The Leaflet

Newsletter of the Morgan Arboretum

The Legend of John Watson: A New Chapter Unfolds

By Jim Fyles, Arboretum Director

As we know, the Arboretum is full of mystery.

Things happen that are hard to explain: snow vanishes from parking lots; sap buckets appear as if by magic; benches arrive; grass, long one day, is short the next; trees are cut down and then cut up; piles of firewood appear; nursery beds are tended; tracks appear in the snow; and syrup flows.

Like all things of the forest, these mysteries come with a legend: the legend of John Watson.

The legend of John Watson reaches back into the mists of time. Long ago, but not far away, a woodsworker crafted a wonderful tract of land. He envisioned a special place that would bring knowledge, wonder and peace to future generations lucky enough to visit. He had a son who was destined to follow in his father's footsteps to bring the vision to reality.

John was born in the house on the corner of Chemin Sainte-Marie and Pines, as close to the Arboretum as he could get. Legend has it that he arrived with a heart murmur and had to be rushed to hospital where repairs were made. Clearly, a good job was done. From the tops of trees to the depths of night, that heart has never faltered. As John tells it, however, his heart was removed completely, thus explaining his fearsome personage. But we know better. For those of us who have looked deeply into the legend, John is among our favourite confections: tough and crunchy on the outside but with a soft, sometimes even sweet, centre.

John has been a legend in his time. Epic stories are told throughout the region of the tortures he imposed on generations of woodsmen and woodswomen as he drove them to be champions in intervarsity competitions. His axe never missed its mark; neither did his bingo patties. John held a special place in the lives of his woodsmen and woodswomen and his diploma students. Many Quebec farms are prosperous today because of the wisdom dished out with the woodchips at the 6:00 a.m. practice, which kept the farm's sons and daughters out of the bar and focused on school, at least vaguely. And along the way, John's protégés helped him to feed hoards of Octoberfesting autumn-lovers in the Arboretum and to inspire crowds of spectators at the Woodsmen competitions.

Spring 2015

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Farewell, John!

An epoch of the Arboretum's history is coming to a close with John Watson's retirement. Taking after his father, Bob Watson, John has managed the forests, plantations and collections of the Arboretum with great determination for some 40 years. All the while, he was moonlighting --in this case sunrising-as an outstanding coach in the Canadian Intercollegiate Lumberjack Association league, leading the Macdonald Campus teams to triumph more often than not. Many of you have gotten to know him over the years. Join us in wishing John a happy and fulfilling retirement. Your messages will be promptly forwarded to him and will be greatly appreciated.





A cozy Barred Owl by Peter Curcis (Flickr)

he Arboretum is a glorious place where so many go to simply walk under the trees and relax for a couple of hours at a time. For the most part, the wildlife --which, unlike us live here 24/7— keep out of our way (apart from the begging chickadees), but that doesn't mean that they are always comfortable to have us around. It is up to us to be aware that there are things we can do, simple things, that will reduce the stress imposed by our presence.

The creatures most affected by people and dogs are perhaps the birds so this article will concentrate on them, but be aware that most of what follows also applies to the squirrels, chipmunks, deer, coyotes, raccoons, skunks and pretty well anything else that calls this place their home.

88, rue Ste-Anne

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Don't Stress the Wildlife

By Richard Gregson, Chair of the Friends of the Morgan Arboretum and member of Bird Protection Quebec

For example, in the winter months, when birders and photographers go out looking for owls and other desirable species, there is much discussion about whether or not birds are put under stress by the activity of the birders/photographers. It is taken as almost a matter of faith by most birders that there is a huge problem, and that it is almost always the fault of the guy with the big, white

lens, while on the other hand many photographers will just as ardently say that they are scrupulously careful to do no harm. In the warmer months, the call of a bird or the sight of a furry tail disappearing into the undergrowth can induce some visitors, with or without cameras, to rush off to see what it is, or the furry tail may be pursued by an unleashed dog simply because that's what dogs do. At the other end of the spectrum, simply by walking along a trail without paying attention can be enough to do harm; we must be constantly sensitive to the creatures around us.

What causes birds and other animals to become stressed?

There are a number of different causes of stress, but some are only important at particular seasons of

the year. Amongst the most common are:

Predators – Birds and small mammals are constantly on the lookout for something trying to eat them, including people. If not at direct risk, they are also trying to protect their young, their nestlings and eggs from predators like squirrels and crows.

Environmental conditions - Too hot, too cold, too dry, too wet, too noisy, a shortage of food. This is made all the more important when there are irruptions out of normal range such as we see when the northern owls and finches come south in winter. Everything is unfamiliar to them and it all adds to the stress they are under.

Disease and injury – If a bird is going to die then there is little we can do about it, but if it is seemingly coping, it may still be hindered in its ability to find food and shelter and to avoid predators and thereby it is under additional stress. How do you know the creature you are looking at is not "feeling off color" or perhaps has an injured leg or wing joint?

Competition – Too many animals in the area and not enough food for

Continued on page 6



The Human-Wildlife Connection: Past, Present and Future

By Scott Pemberton, Project Coordinator and Naturalist

The Morgan Arboretum, as many of you reading this Carol", I prefer to examine this question by looking at will know, is one of Montreal's best kept secrets. This the past, the present and the future of human-wildlife little patch of heaven is the home to an impressive array coexistence. of wild flora and fauna, but is also a haven for people from all across the city, the suburbs and the surrounding Past regions. The remarkable thing is that this "little patch of Historically, wild flora and fauna have always been threatheaven" isn't so little at all! At a whopping 245 hectares, ened or completely removed by human presence and the or 600 acres, the Morgan Arboretum is a massive green related anthropomorphic risks of hunting and the use of space protected first by the foresight of the Morgan fire. Recent research has shown that the sudden Ausfamily and now by the unwavering dedication of McGill tralian mega faunal extinction of 50,000 to 45,000 years University. The Arboretum is home to a large variety of ago occurred shortly after humans first colonized the falcons, eagles, owls, woodpeckers, frogs, salamanders,

snakes, turtles, beetles, bees, spiders, flies, foxes, squirrels, coyotes, deer, weasels, fisher, mink, otters, rabbits, mice, ravens, mushrooms, flowers, lichens not to mention trees! This variety and abundance wouldn't exist if not for the trees.



Oddly enough the bountiful wild alone is not the most amazing thing about the Arboretum. The most amazing thing about the Morgan Arboretum is that all this nature exists right beside the city of Montreal, one of the busiest cities in North America. It seems so unlikely

that a nature reserve could exist adjacent to a city known for its nightlife, bustling business centers and a booming population of 1.6 million people. It is this mixture of city and nature that raises possibly the greatest question facing human society today: How can human progress coexist with wildlife?

Like Ebenezer Scrooge in Charles Dickens "A Christmas

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Morgan Arboretum

A

Red-bellied Woodpecker sampling sun-

previously isolated continent. A 2005 study of fossils has found evidence to suggest that the arrival of humans and the effects of their activities, hunting and landscape fires, similarly drove the North American megafauna and flora extinction process of the Pleistocene. Similar evidence exists to support the same causes for the Madagascar mega faunal extinctions of the late Holocene. Additionally, after the Polynesians settled in New Zealand 750 years ago, there were drastic ecological changes flower at the bird feeder by Mathias Mutzl and faunal extinctions again believed to be due to their fire use and hunting. All

> of these large-scale extinctions changed the ecology of whole continents and were driven by numerically small groups of nomadic humans.

Present

The plight of wildlife and nature may be in the news now more than ever. With the current global population at an estimated 7 billion people, the human consumption of natural resources is leaving less and less room for wildlife.

Atmospheric concentrations of key greenhouse gases have increased dramatically over the 20th century as a result of human resource use. In particular, studies have shown a drastic increase in CO₂ emissions during the time of intense human population. There is no longer any doubt that human activities are driving the currently observed global climate change.

Continued on page 7



The MAA gratefully acknowledges these individuals and organizations who supported its mission in 2014-2015 through their generous contributions of money, plants, equipment and services.

In addition to the donors listed below, 48 individuals have contributed donations of less than \$50 for a total of \$1,176. The sum of every dollar invested has an impact on the perpetuity of the Arboretum.

Donation Amounts

Commemoration: \$4,305 Arbo 50 Endowment Fund: \$5,653 Benefactor & Sustaining: \$7,313

Continued from page 1

المراجل nan of the woods. Nobody is quite that firewood comes from. Or how ts bloom in March. Or why the syrup s is the best there is –certainly to who rush to buy it as soon as a rumoured. The man of legend is in one moment, and vanished into the next, much like the other cryptic hat inhabit the Arboretum.

is at its best when John has the of a crowd. Whether a tour group, a client, a visitor in search of a trail, or radio, John excels at engaging and He loves the Arboretum and loves out it. And so the legend lives on.

ever know where the real John the legend starts. But we know gend has emerged from one who l loves the Arboretum like no other, rafted and cared for, managed and I the vision as it was conceived. We at debt to this legendary figure.

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Morgan Arboretum

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Trail Improvement Fund:	\$3,712
Road Improvement Fund:	\$2,150
General:	\$4,019

For a total of: \$27,152 Thank you!

Senneville is back on board!

Thank you to the Village of Senneville for reinstating its support of our membership for the coming year (2015-2016). Senneville residents will benefit from a 33% • discount on their membership fees, while • Sainte-Anne-de-Bellevue residents get a 20% break, as they did last year. Please pass the word on to your neighbours and • friends about our subsidized memberships. Cheers to those who plead in favour • of better support for forest conservation!

We wish John a very long, productive and happy retirement. He says that he will be enjoying sleeping in on those early mornings when the snow calls out to be cleared, or when the sap buckets groan and spill over. Somehow, I don't believe him. And who knows? According to legend, the snow will mysteriously disappear and the syrup will flow. 🎄



Continued from page 2

them all; the need to find, claim and hold territory or attract a mate. Happens to most birds every season but those that are less successful, maybe because they are younger and lack experience, are under particular stress. A bird stressed by competition doesn't need a too-close photographer or birder or simply noisy walker not paying attention to add to their problems.

Disturbance – Just by being there we cause animals to be wary. Walking along in noisy, chattering groups, swinging a stick at the undergrowth, wearing overly-bright clothing and letting our children squeal or our dogs off-leash and away from our sides, going off-trail ... all of these behav-

iors contribute to adding stress to the wildlife and are so easy to avoid.

All these small but constant stressors add up and can contribute to birds and mammals being less successful in their chosen habitat/environment than might otherwise be the case.

What general signs does a stressed bird show?

A really stressed bird or mammal will do the obvious. You get too close and it's off and away, but just because it doesn't always depart in a hurry doesn't mean that it is not more than a bit worried about something, and probably about you. Some of these signs are quite subtle and they vary with species and season but, as well as rapid flight, you should be aware of and look for such things as a bird suddenly freezing and pausing what it was doing, signs

of aggression or the utterance of alarm calls, twitchy motions and diversionary behaviors such as atypical preening. If you see any of these behaviors, you should back off slowly and immediately.

A very interesting posting was published in the blog by Christian Arturo, an owl specialist who lives in Winnipeg and works for Bird Studies Canada. I would recommend that anyone going out to look at owls read this in detail, but I will summarize his findings below.¹ Although these points were developed with special relevance to owls, they in fact apply equally to almost all the birds you will happen across in the Arboretum at any time of the year.

Birds may give vocal signs of alarm and stress if you get too close, all the more so if they have a nest. You owe it to the birds to be able to distinguish the alarm calls from the normal "communication" calls—you may owe it to yourself, too, as some birds will, albeit very rarely, attack vou if all else fails.

The birds may look as if they are not worried by your presence but there can be changes in their posture that should indicate otherwise. For example, the Eastern Screech-Owl will become more elongated (tall and thin). Check the eyes too, especially in species that have yellow eyes. You may think its eyes are closed and that it is quietly dozing but, if there is any hint that it is squinting at you through a narrow slit, then it is certainly stressed by your approach.

This one is a bit specialized and involves owls and you will need binoculars. Great Gray, Boreal and Snowy owls have their own way of showing concern. To quote from Artuso's text: "Look closely at the rictal bristles (the long thin feathers at the base of the bill). These feathers normally fall over the nostrils to protect them from dust but they are raised here leaving the nostrils clearly visible. This clue may be subtle and is not always easy to see under field conditions, but it is a key indicator! If you see this behaviour, back off immediately! An owl in this state of alert may seem to be "frozen" and may remain motionless for quite a long period but never mistake that lack of action for tolerance-this owl is not happy and could even choose to attack."

Great Gray Owl with rictal bristles up showing nostrils Photo: Tambako the Jaguar (Flickr)

Morgan Arboretum

There are a good number of owls in

the Arboretum and people always want to see them that is understandable but take a look, take a quick photograph and move on.

Other species of birds have similar responses—subtle, but present. For example, look for fluffing of feathers to make the bird seem larger, postural changes with shoulders raised and wings "ready" for use, nervy movements and the emitting of alarm calls.

Do all birds react badly to stress?

That depends on so many things but it does seem that some species are better able to handle stressors than others are. A very interesting paper by Lendvai et al.² reported that "Species with larger brains relative to their body size show lower baseline and peak glucocorticooid

are scared off by a big bit of glass staring at them (as they levels than species with smaller brains... Because a large brain is a major feature of birds that base their lifetime in see it). Have suitable optics and cameras so that you do learning new things, our results support the hypothesis not have to get too close in the first place. Once you have that enhanced cognition represents a general alternative seen what you want to see, then back off carefully or to the neuroendocrine stress response." continue along the trail and get out of the bird's territory.

In other words, we might assume that larger, brighter birds can cope better than small and not so clever birds ... or, maybe crows can take it better than warblers. But for all that—look for the signs mentioned above. Larger brained species are generally able to learn from situations and adapt once they find they are not at risk, or a at a low level of risk, whereas other, dumber, birds just beat a retreat every time and pay the price if it happens too often.

The Smithsonian summarized the findings of this group thus: " ... for birds at least, stupid is as stupid does when as the gift of intellect keeps perpetually giving." ³

But I just want to see the bird ... I don't mean it any harm!

How many times do we hear that self-serving excuse? Yes, of course we do all want to see the bird and most Remember that, for the most part, the wildlife in the forof us are too readily inclined to put our needs ahead of est copes with our presence, but it is so easy to do sometheirs. In an ideal world for birds we would probably not thing silly and thereby cause them stress. Simply moving go near them (not going to happen in the real world through the forest in a state of awareness is really all we right?) but there are some things we can all do to minineed to do. Remember, we are the invited visitors into mize stress and conflict. their home. 🏶

Never forget that the bird does not know that you don' mean to harm it. It has survived this long by assuming anything bigger than it is probably sees it as a potentia meal and it acts accordingly. Move smoothly and quiet and be prepared to stop; keep your voice low and your

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children quiet. When you see a bird, examine Future it first with your binoculars from a distance and The Population Division of the United Nations Department of Economic and Social Affairs estimates that the try to determine if it is stressed by your presglobal human population will reach 9.3 billion by the year 2050 (United Nations 2011). With this drastic increase in ence, or by something you may not be aware human population, water, food and energy will be in high demand. Currently oil, gas and coal, three non-renewable of. Always assume it is stressed until you energy sources that are relied upon for human energy needs, have known reserves estimated to disappear are sure it is not. If you by 2049, 2079 and 2209 respectively. The prospect of decide to approach then vanishing fossil fuel reserves will lead to new exploration do so at an angle rather sites perhaps in previously untouched natural areas and than walking directly may even occur in protected wildlife reserves. towards it. Raise your binoculars slowly and After such a bleak look at the past, present and future of particularly raise your human interactions with nature you might be excused for camera slowly and smoothly. Many birds Continued on page 8





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In summary

t	Remember that it is not only humans that cause stress
r-	to birds, so you don't need to feel guilty all the time and
	assume that the signs of stress you have identified are
re	necessarily in response to your presence. There might be
	a squirrel creeping up on their eggs for example, but we
S	don't want to make matters any worse for the birds than
	they already are by our own actions.
)	Just pay attention to the behaviour, the attitude and the
re-	calls of every bird and other creature that you see and as-
	sume it is stressed until you can demonstrate otherwise.
	Don't get too close. Don't get closer than you are too
	soon or too rapidly and be prepared to back off. When
	you have seen your fill move along. Keep quiet and try to
	avoid large groups.

ť	¹ Blog Christian Arturo, Sunday Dec. 7, 2014, Signs of stress in owls, <u>Link</u>
I	² Proceedings of the Royal Society B (2015), 282
ly	3 The Smithsonian "Bigger-brained birds keep their cool under pressure" Line

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thinking that the Morgan Arboretum is a figment of my imagination or that a healthy nature reserve filled with life couldn't possible exist next to 1.6 million people. But I assure you the Morgan Arboretum is very real, and it exists as it does because of the dedication of people. The same organism responsible for all the damage mentioned above.

Morgan Arboretum Association

Established in 1952



Dedicated to forest conservation and environmental education

Morgan Arboretum

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RESSION NUMÉRIQUE ET GRAND FORMAT

People are not as disconnected from wildlife as one might think, even with our computers and mobile phones. Just watch an elementary student feed a chickadee out of their hand, and you will see that this connection is clearly very much alive. What else can get a group of twelve year olds to sit silently for 20

The birds overwintering at the Arboretum are fed by:

Bird Protection Protection des oiseaux Quebec du Québec

www.birdprotectionquebec.org

whole minutes? Not even movies can do this anymore. The people of Montreal understand their connection to nature. That's what gets skiers out in any weather all winter.

Ron Thomson, a famous South African Wildlife Manager, wrote in his 1992 book The Wildlife Game: "The future of the world's wildlife lies no longer in the hands of qualified ecological scientists or practicing wildlife managers. The future of the world's wildlife now lies in the hands of the first World Public." I, for one, think nature is in pretty good hands.



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