

## New York Flora Association

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**Editor's Note:** Thanks for all the field trip reports, starting with the Titus' recap of what sounds like a lovely, though rainy, day in an interesting place. Field trip season may be over, but we can at least look forward to next year's trips and workshops. Anyone reading Scott Ward's article on this past season's sedge workshop could not help but be inspired to take (or re-take!) Tony Reznicek's great workshop. Other articles include another informative one from Michael Hough, this time on *Viburnum opulus* (native or non-native), and a piece on this year's Plant Conservationist of the Year recipient. And finally, congratulations and cheers to David Werier for tackling and completing the monumental task of recording and verifying the known vegetation of New York State. His compilation, based completely on vouchered and verified specimens, is now ready to go to publication.

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## Fredonia College Lodge Nature Preserve Field Trip, July 1<sup>st</sup>, 2017

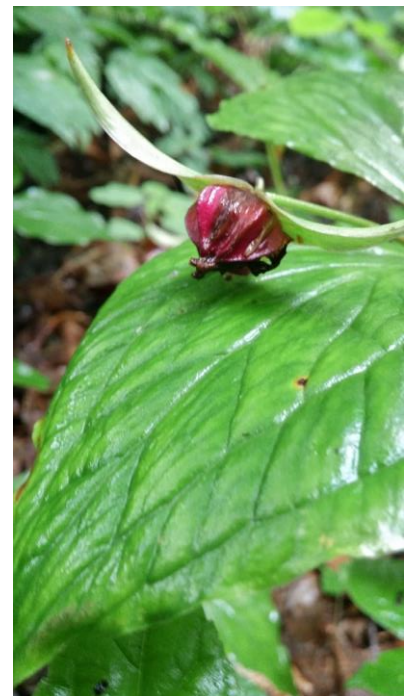
by Priscilla and Jon Titus

It was not a day for the faint of heart or those without a mighty thirst for botanical sauntering, but despite the pouring rain, thirteen enthusiastic souls gathered in the parking lot of Fredonia's College Lodge Nature Preserve in Brocton New York. This joint field trip with the Niagara Frontier Botanical Society also attracted members of three local land trusts: the Nature Sanctuary Society of Western New York, the Western New York Land Conservancy, and the Chautauqua Watershed Conservancy. While we waited for a lull in the persistent downpour, we pored over maps and aerial photos on the cozy back porch of the Mackie Camp Lodge, discussing the history of the site and ways that the 200-acre preserve and its old growth hemlock forest might be further protected.

The Preserve was purchased by students in 1939 who agreed to fund it through an increase in their fees. The Science Department began to use the site right away for Biological Research and trees were planted in areas that had been deforested. The lodge was built in 1941 as a means of "promotion of good health through the medium of the out-of-doors", and fostered activities including snowshoeing, tobogganing, wood-cutting, maple syrup production, square dancing, canoeing and music camps. In 1969, the Preserve was deeded to the Faculty Student Association with the obligation to

function as a steward and to manage the property in a manner "advantageous to the State University of New York College at Fredonia".

One of the many special features of the Preserve is its unique location at the top of ridge that separates the St. Lawrence and Mississippi watersheds and serves as a major flyway for neotropical migrants and wintering raptors. Habitats are varied and include northern hardwoods, hemlock forests, red pine plantations reverting to young northern hardwoods, meadows, ponds and a 10-acre marsh frequented by bald eagles and wood ducks and impounded by a massive beaver dam.



White trillium (*Trillium grandiflorum*) fruit.

As the rain let up a bit, we all headed out to explore the trails. Six species of clubmosses (*Diphasiatrum digitatum*, *Huperzia lucidula*, *Lycopodium clavatum*, *Lycopodium*

*obscurum*, *Lycopodium dendroideum*, and *Spinulum annotinum*) that carpet the forest floor muffled the sound of the raindrops. Most of the spring ephemeral species had finished flowering but were busy making seeds, including the three trillium species (*Trillium grandiflorum*, *Trillium erectum*, and *Trillium undulatum*) that the deer had missed. Indian cucumber root (*Medeola virginiana*) still had a few dangling flowers that glistened with raindrops.



Canada lily (*Lilium canadense*).

We were delighted to find Canada lily (*Lilium canadense*) and beebalm (*Monarda didyma*) in full flower. More subtle delights on the forest floor included flowering spotted wintergreen (*Chimaphila maculata*), common shinleaf (*Pyrola elliptica*), and rattlesnake fern (*Botrychium virginianum*) with a fertile stalk. Pink lady's slipper (*Cypripedium acaule*) and blue bead lily (*Clintonia borealis*) were in full fruit. Colorful fungi were abundant in all shapes and sizes wherever we ventured.



Ed Fuchs admires gigantic fungi.

We visited one of several deer exclosures in the forest that were installed to examine the changes a burgeoning deer population is having on the forests in our region. The exclosures are relatively new but plants are noticeably more vigorous within the exclosure, and we will be interested to see if new species appear as time passes.

At the edge of the marsh, a population of bottle gentian (*Gentiana clausa*) was just forming its blue buds. Blue flag (*Iris versicolor*) had finished flowering, but the yellow pond lilies (*Nuphar advena*) towered colorfully over the diverse aquatic plant community that included two bladderwort species (*Utricularia macrorhiza* and *U. minor*) and was fringed with water willow (*Decodon verticillatus*).

To date, over 400 vascular plant species have been documented within the Preserve. Nearly any time of year it is a delight to visit. If you couldn't join us during the field trip but are interested in visiting another time, send an email to [titus@fredonia.edu](mailto:titus@fredonia.edu) for a map, directions and a plant list.







Spreading dogbane (*Apocynum androsaemifolium*) was in flower at the edge of the forest (left) and rattlesnake fern (*Botrychium virginianum*) had fertile stalks (right).



The hardest plant enthusiasts were found on a rainy day in Chautauqua County at the Fredonia College Lodge Nature Preserve.



## The subspecies of Highbush Cranberry (*Viburnum opulus* L.)

by Michael Hough

Chances are you have come highbush cranberry (*Viburnum opulus*) in the field, and odds are that most of the plants you have seen are of European origin. This species is one of several *Viburnum*s that produce two types of flowers in the inflorescence: rather showy sterile flowers on the margins of the cyme for attracting pollinators and inconspicuous fertile flowers taking up most of the center of the inflorescence. Another example in our flora with this type of inflorescence is hobblebush (*V. lantanoides* Michx.). Typical *Viburnum opulus* is widely used as an ornamental plant and many cultivars have been selected for cymes that produce primarily sterile flowers. These cultivars are sold under names like 'Roseum', 'Sterile', and 'Snowball' in reference to the spherical clusters of sterile white flowers ('Roseum' referring to the tendency of the flowers to fade to pink as they age). The common name highbush cranberry is a misnomer as this shrub is a member of the moschatel family (Adoxaceae) and is not related to true cranberries (*Vaccinium* spp., family Ericaceae). However, the fruits are similar to cranberries in that they are red, fleshy, and quite acidic. This comes with a caveat, as the fruit of the European subspecies tends to be bitter and altogether unpalatable.

We also have a native subspecies, formerly treated as *V. trilobum* Marshall, but now widely accepted to be *V. opulus* ssp. *americanum* Ait. The fruit of this taxon is usually less bitter and therefore reasonably edible, albeit sour. As in typical *V. opulus*, there are now several good cultivars of ssp. *americanum* that are often still sold under the old name *V. trilobum*. The cultivar 'Compactum' has a dense growth habit and nice fall color but lacks the mainly sterile flowers of the more popular cultivars of typical *V. opulus* (which could be considered a bonus if you are growing plants to benefit pollinators). It is worth noting that native or naturalized plants of both subspecies will have fertile flowers in the center of the inflorescence as it is only some cultivars that produce strictly sterile flowers.

If you want to know if you are growing or have found the native or introduced subspecies, this is not

difficult to determine. Both have opposite, trilobed leaves but the introduced subspecies has disk-shaped or cup-shaped glands on the petiole. In the native subspecies these glands are columnar or club-shaped. A few more subtle characteristics can be found in the included key and may be useful for determining if plants are of possible hybrid origin.

In nature the native taxon seems to prefer moist alluvial soils as might be found in wet meadows, shrub swamps, and river flood plains. I have only observed the native taxon in a few places in NY and come across it most often in the Tug Hill region of NY. The introduced taxon seems to have a much wider ecological amplitude and can be found in a variety of open to partially-shaded habitats provided they are not excessively dry. It may also be found in mature woods but usually does not flower if it does not receive some sun.

It is not too late to identify these subspecies and since the glands of the petiole are pretty distinctive they can be determined even from fallen leaves. You will probably want to look at several leaves before making a determination. Based on experience, you may be disappointed to find what you have been sold as *V. trilobum* is actually typical *V. opulus* (the included image of the petiole glands of typical *V. opulus* are from plants purchased from a County Soil and Water District that shall remain nameless).

### Key to the subspecies of *Viburnum opulus*:

Petiole glands columnar or club-shaped, longer than wide, ± rounded at the apex; upper surface of leaf and leaf margin thinly strigose, lobes ± acuminate. ssp. *americanum*

Petiole glands disk-shaped or cup-shaped, wider than long, concave at the apex; upper surface of leaf and leaf margin mostly glabrous, lobes ± acute. ssp. *opulus*







Inflorescence of *Viburnum opulus* showing the enlarged sterile (outer) and fertile (inner) flowers.



Cup-shaped petiole glands of European highbush cranberry (*Viburnum opulus* ssp. *opulus*)



Club-shaped petiole glands of American highbush cranberry (*Viburnum opulus* ssp. *americanum*, syn. *V. trilobum*).



Leaf of *Viburnum opulus* ssp. *americanum*. Note how the apex of the lobes taper. The matte appearance is partially due to the presence of fine hairs on the leaf surface.



## Prominent Botanist and Educator Mike Kudish named New York's 2016 Native Plant Conservationist of the Year



Dan Spada, right, presenting Mike Kudish with the Plant Conservationist of the Year award. Photo by Steve Young.

The New York Flora Association (NYFA) held its annual meeting at the Maurice D. Hinchey Catskill Interpretive Center in Mt. Tremper, NY. One of the highlights of the day was the presentation of the Plant Conservationist of the Year award. This year's recipient was prominent botanist Mike Kudish. As author of *The Catskill Forest: A History*, the site seemed fitting to honor Kudish's years of dedication to understanding the flora of the region.

Longtime NYFA Board Member Dan Spada had the honor of presenting Kudish with the award. 'Through a long career as an educator at Paul Smith's College, Mike has excited many students to pursue a career in the sciences and especially botany. His dedication to knowing and getting to understand the plants, their communities and their history in the landscape is commendable and has served as a model for many of us,' said Spada. It should be noted that Spada, a well-known retired botanist from the NYS Adirondack Park Agency and current President of the Adirondack Research Consortium, was one such of those students himself.

Kudish has a B.S. in Biology from the City College of New York, an M.S. in Botany from Cornell University, and a Ph.D. in Plant Ecology from SUNY-ESF. His PhD dissertation on a 'Vegetational History of the Catskill High Peaks' began his life-long study of the region's plants. It seems Kudish just kept heading north in New York and helped shape the next generation of botanists during his 30+ years as a professor at Paul Smith's College from 1971-2005 teaching courses on dendrology, plant ecology, forest history and more. An accomplished writer as well, Kudish authored *Paul Smith's Flora*, *Paul Smiths Flora II*, *Adirondack Upland Flora*, *the Catskill Forest: A History*, and *Mountain Railroads of New York State: Where Did the Tracks Go?* He continues to pass on his amazing wealth of knowledge through lectures and field trips for numerous Adirondack and Catskill non-profit groups as well as with regular articles in *Kaatskill Life Magazine*.

Just this past spring, the Michael Kudish Natural History Preserve opened in Stamford, NY. The mission of this 101 acre preserve named in honor of Kudish is to conduct and distribute research, studies and analysis related to the natural history of the Catskill Mountains. You can learn more about the preserve at [www.mknhp.org](http://www.mknhp.org).





## Syracuse sedges and limestone ledges

by Scott Ward

When I registered for the annual sedge workshop of 2017, I could probably count on one hand the number of sedges I felt comfortable identifying and may have needed a third hand to count how many times I had heard “you should do Tony’s workshop”; and so, it was this uncomfortable ratio that solidified in my mind why this workshop was a necessity as a northeast botanist.

With hot spots of sedge diversity already planned out by Mike Hough and Ed Frantz, it was sure to be a fun and educational workshop to say the least. Thanks to Don Leopold and SUNY-ESF for kindly hosting our group and allowing us to use labs and microscopes.

The first day’s sedgeacious activities brought with it a broad mix of wetland sedge species in the Three Rivers WMA in Baldwinsville. We started out with some more common species including *Carex comosa*, *Carex vulpinoidea*, *Carex stipata*, *Carex scoparia*, and *Carex crinita* (with smooth basal sheaths vs. the rough upward prickles on the stem of *C. gynandra*). A neighboring property also within Three Rivers WMA would surprise the group with *Carex frankii* (S1 in New York), in addition to some other common wetland species. Often visited for their wildlife attractions, these WMA properties did not disappoint this group of plant people not looking at the sky for wildlife but on the ground for sedges.



*Carex cristatella* : a super clumped member of the Ovales section. All Ovales have TRUE STEMS.



*Carex frankii*: bracts much longer than inflorescence, perigynia obconic (cone with narrow ends inward).



*C. vulpinoidea* (sect. Multiflorae) on the left, *C. stipata* (sect. Vulpinae) on the right (note more visible sharply winged stem, although still compressible).

After a quick lunch break away from the rain, we ended our sedge-tastic day with a botanical stroll through the peatland boardwalk at Beaver Lake Nature Center. This would bring some much-appreciated supplemental information regarding peatland members on sight such as *C. canescens*, *C. seorsa*, and *C. diandra*.



After a late night of dissecting scopes and pizza, the group met once again the following morning to head back out into the field. This day would bring us into more upland habitats, with a focus on the woodland sedge groups.

Before heading out for the day, the group explored the green roof of ESF, where *Carex eburnea* (sect. *Albae*) seemed to be doing just fine. Fun fact: a “snap-crackle-pop” effect can be achieved by exposing this species’ perigynia to fire. We would be delving deep into the Laxiflorae, Careyanae, Ovaleae, Griseae, and Phaestoglochin on the second day with species like *Carex brevior*, *C. rosea*, *C. blanda*, *C. albursina*, and *C. hitchcockiana* abound, and even a brief cameo appearance by the calcareous-loving *C. jamesii*.



*Carex eburnea* (sect. *Albae*).

One species I found particularly interesting was Parasol sedge (*Carex umbellata*), with flowering culms low and hidden by leaf blades and eventually developing into elaisome-like perigynia. Elaisomes are fleshy appendages attached to seeds that attract ants and encourage biotic dispersal (myrmecochory).



James’ sedge (sect. *Phyllostachyae*), S2 in NY showed off its characteristic slender beaks in the lime-rich woods of Onondaga Valley Cemetery.



Parasol sedge (*Carex umbellata*), sect. *Acrocystis*.

Finishing things along a wet ROW adjacent to where Butternut creek met Route 20, we were able to see *Scirpus microcarpus* with its barber pole-like stem coloration (compared to *S. atrocinctus* with black banding on top), *Carex trichocarpa* with its characteristic red band and inconspicuous lower fertile stems, and others such as *C. lurida*, *C. hystericina*, and a personal favorite: *C. flava*. The group was able to snap a picture together before dissipating amidst a sudden downpour, taking with them both sedge-filled plant presses and minds.





Thanks again to Mike Hough, Ed Frantz, Don Leopold, SUNY-ESF, and also NYFA for continuing this special workshop each year.

All in all, a sedge-enthusiast would be hard pressed to find a better deal than two jam-packed days out in the field with Tony Reznicek. His easygoing personality and love for field botany is truly infectious, and his expertise cannot be understated. My recommendation: DO THIS WORKSHOP!



Left: *Carex flava*, looks most similar to *cryptolepis* and *viridula* (all sect. *Ceratocystis*), flip fertile stem upside down to look for distinct coppery brown pistillate scales.  
 Right: *Carex trichocarpa* (sect. *Carex*): local, colonial, tall with true stems, look for dark red band on smooth lower stem and down low for fertile stems.



Two members of the Lupulinae, on the left is *Carex lurida* and on the right is *Carex hystericina*. Notice no pedicel below the perigynia of *C. lurida*.





The group poses at a ROW along Butternut creek with pending thunderstorms on the horizon.



May you be as happy as Reznicek with sedge culms in hand.

### Carex species seen on this sedge-filled weekend:

Species	Section				
Carex alata	Ovales	Carex diandra	Heleoglochin	Carex laxiflora	Laxiflorae
Carex albursina	Laxiflorae	Carex digitalis	Careyanae	Carex lupulina	Lupulinae
Carex aquatilis	Phacocystis	Carex eburnea	Albae	Carex lurida	Lupulinae
Carex bebbii	Ovales	Carex flava	Ceratocystis	Carex projecta	Ovales
Carex blanda	Laxiflorae	Carex frankii	Squarrosae	Carex rosea	Phaestoglochin
Carex brevior	Ovales	Carex gracillima	Hymenochlaenae	Carex scoparia	Ovales
Carex canescens	Glareosae	Carex granularis	Granulares	Carex seorsa	Stellulatae
Carex careyana	Careyanae	Carex hitchcockiana	Griseae	Carex sparganioides	Phaestoglochin
Carex cephaloidea	Phaestoglochin	Carex hystericina	Vesicariae	Carex swanii	Porocystis
Carex cephalophora	Phaestoglochin	Carex interior	Stellulatae	Carex trichocarpa	Carex
Carex comosa	Vesicariae	Carex intumescens	Lupulinae	Carex trisperma	Glareosae
Carex crinita	Phacocystis	Carex jamesii	Phyllostachyae	Carex umbellata	Acrocystis
Carex cristatella	Ovales	Carex lacustris	Paludosae	Carex vulpinoidea	Multiflorae
		Carex lasiocarpa	Paludosae		





## Field Trip Report: *Plants Along the St. Lawrence, September 16, 2017*

by Steven Daniel

An enthusiastic group of botany buffs led by Anne Johnson and myself visited several sites along the St. Lawrence in what turned out to be a fabulous day full of botanical and other surprises.

In what may have been a NYFA first, Anne had arranged with Lee Harper, owner of a consulting company and research equipped boat, to transport the group to a couple of sites along the South Channel, a much more easy access than a land approach would have been. Being on the water was a delight on this beautiful, sunny fall day as we observed vegetation changes along the shoreline, as well as some interesting birds (including a sub-adult bald eagle), a large area of big bluestem (*Andropogon gerardii*), and the large Long Sault dam, where Lee told us that peregrine falcons nest. At the first stop we reviewed some woody plant identifications, including Bebb's willow (*Salix bebbiana*), and we puzzled over an oak, finally deciding it was probably a somewhat aberrant bur oak (*Quercus macrocarpa*).



Lee Harper and Kate Kruesi on the south shore of the South Channel. Photo by Konrad Kruesi.

Our next stop was at a somewhat open floodplain of what had been the Long Sault rapids of the St. Lawrence River until the massive Seaway Project dramatically changed the landscape in the 1950's. Nevertheless, the floodplain was still fairly open, with very calcareous soils. Highlights there included the state-listed rare lesser fringed gentian, *Gentianopsis virgata* and two species of *Gerardia* (*Agalinis paupercula* and *A. tenuifolia*). Another highlight were a few dozen flowering stems of the state-listed rare Great Plains ladies' tresses, *Spiranthes magnicamporum*, a species only discovered in New York in 2014 (see NYFA News, 2015, Vol 26, No.1 [here](#)). Other highlights at the site included slender panic grass (*Panicum flexile*), late flowering *Carex viridula*, and some flowering great blue lobelia (*Lobelia siphilitica*).





Some of the group resting on the boat after returning to the launch. Note power dam in the background. Photo by Konrad Kruesi.

Lee returned us to the dock by the power dam at Hawkins Point and after our picnic lunch we headed a short way down Robinson Bay Road to an open field comprised of dredge spoil from the digging of the St. Lawrence Seaway. There are many interesting plants here, including white goldenrod (*Solidago ptarmicoides*), greater fringed gentian (*Gentianopsis crinita*), heath aster (*Symphyotrichum ericoides*), Pringle's aster (*Symphyotrichum pilosum* var. *pringlei*) as well as a good deal more Great Plains ladies tresses. We observed dozens of painted lady butterflies nectaring primarily at the asters. It turns out we were witnessing the vanguard of one of the largest movements of these beautiful butterflies ever recorded. Many years there are few reports of painted ladies in the northeastern US or Canada, so our group was seeing the beginning of what was to be an incredible southward movement over the next couple of weeks, with reports of large numbers (sometimes large enough to be captured on radar), covering an enormous geographic area from the east coast to the Rockies.

We looked for a different *Spiranthes* orchid that Anne and I had found a couple of years ago and at the time identified it as Case's ladies tresses (*Spiranthes casei*). But we hoped to have another look, as we had found good *S. casei* earlier this summer and there were several characters that we noted that caused us to want to re-find and take a closer look at this particular orchid. After a bit of searching, one of our participants found a small group of four plants near to where we found it two years ago. More searching yielded a total of seven plants. We puzzled and puzzled over these species. Anne and I were certain it wasn't *casei*, but what was it - a hybrid, perhaps? I recalled reading that there was a *Spiranthes* in the mid-west that flowered very late, but knew nothing about it. I took a voucher specimen to deposit in a herbarium, and in the evening worked it out - it was *Spiranthes ovalis* - a new species for NY!

We continued to a site a few miles away, where there was a stunning display of Maximilian's sunflower (*Helianthus maximiliani*) where we took our group picture with the creative help of our youngest participant, Nick Filannino, a sophomore at St. Lawrence University and an avid aspiring botanist/naturalist who creatively wedged his smartphone amongst some tree branches for the group shot.

A few of us continued eastward along the St. Lawrence, making a couple of stops where we enjoyed the tiny leaves of the lycophyte hidden spikemoss (*Selaginella eclipses*) as well as the threatened meadow horsetail (*Equisetum pratense*). Also enjoyed were a couple of interesting adventive roadside weeds, including the rayless alkali aster (*Symphyotrichum ciliatum*) as well as the "white mist" along the roadside (scratch grass, *Muhlenbergia asperifolia*). The latter contrasted very artistically with its neighboring "red mist" (purple love grass, *Eragrostis spectabilis*). At this site we also found an uncommonly encountered grass, sand dropseed (*Sporobolus cryptandrus*). Finally we ended with a short stop where we found the





threatened marsh horsetail (*Equisetum palustre*) and could easily compare it to the common field horsetail (*Equisetum arvense*) which was growing nearby.

All in all, a fabulous day to be out looking at plants with a fun and interesting group of people.



We puzzle over a ladies'-tresses. Photo by Brian McAllister.



The group at Hopson's Bay Flats. Missing are Martha Grow and Brian McAllister. Photo by Nicholas Filannino.



The ladies'-tresses in question. Photo by Steven Daniel.



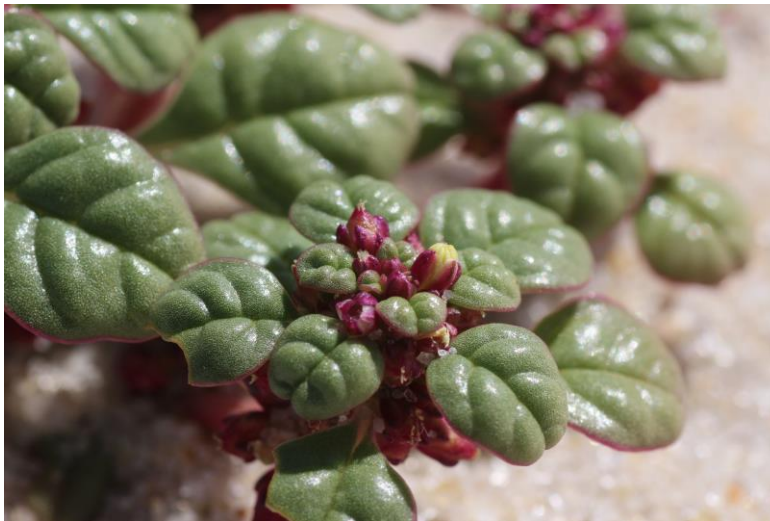
## Jones Beach Field Trip. September 9, 2017

By Steve Young, NY Natural Heritage Program.

A group of sixteen plant enthusiasts met at the West End parking field on a beautiful Saturday morning with a brisk wind from the north. From the parking lot the group was guided by Steve Young and Mike Feder west into the dunes and interdunal swales to see a variety of coastal dune shrubs, graminoids, and wildflowers. Out on the beach we were treated to the sight of two globally rare plants seabeach amaranth (*Amaranthus pumilus*) and seabeach knotweed (*Polygonum glaucum*). After lunch we headed out to the beach south of the building through a huge interdunal swale where we saw a large population of the state threatened American saltmarsh bulrush (*Bolboschoenus maritimus* ssp. *paludosus*). Thanks to all the participants in our joint field trip to Jones Beach with the Long Island Botanical Society! The following is a list of plants and fungi for Jones Beach compiled from lists by Andy Greller, Rich Kelly and the NY Natural Heritage Program.



Flower and leaves of *Polygonum glaucum*. Photo by Scott Ward.



Flower and leaves of *Amaranthus pumilus*. Photo by Scott Ward.







Here the group explores the small interdunal swale between the dunes. Photo by Steve Young.

Cumulative Flora of Jones Beach SP (Andrew Greller and Rich Kelly, January-September 2017) with additions from New York Natural Heritage Program 1985-2017 (denoted by an H) and the 9 September NYFA field trip:

**ALGAE**

- Chondrus crispus
- Fucus sp.
- Nostoc sp., a Cyanobacterium (Blue-Green)
- Ulva lactuca

**FUNGI**

- Astraeus hygrometricus, earth-star
- Black smut on Pinus thunbergii
- Calvatia cyathiformis, purple-spored puffball
- Chanterelle-like tiered mushroom on sand
- Gymnosporangium juniperi-virginianae
- Laccaria trullisata
- Lycoperdon sp.?
- Mycena sp.?

**PLANTS**

- Acer rubrum
- Agrostis cf. capillaris
- Ailanthus altissima
- Albizia julibrissin
- Amaranthus albus
- Amaranthus pumilus (9Sept17)
- Amaranthus retroflexus
- Ambrosia artemisiifolia
- Amelanchier cf. canadensis
- Ammophila breviligulata
- Aronia prunifolia (H)
- Artemisia caudata
- Artemisia stelleriana

- Artemisia vulgaris
- Asclepias syriaca
- Asclepias tuberosa
- Atriplex patula
- Baccharis halimifolia
- Betula papyrifera
- Bolboschoenus maritimus ssp. paludosus (H)
- Brassicaceae sp.
- Bromus tectorum?
- Cakile edentula var. edentula
- Calystegia sepium
- Carex hormathodes (H)
- Carex kobomugi (H)
- Celastrus orbiculatus
- Cenchrus longispinus
- Centaurea stoebe ssp. micranthos
- Chenopodium album
- Chloris verticillata
- Chondrilla juncea
- Cladium mariscoides (H)
- Clematis terniflora
- Convolvulus arvensis
- Conyza ramosissima?
- Corynephorus canescens
- Cuscuta gronovii var. latiflora (H)
- Cuscuta pentagona
- Cycloloma atriplicifolia
- Cyperus bipartitus
- Cyperus grayi

- Cyperus iria
- Cyperus lupulinus ssp. macilentus
- Cyperus odoratus (H)
- Cyperus polystachyos (H)
- Cyperus retrorsus (H)
- Datura stramonium
- Daucus carota
- Dichanthelium sp.
- Diplachne fusca ssp. fascicularis (H)
- Distichlis spicata
- Draba verna
- Echinochloa muricata
- Elaeagnus angustifolia (9Sept17)
- Elaeagnus umbellata
- Eleocharis parvula (H)
- Eleocharis uniglumis (H)
- Eragrostis spectabilis
- Erechtites hieraciifolia
- Erigeron annuus
- Erigeron canadensis var. canadensis
- Erigeron canadensis var. pusillus
- Erodium cicutarium
- Eupatorium hyssopifolium
- Euphorbia cyparissias
- Euphorbia maculata
- Euphorbia polygonifolia
- Euthamia caroliniana
- Euthamia graminifolia
- Festuca ovina
- Festuca rubra (9Sept17)



*Froelichia gracilis*  
*Hesperis matronalis*  
*Heterotheca subaxillaris*  
*Hibiscus moscheutos*  
*Hieracium scabrum*  
*Houstonia missillia*  
*Hudsonia tomentosa*  
*Hypericum mutilum* (H)  
*Hypericum perforatum*  
*Ilex opaca*  
*Ipomoea purpurea*  
*Iva frutescens*  
*Juncus articulatus* (H)  
*Juncus bufonius*  
*Juncus dudleyi*  
*Juncus gerardii* (H)  
*Juncus greenii* (H)  
*Juncus scirpoides* (H)  
*Juncus tenuis*?  
*Juniperus virginiana*  
*Krigia virginica*  
*Lactuca biennis*  
*Lactuca scariola*  
*Lamium amplexicaule*  
*Lechea maritima*  
*Lechea sp.*  
*Lepidium virginicum*  
*Limonium carolinianum*  
*Linaria vulgaris*  
*Lonicera japonica*  
*Lonicera morrowii*?  
*Ludwigia palustris* (H)  
*Lycopus virginicus* (H)  
*Malva neglecta*  
*Matricaria discoidea*  
*Medicago lupulina*  
*Melilotus albus*  
*Mollugo verticillata* (H)  
*Morella carolinensis*

*Morus alba*  
*Myosotis arvensis*?  
*Nipponanthemum nipponicum*  
*Nuttallanthus canadensis*  
*Nyssa sylvatica*  
*Oenothera biennis*  
*Oenothera oakesiana* (H)  
*Oenothera cf. parviflora*  
*Oenothera fruticosa*  
*Oenothera laciniata*  
*Ornithogalum umbellatum*  
*Oxalis dillenii*  
*Oxalis sp.*  
*Oxybasis glauca* (H)  
*Oxybasis rubra* (H)  
*Panicum amarum* (H)  
*Panicum virgatum*  
*Parthenocissus quinquefolia*  
*Persicaria hydropiperoides* (H)  
*Persicaria punctata*  
*Phragmites australis*  
*Physalis cf. virginiana*  
*Phytolacca americana*  
*Pinus nigra* (H)  
*Pinus rigida*  
*Pinus sylvestris* (H)  
*Pinus thunbergii*  
*Plantago arenaria*  
*Plantago aristata*  
*Plantago lanceolata*  
*Plantago pusilla*  
*Pluchea odorata*  
*Polygonum arenastrum*  
*Polygonum articulatum*  
*Polygonum aviculare*  
*Polygonum glaucum*  
*Polygonum ramosissimum* (H)  
*Populus alba*  
*Populus deltoides*

*Portulaca oleracea* (H)  
*Potentilla argentea*  
*Prunus maritima*  
*Prunus serotina* (H)  
*Pseudognaphalium obtusifolium*  
*Ptilimnium capillaceum*  
*Pyrus calleryana*  
*Raphanus raphanistrum*  
*Rhus copallinum*  
*Rhus glabra*  
*Rosa cf. virginiana*  
*Rosa multiflora*  
*Rosa rugosa*  
*Rubus allegheniensis* (H)  
*Rubus laciniatus*  
*Rumex acetosella ssp. pyrenaicus*  
*Rumex crispus*  
*Rumex fueginus* (H)  
*Sabatia stellaris* (H)  
*Salicornia depressa*  
*Salsola kali*  
*Schizachyrium scoparium*  
*Schoenoplectus pungens*  
*Securigera varia*  
*Sedum acre*  
*Senecio vulgaris*  
*Setaria pumila*  
*Setaria viridis*  
*Silene latifolia*  
*Solidago canadensis*  
*Solidago juncea*  
*Solidago sempervirens*  
*Spartina alterniflora* (H)  
*Spartina patens*  
*Spergularia marina*  
*Strophostyles helvola*  
*Suaeda calceoliformis*  
*Suaeda cf. maritima*  
*Suaeda linearis*  
*Symphotrichum subulatum* (H)  
*Teucrium canadense*  
*Toxicodendron radicans*  
*Tragopogon sp.*  
*Trapa natans* (fruit)  
*Trichostema dichotomum*  
*Trifolium arvense*  
*Trifolium dubium*  
*Trifolium repens*  
*Triplasis purpurea*  
*Verbascum blattaria*  
*Verbascum thapsus*  
*Verbena hastata*  
*Viburnum dentatum var. lucidulum* (H)  
*Xanthium strumarium var. canadense*  
*Yucca filamentosa*  
*Zostera marina*



The group looking out over the large interdunal swale. Photo by Steve Young.





## Warner Hill Outing, May 21, 2017

by Rich Ring

On May 21<sup>st</sup> seven plant enthusiasts met at Warner Hill in Washington County for the first NYFA outing of the spring. Much of this site has long been protected by The Nature Conservancy. The western side of the hill consists largely of cliffs, overlooking protected Schoolhouse along the East Bay of Lake Champlain. Owing to the state boundaries following the Bay's meanderings from south to north, it is one of the few places where one can stand on a promontory in New York and face *west*, into Vermont.. While doing so near the start of our hike, we were able to hear the cacklings of Common Gallinules breeding in the marshes far below. Warner Hill is also of note to geologists, famous for its Cambrian-Ordovician era limestone formations, rich in trilobites and other fossil fauna. However we kept our focus on the rich calciphile flora.

We spent a good deal of time at the start of the hike exploring rocky outcrops and small limy cliffs. There we found a trio of smaller *Asplenium* species: *A. ruta-muraria*, *A. trichomanes* var. *quadri-valens*, and *A. rhizophyllum*. We did not come upon any *Carex backii* or *Carex formosa*, both rare calciphiles previously recorded from the site, although the habitat seemed to be right. In the forest above the cliffs we encountered a diverse set of herbs typical of rich forests, along with some more unusual woody species like *Quercus muhlenbergii* and *Staphylea trifolia*.



*Asplenium ruta-muraria*, photo David Werier.

Near the end of our outing we “lost” David Werier, who went on a successful search to find some *Packera* specimens along the top of the cliffs. These were plants that had previously been determined as *P. anonyma*. He is unclear at present if these specimens represent *P. anonyma* or the morphologically closely related *P. paupercula*. Some of the plants seemed to fit *P. paupercula* while others *P. anonyma*. He is currently



investigating this situation further, based on specimens from Warner Hill and nearby sites.

In all, we recorded 108 vascular plant species in the relatively small area of rocky woods and outcrops we explored, moving at typical NYFA-outing snail's pace. The site bears more exploration in other seasons, and illustrates the benefits of conservation efforts in this unique area along the edge of Lake Champlain.



*Packera* habitat near the top of west-facing dolomite cliffs at Warner Hill, Whitehall, NY. Photo David Werier.

Vascular Plants observed on Warner Hill NYFA outing, Washington County, 5/21/2017. List compiled by Kyle Webster.

Acer nigrum	Arisaema triphyllum	Carex deweyana
Acer rubrum	Asclepias quadrifolia	Carex eburnea
Acer saccharum	Asplenium rhizophyllum	Carex laxiflora
Acer spicatum	Asplenium ruta-muraria	Carex peckii
Actea rubra	Asplenium trichomanes var. quadrivalens	Carex pedunculata
Adiantum pedatum	Athyrium filix-femina	Carex pensylvanica
Amphicarpaea bracteata	Betula nigra	Carex platyphylla
Anemone virginiana	Betula papyrifera	Carex rosea
Aquilegia canadensis	Botrychium virginianum	Carya glabra
Arabidopsis lyrata	Campanula rotundifolia	Carya ovata
Aralia nudicaulis	Carex blanda	Caulophyllum thalictroides
Aralia racemosa	Carex communis	Ceanothus americanus





Clematis occidentalis var. occidentalis	Juniperus communis	Ranunculus allegheniensis
Comandra umbellata	Maianthemum canadense	Rhamnus cathartica
Cornus alternifolia	Maianthemum racemosum	Rosa carolina
Cornus racemosa	Micranthes virginiensis	Rubus occidentalis
Cornus rugosa	Mitella diphylla	Rubus odoratus
Corylus cornuta	Onoclea sensibilis	Sambucus canadensis
Cystopteris tenuis	Oryzopsis asperifolia	Sanguinaria canadensis
Cystopteris bulbifera	Osmorhiza claytonii	Schizachne purpurascens
Dryopteris marginalis	Ostrya virginiana	Sanicula marilandica
Erythronium americanum	Parietaria judaica	Solidago caesia
Fagus grandifolia	Parthenocissus quinquefolia	Staphylea trifolia
Fragaria vesca ssp. americana	Patis racemosa	Thuja occidentalis
Fraxnus americana	Phryma leptostachya	Tiarella cordifolia
Galium aparine	Pinus strobus	Tilia americana
Galium circaezans	Poa compressa	Toxicodendron radicans
Galium lanceolatum	Polygala paucifolia	Trillium erectum
Galium triflorum	Polygonatum pubescens	Tsuga canadensis
Geranium robertianum	Polypodium virginianum	Tussilago farfara
Geum fragarioides	Polystichum acrostichoides	Ulmus americana
Hackelia virginiana	Populus tremuloides	Uvularia grandiflora
Hepatica acutiloba	Prunus serotina	Viola canadensis var. canadensis
Hepatica americana	Quercus alba	Viola pubescens var. pubescens
Hieracium sp.	Quercus muehlenbergii	Viola rostrata
Juglans cinerea	Ranunculus abortivus	Vitis riparius



Flowers of long spur violet (*Viola rostrata*), left and wild ginger (*Asarum canadense*), right.



**New York Flora Association Annual Meeting August 20, 2017**  
**The Catskill Center, Mount Tremper, New York**

Article and photos by Steve Young, NY Natural Heritage Program

This year's annual meeting was held in the Catskills for the first time - at the beautiful new [Catskill Interpretive Center](#). The attendees assembled outside at the picnic tables before a morning walk led by Michael Kudish across the road down to the Esopus Creek floodplain. The group returned for a lunch provided by NYFA at the picnic area followed by a business meeting. The 2017 Plant Conservationist Award was presented to Dr. Michael Kudish by Dan Spada for his work in plant conservation in the Catskills and Adirondacks. An additional tribute by Anne Johnson was read by Anna Stalter. Molly Marquand presented the board member nominations and welcomed new board member Daniel Atha who talked about his career at NY Botanical Garden. After working in other countries, he decided he needed to know more about the plants of NY and has concentrated on the flora of NYC. Ed Fuchs from Buffalo was nominated and voted in as a new board member. Four returning board members were also approved. Joe McMullen gave the treasurer's report which was approved by voice vote. The business part of the meeting was brought to a close and Steve Young conducted the annual botanical quiz which was quite challenging this year. After the quiz the participants walked the woodland trail at the facility and the trail to the top of the ridge. A list of the plants we saw was compiled by Mike Hough and presented below.

Acer pensylvanicum	Carex virescens	Elaeagnus umbellata	Hydrophyllum virginianum
Acer platanoides	Carpinus caroliniana	Eleusine indica	Hypericum perforatum
Acer rubrum	Carya ovata	Elymus repens	Impatiens capensis
Acer saccharum	Catalpa sp.	Elymus virginicus	Impatiens pallida
Achillea millefolium	Celastrus orbiculatus	Epifagus virginiana	Juncus tenuis
Actaea pachypoda	Cephalanthus occidentalis	Epilobium sp.	Juniperus virginiana
Aegopodium podagraria	Cerastium fontanum	Epipactis helleborine	Kalmia latifolia
Ageratina altissima	Chamaecrista fasciculata	Erechtites hieracifolia	Lactuca sp.
Alliaria petiolata	Chelidonium majus	Erigeron annuus	Laportea canadensis
Amaranthus hybridus	Chenopodium album	Erigeron canadensis	Leersia oryzoides
Ambrosia artemisiifolia	Chenopodium sp.	Euphorbia maculata	Leersia virginica
Amelanchier	Circaea canadensis	Euphorbia nutans	Leucanthemum vulgare
arborea/laevis	Clematis virginiana	Eurybia divaricata	Ligustrum obtusifolium
Amphicarpaea bracteata	Clinopodium vulgare	Euthamia graminifolia	Linaria vulgaris
Aralia nudicaulis	Collinsonia canadensis	Fagus grandifolia	Lindera benzoin
Arisaema triphyllum	Cornus amomum	Fallopia cilioidis	Liriodendron tulipifera
Artemisia vulgaris	Cornus florida	Fraxinus americana	Lobelia cardinalis
Asclepias syriaca	Cornus sericea	Fraxinus pennsylvanica	Lobelia inflata
Barbarea vulgaris	Cuscuta sp.	Galeopsis tetrahit	Lonicera morrowii
Berberis thunbergii	Cyperus esculentus	Galium album	Lotus corniculatus
Betula lenta	Daucus carota	Gaultheria procumbens	Ludwigia palustris
Betula papyrifera	Dennstaedtia punctilobula	Geranium robertianum	Luzula multiflora
Bidens frondosa	Desmodium rotundifolium	Geranium sibiricum	Lysimachia borealis
Boehmeria cylindrica	Dianthus armeria	Geum canadense	Lysimachia ciliata
Calystegia sepium	Dichanthelium latifolium	Hackelia virginiana	Lysimachia quadrifolia
Carex appalachica	Diervilla lonicera	Hamamelis virginiana	Lythrum salicaria
Carex hirsutella	Digitaria sp.	Hedeoma pulegioides	Maianthemum canadense
Carex lurida	Dryopteris carthusiana	Hesperis matronalis	Maianthemum racemosum
Carex pedunculata	Dryopteris intermedia	Hieracium paniculatum	Matteuccia struthiopteris
Carex platyphylla	Dryopteris marginalis	Houstonia caerulea	Medicago lupulina
Carex radiata	Echinochloa crus-galli	Humulus japonicus	Melampyrum lineare
Carex swanii	Echinocystis lobata	Huperzia lucidula	Melilotus officinalis





Microstegium vimineum  
 Mimulus ringens  
 Monarda didyma  
 Monarda fistulosa  
 Monotropa uniflora  
 Myosoton aquaticum  
 Oenothera biennis  
 Onoclea sensibilis  
 Origanum vulgare  
 Osmorhiza claytonii  
 Osmunda claytoniana  
 Oxalis montana  
 Oxalis stricta  
 Panicum capillare  
 Parthenocissus quinquefolia  
 Penstemon digitalis  
 Persicaria extremiorientalis  
 Persicaria hydropiper  
 Persicaria lapathifolia  
 Persicaria maculosa  
 Persicaria pennsylvanica  
 Persicaria sagittata  
 Persicaria virginiana  
 Phegopteris hexagonoptera  
 Phytolacca americana  
 Pilea pumila  
 Pinus strobus  
 Plantago lanceolata  
 Plantago major  
 Platanus occidentalis  
 Poa compressa  
 Polygonatum pubescens  
 Polygonum aviculare  
 Polypodium virginianum  
 Polystichum acrostichoides  
 Populus deltoides  
 Populus grandidentata  
 Populus tremuloides  
 Potentilla simplex  
 Prenanthes altissima  
 Prunella vulgaris  
 Prunus serotina  
 Prunus virginiana  
 Quercus alba  
 Quercus montana  
 Quercus rubra  
 Ranunculus recurvatus  
 Reynoutria japonica  
 Rhus typhina  
 Robinia pseudoacacia  
 Rosa multiflora  
 Rubus allegheniensis  
 Rubus occidentalis  
 Rubus odoratus  
 Rudbeckia hirta

Rumex crispus  
 Rumex obtusifolius  
 Salix bebbiana  
 Saponaria officinalis  
 Sassafras albidum  
 Setaria sp.  
 Silene vulgaris  
 Solanum nigrum/ptycanthum  
 Solidago altissima  
 Solidago bicolor  
 Solidago caesia  
 Solidago canadensis  
 Solidago flexicaulis  
 Solidago gigantea  
 Solidago juncea  
 Solidago rugosa

Spiraea sp.  
 Symphyotrichum cordifolium  
 Symphyotrichum lateriflorum  
 Syringa reticulata  
 Tanacetum vulgare  
 Taraxacum officinale  
 Teucrium canadense  
 Thelypteris noveboracensis  
 Thymus pulegioides  
 Tilia americana  
 Toxicodendron radicans  
 Trifolium campestre/aureum  
 Trifolium hybridum  
 Trifolium pratense  
 Trifolium repens  
 Tsuga canadensis

Ulmus americana  
 Uvularia sessilifolia  
 Vaccinium angustifolium  
 Vaccinium pallidum  
 Verbascum thapsus  
 Verbena urticifolia  
 Verbesina alternifolia  
 Veronica officinalis  
 Viburnum acerifolium  
 Viburnum dentatum  
 Viburnum opulus var.  
 americanum  
 Vitis aestivalis var. bicolor  
 Vitis riparia  
 Zizia aurea



The group descends from the ridge trail at the end of the afternoon hike.



The participants gather in front of the Catskill Center for the afternoon walk.





## Chenango Valley State Park Field Trip- August 26, 2017

by Connie Tedesco

On August 26, 2017 over 20 botany enthusiasts met at Chenango Valley State Park in Broome County for a joint field trip with NYFA and the Leatherstocking Botanical Society. The trip was led by Dr. Julian Shepherd, with support from his colleagues at SUNY Binghamton, Drs. John Titus and Dick Andrus. Chenango Valley State Park, 1,137 acres located in Chenango Forks NY, is a glacial dump area with plains and numerous kettle holes now occupied by two lakes with acidic boggy mats, an alkaline swamp, and several fens, both open and shrubby. The Park has been protected for close to 100 years, with mature oak forests on a sandy, gravelly substrate. Several of the group ventured on to the bog mat while others enjoyed the flora around Lily Lake. Observations included *Isotria verticillata* and six species of *Vaccinium*. After lunch we explored Chenango Lake and the Chenango River bottomlands, noting populations of *Corallorhiza odontorhiza* and *Arisaema dracontium*. Special thanks to Michael Hough for recording over 250 native species and to the SUNY Binghamton Biology professors whose discussions about the local flora fascinated so many new participants.



Exploring the bog on Lily Lake.



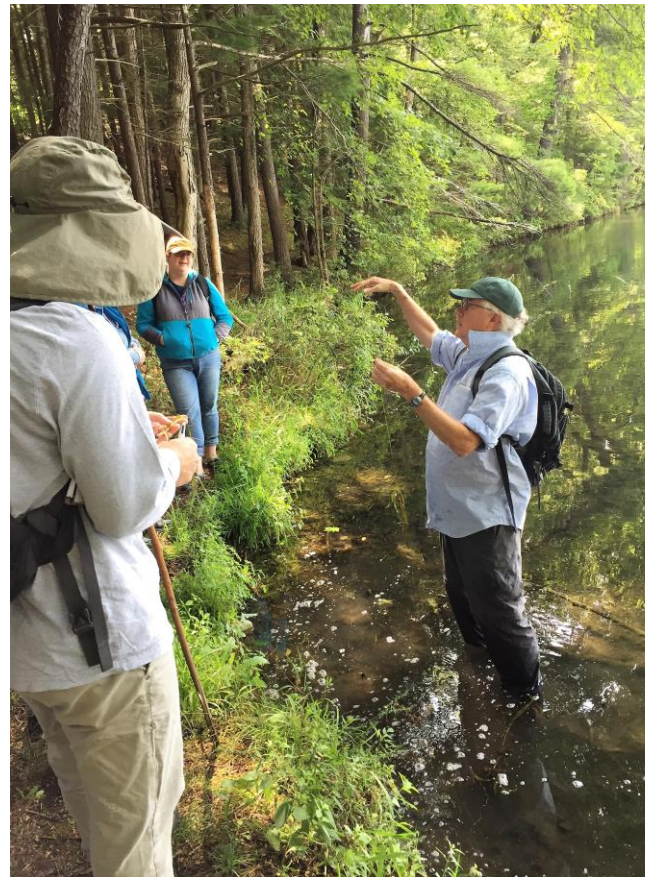


List of plants recorded on the field trip, plus some photographed on prior trips by Michael Hough and Ken Hull:

<i>Acalypha rhomboidea</i>	<i>Celtis occidentalis</i>	<i>Euthamia graminifolia</i>	<i>Najas flexilis</i>
<i>Acer nigrum</i>	<i>Cephalanthus occidentalis</i>	<i>Eutrochium maculatum</i>	<i>Nuphar variegata</i>
<i>Acer pensylvanicum</i>	<i>Chamaedaphne calyculata</i>	<i>Fagus grandifolia</i>	<i>Nymphaea odorata</i>
<i>Acer rubrum</i>	<i>Chara</i> sp.	<i>Fallopia</i> sp.	<i>Onoclea sensibilis</i>
<i>Acer saccharinum</i>	<i>Cicuta bulbifera</i>	<i>Fraxinus americana</i>	<i>Osmunda claytoniana</i>
<i>Acer saccharum</i>	<i>Cinna arundinacea</i>	<i>Galium circaezans</i>	<i>Osmundastrum cinnamomeum</i>
<i>Actaea pachypoda</i>	<i>Circaea canadensis</i>	<i>Galium triflorum</i>	<i>Ostrya virginiana</i>
<i>Actaea racemosa</i>	<i>Cirsium muticum</i>	<i>Geranium maculatum</i>	<i>Parthenocissus quinquefolia</i>
<i>Adiantum pedatum</i>	<i>Clematis virginiana</i>	<i>Geranium sibericum</i>	<i>Persicaria amphibia</i>
<i>Ageratina altissima</i>	<i>Clinopodium vulgare</i>	<i>Geum fragarioides</i>	<i>Persicaria hydropiper</i>
<i>Agrimonia gryposepala</i>	<i>Collinsonia canadensis</i>	<i>Goodyera pubescens</i>	<i>Persicaria hydropiperoides</i>
<i>Alnus incana</i> ssp. <i>rugosa</i>	<i>Comptonia peregrina</i>	<i>Hackelia virginiana</i>	<i>Persicaria pensylvanica</i>
<i>Ambrosia artemisiifolia</i>	<i>Coptis trifolia</i>	<i>Hamamelis virginiana</i>	<i>Persicaria sagittata</i>
<i>Amelanchier arborea/laevis</i>	<i>Corallorhiza odontorhiza</i>	<i>Helianthus divaricatus</i>	<i>Persicaria virginiana</i>
<i>Amphicarpaea bracteata</i>	<i>Cornus alternifolia</i>	<i>Hieracium gronovii</i>	<i>Phryma leptostachya</i>
<i>Andropogon gerardii</i>	<i>Cornus amomum</i>	<i>Hieracium venosum</i>	<i>Pilea pumila</i>
<i>Anemone canadensis</i>	<i>Cornus racemosa</i>	<i>Hylodesmum glutinosum</i>	<i>Pinus resinosa</i>
<i>Anemone quinquefolia</i>	<i>Corylus americana</i>	<i>Hylodesmum nudiflorum</i>	<i>Platanus occidentalis</i>
<i>Antennaria plantaginifolia</i>	<i>Corylus cornuta</i>	<i>Hypericum punctatum</i>	<i>Podophyllum peltatum</i>
<i>Apios americana</i>	<i>Cyperus</i> sp.	<i>Ilex verticillata</i>	<i>Polanisia dodecandra</i>
<i>Apocynum androsaemifolium</i>	<i>Cypripedium acaule</i>	<i>Impatiens capensis</i>	<i>Polygala paucifolia</i>
<i>Apocynum cannabinum</i>	<i>Danthonia spicata</i>	<i>Impatiens pallida</i>	<i>Polypodium virginianum</i>
<i>Aralia nudicaulis</i>	<i>Decodon verticillatus</i>	<i>Iris versicolor</i>	<i>Polystichum acrostichoides</i>
<i>Arisaema dracontium</i>	<i>Dendrolycopodium</i>	<i>Isotria verticillata</i>	<i>Populus grandidentata</i>
<i>Arisaema triphyllum</i>	obscurem	<i>Juglans cinerea</i>	<i>Populus tremuloides</i>
<i>Aronia melanocarpa</i>	<i>Dennstaedtia punctilobula</i>	<i>Juncus effusus</i>	<i>Potamogeton amplifolius</i>
<i>Asarum canadense</i>	<i>Desmodium paniculatum</i>	<i>Juncus tenuis</i>	<i>Potamogeton richardsonii</i>
<i>Asclepias exaltata</i>	<i>Dichanthelium</i>	<i>Laportea canadensis</i>	<i>Potamogeton zosteriformis</i>
<i>Asclepias incarnata</i>	<i>clandestinum</i>	<i>Leersia oryzoides</i>	<i>Prunus serotina</i>
<i>Asplenium platyneuron</i>	<i>Dichanthelium latifolium</i>	<i>Leersia virginica</i>	<i>Pteridium aquilinum</i>
<i>Athyrium filix-femina</i>	<i>Diervilla lonicera</i>	<i>Lemna minor</i>	<i>Quercus alba</i>
<i>Aureolaria pedicularia</i>	<i>Diphasiastrum digitatum</i>	<i>Lespedeza hirta</i>	<i>Quercus coccinea</i>
<i>Betula alleghaniensis</i>	<i>Doellingeria umbellata</i>	<i>Lespedeza intermedia</i>	<i>Quercus ilicifolia</i>
<i>Betula lenta</i>	<i>Drosera rotundifolia</i>	<i>Lindera benzoin</i>	<i>Quercus prinoides</i>
<i>Bidens frondosa</i>	<i>Dryopteris carthusiana</i>	<i>Lobelia inflata</i>	<i>Quercus rubra</i>
<i>Bidens tripartita</i> ssp. <i>comosa</i>	<i>Dryopteris cristata</i>	<i>Lobelia siphilitica</i>	<i>Quercus velutina</i>
<i>Boehmeria cylindrica</i>	<i>Dryopteris intermedia</i>	<i>Lonicera dioica</i>	<i>Ranunculus recurvatus</i>
<i>Brachyelytrum aristosum</i>	<i>Dryopteris marginalis</i>	<i>Lycopus uniflorus</i>	<i>Rhizomnium punctatum</i>
<i>Brasenia schreberi</i>	<i>Dulichium arundinaceum</i>	<i>Lyonia ligustrina</i>	<i>Rhododendron prinophyllum</i>
<i>Bromus ciliatus</i>	<i>Echinochloa</i> sp.	<i>Lysimachia borealis</i>	<i>Rhynchospora alba</i>
<i>Carex aquatilis</i>	<i>Echinocystis lobata</i>	<i>Lysimachia ciliata</i>	<i>Ribes cynosbati</i>
<i>Carex lasiocarpa</i>	<i>Eleocharis acicularis</i>	<i>Lysimachia quadrifolia</i>	<i>Rosa palustris</i>
<i>Carex lurida</i>	<i>Elymus riparius</i>	<i>Lysimachia terrestris</i>	<i>Rosa virginiana</i>
<i>Carex pensylvanica</i>	<i>Elymus virginicus</i>	<i>Maianthemum racemosum</i>	<i>Rubus hispidus</i>
<i>Carex rosea</i>	<i>Epifagus virginiana</i>	<i>Matteuccia struthiopteris</i>	<i>Rubus occidentalis</i>
<i>Carex stricta</i>	<i>Epigaea repens</i>	<i>Mentha arvensis</i>	<i>Rubus repens</i>
<i>Carex trichocarpa</i>	<i>Equisetum arvense</i>	<i>Menyanthes trifoliata</i>	<i>Rudbeckia laciniata</i>
<i>Carya cordiformis</i>	<i>Equisetum hyemale</i>	<i>Mitchella repens</i>	<i>Sagittaria latifolia</i>
<i>Carya glabra/ovalis</i>	<i>Erechtites hieracifolia</i>	<i>Monotropa uniflora</i>	<i>Sambucus canadensis</i>
<i>Castanea dentata</i>	<i>Erigeron canadensis</i>	<i>Muhlenbergia</i> sp.	<i>Sanicula canadensis</i>
<i>Caulophyllum</i> sp.	<i>Eupatorium perfoliatum</i>	<i>Myosotis laxa</i>	<i>Sarracenia purpurea</i>
<i>Celastrus scandens?</i>	<i>Eurybia divaricata</i>	<i>Nabalus trifoliatus</i>	<i>Sassafras albidum</i>



- |                                |                         |
|--------------------------------|-------------------------|
| Schoenoplectus tabernaemontani | Turritis glabra         |
| Scirpus atrovirens             | Typha latifolia         |
| Scirpus cyperinus              | Ulmus americana         |
| Scrophularia marilandica       | Ulmus rubra             |
| Scutellaria galericulata       | Utricularia intermedia  |
| Scutellaria lateriflora        | Uvularia perfoliata     |
| Sicyos angulatus               | Uvularia sessilifolia   |
| Silene stellata                | Vaccinium angustifolium |
| Smilax herbacea                | Vaccinium corymbosum    |
| Solanum carolinense            | Vaccinium macrocarpon   |
| Solidago bicolor               | Vaccinium oxycoccos     |
| Solidago caesia                | Vaccinium pallidum      |
| Solidago gigantea              | Vaccinium stamineum     |
| Solidago juncea                | Vallisneria americana   |
| Solidago rugosa                | Verbena hastata         |
| Sparganium eurycarpum          | Verbena urticifolia     |
| Spiraea alba                   | Veronica americana      |
| Symphotrichum cordifolium      | Viburnum acerifolium    |
| Symphotrichum lateriflorum     | Viburnum nudum var.     |
| Symphotrichum prenanthoides    | cassinoides             |
| Symplocarpus foetidus          | Vitis riparia           |
| Teucrium canadense             | Zannichellia palustris  |
| Thalictrum dioicum             |                         |
| Thelypteris noveboracensis     | From 2015 and 2016:     |
| Thelypteris palustris          | Aureolaria virginica    |
| Tilia americana                | Botrychium oneidense    |
| Toxicodendron radicans         | Cystopteris tenuis      |
| Triadenum fraseri              | Mimulus ringens         |
| Triosteum aurantiacum          | Orobanche uniflora      |
| Tsuga canadensis               | Sericocarpus asteroides |



Dr. John Titus discussing wetland species.



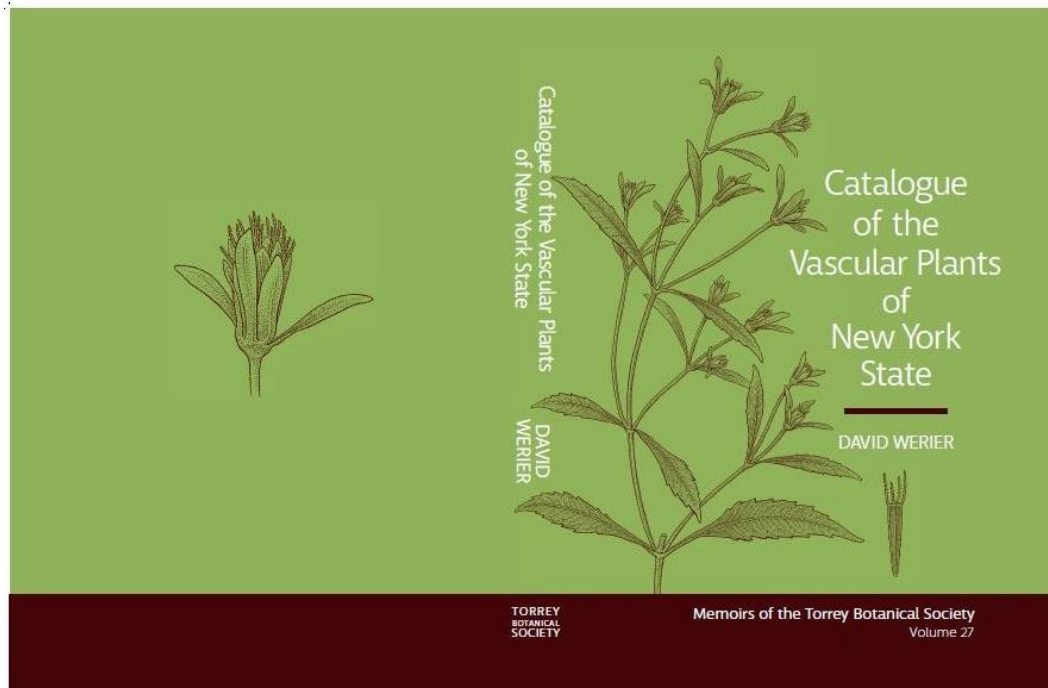
One of the many painted lady's passing through St. Lawrence County this past September. Photo by Natalie Aldrich.





## Monumental Upcoming New York Flora Checklist

A new publication entitled Catalogue of the Vascular Plants of New York State by David Werier will be published as the latest volume in the Memoirs of the Torrey Botanical Society series. The anticipated publication date is late 2017.



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