Plans were put in place and budget requested to allow the updating of our Giving Program brochure and a process established to include the brochure in all new member welcome packages.

Donor Recognition: A process was developed, with the help of our treasurer, to ensure that all donations of \$100 or more were recognized with a thank you letter from the president. The treasurer also facilitated the recognition process for bequest donors and their families.

Logo Utilization: The Giving Program Coordinator took on the responsibility of advising Eco-Grant applicants of their successful project funding requests as well as advising applicants that were not successful. In the process, recipients requested the Nature London logo for use in recognizing our grants. The logo has been used on public signage, on recipient websites and in their publications.

It became clear that an official and consistent logo was needed to meet those requests.

Branding Project: As communications to donors and Eco-Grant recipients increased, an identifiable, standardized “brand” became necessary for Nature London. A brand identification project was developed with the assistance of Hugh Casbourn and presented to the board. A number of suggestions regarding the development of a uniform brand for Nature London were made by board members and work will continue toward the branding goal for all of our communication products.

Canada Revenue Agency (CRA) Charitable Organization Guidelines: CRA guidelines for registered charities were researched and legal assistance was generously provided pro bono by Fisher Professional Corporation to ensure that we are in compliance in making our Eco-Grants. As a registered charity, Nature London may only make gifts to other registered charities. That requirement impacts which organizations may apply for our Eco-Grants.

In addition, we explored the issue of flow-through grants and the acceptance and disbursement of gifts designated for a specific purpose from one charity to another, again to ensure that our procedures are in keeping with CRA guidelines.

Source of Donations: Over the year we received a total of \$32,714.79 in gifts from our generous membership and other donors.

\$10,423 was from members and other donors who made their gifts through PayPal.

\$1,000 was received from a Donor Directed Gift at London Community Foundation.

\$4,500 was received from a generous anonymous donor.

\$16,791.79 was received through thoughtful bequests.

Susan Relecom

GUIDE TO THE NATURAL AREAS IN LONDON AND REGION

Sales of the Fifth Edition of the *Guide to the Natural Areas of London and Region* continued through the 2019-2020 period. Income from sales totaled \$2229. At year end, there were 102 copies of the Fifth Edition remaining.

At the same time, work continued on the production of the Sixth Edition. The Sixth Edition contains descriptions for ten new sites, and some previous sites were eliminated or consolidated with neighbouring sites. The Sixth Edition went to the printers, Accell Graphics, in August. Fifteen hundred (1500) copies were ordered. Sales of the Sixth Edition will begin in the next fiscal year.

At the conclusion of this fiscal year – August 31, 2020 – Jim and Roslyn Moorhead retired from the position of Natural Areas Guide editors, and Mike Channon assumed that responsibility.

Mike Channon

IMAGE DATABASE

The database continues to be housed on a dedicated HP 17” Zbook computer. Work continues on removing duplicate files and indexing images for easier search and retrieval.

Members continue to contribute their photographs as individuals and also as recorders of club meetings and field trips. Images used in each issue of *The Cardinal* are indexed. The database now contains approximately 14,300 images. The images include

- Nature specimen photographs: birds, plants and wildflowers (approximately 10,700 images);
- Views of natural areas;
- Photographs of club meetings, workshops, banquets, and awards;
- Archival material including old photographs of historical interest;
- Drawings by members of birds, plants, etc.; and
- Graphics used in production of *The Cardinal*.

In cooperation with the website manager, it was decided to start collecting members’ videos and posting them on the website as appropriate. In conjunction with this, a separate database has been created to store and index these video files. This was set up late in the year and now contains 15 video files. These include both nature videos (birds, field trips) as well as club activities.

John Berry

INDOOR MEETINGS

September 20, 2019

Dan Heffernan, beekeeper and proprietor of Heff’s Hives, presented “Bee Keeping in London and Area”. He discussed hive maintenance, bee rescue, swarm removal as well as pest control. Custom bottling and extraction of honey during honey harvesting was described plus the importance of harvesting only a portion of honey from the hives so that much of the honey remains for the bees through the winter.

October 18, 2019

Dr. Mhairi McFarlane from the Nature Conservancy of Canada presented “Nature Conservancy of Canada: What we are up to in SW Ontario, where you can visit and how you can help.” She discussed some of the current projects in the region and described some of the challenges the Nature Conservancy of Canada (NCC) faces when deciding how to restore or naturalize a given property. In particular, the NCC must determine the costs and benefits of creating habitat suitable to a specific species at critical risk, or restoring a property to a general habitat type.

November 15, 2019 Banquet

Our guest speaker at the 2019 Banquet was Kevin Callan, an Ontario writer, filmmaker and speaker on canoeing and camping. He is also an author of many popular books on exploring the outdoors in Ontario.

Kevin’s presentation, “Thames River and other River Stories” was the story of his 2018 paddling trip along the mostly urban Thames River. He addressed the club with a spirited, often humorous account of his canoe trip through our region and on to Lake St. Clair. The photos, his account of the trip and the warm interactions with the people he met along the way will surely inspire others to try this since, as he pointed out, only two portages impede the downstream journey. He also raised awareness of issues around water quality and urban development requiring ongoing vigilance.

January 24, 2020

Patricia Corcoran, Associate Professor and Departmental Chair of Earth Sciences at Western University, presented “Distribution and Degradation of Plastic Particles in Marine and Fresh Water Sediment”. She discussed some of her laboratory’s research around the Sarnia area of Lake Huron and the entry into the St. Clair River, the location at which manufacturing of plastics occurs and where much plastic is found in the benthic sediment. Patricia emphasized that – over the approximate seven decades since their development – the use and discarding of plastics has increased exponentially. As well, she noted that micro-plastics are now found everywhere along the food chain as well as in remote corners of the earth.

February 21, 2020

Karlee Flear is the Community Education Supervisor at Fanshawe Conservation Area. Her presentation titled, “Inspiring Youth to Engage in Nature” highlighted some of the many programs developed to engage youth of all ages to become comfortable in nature, to use their senses when outdoors and to develop a respect for our natural environment. Through various activities such as playing nature games, testing soil samples, orienteering and habitat restoration opportunities, youth from diverse cross-sections can learn about, appreciate and protect our natural world.

March 20, 2020 and April 17, 2020 (Members' Night)

Due to the onset of COVID-19, the Indoor Meetings for March and April were cancelled. The planned speaker for the March meeting was Laurel Beechey, Authorized Wildlife Custodian and owner of Skunk Haven, a skunk wildlife refuge. Laurel offered to present in September 2020 via Zoom.

May 22, 2020

Due to COVID-19, it was decided to extend the Indoor Meetings presentations in a virtual format. Brock Fenton, Professor Emeritus, Western University, stepped forward on short notice to give his presentation, "Bats: Good, Bad, and Astonishing". Brock discussed the morphology, behaviour and habitats of different bat species. After discussing some of his own experiences with the handling and study of bats, he discussed the relationship between bats and rabies plus their relationship to the emergence of COVID-19, probably due to close human/bat interaction in some parts of the world.

The Indoor Meetings Coordinators would like to note the efforts and expertise of NL President Gordon Neish and NL Webmaster Chris Baldock in implementing the Zoom technology so that our monthly meetings could continue even during a pandemic.

June 26, 2020

Jan Cami, an Associate Professor in the Department of Physics and Astronomy at Western University, with little notice, offered to present his talk on "Astronomy in Isolation: Fun Stargazing Activities for those Stuck at Home". Jan gave a family-friendly talk on what to look for in the summer skies, the phases of the moon – with an explanation of the phenomenon – and where to go for the best nighttime views of the sky. Jan gave some suggestions on astronomy equipment to enhance viewing and discussed various apps and websites to help identify what we are seeing when we look upwards.

Ruth Dickau, Jane Edwards and Rick Martin
Indoor Meetings Coordinators

LONDON ENVIRONMENTAL NETWORK

LEN's Vision - London is known as one of the greenest and most resilient cities in Canada.

LEN's Mission - We build participation, collaboration, and capacity in our community to co-create positive environmental change.

LEN has 47 member environmental groups, and it continues to grow each year. LEN offers member organizations a suite of supports. These include

- Shared resources: event tent and tables, Epson projector, a lending library and more;
- Funding support to offer workshops or volunteer training session through the Signal Boost initiative;
- Networking events: bi-monthly Green Drinks events, holiday year end party, annual Go Wild Grow Wild Expo, and bi-weekly zoom meetings;
- Promotional support: members are encouraged to post their events on LEN's monthly e-newsletters and online events calendar, and to display brochures at LEN information booths and events; and
- Workshops covering topics such as grass roots fundraising, volunteer recruitment and management, and communicating to reach your supporters.

Nature London's profile is on LEN's website. Last year, LEN contacted me to invite Nature London to have an information booth at LEN's very well attended Green in the City event in the Wolf Performance Hall at the Central Library on November 19th. The guest speaker that night was Dr. Dianne Saxe, former Environmental Commissioner of Ontario.

At LEN meetings and events, I was able to engage with other LEN members to spread the word about Nature London's events and activities. On the receiving end, I was also able to keep abreast of all the amazing grassroots initiatives focused on improving the local environment. Many of the member groups are made up of young, energetic, forward-looking people. Our LEN membership provides Nature London a means of reaching a young demographic.

I am impressed by the resources, networking and outreach opportunities that LEN makes available to its member groups. In my opinion, the London Environmental Network provides an excellent opportunity for a Nature London representative to promote the club and to keep Nature London members in touch with what is going on in the environmental sector. I recommend that Nature London continues membership and involvement with LEN.

Susan Price

MANUAL SECRETARY

No updates to the manual were made this year. However, an update is forthcoming in the first half of 2021.

Cathy Quinlan

MEMBERSHIP SECRETARY & MEMBERSHIP DATABASE

Our membership for 2019/20 held steady with the previous year with 439 memberships and at least 756 individual members. Six of our members chose to give a membership to Nature London as a gift. Forty-four (44) percent of our members or new members paid online using PayPal. Thirty-eight (38) percent of members opted not to receive a printed copy of *The Cardinal*.

Let us continue to enjoy the many activities of Nature London and encourage others to be part of this vibrant club.

Membership Database

Hugh Casbourn continued to provide support for the membership database. Summary reports were generated as needed and some ad hoc questions about our membership were answered.

Gail McNeil
Membership Secretary

NATURE IN THE CITY

The 2020 season of Nature in the City was a great success! Co-sponsored by Nature London and the London Public Library (LPL), Nature in the City 2020 generated an average attendance of 306 per session during the six consecutive Tuesday evenings in January and February. The feedback received from those attending suggested that the series speakers and topics were well-received and the presentations enjoyed.

The 2020 list of speakers and their topics:

January 14 Best Places to Bird in Southwestern Ontario – Mike Burrell

January 21 A Walk in the Woods – Ben Porchuk

January 28 Fishing for a Healthy Thames River – Robert Huber

February 4 Pollinator Pathways – Gabor Sass

February 11 Predator & Prey Interactions – Liana Zanette

February 18 The Coves: A Neighbourhood Environmental Success Story – Patrick Donnelly and Linda McDougall

The LPL provided excellent support through its technical staff and in the production of publicity posters and brochures. Also, the Library provided volunteers to act as ushers. Mike Ciccone, the new Chief Executive Officer of the LPL, joined us the first evening of Nature in the City to bring greetings from the organization.

A special acknowledgement must be extended to Paul Nicholson who highlighted each session in his weekly column in the London Free Press.

We also wish to acknowledge the support of Nature London members who attended the sessions. The participation and enthusiasm of those attending was exciting to witness. This positive energy greatly enhanced the experience of the presenters and all involved.

The 2020 Nature in the City Committee members are Pat Tripp - Chair, Joanna Kerr - London Public Library Representative, and Mike Boucher, Carolyn Doyle, and Leslie Rockwell.

Through feedback questionnaires distributed the final evening of the 2020 series, the committee has received many constructive comments as well as suggestions for future presentations

Pat Tripp
Chair, Nature in the City Committee

NATURE LINE

Every week throughout the year one of the three volunteers, Cathy Quinlan, Gail McNeil or Rick Martin collected information about bird, butterfly and other sightings in the area that would be of interest to naturalists along with information about NL's indoor and outdoor activities.

A recording is prepared each Thursday for inclusion on the Nature Line (519-457-4593). People dialing this line are able to hear this message, and they can leave a message as well. If a message was left, one of the three volunteers would endeavour to contact the caller and provide an answer.

Gail McNeil

ONTARIO NATURE (FEDERATION OF ONTARIO NATURALISTS)

Nature London (NL) attended the 2019 Fall meeting of the Carolinian West Region (CWR) of the Ontario Nature Network hosted by the Aamjiwnaang First Nation, Lambton Wildlife Inc., Sarnia Environmental Advisory Committee and Sydenham Field Naturalists at the Maawn Doosh Gumig Community Centre in Sarnia. Due to the COVID-19 coronavirus pandemic, the 2020 Spring meeting of the CWR was held virtually by conference call, with Ontario Nature (ON) hosting the meeting. These meetings provide an opportunity for naturalists to exchange ideas and report on successes and failures of programs they have undertaken, discuss natural heritage issues of concern, and seek advice from the ON staff. ON staff representatives gave an update on the organization's Nature Network and its conservation science, youth, educational, and advocacy programs. Through these regional meetings, NL is able to keep abreast of regional and provincial matters relating to natural heritage. Member groups are the "grassroots" of the federation, and the McIlwraith Ornithological Club, an earlier name of Nature London, was one of the Federation of Ontario Naturalist's founding member groups in 1931. President Gordon Neish and Ontario Nature Representative Anita Caveney represented NL at the Fall and Spring meetings. Reports of these meetings were published in the Winter 2020 and Summer 2020 issues of *The Cardinal*.

ON's 89th Annual Gathering in June 2020 had to be cancelled due to the COVID-19 pandemic. The AGM was scheduled to be held virtually on November 14. The ON Conservation Awards Ceremony took the form of a virtual presentation. The citations for, and photos of, the award recipients were posted on ON's website in July, and an announcement of the award recipients was sent electronically to ON members. ON continued to operate and run its programs through the pandemic, with all staff working from home. All spring 2020 events were cancelled, all ON nature reserves were closed, and field work was on hold until restrictions could be lifted.

Some ON highlights of the year are listed below:

- Held annual Youth Summit for Biodiversity & Leadership at YMCA Geneva Park, Orillia, September 20–22;
- Conducted a prescribed burn at Stone Road Alvar Nature Reserve, Pelee Island, September 6;
- Created protocols for monitoring and management of American Ginseng, vernal pools, and long-term monitoring of snakes;
- Published report “How Can We Protect Critical Caribou Habitat and Support Forestry Jobs in Ontario?”;
- Assessed 106 Forest Stewardship Council candidate protected areas based on indicator species, gaps in ecological representation, and engagement with local communities;
- Acquired Gananoque Lake Nature Reserve and expanded Lost Bay Nature Reserve;
- Organized native-tree and native-seed plantings at Sydenham River Nature Reserve;
- Worked on the publication of the Ontario Reptile and Amphibian Atlas;
- Submitted comments to the Ontario Government opposing some of its proposed changes to the Provincial Policy Statement (PPS) 2020. These comments helped in getting policies removed from the PPS that would have allowed aggregates extraction to override protection of significant and at-risk natural heritage features;
- Urged ON members to sign the One Earth, One Vote petition prior to the 2019 federal election; and
- Urged ON members to submit comments to the Ontario Government’s Standing Committee on General Government to oppose proposed changes in omnibus Bill 132, *Better for People, Smarter for Business Act, 2019*, which would undermine environmental protections covered in at least eleven existing Acts.

NL–ON interactions during the year included the following:

- NL and/or some of its members responded to ON Action Alerts to express concern about the following Ontario Government proposals: 1) Changes to the PPS 2014 that would allow pits and quarries in all significant natural features currently under PPS protection; 2) Extension of cottage leases in Rondeau Provincial Park; 3) A cormorant hunt; 4) A spring bear hunt; 5) A permit to damage and destroy Piping Plover habitat at Sauble Beach; 6) Changes to the Conservation Authorities Act; and 7) Extension of the forestry sector’s regulatory exemption from the Endangered Species Act (ESA). Some members also responded to other alerts regarding 1) Protection of Boreal Caribou; 2) Signing on to the Protected Areas Declaration; and 3) Minister’s Zoning Orders for fast-tracking development in farmland and green space.

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- NL was a signatory on letters to the Ontario Government from the Canadian Environmental Law Association (CELA) to express concerns about proposed changes to the Growth Plan for the Greater Golden Horseshoe, and the Lands Needs Assessment Methodology. NL was also a signatory on a letter to the Ontario Government from ON, CELA and Environmental Defence to express support for Ontario’s conservation authorities, which were being threatened by proposed changes to the *Conservation Authorities Act*.

NL President Gordon Neish and Conservation Action Committee member Margo Does appeared before the Ontario Government’s Standing Committee on General Government to express concerns about conservation and protection of elements of Ontario’s natural heritage which were being threatened by habitat destruction, land degradation, climate change, and other human activities under proposed policies in omnibus Bill 132 (see above).

Anita Caveney
Ontario Nature Representative

REFRESHMENTS COMMITTEE

This past season, we not only made a greater effort to have decaf and regular teas along with the herbal assortments, we also served decaf and regular coffee in an effort to better serve all members. As usual, the cookies – whether store bought or homemade – were a big attraction.

Also, having a cupboard to house the coffee maker has reduced the items we bring in and is greatly appreciated.

We are looking forward to the return to in-person meetings and wonder if serving refreshments will even be allowed.

Linda and Jim Bristow

SALES COORDINATOR

	2019/20	2018/19	2017/18	2016/17
Total Revenue	927.00	993.00	1,477.15	1,785.90
Expenses	362.50	269.17	401.65	376.00

The expenses in my report are only for the books we buy from St. Thomas Field Naturalists. Revenue, on the other hand, is for all books from all sources.

Sales are down a little in 2019-20. We didn't have any meetings after February 28th, didn't get to attend Carolinian Canada's Go Wild Grow Wild event and didn't sell at Nature in the City this year. Maybe we can try again next year if we get the new Natural Areas Guides. I did sell \$195.00 worth of books from my home this year.

We did fantastic at Seedy Saturday taking in \$450.00. I feel this is due to the fact that we had two tables. The ladies behind us didn't need their table, so they offered it to us. I pulled it alongside of ours, so I was able to display all the books well. By standing behind the table to talk to customers, they could see everything we had for sale well. When we only have the one table, our advertising screen takes most of the table, so the books are not displayed very well. Also, the two of us have to stand in front of the table to talk to customers because the screen is so high, so it's pretty hard for them to see the books for sale. Maybe we need a smaller advertising screen or one on a stand.

Expenses are up as I only had seven (7) books left after Seedy Saturday. As such, an order was placed with the St. Thomas Field Naturalists on the 10th March, so we are all set for when we can start again. However, I have no Natural Areas Guides left.

Ann Henderson

SAUNDERS LIBRARY (LONDON PUBLIC LIBRARY)

For many years, Nature London has been making a donation to London Public Library to buy books for its library system.

The following is a list outlining the library purchases, usually multiple copies of each title, for the period of September 2019 to August 2020.

Children's titles

The Bird Atlas, by Barbara Taylor,

City of Water (Think Cities), by Andrea Curtis

Zee Grows a Tree, by Elizabeth Rusch

Design like Nature, by Megan Clendenan

Earth's Incredible Oceans, by Jess French

The Outdoor Scientist: The Wonder of Observing the Natural World, by Temple Grandin

Adult titles

Accidental Wilderness: The Origins & Ecology of Toronto's Tommy Thompson Park, by W. Kehm

276 Wild Edible Plants of the United States and Canada: berries, roots, nuts, greens, flowers, and seeds in all or the majority of the United States and Canada, by Caleb Warnock

The Edible Ecosystem Solution: Growing Biodiversity in your Backyard and Beyond, by Zach Loeks

Planting for Butterflies: The Grower's Guide to Creating a Flutter, by Jane Moore

Wild City: A Brief History of New York City in 40 Animals, by Thomas Hynes

Peterson Field Guide to Birds of Eastern and Central North America, by Roger Peterson

All titles can be reserved at London Public Library's web page at www.londonpubliclibrary.ca and picked up from your nearest branch library. In addition, Nature London has donated ten copies of the new Sixth Edition of the *Guide to the Natural Areas of London and Region* to the Library.

Pat Tripp
Saunders Librarian

THAMES TALBOT LAND TRUST

The idea of establishing a local land trust developed within the McIlwraith Field Naturalists (Nature London) in the late 1990s. In the year 2000, the Thames Talbot Land Trust (TTLT) was launched as a separate entity. TTLT is a registered Canadian charity, governed by a volunteer board of directors.

From these early beginnings to the present, Nature London and TTLT have worked together to protect ecologically significant land in the London region. The trust employs a small staff consisting of an Executive Director, Conservation Property Manager, Stewardship Coordinator and an Administrative Manager. When funding permits, summer students are hired.

This report touches on some highlights of Thames Talbot Land Trust activities during the period September 2019 to August 2020. A complete 2019 Annual Report for TTLT is available by clicking on the "About Us" tab at www.ttl.ca.

As previously reported in *The Cardinal*, TTLT acquired its first Oxford County property in 2019. A celebration at the Mud Lake Nature Reserve took place on October 19, 2019. A crowd of more than 100 people acknowledged the generosity of Don and Ruth Bucknell, who donated this 104-acre property to the Trust. Mud Lake Marsh, a Provincially Significant Wetland, is located in South-West Oxford County. The extensive cat-tail marsh and associated features provide an important refuge for reptiles, amphibians and birds, such as Virginia Rail and Sandhill Crane.

In December 2019, TTLT's Executive Director, Suzanne McDonald, retired after nearly a decade in the position. During her tenure, TTLT doubled its holdings of conservation land. Suzanne oversaw the successful completion of several fund-raising campaigns, including the \$1.6 million campaign for Hawk Cliff Woods. Her fundraising expertise was a great asset to the Trust. Currently, Daria Koscinski is serving as Acting Executive Director.

Like most other organizations, TTLT felt the impact of the COVID-19 pandemic. The public health restrictions implemented in March 2020 and revised periodically through subsequent months changed most of TTLT's plans for the year. Initially, it was necessary for staff to do all work from home. All properties were closed to the public for much of the spring. When health restrictions were reduced in early summer, it became possible for staff to work in the field on a number of high priority projects. Appropriate health protocols were observed.

Before the pandemic shutdown, TTLT had been planning various public events, including a new season of the popular Passport to Nature program. In place of field trips, most Passport events were changed to an online format. This adjustment was favourably received. During the 2019 program, most field events were limited to no more than 20 participants – in 2020, the webinar format allowed TTLT to provide quality programming to hundreds of people.

Unfortunately, it was necessary to cancel the popular Eco Folk concert at Aeolian Hall and various events that had been planned at specific properties. In late summer, some volunteer activities were organized, such as weeding of the Auzins Community Wildflower Garden at Hawk Cliff Woods.

Although 2020 is the 20th anniversary of the founding of TTLT, restrictions associated with the pandemic prevented traditional celebration events. Meanwhile, TTLT continued with the Vision 20/20 Campaign, to support purchase of three properties, and long-term stewardship activities for a specified group of donated and purchased properties. This campaign is structured to help replenish TTLT's Opportunities Fund, so that the Land Trust will be ready to purchase additional properties in future, when strategic lands become available. A portion of the money raised through the campaign will support the Jane Bowles Legacy Fund, which provides essential salary dollars for property management staff. Good progress is being made, and the campaign is continuing.

Volunteers are essential to the operations of TTLT and assist in many ways. New volunteers are always welcome! Opportunities include serving on the board and committees, as well as "hands-on" work at properties. Spring and fall work days are scheduled for maintenance of trails and removal of invasive species such as garlic mustard, buckthorn and autumn olive. Once the invasive plants have been eliminated, native species may recolonize the site, or may be encouraged through planting.

There are several ways to keep up to date on the activities of TTLT. Members and friends of TTLT receive a newsletter, the *TaTTLeR*. Electronic communications include email updates, the website (www.ttl.ca), Facebook, Instagram and Twitter. Financial contributions to support the work of TTLT are always welcome, and monthly donations are encouraged. Check the “Make a Donation” button at www.ttl.ca.

TTLT thanks Nature London and its members for ongoing support. We look forward to working together on more projects in future.

Dave Wake, TTLT Liaison

URBAN LEAGUE OF LONDON (ULL)

ULL’s Vision - We believe that engaged and informed Londoners are the building blocks of a vital, successful and sustainable city. We believe that strong and connected communities are critical to bringing them together. Building these connections and advocating for members is what we do.

ULL’s Mission - The Urban League is an umbrella group whose members include a number of neighbourhood and community organizations working to improve and connect our city. Individuals with an interest in urban or civic matters may also become individual members of the League. ULL’s list of core principles can be found at <https://www.urbanleague.ca/about-us>.

Meetings are held on the last Thursday of each month except for June, July, August and December. At each meeting, there is an educational component and the opportunity for members to share information.

Here’s a list of some of the topics discussed this year:

- YIMBY: Yes in my Backyard
- Pollinator Pathways
- City Engagement for City Planning
- Challenges and Opportunities Arising as a Result of the Pandemic

Some of the Member Benefits:

- General Liability insurance for member events and room bookings
- Access to small internal funding opportunities when available
- Partnering on mutually beneficial projects when possible
- Monthly newsletter
- Listing on the ULL website
- Sharing of events on social media (tag ULL for retweets and Facebook shares)
- Connections with neighbourhood and community associations
- Collective voice on city-wide and neighbourhood specific issues
- Digital support with G Suite, which includes mail, Google Sites and Google Drive storage

Nature London members were invited to attend the Urban League's 2020 AGM. NL members who were interested in attending contacted me. I distributed Nature London brochures at meetings. At each Urban League meeting, members have opportunities to share information about the organizations they represent.

I believe that being a member of ULL is an effective way for Nature London to be in touch with what is going on at the municipal government as well as in our local communities. Membership also provides the means by which we can let others know about Nature London. As a member of ULL, Nature London members can add their voices to the collective when issues around the enjoyment and preservation of nature arise. I recommend Nature London continue membership and involvement with the Urban League.

Susan Price

VOLUNTEER COORDINATOR

Again this year, volunteers were key to the great work done by the club. Most of our volunteers continued in the roles they have had for years giving stability to the effort. This year we relied on recommendations of various club members for open positions. A number of volunteers came forward to offer their services directly. Thanks to all who contributed.

Norm Corrin

WEBSITE

Despite the pandemic shutdown, or possibly because of it, it was another busy year in the Nature London website development department.

Website traffic was down slightly from the usual 2000+ hits per month to 1850, but that was primarily due to a five-month club hiatus from March to August while the world was put on hold. During that time, the usual 150 to 200 hits on the electronic version of *The Cardinal* jumped to over 400 downloads for the Spring flight while mailing was delayed.

New functionality was introduced to the website including:

- 1) A mechanism requiring that members register for “Indoor” meetings and outdoor trips.
 - Each type of event has a unique set of requirements and must be handled differently.
 - There were two (2) “indoor” meetings that attracted 73 and 72 registrations, respectively. Actual attendance would have been more with multiple people viewing over one Zoom connection.
 - There were 14 outdoor trips limited to 10 registrations each. All were filled except for one that had nine (9) registrations. Aside from a spot for the hike leader, there were 126 spots available for members to register which were taken by 49 different members.
 - A job aid on how to register and unregister for events was created for the members.
- 2) A robust email facility for handling messages sent from the website to individuals.
 - This will result in fewer “missing” emails for items such as registration confirmations to attendees and coordinators, online purchases, donations, etc.

New sections were added to the Nature London website homepage including:

- 1) **COVID-19 Updates:** A temporary section for communicating club information related to the pandemic.
- 2) **Daily Humor:** A temporary section containing a nature-oriented comic updated daily to keep the website alive and interesting during the initial 100+ days of the pandemic.
- 3) **Featured Member Video:** Highlighted videos created by Nature London members.
- 4) **Pishing:** A place for Nature London members to solicit other members on topics such as their favorite places to hike, homemade videos, presenters for Speakers Night, volunteering for open positions in the club, etc.
- 5) **Follow Us:** Links to Nature London on other social media platforms such as Facebook and YouTube.

New webpages were created including:

- 1) A list of the projects supported by our Eco-Grants program and linked to the Giving Program, partially closing a gap in the program communications.
- 2) A list of registered attendees at upcoming meetings for the Indoor Meeting Coordinators.
- 3) A list of registered attendees at upcoming outdoor events for the Field Trip Coordinators.
- 4) A humor gallery containing past comics that were posted during the initial 100+ days of the pandemic.
- 5) A webpage to support the bi-yearly Columbia Store invitation including a mechanism to keep it “anonymous” in accordance with the vendor’s wishes while covertly advertising on the Nature London website homepage.
- 6) A “FREE eBooks” webpage and corresponding menu item to support eBooks published by members.
- 7) A past “COVID-19 Updates” archive to keep the homepage clean while making all pandemic updates available.
- 8) A new and reorganized “Breaking News” archive where items are group by year.

Photo galleries were created for the following events:

- 1) Cedarcroft Celebration (September 2019)
- 2) Fungi Walk at the Andreae Property (October 2019)
- 3) Cedarcroft Family Day (February 2020)
- 4) “Reflections in Water” Photo Competition (April 2020)

Business as usual and other activities included:

- Posting summertime monthly Moth reports from the Auzins Nature Sanctuary.
- Updating the Featured Member Image monthly, *The Cardinal* quarterly, and the Featured Story and Featured Video on an ad hoc basis.
- Posting the bi-yearly Columbia Store invitation.
- Setting up indoor meetings and outdoor trips in the Events Calendar.
- Creating a 2020 Nature in the City webpage, advertising on the homepage, and setting up six events in the Events Calendar.
- Updating the Christmas and Middlesex County Bird Count Results for 2019.
- Posting and advertising the yearly financial reports, AGM Minutes, Annual Report, and Audit Disposition materials.
- Refreshing the Nature London Community Eco-Grants Program for 2020.
- Posting the 2020 Chimney Swift annual report.
- Doing the yearly refresh of the membership password and printing labels for the backs of membership cards.
- Fixing a bug with the original implementation of the online payment form that allowed someone to submit a comment but not make a purchase.
- Updating various website plugins that provide added functionality as new versions become available. For example, Calculated Fields Form, Events Calendar, Registrations for the Events Calendar, NexGen Gallery, and a half dozen more.

In response to a solicitation from the Cardinal Committee to the membership for videos that could be shared in *The Cardinal* and on the website, a proposal was submitted to the Board for a Nature London branded YouTube channel. It was subsequently approved. A new Nature London YouTube channel and supporting administrative job aid were created. There have been over 600 views of the 20 member videos submitted since going live in September.

Once again, we would like thank Sylvia White who is providing the Nature London web hosting services.

Chris Baldock

AWARDS

W.E. Saunders Award of Merit

Jim Cushing

Special Recognition Award

Norm Corrin

Conservation Awards

Not awarded in 2019-20

Thank You (Suncatcher) Awards

Muriel Andreae

Kathy Ellis

Bob McGee

Gail McNeil

Henry Przysieszny

Enviro Hero Awards

Not awarded in 2019-20

APPOINTMENTS 2019-2020

Archivists	Dave & Winifred Wake
Audio / Visual Technicians	Paul Stevens, Ric Symmes
Awards Banquet Coordinators	Bernie VanDenBelt & Deb Gorman-Smith
Bird Records Secretary	Pete Read
Birding Wing Program Coordinators	Rose Braxton, Kathy McCoy, Quinten Wiegersma
Book Donations	Betsy Baldwin
Brochure Producer	Ray Robertson
Butterfly Count Coordinator	George Prieksaitis
Cardinal Layout Editor	Tom Reaume, Mike Channon
Cedarcroft Committee Chair	Herb Bax
Chimney Swift Liaison	Winifred Wake
Christmas Bird Count Coordinator	Pete Read
Conservation Action Committee Chair	Sandy Levin
Eco-Grants Coordinator	Susan Relecom
E-Newsletter & Email Coordinators	Ric & Sandy Symmes
Facebook Coordinator	Mady Hymowitz
Friends of the Coves Representative	Bill Maddeford
Guide to Natural Areas Editors	Roslyn & Jim Moorhead, Mike Channon
Indoor Meetings Coordinators	Ruth Dickau, Jane Edwards, Rick Martin
London Environmental Network Rep	Susan Price
Manual Secretary	Cathy Quinlan
Membership Secretary	Gail McNeil
Membership Database Support	Hugh Casbourn
Nature in the City Coordinator	Pat Tripp
Nature Line Coordinators	Rick Martin, Gail McNeil, Cathy Quinlan
Ontario Nature Representative	Anita Caveney
Publicity Administrator	Sheila Scott
Refreshments Coordinators	Jim & Linda Bristow
Sales Coordinator	Ann Henderson
Saunders Library Liaison	Pat Tripp
Thames Talbot Land Trust Liaison	David Wake
Urban league of London	Susan Price
Volunteer Coordinator	Norm Corrin
Web Host	Sylvia White
Webmaster	Chris Baldock

BOARD OF DIRECTORS 2019-2020

President	Gordon Neish
Past President	Bernie VanDenBelt
Vice President	Vacant
Treasurer	Lesley Pergau
Recording Secretary	Liz Bell
Director at Large	Nick Bell
Director at Large	John Berry
Director at Large	Mike Channon
Director at Large	Irma Harris
Director at Large	Stacey Jaczko
Director at Large	Paul Stevens
Director at Large	Dan Tigchelaar

The Nature London 2019-20 Annual Report was compiled by Bernie VanDenBelt.