

# Field Botanists of Ontario

Newsletter

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Red Cedar (*Juniperus virginiana*) at Massassauga Point. Photo by Leslie Collins.

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*FIELD*  
*BOTANISTS of*  
*ONTARIO*

**FIELD BOTANISTS OF ONTARIO NEWSLETTER**

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*The FBO is a non-profit organization founded in 1984 for those interested in botany and conservation in the province of Ontario.*

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The **deadline** for submissions for **Volume 18(1)** is **September 30, 2005**.

Standard source for scientific names and authorities of vascular plants:

Newmaster, S.G., A. Lehela, P.W.C. Uhlig, S. McMurray and M.J. Oldham. 1998. Ontario Plant List. Ontario Ministry of Natural Resources, Ontario Forest Research Institute, Sault Ste. Marie, Ontario. Forest Research Information Paper No. 123, 550 pp. + appendices

## Field Trip Reports

### Massassauga Point Conservation Area

June 13, 2004.

It was a keen group of field botanists who set out bright and early, under the guidance of Terry Sprague and Ed Heuvel, to explore two interesting areas near Belleville, where savannah and alvar plants can be found, including some prairie disjunct rarities.

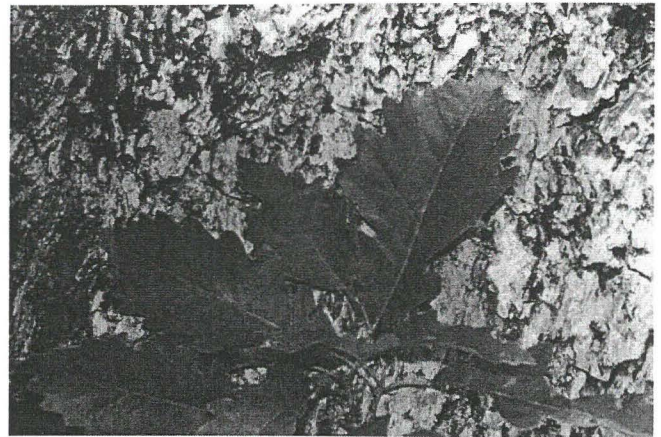
The first site was the Massassauga Point Conservation Area across the Bay of Quinte from Belleville. This area was originally a Bur Oak savannah (with a few small alvars) that the Quinte Conservation Authority is trying to restore. Savannahs are open parkland with 10 to 35 percent tree cover, kept this way traditionally by periodic fires, some occurring naturally, others regulated by the First Nations people. Such areas are disappearing in recent times because of our propensity to prevent all fires. Back in the days of boat travel, the area was the site of the Massassauga Park Hotel, a resort with accompanying dance hall. The buildings are long gone, but old pictures of the hotel show the very same trees, almost unchanged over more than a century.



Oak Savannah at Massassauga Point Conservation Area. Photo by Leslie Collins.

Ed pointed out a Red Cedar (*Juniperus virginiana*), perhaps twenty feet (~6.1 m) tall and a foot and a half (~46 cm) in diameter, and informed us that it was more than 200 years old (cover photo). We saw the distinctive long strips of shaggy bark on *Carya ovata*, and realised why this tree has the common name Shagbark Hickory. As well as Bur Oaks (*Quercus macrocarpa*), there were several other kinds of oak, and we were given a very helpful lesson in distinguishing the different species by their leaves. The pointed lobes of the Red Oak (*Q. rubra*) are distinctive. Although the Bur Oak leaves have rounded lobes like White Oak (*Q. alba*), they are hairy underneath. Deam's Oak (*Q. x deamii*) is a hybrid between Bur Oak and Chinquapin Oak (*Q. muehlenbergii*). It can be distinguished from Bur Oak by the presence of tiny points on the tips of the lobes, an inheritance from the parent Chinquapin, which has pointed lobes. We did not see any Chinquapins but as some of the Deam's Oaks were 300-400

years old, the parent species may well have died out in the intervening years.



Deam's Oak (*Quercus x deamii*) leaves and mature bark. Photo by Leslie Collins.

In the areas where the invasive Buckthorn (*Rhamnus cathartica*) and Prickly Ash (*Zanthoxylum americanum*) are being eradicated by controlled burns every 3-4 years, as well as by herbicides, the ground cover consists mostly of sedges and grasses. The Buckthorn is allelopathic – that is, it sends a chemical into its roots that kills other species, which is why little else grows in areas taken over by it. (Later on, we saw masses of tiny seedlings of an unusual shape, which we discovered were Buckthorn). We saw the large lobed leaves of Mayapple (*Podophyllum peltatum*), and were told that in the spring there are carpets of White Trout Lily (*Erythronium albidum*) on the savannah – a bit of Carolinian Canada. By mid-June of course, this spring ephemeral had pretty well finished its yearly cycle, and all that was to be seen of it were the ripe seed pods. Apparently, the seeds of White Trout Lily, as well as those of Bloodroot (*Sanguinaria canadensis*), which we saw too, have a white appendage which ants love. They cart the seeds off, and when they have finished eating they drop the seed, thereby helping the spread of the plants. In Wild Onion (*Allium canadense*), many or all of the flowers are replaced by sessile bulblets, and any flowers that develop rarely produce fruit. A few of the other plants we saw were Prairie Smoke (*Geum triflorum*), Cleavers (*Galium asprellum*), Finely-nerved Sedge (*Carex leptonevia*), Starry Solomon's Seal (*Smilacina stellata*) and Canada Avens (*Geum canadense*).

We learned that the term alvar is borrowed from the Baltic countries. It is flat limestone bedrock, either bare pavement, or with a thin layer of soil. Savannahs and alvars are similar, but savannahs have a greater depth of soil. Ed told us that in the spring there would have been a sea of Early Buttercup (*Ranunculus fascicularis*) here. I was delighted to come upon Small Skullcap (*Scutellaria parvula*), with such a tiny blue flower that I did not see the skullcap shape of it until I looked with a hand lens. Near an old limestone quarry we saw clumps of the soft hairy leaves of a rare grass, Side Oats Gramma (*Bouteloua curtipendula*). On the alvar, we saw flower buds of the toxic Eastern Death Camas (*Zigadenus elegans*), known from nowhere else in the county. Ed

explained that it is sometimes mistakenly identified as Wild Onion, and collected for food, causing poisoning. The Indians used to crush the bulblets and add sugar to it to attract and kill off biting insects.

Various other plants we found on the alvar included Narrow-leaved Vervain (*Verbena simplex*), Tall Cinquefoil (*Potentilla arguta*), which is a prairie-savannah species with pinnately compound leaves, Bluets (*Houstonia* sp.<sup>1</sup>), which has the charming folk name Quaker Ladies, and Small-flowered Cranesbill (*Geranium pusillum*).

After eating our lunch at the picnic tables in the Conservation Area, we formed a convoy of cars to proceed to our second site, a hydro corridor some distance north of Belleville. In spite of the herding efforts of our executive representative, Bill Crowley, three of the sheep went astray, blindly following one another past the turnoff. We eventually backtracked, found the others waiting for us and merrily continued on our way, oblivious to the fact that the shepherd had left the 99 and was still searching for us!

Bill caught up to us on the lane in to the Hydro corridor, where we had stopped to look at Poke Milkweed (*Asclepias exaltata*). Ed, a constant fountain of knowledge of Indian lore, demonstrated the strength of a last-year's stalk. The Indians used it for rope, braiding it with Indian Hemp (*Apocynum cannabinum*) or with the inner bark of Basswood (*Tilia americana*) to make it even stronger. Along the lane were growing Carrion Flowers (*Smilax herbacea*), and one whiff was more than enough to settle any questions about the origin of the common name. It seemed incredible that anyone would try eating such a thing, but the young shoots are supposed to be edible.

The hydro corridor is an open, sunny area bordered by a rich oak forest. A well-used path runs along under the hydro lines. It was interesting to note that although alien plants were plentiful right on the path, elsewhere the flora seemed to consist almost entirely of native species. A few passing, light showers did not deter us from enjoying the day and the wildflowers – Upright Bindweed (*Calystegia spithamea*), which is a prairie species, Seneca Snakeroot (*Polygala senega*), Blue-eyed Grass (*Sisyrinchium montanum*), and Maple-leaved Viburnum (*Viburnum acerifolium*), among others. New Jersey Tea (*Ceanothus ovatus*) was in bud. Other noteworthy plants we found here were Round-headed Bush-clover (*Lespedeza capitata*) (another prairie species), and Thin-leaved Sunflower (*Helianthus decapetalus*).

Thank you to Terry and Ed for a most enjoyable outing. ▲

Eleanor R. Thomson

## **Recolonization and Natural Regeneration of a Sandpit and Forest**

August 27, 2004.

Todd Norris (OMNR) shared his recently purchased 100 acre property with us on one of the few really hot and muggy

<sup>1</sup>*Houstonia caerulea* was the species of Bluets indicated in the original text. *H. caerulea* is provincially rare and not known from Prince Edward County. It is likely the species seen at Massassauga Point was either *H. canadensis* or *H. longifolia* (M.J. Oldham, pers. comm.).

summer days we had this year (i.e. 2004). The sand pit is near Frontenac Provincial Park, which is all part of an extension of the Canadian Shield called the Frontenac axis. Therefore just under the sand and poking out of the sand in places were huge pieces of granite. Seven people came on the trip and thankfully Todd provided each of us with a list he has begun preparing of all the plant species on his property. The 20 to 30 acre sand pit is surrounded by a plantation of White and Red Pines (*Pinus strobus* and *P. resinosa*, respectively). We started at the sandpit and wandered slowly about, as botanists tend to do, with some guidance to various highlights throughout the area. Crickets and grasshoppers constantly serenaded us. The first thing we spotted as we left the cars was a Compass Goldenrod (*Solidago nemoralis*), which was pointing east. However we decided after looking at a large clump that most of them were pointing north-ish. The sand pit had clusters of various willows (*Salix* sp.). Up high on the banks were several Sandbar Willow (*Salix exigua*) with some Fleabane (*Erigeron annuus*), and a few Purple Loosestrife (*Lythrum salicaria*). The banks also had some stands of Cottonwood (*Populus deltoides*), Trembling Aspen (*Populus tremuloides*), and Balsam Poplar (*Populus balsamifera*). Earlier in the month there were blankets of Deptford Pinks (*Dianthus armeria*) as evidenced by the seed-laden plants everywhere.

We found interesting structures on some of the willows at the bottom of the sandpit, some large knarled black structures (about 12-15 cm) with a very light corky texture. Apparently they are caused by the plants reaction to aphids. In the same area there were several wet marshy depressions and a mound of sand with a few Tonka trucks. The plants we found at the bottom include: Boneset (*Eupatorium perfoliatum*), some Panic Grasses (*Panicum* sp.), Tamarack (*Larix laricina*), Joe Pye Weed (*Eupatorium maculatum*), the branched Water Horsetail (*Equisetum fluviatile*), St. John's Wort (*Hypericum perforatum*), Beggar Ticks (*Bidens cernua*), Marsh Fern (*Thelypteris palustris*), Sensitive Fern (*Onoclea sensibilis*), and a few Helleborine (*Epipactis helleborine*) in fruit. Almost everywhere there were Slender Ladies Tresses (*Spiranthes lacera*) in full bloom. The first large patch we found was amongst some Variegated Horsetail (*Equisetum variegatum*). A flock of about 30 American Robins flew over, two Praying Mantids were found amidst the low vegetation, and there were several butterflies around including: a Monarch Butterfly, a Striped Hairstreak Butterfly, a few Sulphur and Orange Sulphur Butterflies, and a Pearl Crescent butterfly on some Climbing Bittersweet (*Celastrus scandens*).

Todd has had the property for two years and has noticed some changes already. Some areas had been totally torn up by all terrain vehicles before that time. The Balsam Poplars along some of the old tracks are now three feet tall. Last year there had been quite a lot of Russian Thistle (*Amaranthus albus*) blowing about but none at all this year.

Up on the ridges in the sandpit there was a lot of White Sweet Clover (*Melilotus alba*), some Brome Grass (*Bromus inermis*), and about 50 plants of Upright Bindweed (*Calystegia spithamea*) in short Bluegrass (*Poa* sp.). The uncommon Upright Bindweed was no longer flowering.

After we had finished at the sandpit we had our lunch on a mossy ridge by the cars then took off towards the cool shady woods, which were very welcome by that time of day. Before

we got there we spotted a second species of *Spiranthes* with a short lower lip and a glabrous, yellow throat. It was in a drier, rocky field type habitat. In the same area and along the track were several plants of Cudweed (*Gnaphalium obtusifolium*).



Ladies' Tresses (*Spiranthes* sp.) in flower. Photo by Bill Crowley.

Along the trail into the mixed mature deciduous woods we found one flowering plant of Beechdrops (*Epifagus virginiana*) in full flower. Later we were to see several areas where there were masses of 100 plus plants of Beechdrops. There were several ferns and mushrooms and Canada Yew (*Taxus canadensis*) in this area. These species included: Lady Fern (*Athyrium filix-femina*), New York Fern (*Thelypteris noveboracensis*) with its shorter lobes at each end of a frond hence the descriptive "burning a candle at both ends", Oak Fern (*Gymnocarpium dryopteris*), Marginal Woodfern (*Dryopteris marginalis*), Interrupted Fern (*Osmunda claytoniana*), Hay Scented Fern (*Dennstaedtia punctilobula*), Grape Fern (*Botrychium simplex*), Ostrich Fern (*Matteuccia struthiopteris*), Indian Tobacco (*Lobelia inflata*), Spiknard (*Aralia racemosa*), about five plants of Rattlesnake Root (*Prenanthes altissima*) just beginning to flower, mini-puffballs and a Giant Puffball (*Calvatia gigantea*) the size and roundness of a volleyball. The Hay Scented Ferns were in a group of around 50 plants and were identified by the finely tapered frond tips, round sori in the margins of tiny pinnules, which curl under to make the indusium.

After we left the first part of the deciduous wood we walked along a road for a while. It was along the edge of a deciduous treed swamp where Red Maples (*Acer rubrum*), Silver Maples (*A. saccharinum*) and Yellow Birch (*Betula alleghaniensis*) were dominant. There were tussocks of Ostrich Ferns above the water in many areas. In the ditch there was a huge diversity of moisture lovers including: Winterberry (*Ilex*

*verticillata*), Spotted Joe Pye Weed (*Eupatorium maculatum*), Flat-topped Aster (*Aster umbellatus*), Marsh Aster (*A. puniceus*), Jewel Weed (*Impatiens capensis*), Royal Fern (*Osmunda regalis*), Stinging Nettle (*Urtica dioica*), Water Parsnip (*Sium suave*), Turtle Head (*Chelone glabra*), Hog Peanut (*Amphicarpaea bracteata*), Barnyard Grass (*Echinochloa microstachya*), Manna Grass (*Glyceria* sp.), Sorrel (*Oxalis* sp.), Red Clover (*Trifolium pratense*), Orchard Grass (*Dactylis glomerata*), Swamp Milkweed (*Asclepias incarnata*) in fruit, Helleborine and Woodruff (*Asperula odorata*).

Eventually we went back into the woods again. This time there was more Eastern White Cedar (*Thuja occidentalis*), Yellow Birch and Eastern Hemlock (*Tsuga canadensis*). Here we alarmed a Red-shouldered Hawk. Underfoot we found a mass of Golden Thread (*Coptis trifolia*), Partridge Berry (*Michella repens*), *Amanita flavoconca* (yellow cone and yellow spots), a fawn yellow bolitus, Katherina moss, Rattlesnake Fern (*Botrychium virginianum*), Polypore and Oyster Mushrooms, Bladder Fern (*Cystopteris bulbifera*), Jelly Fungus, and Herb Robert (*Geranium robertianum*). Eventually we learned the botanical assets of various trip members. Sheila Thompson is a mycologist and the moist, cool weather we have been having is ideal for fungi growth.

We passed through a plantation of Norway Spruce (*Picea abies*) with a few very prickly Common Prickly Ash (*Zanthoxylum americanum*). From there we entered into a Red Pine plantation where there was a Rose-breasted Grosbeak and White-breasted Nuthatch. We eventually came back into a deciduous forest again with several Black Cherries (*Prunus serotina*) and White Oak (*Quercus alba*), more Beechdrops, and some Wild Gooseberry (*Ribes cynosbati*). We came out of the forest into an abandoned field with several Red Cedar (*Juniperus virginiana*) and Eastern White Cedar, Beaked Willow (*Salix bebbiana*), a boletus with red around the pores (not edible), Calvasia (skull shaped fungus), 15 more spiral *Spiranthes*. An American Toad hopped toward the cedars.



Oak Fern (*Gymnocarpium dryopteris*). Photo by Bill Crowley.

Todd ended the trip near his half-built house and we enjoyed some cool refreshing drinks from his very welcome cooler. It will be interesting to do another Field Botanists of Ontario trip in two to five years to see the changes in and around the sandpit. 🌱

Kim Sayers



## Features

### The Long Swamp

Joan Crowe

The Long Swamp is situated west of Owen Sound. It is about 7 km long and a kilometre wide. Almost certainly, in post-glacial times it was a shallow lake and has been drying up ever since, although the presence of Beaver would have considerably slowed this process. There is little open water. Most of it is a wooded swamp dominated by Eastern White Cedar (*Thuja occidentalis*), but also with White Pine (*Pinus strobus*), Tamarack (*Larix laricina*) and Red Maple (*Acer rubrum*). It is bounded by the Niagara Escarpment to the east and, like Shallow Lake just down the road, it is probably underlain by marl. There will be a high level of calcium ions so this by no means an acid swamp. Within the swamp there are drumlins - ridges of glacial deposits - oriented along the northeast to southwest line of glacial movement. These form islands of high ground. In places there are springs and water always moves through the swamp, sometimes forming small streams, and following the line of the drumlins from the escarpment towards the Pottawatomi River. Therefore, this wetland serves a very important function in purifying water and recycling nutrients.

The division of this area into 100 acre rectangles (approximately 1 km x 500 m) was totally artificial and bore no relation to topography whatsoever. We became interested in Concession A, Lot 21, when it came up for sale. It would have been possible to build one house on the drumlin where it was traversed by the town line. This would have involved cutting down mature trees including a magnificent American Beech (*Fagus grandifolia*) opposite our house, and trucking in fill. It would have been enormously destructive so we bought it for the price of a small car! We discovered that, while most of it is wet, there was part of another drumlin on the far end - divided between four owners! This high ground is an integral part of this ecosystem, providing refuge for wildlife such as White-tailed Deer. In order to be a viable nature reserve the whole area needs to come under protection. It is no good protecting one piece because it has "rare" plants on it if the rest of the area is open to exploitation. Even though the swamp is a provincially significant wetland, the drumlins are listed as "rural". Which means they can potentially be built on or grazed.

Over thirty years previously the Federation of Ontario Naturalists (now Ontario Nature), through the good offices of Mac Kirk, acquired a completely isolated 100 acre lot in the middle of the swamp, with no road access. Part of this lot is an open fen. The attraction was the array of unusual species with a high number of orchids, including Small Round Leaved

Orchis (*Amerorchis rotundifolia*). A flourishing stand of this was discovered by Nels Maher many years ago and is still going strong. He has been exploring the swamp since he was a boy and probably knows it better than anyone. Unfortunately, the FON passed up the opportunity to purchase the next two lots, one of which had road access. However, after we bought our lot, the opportunity came up again and the Nature Conservancy of Canada bought the 200 acres which link our property (now deeded to NCC) with the Mac Kirk Nature Reserve. Since then the Escarpment Biosphere Conservancy under Bob Barnett has purchased a 50 acre triangle along Highway 6 and another substantial property on the other side of the Highway and we are hoping that it may be possible to purchase a section which would link up the EBC property with the FON/NCC complex.

Unfortunately the swamp has long been dissected by two highways, one of which recently underwent extensive reconstruction and certainly impedes the water flow. There are also a number of smaller roads which have been opened up and, in some cases, houses have been built on the drier areas. It was also traversed for some decades by snowmobile trails and this brought ATVs in their wake. Luckily, the snowmobile club, very responsibly, recognised the need to protect wetlands and closed the trails, and we have finally persuaded the ATVs that they are trespassing! The local Township of Georgian Bluffs, since the Walkerton tragedy, is also much more aware of the need to preserve wetlands.

The drumlins had been partially cleared for farming and probably grazed. They have also been logged for maple. The present stands are immature second growth and the ground flora is very depauperate - especially for ferns - because of these past activities. They are, however, beginning to recover and typical rich hardwood forest ferns such as Maidenhair Fern (*Adiantum pedatum*) are beginning to come back.

Much of the area is fairly dense cedar swamp with the mossy hummocks supporting a great variety of species, both of bryophytes and vasculars which are very reminiscent of the boreal forest. It had been continuously logged for cedar posts and for fuel up to about 40 years ago. The lot we bought had been owned by the local brickworks and, presumably, used for a fuel supply. There are the remains of logging roads crisscrossing the area where the ground has clearly sunk and water accumulates in wet seasons. There are enormous white pine stumps, especially along the eastern perimeter, and scattered white pine is regenerating slowly. In places it is a little drier and there are stands of White Birch (*Betula papyrifera*). There are some magnificent old American Beeches on the drier ground near the road and a few surviving Eastern Hemlock (*Tsuga canadensis*). Left to itself, of course, this has the potential to regenerate into the natural mix of species that would have been found here at first settlement approximately 150 years ago.

There are certainly White-tailed Deer within the swamp and they, of course, need the whole area. All the typical smaller mammals are present, Porcupines, Groundhogs, Eastern Cottontail Rabbits (*Sylvilagus floridanus*) and Snowshoe Hares, Red and Black Squirrels, Meadow Voles, bats, etc. Black Bear are definitely present. The smell of bear round the blackberry patch in fall is very pungent! Coyotes move through the area from time to time and Red Fox are also

present. Pileated Woodpeckers are heard, Ruffed Grouse are common, and Ravens are nesting. Great Gray Owls appear occasionally. Wood Thrush, Ovenbirds, Rose-breasted Grosbeaks, and Cardinals are among the nesting birds. Blue Jays abound, of course, but birds like House Sparrows, Starlings and Rock Doves are never seen, even though they are present at the farm just down the road. It is noticeable, too, that on the plant list (see below) there is a much smaller proportion of introduced plants in spite of the disturbance that has taken place over the last 150 years. This is an indication that this is still a relatively natural ecosystem that is not open to invasive introduced species. ♣

## Vascular Plants of the Long Swamp<sup>2</sup>

Joan Crowe

The following vascular plant list was compiled by the author from material supplied by Ontario Nature and her own collections. Introduced species are prefaced with an asterisk (\*).

### CLUBMOSES

|                             |                   |
|-----------------------------|-------------------|
| <i>Lycopodium annotinum</i> | Bristly Clubmoss  |
| <i>Lycopodium clavatum</i>  | Staghorn Clubmoss |
| <i>Lycopodium obscurum</i>  | Ground Pine       |

### FERNS

#### Dennstaedtiaceae

|                            |         |
|----------------------------|---------|
| <i>Pteridium aquilinum</i> | Bracken |
|----------------------------|---------|

#### Dryopteridaceae

|                                  |                      |
|----------------------------------|----------------------|
| <i>Athyrium filix-femina</i>     | Lady Fern            |
| <i>Cystopteris bulbifera</i>     | Bulbulet Fern        |
| <i>Dryopteris carthusiana</i>    | Spinulose Wood Fern  |
| <i>Dryopteris cristata</i>       | Crested Shield Fern  |
| <i>Dryopteris intermedia</i>     | Evergreen Wood Fern  |
| <i>Dryopteris marginalis</i>     | Marginal Shield Fern |
| <i>Gymnocarpium dryopteris</i>   | Oak Fern             |
| <i>Matteuccia struthiopteris</i> | Ostrich Fern         |
| <i>Onoclea sensibilis</i>        | Sensitive Fern       |
| <i>Polystichum lonchitis</i>     | Northern Holly Fern  |

#### Ophioglossaceae

|                               |                  |
|-------------------------------|------------------|
| <i>Botrychium virginianum</i> | Rattlesnake Fern |
|-------------------------------|------------------|

#### Osmundaceae

|                           |               |
|---------------------------|---------------|
| <i>Osmunda cinnamomea</i> | Cinnamon Fern |
| <i>Osmunda regalis</i>    | Royal Fern    |

#### Pteridaceae

|                         |                 |
|-------------------------|-----------------|
| <i>Adiantum pedatum</i> | Maidenhair Fern |
|-------------------------|-----------------|

#### Thelypteridaceae

|                              |            |
|------------------------------|------------|
| <i>Thelypteris palustris</i> | Marsh Fern |
|------------------------------|------------|

### HORSETAILS

|                             |                       |
|-----------------------------|-----------------------|
| <i>Equisetum arvense</i>    | Field Horsetail       |
| <i>Equisetum fluviatile</i> | Swamp Horsetail       |
| <i>Equisetum variegatum</i> | Variiegated Horsetail |

### CONIFERS

|                       |              |
|-----------------------|--------------|
| <i>Abies balsamea</i> | Balsam Fir   |
| <i>Larix laricina</i> | Tamarack     |
| <i>Picea glauca</i>   | White Spruce |

|                           |                     |
|---------------------------|---------------------|
| <i>Picea mariana</i>      | Black Spruce        |
| <i>Pinus strobus</i>      | White Pine          |
| <i>Taxus canadensis</i>   | Canada Yew          |
| <i>Thuja occidentalis</i> | Eastern White Cedar |
| <i>Tsuga canadensis</i>   | Eastern Hemlock     |

### DICOTYLEDONS

#### Aceraceae

|                       |                |
|-----------------------|----------------|
| <i>Acer rubrum</i>    | Red Maple      |
| <i>Acer saccharum</i> | Sugar Maple    |
| <i>Acer spicatum</i>  | Mountain Maple |

#### Anacardiaceae

|                      |                |
|----------------------|----------------|
| <i>Rhus radicans</i> | Poison Ivy     |
| <i>Rhus typhina</i>  | Staghorn Sumac |

#### Apiaceae

|                            |                       |
|----------------------------|-----------------------|
| <i>Cicuta bulbifera</i>    | Bulbous Water Hemlock |
| <i>Osmorhiza claytonii</i> | Sweet Cicely          |

#### Aquifoliaceae

|                               |                |
|-------------------------------|----------------|
| <i>Ilex verticillata</i>      | Winterberry    |
| <i>Nemopanthus mucronatus</i> | Mountain Holly |

#### Araliaceae

|                          |                   |
|--------------------------|-------------------|
| <i>Aralia nudicaulis</i> | Wild Sarsaparilla |
|--------------------------|-------------------|

#### Aristolochiaceae

|                         |             |
|-------------------------|-------------|
| <i>Asarum canadense</i> | Wild Ginger |
|-------------------------|-------------|

#### Asclepiadaceae

|                            |                 |
|----------------------------|-----------------|
| <i>Asclepias incarnata</i> | Swamp Milkweed  |
| <i>Asclepias syriaca</i>   | Common Milkweed |

#### Asteraceae

|                                     |                         |
|-------------------------------------|-------------------------|
| <i>Achillea millefolium</i>         | Yarrow                  |
| * <i>Arctium minus</i>              | Burdock                 |
| <i>Aster borealis</i>               | Rush Aster              |
| <i>Aster lateriflorus</i>           | Calico Aster            |
| <i>Aster puniceus</i>               | Purple Stemmed Aster    |
| <i>Aster umbellatus</i>             | Flat Topped White Aster |
| <i>Bidens cernua</i>                | Nodding Bur Marigold    |
| * <i>Chrysanthemum leucanthemum</i> | Ox Eye Daisy            |
| * <i>Cichorium intybus</i>          | Chicory                 |
| * <i>Cirsium vulgare</i>            | Bull Thistle            |
| <i>Erigeron annuus</i>              | Annual Daisy Fleabane   |
| <i>Erigeron philadelphicus</i>      | Philadelphia Fleabane   |
| <i>Erigeron strigosus</i>           | Rough Daisy Fleabane    |
| <i>Eupatorium maculatum</i>         | Spotted Joe Pye Weed    |
| <i>Eupatorium perfoliatum</i>       | Boneset                 |
| * <i>Hieracium pilosella</i>        | Mouse Ear Hawkweed      |
| * <i>Hieracium piloselloides</i>    | King Devil              |
| <i>Lactuca canadensis</i>           | Canada Wild Lettuce     |
| <i>Petasites frigidus</i>           | Sweet Coltsfoot         |
| <i>Senecio aureus</i>               | Golden Ragwort          |
| <i>Solidago rugosa</i>              | Rough Stemmed Goldenrod |
| <i>Solidago uliginosa</i>           | Bog Goldenrod           |
| * <i>Taraxacum officinale</i>       | Dandelion               |

#### Balsaminaceae

|                           |                      |
|---------------------------|----------------------|
| <i>Impatiens capensis</i> | Spotted Touch-me-not |
|---------------------------|----------------------|

#### Berberidaceae

|                                   |                 |
|-----------------------------------|-----------------|
| * <i>Berberis vulgaris</i>        | Common Barberry |
| <i>Caulophyllum thalictroides</i> | Blue Cohosh     |

#### Betulaceae

|                              |              |
|------------------------------|--------------|
| <i>Betula alleghaniensis</i> | Yellow Birch |
| <i>Betula papyrifera</i>     | Paper Birch  |

<sup>2</sup>Modified from Crowe, J. *Flora of the Long Swamp*.

|                                                     |                          |                                      |                              |
|-----------------------------------------------------|--------------------------|--------------------------------------|------------------------------|
| <i>Betula pumila</i>                                | Swamp Birch              | <i>Lycopus americanus</i>            | Water Horehound              |
| <i>Carpinus caroliniana</i>                         | Blue Beech               | <i>Lycopus uniflorus</i>             | Bugleweed                    |
| <i>Ostrya virginiana</i>                            | Hop Hornbeam             | <i>Prunella vulgaris</i>             | Heal All                     |
| <b>Brassicaceae</b>                                 |                          | <i>Scutellaria lateriflora</i>       | Mad Dog Skullcap             |
| <i>Cardamine diphylla</i>                           | Toothwort                | <b>Lauraceae</b>                     |                              |
| <i>Cardamine pratensis</i> ssp. <i>angustifolia</i> | Cuckoo Flower            | <i>Lindera benzoin</i>               | Spicebush                    |
| <b>Campanulaceae</b>                                |                          | <b>Menyanthaceae</b>                 |                              |
| <i>Campanula aparinoides</i>                        | Marsh Bellflower         | <i>Meynantes trifoliata</i>          | Buckbean                     |
| <i>Lobelia kalmii</i>                               | Kalm's Lobelia           | <b>Myricaceae</b>                    |                              |
| <b>Caprifoliaceae</b>                               |                          | <i>Myrica gale</i>                   | Sweet Gale                   |
| <i>Linnaea borealis</i>                             | Twinflower               | <b>Nymphaeaceae</b>                  |                              |
| <i>Lonicera canadensis</i>                          | Canada Fly Honeysuckle   | <i>Nuphar variegatum</i>             | Yellow Water Lily            |
| <i>Lonicera dioica</i>                              | Twining Honeysuckle      | <i>Nymphaea odorata</i>              | White Water Lily             |
| <i>Lonicera oblongifolia</i>                        | Swamp Fly Honeysuckle    | <b>Oleaceae</b>                      |                              |
| <i>Lonicera villosa</i>                             | Mountain Fly Honeysuckle | <i>Fraxinus americana</i>            | White Ash                    |
| <i>Sambucus canadensis</i>                          | Common Elder             | <i>Fraxinus nigra</i>                | Black Ash                    |
| <i>Sambucus racemosa</i>                            | Red Berried Elder        | <i>Fraxinus pennsylvanica</i>        | Red Ash                      |
| <i>Triostemum aurantiacum</i>                       | Horse Gentian            | <b>Onagraceae</b>                    |                              |
| <i>Viburnum lentago</i>                             | Nannyberry               | <i>Circaea alpina</i>                | Small Enchanter's Nightshade |
| <i>Viburnum trilobum</i>                            | High Bush Cranberry      | <b>Papaveraceae</b>                  |                              |
| <b>Clusiaceae</b>                                   |                          | <i>Sanguinaria canadensis</i>        | Bloodroot                    |
| * <i>Hypericum perforatum</i>                       | Common St. Johnswort     | <b>Plantaginaceae</b>                |                              |
| <b>Cornaceae</b>                                    |                          | * <i>Plantago lanceolata</i>         | Ribwort Plantain             |
| <i>Cornus alternifolia</i>                          | Pagoda Dogwood           | <b>Polygalaceae</b>                  |                              |
| <i>Cornus canadensis</i>                            | Bunchberry               | <i>Polygala paucifolia</i>           | Gaywings, Fringed Polygala   |
| <i>Cornus stolonifera</i>                           | Red Osier Dogwood        | <b>Polygonaceae</b>                  |                              |
| <b>Droseraceae</b>                                  |                          | <i>Polygonum lapathifolium</i>       | Pale Smartweed               |
| <i>Drosera rotundifolia</i>                         | Round Leaved Sundew      | <b>Portulacaceae</b>                 |                              |
| <b>Ericaceae</b>                                    |                          | <i>Claytonia caroliniana</i>         | Broad Leaved Spring Beauty   |
| <i>Andromeda polifolia</i>                          | Bog Rosemary             | <b>Primulaceae</b>                   |                              |
| <i>Arctostaphylos uva-ursi</i>                      | Bear Berry               | <i>Lysimachia ciliata</i>            | Fringed Loosestrife          |
| <i>Chamaedaphne calyculata</i>                      | Leatherleaf              | <i>Lysimachia thyrsiflora</i>        | Tufted Loosestrife           |
| <i>Gaultheria hispidula</i>                         | Creeping Snowberry       | <i>Trientalis borealis</i>           | Starflower                   |
| <i>Gaultheria procumbens</i>                        | Wintergreen              | <b>Pyrolaceae</b>                    |                              |
| <i>Kalmia angustifolia</i>                          | Sheep Laurel             | <i>Orthilia secunda</i>              | One Sided Pyrola             |
| <i>Kalmia polifolia</i>                             | Bog Laurel               | <i>Pyrola asarifolia</i>             | Pink Pyrola                  |
| <i>Ledum groenlandicum</i>                          | Labrador Tea             | <i>Pyrola chlorantha</i>             | Greenish Pyrola              |
| <i>Vaccinium myrtilloides</i>                       | Velvet Leaf Blueberry    | <b>Ranunculaceae</b>                 |                              |
| <i>Vaccinium oxycoccus</i>                          | Small Cranberry          | <i>Actaea pachypoda</i>              | White Baneberry              |
| <b>Fagaceae</b>                                     |                          | <i>Actaea rubra</i>                  | Red Baneberry                |
| <i>Fagus grandifolia</i>                            | Beech                    | <i>Caltha palustris</i>              | Marsh Marigold               |
| <b>Fumariaceae</b>                                  |                          | <i>Clematis virginiana</i>           | Virgin's Bower               |
| <i>Dicentra canadensis</i>                          | Squirrel Corn            | <i>Coptis trifolia</i>               | Goldthread                   |
| <b>Grossulariaceae</b>                              |                          | <i>Ranunculus abortivus</i>          | Small Flowered Buttercup     |
| <i>Ribes cynosbati</i>                              | Prickly Gooseberry       | <i>Ranunculus acris</i>              | Common Buttercup             |
| <i>Ribes glandulosum</i>                            | Skunk Currant            | <i>Thalictrum pubescens</i>          | Tall Meadow Rue              |
| <i>Ribes hirtellum</i>                              | Wild Gooseberry          | <b>Rhamnaceae</b>                    |                              |
| <i>Ribes lacustre</i>                               | Bristly Black Currant    | <i>Rhamnus alnifolia</i>             | Alder Leaved Buckthorn       |
| <i>Ribes triste</i>                                 | Swamp Red Currant        | <b>Rosaceae</b>                      |                              |
| <b>Haloragaceae</b>                                 |                          | <i>Agrimonia gryposepala</i>         | Agrimony                     |
| <i>Proserpinaca palustris</i>                       | Mermaid Weed             | <i>Amelanchier</i> cf. <i>laevis</i> | Smooth Serviceberry          |
| <b>Hydrophyllaceae</b>                              |                          | <i>Aronia melanocarpa</i>            | Black Chokeberry             |
| <i>Hydrophyllum virginianum</i>                     | Virginia Waterleaf       | <i>Fragaria vesca</i>                | Woodland Strawberry          |
| <b>Juglandaceae</b>                                 |                          | <i>Fragaria virginiana</i>           | Wild Strawberry              |
| <i>Juglans cinerea</i>                              | Butternut                | <i>Geum rivale</i>                   | Purple or Water Avens        |
| <b>Lamiaceae</b>                                    |                          | <i>Potentilla fruticosa</i>          | Shrubby Cinquefoil           |
| <i>Clinopodium vulgare</i>                          | Wild Basil               | <i>Potentilla palustris</i>          | Marsh Cinquefoil             |
|                                                     |                          | <i>Prunus serotina</i>               | Black Cherry                 |



|                               |                        |                                    |                                      |
|-------------------------------|------------------------|------------------------------------|--------------------------------------|
| <i>Prunus virginiana</i>      | Choke Cherry           | <i>Carex gracillima</i>            | Graceful Sedge                       |
| <i>Rosa palustris</i>         | Swamp Rose             | <i>Carex interior</i>              | Inland Sedge                         |
| <i>Rubus allegheniensis</i>   | Common Blackberry      | <i>Carex intumescens</i>           | Bladder Sedge                        |
| <i>Rubus idaeus</i>           | Red Raspberry          | <i>Carex lasiocarpa</i>            | Slender Sedge                        |
| <i>Rubus pubescens</i>        | Dwarf Raspberry        | <i>Carex leptalea</i>              | Bristly Stalked Sedge                |
| <i>Sorbus americana</i>       | Mountain Ash           | <i>Carex limosa</i>                | Mud Sedge                            |
| <i>Spiraea alba</i>           | Meadow Sweet           | <i>Carex livida</i>                | Lead-coloured Sedge                  |
| <b>Rubiaceae</b>              |                        | <i>Carex magellanica</i>           | Quaking (Bog) Sedge                  |
| <i>Galium palustre</i>        | Marsh Bedstraw         | <i>Carex pedunculata</i>           | Long-stalked Sedge                   |
| <i>Galium triflorum</i>       | Sweet Scented Bedstraw | <i>Carex pseudo-cyperus</i>        | Cyperus-like Sedge                   |
| <i>Mitchella repens</i>       | Partridge Berry        | <i>Carex retrorsa</i>              | Retorse Sedge                        |
| <b>Salicaceae</b>             |                        | <i>Carex rosea</i>                 | Stellate Sedge                       |
| <i>Populus balsamifera</i>    | Balsam Poplar          | <i>Carex stipata</i>               | Awl Fruited (Stipitate) Sedge        |
| <i>Populus grandidentata</i>  | Big Toothed Aspen      | <i>Carex tenera</i>                | Weak (Slender) Sedge                 |
| <i>Populus tremuloides</i>    | Trembling Aspen        | <i>Carex trisperma</i>             | Three Seeded Sedge                   |
| <i>Salix bebbiana</i>         | Beaked Willow          | <i>Carex vulpinoidea</i>           | Fox Sedge                            |
| <i>Salix candida</i>          | Hoary Willow           | <i>Cladium mariscoides</i>         | Twig Rush                            |
| <i>Salix discolor</i>         | Large Pussy Willow     | <i>Eleocharis elliptica</i>        | Elliptic Spike Rush                  |
| <i>Salix eriocephala</i>      | Diamond Willow         | <i>Eriophorum virginicum</i>       | Tawny Cottongrass                    |
| <i>Salix pedicellaris</i>     | Bog Willow             | <i>Eriophorum viridi-carinatum</i> | Green Keeled Cottongrass             |
| <i>Salix petiolaris</i>       | Slender Willow         | <i>Rhynchospora alba</i>           | White Beakrush                       |
| <b>Sarraceniaceae</b>         |                        | <i>Schoenoplectus acutus</i>       | Hardstem Bulrush                     |
| <i>Sarracenia purpurea</i>    | Pitcher Plant          | <i>Scirpus atrovirens</i>          | Dark Green Bulrush                   |
| <b>Saxifragaceae</b>          |                        | <i>Scirpus cyperinus</i>           | Wool Grass                           |
| <i>Mitella nuda</i>           | Naked Mitrewort        | <i>Trichophorum alpinum</i>        | Northern Club Rush                   |
| <i>Parnassia glauca</i>       | Grass of Parnassus     | <i>Trichophorum cespitosum</i>     | Tufted Club Rush                     |
| <i>Tiarella cordifolia</i>    | Foamflower             | <b>Iridaceae</b>                   |                                      |
| <b>Tiliaceae</b>              |                        | <i>Iris versicolor</i>             | Blue Flag                            |
| <i>Tila americana</i>         | Basswood               | <b>Juncaceae</b>                   |                                      |
| <b>Ulmaceae</b>               |                        | <i>Juncus canadensis</i>           | Canada Rush                          |
| <i>Ulmus americana</i>        | American Elm           | <i>Juncus effusus</i>              | Soft Rush                            |
| <b>Urticaceae</b>             |                        | <b>Juncaginaceae</b>               |                                      |
| <i>Laportea canadensis</i>    | Wood Nettle            | <i>Triglochin maritimum</i>        | Seaside Arrow Grass                  |
| <b>Violaceae</b>              |                        | <b>Liliaceae</b>                   |                                      |
| <i>Viola blanda</i>           | Sweet White Violet     | <i>Allium triococum</i>            | Wild Leek                            |
| <i>Viola canadensis</i>       | Canada Violet          | <i>Clintonia borealis</i>          | Blue Bead Lily                       |
| <i>Viola conspersa</i>        | Dog Violet             | <i>Erythronium americanum</i>      | Trout Lily                           |
| <i>Viola cucullata</i>        | Blue Marsh Violet      | <i>Lilium philadelphicum</i>       | Wood Lily                            |
| <i>Viola pubescens</i>        | Yellow Violet          | <i>Maianthemum canadense</i>       | False Lily-of-the-Valley             |
| <i>Viola renifolia</i>        | Kidney Leaved Violet   | <i>Maianthemum stellatum</i>       | Starry False Solomon's Seal          |
| <i>Viola selkirkii</i>        | Great Spurred Violet   | <i>Maianthemum trifolium</i>       | Three Leaved False<br>Solomon's Seal |
| <b>Vitaceae</b>               |                        | <i>Medeola virginiana</i>          | Indian Cucumber Root                 |
| <i>Parthenocissus inserta</i> | Virginia Creeper       | <i>Polygonatum pubescens</i>       | Hairy Solomon's Seal                 |
| <i>Vitis riparia</i>          | Frost Grape            | <i>Streptopus roseus</i>           | Rose Twisted Stalk                   |
| <b>MONOCOTYLEDONS</b>         |                        | <i>Tofieldia glutinosa</i>         | Sticky False Asphodel                |
| <b>Cyperaceae</b>             |                        | <i>Trillium erectum</i>            | Red Trillium                         |
| <i>Carex aquatilis</i>        | Water Sedge            | <i>Trillium grandiflorum</i>       | White Trillium                       |
| <i>Carex arctata</i>          | Droping Wood Sedge     | <b>Orchidaceae</b>                 |                                      |
| <i>Carex aurea</i>            | Golden Sedge           | <i>Amerorchis rotundifolia</i>     | Small Round Leaved Orchis            |
| <i>Carex castanea</i>         | Chestnut Sedge         | <i>Arethusa bulbosa</i>            | Arethusa, Dragon's Mouth             |
| <i>Carex chordorrhiza</i>     | Creeping Sedge         | <i>Calopogon tuberosus</i>         | Grass Pink                           |
| <i>Carex crinita</i>          | Fringed Sedge          | <i>Coeloglossum viride</i>         | Long Bracted Green Orchid            |
| <i>Carex cristatella</i>      | Crested Sedge          | <i>Corallorhiza trifida</i>        | Early Coralroot                      |
| <i>Carex deweyana</i>         | Dewey's Sedge          | <i>Cypripedium acaule</i>          | Pink Lady's Slipper                  |
| <i>Carex disperma</i>         | Soft-leaf Sedge        | <i>Cypripedium arietinum</i>       | Ram's head Lady's Slipper            |
| <i>Carex echinata</i>         | Star (Prickly) Sedge   | <i>Cypripedium calceolus</i>       | Yellow Lady's Slipper                |
| <i>Carex exilis</i>           | Starved (Bog) Sedge    | <i>Cypripedium reginae</i>         | Showy Lady's Slipper                 |
| <i>Carex flava</i>            | Yellow Sedge           |                                    |                                      |

|                                 |                             |
|---------------------------------|-----------------------------|
| * <i>Epipactis helleborine</i>  | Helleborine                 |
| <i>Listera cordata</i>          | Heart Leaved Twayblade      |
| <i>Platanthera huronensis</i>   | Tall Whitish-green Orchid   |
| <i>Platanthera lacera</i>       | Ragged Fringed Orchid       |
| <i>Platanthera obtusata</i>     | Small Northern Bog Orchid   |
| <i>Platanthera psycodes</i>     | Small Purple Fringed Orchid |
| <i>Spiranthes romanzoffiana</i> | Hooded Ladies' Tresses      |
| <b>Poaceae</b>                  |                             |
| <i>Agrostis gigantea</i>        | Redtop                      |
| <i>Calamagrostis canadensis</i> | Bluejoint                   |
| <i>Dactylis glomerata</i>       | Orchard Grass               |
| <i>Glyceria striata</i>         | Fowl Manna Grass            |
| <i>Leersia oryzoides</i>        | Rice Cut Grass              |
| <i>Muhlenbergia mexicana</i>    | Wirestem Muhly, Satin Grass |
| <i>Oryzopsis asperifolia</i>    | Rough Leaved Rice Grass     |
| <i>Poa palustris</i>            | Fowl Meadow Grass           |
| <i>Poa pratensis</i>            | Kentucky Blue Grass         |
| <i>Schizachne purpurascens</i>  | False Melic Grass           |
| <i>Sphenopholis intermedia</i>  | Slender Wedge Grass         |
| <b>Typhaceae</b>                |                             |
| <i>Typha latifolia</i>          | Common Cat Tail             |



## Letters

### HAM Significant Plant Records Feedback

Re. "Significant Plant Records from the Herbarium of the Royal Botanical Gardens (HAM): 2003" (Winter 2005, FBO Newsletter Vol. 17(2): 7-12).

Dear Leslie,

I would like to clarify further the apparent confusion created by the artificial divisions used in "The Checklist of Vascular Plants of Bruce and Grey Counties". This publication was based on a document produced by Joe Johnson for the Ministry of Natural Resources. It was his decision to divide the two counties into three areas. The logic behind this is that the Bruce Peninsula, being within the influence of both Georgian Bay and the main part of Lake Huron, has a somewhat different climate and conditions from the southern parts of Bruce and Grey counties. This accounts for the great variety of species and the number of endemics found there. It does, however, put part of Grey County in the Peninsula area. However, Carl Rothfels was correct when he stated some of the species he found were "rare" in Grey County. It all depends which set of boundaries you are looking at - political or otherwise!

There is a map and an explanation of this in the introduction to the book. The third edition was produced in 2003 and is still available (\$5.00). All our publications cover both counties and all are still in print - the orchid book, fern book and rare species books are all \$15.00, the Asters, Goldenrods and Fleabanes is \$8.00. Your readers may also be interested to know that a new Geology Committee was created a few years ago and in 2004 produced "The Geology and Landforms of Bruce and Grey Counties" (\$25.00), which is obtainable from the plant committee and is proving very popular. I should also

mention that our fern book is being used as a text at Sault College.

I was interested in Carl's article as I realised that the species he cited as being found two kilometres south of Cruikshank were, in fact, in the Long Swamp in the 100 acre Mac Kirk Nature Reserve which has belonged to Ontario Nature since 1972. More recently, the Nature Conservancy of Canada has acquired 294 acres and the Escarpment Biosphere Conservancy an almost equal amount. There is, however, a great deal of this very large wetland complex still in private hands. It is not, in fact, possible to access the swamp from Cruikshank, which is simply a name on the map and not really a place at all. Permission would have to be obtained in order to visit these nature reserves.

I should explain that we live on the very edge of the swamp and have been heavily involved with its protection. I am enclosing a short article about the swamp and a plant list, which I have compiled from material supplied by Ontario Nature and my own collections.

Yours sincerely,

Joan Crowe

Bruce-Grey Plant Committee  
crowe@log.on.ca

Joan,

Thank you for providing our readership with an expanded explanation of the Bruce-Grey boundaries presented in "The Checklist of Vascular Plants of Bruce and Grey Counties". Readers can find the Long Swamp article and associated plant list in the Features section of this newsletter.

-Leslie



## Notices

### FBO 2005 Annual General Meeting

September 17 and 18, 2005.

This year the annual general meeting will be held in Guelph at the Aberfoyle Mill. The guest speaker for Saturday evening will be Dan Kraus from the Nature Conservancy Canada. He will be giving a talk on the conservation of globally significant vascular plants and communities in Ontario.

Field trip leaders include Wasyl Bakowsky, Ken Ursic, Allan Anderson and Carl Rothfels.

So reserve the dates in your planners, PDAs, calendars or tie a string around your finger, as this should be a great AGM!

Registration forms were scheduled to arrive in mailboxes for mid-August.

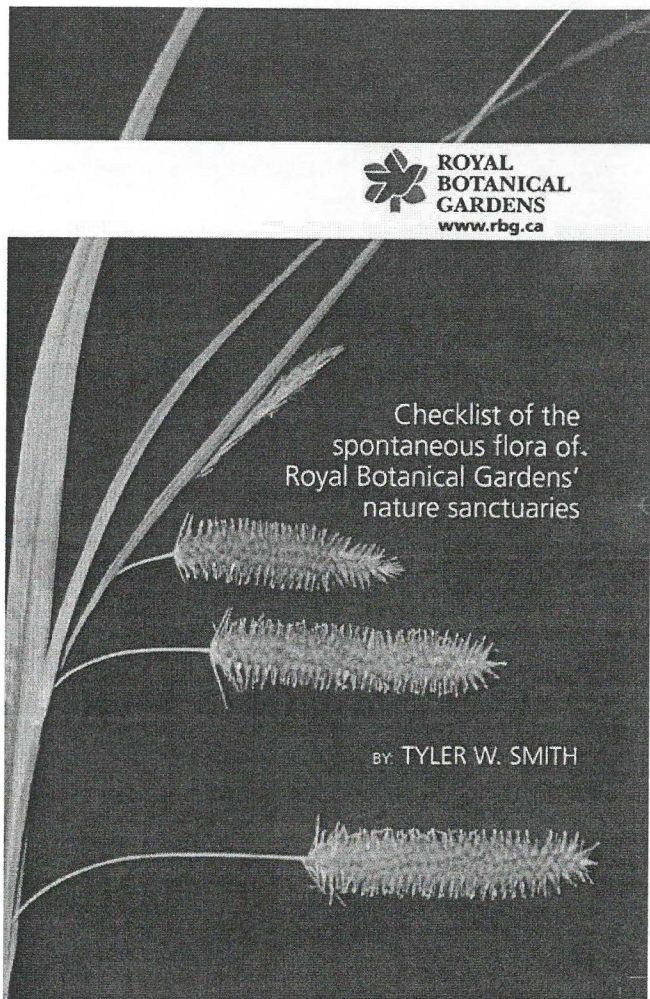
Mary Ann Johnson

Vice President

Field Botanists of Ontario

### New Royal Botanical Gardens Checklist

Smith, Tyler. 2003. Checklist of the spontaneous flora of Royal Botanical Gardens' nature sanctuaries. Royal Botanical Gardens. Hamilton/Burlington. Contribution #113. 110 pp.



Royal Botanical Gardens is pleased to announce that our long-awaited updated checklist is now available in print! And long-awaited is no exaggeration – the recent checklist, by Tyler Smith, is the first since Jim Pringle’s ground-breaking 1969 work, which has long served as the primary resource not just for RBG property, but for all of Hamilton and Halton.

Royal Botanical Gardens manages approximately 1,000 hectares of nature sanctuary in Hamilton and Halton regions, nestled between the western end of Lake Ontario and the Niagara Escarpment. This unique geography, combined with a long and extensive history of botanical exploration and documentation, results in a very rich flora: the new checklist contains 1,117 vascular plant taxa. This tally, impressive in itself, is all the more notable when compared to the tally for Halton Region (1,301 taxa – Varga et al. 2000) and Hamilton (1,430 taxa – Goodban 2003).

The checklist contains annotated entries for each species, detailing the RBG properties on which it has been found, as well as its local and provincial status, and including relevant additional notes where appropriate. This checklist will thus be invaluable not only to those naturalists visiting our properties, but to botanists working throughout Ontario – it contains information on the most significant populations of some Nationally Endangered species (including *Trichophorum planifolium*) as well as data on the providence, introduction

and occurrence of certain particularly threatening invasive species (*Cynanchum rossicum*, *Petasites japonicus*, *Glyceria maxima*, etc.)

With the inclusion of an introduction and notes on the Gardens’ properties, the history of botanical exploration of the area, and an overview of restoration and conservation work at the Gardens, this updated checklist is a fitting revision of Pringle’s 1969 version. It is available through Royal Botanical Gardens for \$5, and online at [www.rbg.ca](http://www.rbg.ca).

As always, checklists are works in progress. Please consult the checklist when visiting our properties, and let me know ([crothfels@rbg.ca](mailto:crothfels@rbg.ca)) of any interesting discoveries!

The printing of this checklist was made possible through the generosity of the Great Lakes Sustainability Fund of the Government of Canada.

Carl Rothfels

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## Society for Ecological Restoration (SER) Ontario Chapter

SER Ontario is part of an international organization committed to the ecologically sensitive repair and management of ecosystems. While the focus of the Chapter’s efforts is the Ontario region, they strive to share ideas and initiatives across borders and around the globe.

The SER mission: To promote the practice of ecological restoration and provide educational opportunities and materials for members and for the community at large. SER Ontario, in collaboration with SER International, are committed to the development of ecological restoration as a science, art, and conservation strategy.

SER Ontario hosts field trips showcasing restoration projects throughout the field season. Interested parties are encouraged to visit [www.serontario.org](http://www.serontario.org) for more information regarding upcoming trip dates, fees and registration procedures.

## Terrestrial Monitoring Volunteers Wanted

The Toronto and Region Conservation Authority is seeking volunteers for terrestrial monitoring within the Greater Toronto Area.

Interested volunteers will be assigned to a 10-hectare field site and will be asked to monitor the assigned site ten times/year (including two winter visits) for species of flora and fauna. Volunteers do not need any identification

experience as they are trained through the program. The only requirements are interest and enthusiasm for nature and environmental monitoring, willingness for longer-term commitment and a desire to learn. Some sites require the use of a car to access.

For further information, please contact:

Jennifer Skelton  
Terrestrial Volunteer Coordinator  
Toronto and Region Conservation  
(416) 661-6600 Ext. 5658  
[jskelton@trca.on.ca](mailto:jskelton@trca.on.ca)

### English Ivy Information Request

English Ivy (*Hedera* spp., Araliaceae) is recognized as a serious invader on the Pacific Coast. However, though it is anecdotally reported throughout North America, its distribution is poorly documented<sup>3</sup>.

As part of my Ph.D. research at the University of Washington, I am constructing a distribution map of ivy so that the overall scope of invasion can be assessed. If you are aware of ivy populations that are invading natural areas anywhere in Ontario, I would love to know about them. Please include the location, a description of the ivy population, and details on the severity of invasion.

Tara Fletcher Ramsey  
University of Washington  
[tsf@u.washington.edu](mailto:tsf@u.washington.edu)

### Harebell Seed Collection Request

Harebell (*Campanula rotundifolia*) seeds are being sought for use in an upcoming laboratory exercise.

If you have access to Harebell specimens in fruit and are willing to help, please get in touch with me obtain details on collection requirements.

Dirk Janas  
President  
Field Botanists of Ontario  
[djanas@gartnerlee.com](mailto:djanas@gartnerlee.com)

### Newsletter Housekeeping

With the new field season well underway, I would like to take the opportunity to remind all field trip report authors to visit the Instructions for Authors page at [www.trentu.ca/fbo](http://www.trentu.ca/fbo) for a myriad of helpful tips.

Material is required for the upcoming newsletter so send your contributions to [fbo@leslie.com](mailto:fbo@leslie.com) as soon as you are able!

Leslie Collins  
Editor  
Field Botanists of Ontario

## Botanical Diversions

### The Latin Name Game

I was first introduced to this game, as a pimply-faced teenager, by my mischievous<sup>4</sup> elder colleagues at the Algonquin Park Visitor Centre. I'm not sure where the game actually originated – its birth may be lost in the mist of time<sup>5</sup> – but as long as naturalists will be stuck together on long road trips, the game will continue! And the game is a great incentive, if nothing else, to work on remembering scientific names.

The rules are simple – one player supplies the clue, the other struggles for the answer. Reverse roles, and repeat. The clue has two parts. First is the scientific name for a genus (i.e. “*Aster*” or “*Geum*” or “*Botrychium*” or “*Schoenoplectus*”), and the second is an English word. The answer is the English translation of the genus name, and a synonym for the English part of the clue, which RHYME.

This may seem complicated, but once you try one, it'll all make sense. For example, a clue: “*Pinus* backbone.” “*Pinus*” is the genus name, and “backbone” is the English word. The answer, of course, is “pine spine.” Pine is the English version of *Pinus*, and spine is a synonym for backbone. Pine and spine rhyme. Case closed.

But that one was easy. Try these:

1. *Chrysanthemum* infatuated
2. *Acer* affixer
3. *Malus* pseudofruit beverage
4. *Vicia* dog game
5. *Carex* shelf
6. *Betula* stumble
7. *Tilia* hockey player
8. *Gentiana* support
9. *Kalmia* dispute
10. *Silene* conqueror

Or geekier versions:

11. *Bromus* fleshy-fruit

Or exotic versions:

12. *Phyllostachys* hair product

How did you do (answers below)? Ready for those road trips? Now that you've mastered the game, fame and wealth must be just around the corner, clearly. Enjoy!

Carl Rothfels

|                           |                  |
|---------------------------|------------------|
| 7. Linden (L'evor) Linden | 1. Daisly crazy  |
| 8. Gentian pension        | 2. Maple staple  |
| 9. Laurel quarrel         | 3. Apple Snapple |
| 10. Champion champion     | 4. Vetch fetch   |
| 11. Brome pome            | 5. Sedge ledge   |
| 12. Bamboo shampoo        | 6. Birch lurch   |

Answers:



<sup>3</sup>Editor's Note: Tara has mentioned that there are likely two species of *Hedera* involved in the invasions in North America. Distinction between the two is not reliable in the field. We encourage FBO colleagues to support this interesting project by providing her with appropriate records.

<sup>4</sup>Note: A.k.a. “malicious”.

<sup>5</sup>Note: If anyone knows the twisted soul that first devised the Latin Name Game, please let Carl Rothfels know.