



Arisaema



Michigan Botanical Club State Newsletter

Volume 21, Issue 1 • April 2015

Corresponding Secretary's Report

Welcome to Spring! Each Michigan winter brings its challenges. The cold seemed unbearable, but the plants in my yard seem to have survived the cold and the deer – for which I am very grateful.

This issue of the *Arisaema* brings all the information you need to know about the upcoming Spring Foray in the Saginaw Bay Region of Michigan. The field trips and speakers all sound very interesting! I have all my field trips figured out, but I won't register until I receive my copy in the U.S. Mail so we are all on an equal footing. Again this year, please fill out one registration form PER PERSON.

Please enjoy the drawings by Artemis Eyster on page 24.

And my usual reminder: let me know if you want to change the way you receive the *Arisaema* — U.S. Mail, email, or both.

Sincerely,

Mary Danforth
Corresponding Secretary, Michigan Botanical Club

President's Report

I wish to congratulate the White Pine Chapter on their successful 2014 Fall meeting at Grand Valley State University in Allendale, MI. The speaker was Lee Mueller, a Certified Arborist and Registered Forester. He is currently the Program Director of the Urban Forest Project. The Grand Rapids Urban Forest Project is an initiative of Friends of Grand Rapids Parks in Partnership with the City of Grand Rapids to engage the whole community in planting and growing larger, healthier urban forests. See article on page 14.

Mike Huft, editor, has produced a double issue of *The Michigan Botanist* Vol. 52 Nos. 1-2, January-June, 2013. The next issue is nearly ready to be typeset and there is enough material for six double issues for 2015 which would bring the journal up to date by 2016. See article on page 20.

Sheila Bourgoin (from the HVC Chapter) has volunteered to be content manager for the MBC web site and in this role would be able to accept information from chapter members and post to the site. See article on page 23.

I look forward to meeting all of you at future club events. Please feel free to contact me at hfcckelly@gmail.com or (734) 635-0952 with any comments or suggestions.

Sincerely,

Judy Kelly
President, Michigan Botanical Club

Table of Contents

Corresponding Secretary's Report	1	MBC State Board Meeting Minutes (January 2015)	18
President's Report	1	Report on <i>The Michigan Botanist</i>	20
Spring Foray: May 22-25	2	Distinguished Service Award – Todd Barkman	21
Michigan Botanical Foundation Report	8	Spring Foray & Fall Meeting Schedule	21
MBC Fall Meeting: October 17, 2015	9	Update on Winter Wildflower project	22
MBC Financial Activity Summary	10	Isobel Dickinson Memorial Award	23
2014 Directory	12	In Memorium: Annette Van der Schalie	23
MBC State Fall Meeting Report	14	Sheila Bourgoin: Content Manager for the MBC Website	23
MBC State Board Meeting Minutes (October 2014)	16	Artist's Notebook: drawings by Artemis Eyster	24

Spring Foray 2015: May 22-25

Welcome to the Michigan Botanical Club Spring Foray 2015 to Saginaw Bay

Hosted by the Southeastern Chapter

Four Points Sheraton-Saginaw
4960 Towne Centre Rd., Saginaw, MI 48604
(I-675, exit 6)
(989) 790-5050

<http://www.fourpointssaginaw.com/>

Many Michigan residents (particularly those in SE Michigan) tend to think of the Saginaw Bay region as an area to drive through to get to somewhere more interesting. We hope to dispel that thinking with the 2015 Foray! Join your fellow plant enthusiasts from around the state in exploring this often ignored area. Yes, much of this watershed is agricultural land, but great natural areas can still be found. We have attempted to offer a selection of field trips that highlight the various habitats of the region, from Great Lakes marshes to lakeplain prairie, from floodplain forest to raised bog, and from dune and swale to horticultural garden. We'll focus on rare plants and weeds, natives and aliens, "higher" and "lower" plants, and hopefully see a few birds, herps, insects and mammals as we discover the botanical riches of the greater Saginaw Bay region together.

General Information

Check-in and pick up of registration materials will be at the table in the lobby of the Four Points Sheraton - Saginaw. Your name tag and field trip assignments will be given to you when you check-in. Hotel check-in begins at 3 pm, check-out time is noon. Additional local tourist and visitor information will be provided by the Great Lakes Bay Regional Convention & Visitors Bureau.

Lodging and Meals

Four Points Sheraton is a full service hotel with free high speed internet, a 24 hour fitness center, indoor/outdoor pools, whirlpool, sauna, and a restaurant and bar onsite. All guest rooms are smoke free. **You must make your own room reservations** by calling the Four Points Sheraton - Saginaw at (989)790-5050 or online at <https://www.starwoodmeeting.com/Book/MBCSpringForay>. Room availability at the special group rate of \$89 is not guaranteed for reservations made after **May 11, 2015**.

Breakfast and dinner will be served buffet style in the Zen Ballroom with multiple options and vegetarian choices available. If you have other dietary restrictions, please indicate this on the registration form and we will work with the hotel

chef to accommodate you. Box lunches with a variety of sandwich choices and a vegetarian option will be available for pick-up at breakfast. Please take them with you on all day trips. Coolers will be provided or you may bring your own. For half day trips, you will be returning to the hotel and can eat your box lunch in your room or a common area.

Directions to Four Points Sheraton-Saginaw



From the South

- Take Interstate 75 North to Interstate 675.
- Proceed on I-675 and take Exit 6.
- Turn left onto Tittabawassee Road.
- Turn left on Town Centre Road.

From the West

- Take Highway 46 East to N. Center Rd..
- Turn left on N. Center Rd..
- Turn right onto Tittabawassee Road.
- Turn right on Town Centre Road.

From the North

- Take Interstate 75 South to Interstate 675.
- From I-675 take Exit 6.
- Turn right onto Tittabawassee Road.
- Turn left on Town Centre Road.

Spring Foray 2015 (Continued)

Distance to Saginaw Sheraton from:

Lansing	90 miles
Ann Arbor	90 miles
Detroit	107 miles
Grand Rapids	116 miles
Kalamazoo	170 miles

Nearby Campgrounds:

Bay City State Rec Area
Bay City, Michigan
(989) 684-3020

Valley Plaza Resort RV Park
Midland, Michigan
(800) 262-0006

What to Bring

Be prepared for a variety of weather conditions and for walking in a range of habitats, some of which will be wet! Wear good walking boots or shoes and you may also need rubber boots for some trips. Other recommended items to bring include: a hat, sunscreen, insect repellent, raingear, camera, binoculars, hand lens, field notebook, reference books, medications and a refillable water bottle. Plastic water bottles will not be provided. You may wish to bring a small cooler and/or daypack for your lunch and other essentials on the all day field trips.

Joan Robb Student Scholarships

Each chapter is responsible for arranging the hotel reservations and transportation for their own scholarship students. Each student should fill out and send in their own reservation form with their field trip selections as soon as possible, and each chapter should pay the required amount for registration and meals to the host chapter. The MBF will provide one student scholarship per chapter. Any student wishing to attend that does **not** have a scholarship may pay the reduced price for students with the proper ID. Chapters wishing to find roommates for their students may contact the Registrar.

Registrar

Emily Nietering
231 Nash St.
Dearborn, MI 48124
313-278-9269
knietering@sbcglobal.net

The registration form (see insert) accompanied by a check must be received by Friday **May 8, 2015**. **Each individual attending must complete a separate form.** Make copies of the registration form or print additional forms from the MBC

website (www.michbotclub.org) No refunds will be made after **May 15**. Make checks payable to “**Michigan Botanical Club – SEC.**”

Questions? Please call or e-mail the registrar. Also visit the MBC website www.michbotclub.org for updates and additional Foray information.

Native Plant Sale

Many of our members garden with native plants and often wish to share their extra plants with others. If you have some extra native plants in your garden, pot them up with a label to identify them and bring them along for our plant sale. For a nominal charge, you can take home a new plant or two from the Foray!

Field Trips

Minden Bog (Saturday ALL DAY – Leader: Dr. Tony Reznicek)

(Sunday ALL DAY – Leader: Bev Walters)

This huge bog, west of the village of Palms, is a landscape scale system of ca. 7 – 8 square miles; rare in southern Michigan. Despite being somewhat disturbed, it is the only place in the southern Lower Peninsula where one can get the “feel” of a giant boreal bog. Bogs are acidic peatlands dominated by heaths (members of the plant family Ericaceae) and Sphagnum mosses. Peatlands this large are common in boreal Canada, but rare in Michigan. In theory, bogs are raised above the land surface (domes) and thus insulated from ground water influence, deriving their water from rain. Most bogs in Michigan are at least partly influenced by ground water, however, and are technically poor fens. But some parts of the Minden Bog are beyond the reach of groundwater influence, making it a true raised or domed bog. Like all true bogs, dominant vascular plants in the Minden Bog are shrubs in the Heath Family. This includes, of course, Leatherleaf, (*Chamaedaphne calyculata*), several *Vaccinium* species, Labrador-tea (*Rhododendron groenlandicum*, formerly *Ledum*) and, rare in southern Michigan, Sheep-laurel (*Kalmia angustifolia*). Several other Heath species are less common, including Bog Laurel (*Kalmia polifolia*) and Bog Rosemary (*Andromeda glaucophylla*). Other notable shrubs include Bog Birch (*Betula pumila*), Michigan Holly (*Ilex verticillata*) and Chokeberry (*Aronia prunifolia*). The bog is largely open, but there are scattered trees of Tamarack and White Birch, these denser towards the bog margins, as well as the introduced European White Birch. A notable feature is the southernmost native occurrence of Jack Pine in the eastern part of the state, which gives a distinctive look to the bog landscape. Naturally,

(Continued on page 4)

Spring Foray 2015 (Continued)

Schedule for Spring Foray 2015

Note: All Field Trips assemble in Parking Lot. Please meet 15 minutes prior to departure.

Friday, May 22

4:00 – 8:00 pm	Check-in at the Four Points Sheraton – Saginaw Registration in the hotel lobby Dinner on your own (several restaurants are nearby)
7:30 pm	Welcome and Orientation in the Zen Ballroom
8:00 pm	Program “ <i>An Introduction to the Saginaw Bay Region</i> ” by Kyle Bagnall

Saturday, May 23

6:30 – 8:00 am	Breakfast in the Zen Ballroom
7:30 am	Pick up lunches
8:00 am	Field trip departure for <u>all-day field trips</u> in hotel parking lot
8:30 am	Field trip departure for <u>morning field trips</u> in hotel parking lot
12:00 – 1:00 pm	Lunch in field or at hotel
1:00 pm	Field trip departure for <u>afternoon field trips</u> in hotel parking lot
*5:00 - 6:00 pm	Michigan Botanical Club State Board Meeting in Harmony Room
6:00 pm	Dinner served in Zen Ballroom
7:30 pm	Announcements, Recognition of Student Scholarship recipients, etc.
8:00 pm	Program “ <i>Moving Beyond a Shotgun Approach to Address Invasive Plants</i> ” by Phyllis Higman

(Continued from page 3)

there are also lots of smaller plants of boreal character including Cotton grasses (*Eriophorum* species), Bristly sarsaparilla (*Aralia hispida*), and False mayflower (*Maianthemum trifolium*, formerly *Smilacina*), among others. Dr. Tony Reznicek and Bev Walters, both of the University of Michigan Herbarium, will be our trip leaders.

Walking will be relatively easy and level – over a distance of a little less than a mile – but a bit wet, and occasionally (when off trail) slow due to shrubs.

http://www.huronecologic.com/thumb_habitats092004.htm

Pine Haven Recreation Area (Saturday ALL DAY – Leader: Glenn Vande Water)

Located approximately 10 miles Northwest of Midland, Michigan, Pine Haven Recreation Area supports some of most diverse terrain in Midland County. Bordered by the Salt River to the South and US-10 to the North, this 325 acre site harbors a variety of habitats and associated vascular plant species. Possibly a more appropriate name for this preserve would be

Fern Haven, as it harbors a rich fern and fern allies assemblage, with over 30 species. Some of the most interesting flora to be observed occurs within the terraced floodplain system of the Salt River and along Mud Creek that bisects the preserve.

We will spend the day traversing the many habitats of Pine Haven with the intent of observing as much of the floral diversity as possible. Within the floodplain system we will hopefully find in good condition populations of Muskingum sedge (*Carex muskingumensis*) and obovate beak grain grass (*Diarrhena obovata*), two species at their northern most range in Michigan. Ferns to be looked for in the floodplain include the narrow-leaved spleenwort (*Homalosorus pycnocarpus*), Goldie's fern (*Dryopteris goldiana*), and bulblet fern (*Cystopteris bulbifera*). The upland plateau north of the Salt River supports numerous habitats including upland and lowland hardwoods, pine, and alder thicket. We will explore these areas in search of numerous ferns such as spinulose, intermediate, Clinton's and crested wood fern (*Dryopteris carthusiana*, *D. intermedia*, *D. clintoniana*, and *D. cristata*, respectively), and the hybrid wood

Spring Foray 2015 (Continued)

Schedule for Spring Foray (Continued)

Note: All Field Trips assemble in Parking Lot. Please meet 15 minutes prior to departure.

Sunday, May 24

6:30 - 8:00 am	Breakfast in the Zen Ballroom
7:30 am	Pick up lunches
8:00 am	Field trip departure for <u>all-day field trips</u> in hotel parking lot
8:30 am	Field trip departure for <u>morning field trips</u> in hotel parking lot
12:00 – 1:00 pm	Lunch in field or at hotel
1:00 pm	Field trip departure for <u>afternoon field trips</u> in hotel parking lot
*5:00 - 6:00 pm	Continuation of Michigan Botanical Club Board Meeting in Harmony Room
6:00 pm	Dinner served in Zen Ballroom
7:30 pm	Announcements, Awards, etc.
8:00 pm	Program “ <i>Lakeplain Prairie Management at Saginaw Wetlands</i> ” by Andrew Bacon

Monday, May 25

All Field Trips assemble in Parking Lot. Please meet 15 minutes prior to departure.

6:30-8:00 am	Breakfast in the Zen Ballroom
9:00 am	Departure for field trips (later to allow for hotel check-out)
12:00	Check-out time

*Members of the MBC State Board take note of meeting times and location

fern (*Dryopteris x triploidea*). Hopefully the upland pine area will afford glimpses of ebony spleenwort (*Asplenium platyneuron*), daisy-leaved moonwort (*Botrychium matricariifolium*), cut-leaved and leather grape fern (*Sceptridium dissectum* and *S. multifidum*, respectively), and northern adder’s-tongue (*Ophioglossum pusillum*). Though there are a lot of ferns to observe, we will certainly make this a general field botany excursion spending time looking at an assortment of evolutionarily higher plants.

If time and access permit the group may cross US-10, to allow people to experience a historic borrow pit area. Sand was extracted from this site for fill material during the construction of US-10. This wet sand and open water area harbors some very interesting plant species. Interesting fern allies that historically occurred in this area include bog clubmoss (*Lycopodiella inundata*) and the running ground-pines (*Lycopodium lagopus*). The wet sands harbor numerous Cyperaceous plants, and assuming that portions of the pit are flooded at the time of our visit, we may be able to find a few remnant aquatics. Glenn Vande Water is an environmental consultant specializing in

conducting biological/ecological field assessments; with particular emphasis on threatened and endangered species. Glenn lived immediately adjacent to the Pine Haven Recreation Area for a number of years while employed at Dow Corning Corporation, spending many many hours exploring and cataloging the flora of the numerous habitats present.

To explore the breadth of the preserve will require a considerable amount of relatively easy walking. You may wish to carry a small rucksack or fanny-pack supplied with water, bug repellent (floodplains are great sites to botanize but they are also great sites for mosquitos), and possibly some snacks or your lunch, as we may be at the far back of the preserve when lunch time arrives. Long-sleeved shirt, long pants, and boots are suggested for this trip.

Port Crescent State Park (Saturday ALL DAY – Leader: Phyllis Higman)

Join Phyllis Higman, Senior Conservation Scientist at the Michigan Natural Features Inventory, in searching for Michigan’s southernmost Pitcher’s thistle occurrence at Port

(Continued on page 6)

Spring Foray 2015 (Continued)

(Continued from page 5)

Crescent State Park, located near the tip of the Thumb, south of Port Austin. We'll explore the ancient dune and swale complex and picnic on the beach.

We'll cover lots of ground, so come prepared for a long day in the field. Note: Michigan Recreation Passport required for entry to State Parks. If your car license plate does not have the designation, you must purchase a Recreation Passport window sticker for \$11/year. There are no longer daily passes for Michigan residents.

<http://www.michigandnr.com/parksandtrails/details.aspx?id=486&type=SPRK>

Chippewa Nature Center (Saturday MORNING - Leader Jeanne Henderson) (Monday MORNING – self-guided)

Join Interpretive Naturalist Jeanne Henderson for a leisurely walk looking for spring wildflowers at Chippewa Nature Center in Midland. We will start at the Wildflower Walkway garden, visit the butterfly and rain gardens next to the Visitor Center entrance, and walk a mile (round trip) to the Beech Maple Woods or the Meadow Mouse woods to find a wide variety of spring species. Afterwards, you may want to visit our store or relax in the River Overlook. Chippewa Nature Center is a 1200 acre haven of woodlands, wetlands, rivers and upland fields, with over 15 miles of hiking trails. You are invited to explore the property on your own on Monday morning; the Visitor's Center will be open noon - 5:00 pm on Monday. Free admission.

Come dressed for the outdoors.

<http://chippewanaturecenter.org/>

Dow Gardens (Saturday AFTERNOON - Leader: Dow Gardens Docent) (Monday MORNING – self-guided)

The Trustees of the Herbert H. and Grace A. Dow Foundation along with the staff of Dow Gardens welcome you to 110 acres of Midland's beauty and heritage. Five distinct areas: Stream Walk, the Estate Garden, the Color Garden, Pineside, and the Children's Garden offer unique landscapes and observation opportunities. The Gardens were initially developed by Herbert H. Dow on the estate he shared with his wife, Grace, and their family. Famed architect, Alden B. Dow, son of Herbert and Grace, added many architectural elements to the Gardens. He believed, as did his father, in a philosophy that the entire beauty of the Garden should never be revealed in a single glance. That philosophy is still carried on in the Gardens today. A one hour guided tour of the Gardens will be available on Saturday afternoon. The trip on Monday morning will be self-guided. Trails in the Gardens are mostly paved, with some mulched pathways. There is a \$5 admission fee per person. Admission

to Dow Gardens also includes Whiting Forest, a 40 acre native plant forest with 2 miles of trails, located just ¼ mile north of Dow Gardens. Dow Gardens are open daily 9:00 am to 8:30 pm, including Memorial Day.

www.dowgardens.org

Tobico Marsh (Sunday MORNING and AFTERNOON – Leader: Lisa Appel)

We will explore Tobico Marsh, a part of the Bay City State Recreation Area just north of Bay City. It is one of the largest, remaining open-water coastal marshes on Saginaw Bay. Cattail marsh, shrub areas, and upland hardwood forest are found along a 3.5 mile loop. The trail traverses ancient shorelines of Lake Huron, with sandy dune ridges that were once at the water's edge but left dry as the Bay receded over thousands of years. The trail includes a boardwalk and a 40-foot observation tower that provides spectacular views of the marsh. We will stop at the Saginaw Bay Visitor Center to learn more about the history of the area through displays and dioramas. Lisa Appel is Watershed Education Coordinator for the Cranbrook Institute of Science.

The terrain is flat and easy walking, but expect a good pace to cover the full loop (3.5 miles) with stops along the way to enjoy botanical highlights. Please plan for muddy trails with appropriate footwear.

http://www.michigan.gov/dnr/0,4570,7-153-31154_31260-54037--,00.html

<http://www.michigandnr.com/publications/pdfs/wildlife/viewingguide/slp/118tobico/index.htm>

Mosses and Liverworts (Sunday MORNING and AFTERNOON - Leaders: Janet Traub and Jim Toppin)

Why are these small plants so interesting? First land plants (400 million years+), found nearly everywhere (sun, shade, bogs, barrens, underwater, trees, rocks, logs, soil, roofs, lawns, sidewalks...), both gametophytes and sporophytes readily visible, thriving year-round, rich diversity. We'll explore a wide variety of small habitats and enjoy a look at worlds that mostly go unnoticed. Ohio Nature Conservancy volunteers Jim and Janet are bryophyte enthusiasts and want you to be too!

Tittabawassee River Forests (Sunday MORNING - Leader: Suzan Campbell)

Since 1996, The Little Forks Conservancy has partnered with private landowners in or near the Tittabawassee River Watershed to protect and preserve the unique natural features of this region. Join us to explore the floodplain forest along the river, where species such as state threatened beak grass (*Diarrhena obovata*), and state special concern broad-leaved puccoon (*Lithospermum latifolium*) are found. We will also

Spring Foray 2015 (Continued)

pass through upland oak-hickory forest with scattered islands of hemlock and beech. The Michigan Natural Features Inventory completed an ecological assessment of several parcels in the area in 2014, but it would be nice to add additional species to their plant inventory. Suzan Campbell is a former MNFI employee.

If there have been recent rains, portions of the trip may be very wet, including short stretches of shin-deep standing water. WEAR KNEE-HIGH RUBBER BOOTS (or old sneakers and make sure to have dry shoes/socks/pants for your afternoon field trip).

<http://www.littleforks.org/>

Saginaw Wetlands (Sunday AFTERNOON - Leader: Andy Bacon)

Lakeplain prairies are limited in distribution to old Great Lakes glacial lakebeds and Michigan was one of the most important spots in the world for this unique habitat. The remnant prairies that occur at Saginaw Wetlands Nature Sanctuary rank as some of the best in the state. Join us as we tour this unique location and view the multitude of uncommon and rare species found there and discuss the ongoing management efforts to conserve the natural communities within. Andy Bacon is the Stewardship Coordinator for the Michigan Nature Association, owners of the Saginaw Wetlands preserve.

Long pants and knee boots are recommended.

<https://www.michigannature.org/>

Shiawassee National Wildlife Refuge (Monday MORNING – Leader: Steven Kahl)

Refuge Manager Steven Kahl will take us on a tour of lakeplain prairie restoration sites at the Refuge. Along the trail we will see wet and mesic lakeplain prairie species such as prairie cordgrass, ironweed, swamp milkweed, Ohio goldenrod, and brown-eyed susan. The trail will be very flat, open and easy.

http://www.fws.gov/refuge/Shiawassee/wildlife_and_habitat/index.html

There are many additional locations including preserves, parks and trails you may want to visit in the Saginaw Bay region before or after the Foray. These include:

Saginaw Basin Land Conservancy

<http://www.sblc-mi.org/nature-preserves.html>

Saginaw Basin Birding Trail

<http://www.saginawbaybirding.org/birding-trail.html>

MBC Spring Foray 2015 Evening Lectures

Friday evening: “**An Introduction to the Saginaw Bay Region**” by Kyle Bagnall

People have thrived in the rich environments of the Saginaw Bay region for thousands of years. Join **Kyle Bagnall**, Manager of Historical Programs at Midland's Chippewa Nature Center, in an exploration of how people have used this region's natural resources through time. We'll look at the lives of Native Americans and fur traders, explorers and surveyors, lumbermen, farmers and more in an overview of a unique area of our state.

Saturday evening: “**Moving Beyond a Shotgun Approach to Address Invasive Plants**” by Phyllis Higman

Phyllis Higman, Senior Conservation Scientist of the Michigan Natural Features Inventory, will discuss how invasive plants are affecting natural systems in Michigan, provide a framework for thinking about the challenge, highlight exciting work going on statewide, and test your identification skills for species of concern that have been here a long time and some that you may not know about.

Sunday evening: “**Lakeplain Prairie Management at Saginaw Wetlands**” by Andrew Bacon.

Andrew Bacon, Stewardship Coordinator of the Michigan Nature Association, will discuss how MNA manages this high quality natural area in the face of daunting challenges from Phragmites, encroaching woody growth, and other threats.

The Freshwater Forum at Cranbrook Institute of Science and The Nature Conservancy partnered to host the “What’s So Great about the Great Lakes?” lecture series at Cranbrook Institute of Science. This series featured Nature Conservancy scientists who cast new light on topics that affect everyone who lives in the Great Lakes’ unique ecosystem.

Since we were unable to schedule a speaker from The Nature Conservancy for our Foray, you may want to view the archived lectures of the Freshwater Forum online. Each lecture lasts about an hour, and two of them are particularly relevant to Saginaw Bay:

Is More Better? - Striking a Balance Between Farming & Freshwater - March 20, 2014 - Hear Saginaw Bay Project Director Mary Fales explain how science and academia are working with farmers to protect our freshwater resources as agricultural production increases and intensifies.

Centers of Commerce, Culture and Conservation - Jan. 24, 2013 - Director of Science Dr. Scott Sowa discusses how the bays of the Great Lakes region have influenced our past and hold keys to our future. Included are Green Bay, Saginaw Bay and Maumee Bay.

Find them at <http://science.cranbrook.edu/find-program-event/lectures/lecture-archive>.

Michigan Botanical Foundation Report

It has come to the attention of the Michigan Botanical Foundation (MBF) that many members of the Michigan Botanical Club (MBC) are either unaware of, or unclear as to, the relationship between the club and the foundation. In the early 1990s several members of the Michigan Botanical Club, under the leadership of the late Dr. Elwood “Woody” Ehrle, began to pursue the formation of an organization, separate from the club, which could perform botanically related functions prohibited by the club’s 501(c)(4) status. To that end, the Michigan Botanical Foundation was born and in September of 1992 the foundation was incorporated with the State of Michigan. The foundation is a 501(c)(3) organization whose purpose is to receive and administer funds for the support of Michigan botanical research, educational publications, and related activities that enhance the knowledge and preservation of Michigan’s flora.

Therefore, the Michigan Botanical Foundation is a separate organization from the Michigan Botanical Club; the foundation has its own Articles of Incorporation, Bylaws, board of directors, and files its own tax returns with the IRS and Annual Report with the State of Michigan. Through the years there has been a continued relationship between the club and the foundation fostered by our shared interests in the preservation of Michigan’s flora and the desire to support botanical education. The foundation has received a large percentage, but not all, of its assets from individual MBC members and we are grateful to those members for their support. In an effort to maintain our relationship with MBC, the foundation’s bylaws indicate that members of our Board of Directors must be members of the Michigan Botanical Club. Additionally, the foundation has chosen to make this report annually so that all MBC members will be aware of the grants we awarded during the previous calendar year (please see below the “Grants Awarded in 2014” and “Featured 2014 Grant Recipient”). If you are interested in applying for a grant, you can obtain a copy of our “Grant Guidelines” by contacting me at the address given below.

The Dickinson Award, made in memory of Isobel Dickinson, is an annual award made in recognition of the best student-authored paper in *The Michigan Botanist*. This award speaks to the relationship between MBC and MBF. The foundation looks annually to members of the Michigan Botanical Club for a recommendation of the best student-authored paper published in the club’s journal. The Michigan Botanical Foundation thanks the committee members for their work on the Dickinson Award: The committee members read and critiqued several papers and then made their recommendation to the foundation which we gladly accepted.

The Foundation is committed to protecting and using the Foundation’s funds in accordance with our stated purpose. We work closely with our financial planner to make sound

investments and carefully consider all grant applications for compliance with our stated purpose. We ask that you consider making a financial contribution to the Michigan Botanical Foundation. Your donation can be sent to our treasurer, Bob Sabine, at the following address:

Mr. Robert Sabine
Treasurer, Michigan Botanical Foundation
703 Lake Ave.
Grand Haven, MI 49417-1715

MBF trustees are elected to two-year terms and then elected to officer positions on a yearly basis. The MBF trustees, their current elected positions, and terms of service are as follows:

Pam Laureto	President	2014 – 2016
Emily Nietering	Vice President	2013 – 2015
Becky Csia	Secretary	2014 – 2016
Bob Sabine	Treasurer	2013 – 2015
Bev Walters		2013 – 2015

If you are interested in serving on the MBF board of trustees, please let me know. Terms run from July 1 to June 30. We will be electing three trustees and voting on the 2015 – 2016 slate of officers at our May meeting.

Respectfully submitted,

Pamela J. Laureto, PhD
President, Michigan Botanical Foundation
365 Rosewood SE
East Grand Rapids, MI 49506-1731

Ph: 616-450-1759

Email: pl Laureto@grcc.edu

Grants Awarded in 2014

MBF 2014-01: \$1500.00 to Pierce Cedar Creek Institute to re-treat 20 of their ash trees with Tree Age pesticide. Tree Age pesticide is an effective treatment against the Emerald Ash Borer. Pierce Cedar Creek Institute is our “Featured Grant Recipient” (please see below).

MBF 2014-02: \$1500.00 to Elizabeth St. Pierre. Dr. St. Pierre discovered a new population of the state endangered *Prosartes hookeri*, a rare shade tolerant disjunct of north-western North America that persists within intact forests in Michigan’s Houghton, Ontonagon, and Baraga Counties. Dr. St. Pierre’s grant provides funding for continued documentation of *P. hookeri* locations of occurrence and also the

Michigan Botanical Foundation Report (Continued)

initiation of a monitoring program aimed at preserving the species.

MBF 2014-03: \$1500.00 to Camp Newaygo for the purpose of add to its existing Wetland Trail Boardwalk. The boardwalk will allow a greater number of children and families the opportunity to experience a quaking bog and its unique plant life. This grant was approved by the board pending our receipt of their DEQ permit authorizing the work.

MBF 2014-04: \$1821.00 for MBC Joan Robb Student Foray Awards, additional sponsored students to the foray, and student travel allowances. The Huron Valley Chapter, White Pine Chapter, and Special Members group each applied for a Joan Robb Award. In addition to the Joan Robb sponsored students, the Huron Valley and White Pine chapters each individually sponsored and funded a second student to the Foray. Each of these chapters also applied to MBF and was awarded grant money to fund additional students. The Huron Valley chapter received a grant to fund a third student and the White Pine chapter a grant to fund a third and fourth student to the 2014 MBC foray.

MBF 2014-05: \$250 Dickinson Award. The Dickinson Award is made annually in recognition of the best student-authored paper in *The Michigan Botanist*. This year's award was shared by Kelsey Huisman and Alex Graeff for their 2012 article entitled "Hybridization Dynamics of Invasive Cattail (Typhaceae) Stands at Pierce Cedar Creek Institute: A Molecular Analysis".

MBF 2013: \$300.00 to HVC (Irene Eiseman) for the best student authored botanical projects presented at the Southeast Michigan Science Fair. This is a portion of a five-year grant received by HVC to support students interested in botany.

MBF Featured Grant Recipient

In 2011, and then again in 2014, **Pierce Cedar Creek Institute** was awarded a Michigan Botanical Foundation grant to help preserve their old-growth ash trees from

effects of the Emerald Ash Borer beetle. The grants allowed treatment of 20 of the Institute's ash trees with Tree



An ash tree treated in 2011 and 2014 with Tree-Age pesticide to protect against the Emerald Ash Borer.

-Age pesticide, an effective treatment against the Emerald Ash Borer. According to the Institute's report to MBF, the 20 trees that were treated in 2011 are showing little to no signs of stress from the Emerald Ash Borer beetles and those are the only ash trees that remain healthy and viable on the Institute's property. They report that "many of the untreated ash trees in close proximity to those treated ash trees have been severely affected and are no longer standing." The treated ash trees are

located along the most heavily traveled trails at the Institute so that they are easily visible for educational purposes. Each of the treated trees is marked; the blue dot represents the 2011 treatment and the green dot the 2014 treatment (see photo above). According to the Institute's 2014 report to MBF, "The distinct markings provide opportunities to educate Institute guests about the importance of native ash trees and their protection against Emerald Ash Borers....During the time of treatment, signs were posted at informational kiosks along the Institute's trail system to educate guests about the Ash Tree Preservation Project and the impact that Emerald Ash Borers are having on native ash trees." The signs also gave MBF recognition for their financial support.

MBC Fall Meeting 2015

Save the Date! Saturday, October 17, 2015 will be the Michigan Botanical Club State Fall Meeting, hosted by the State Board. It will be held at Matthaei Botanical Gardens, Ann Arbor, MI

- The Board meeting will be held 11:30am – 1:30pm in the Auditorium

- The General meeting with speaker will start at 2pm in the Auditorium. Bob Grese, the Director of Matthaei Botanical Gardens, will speak on "Great Lakes Garden and the Role of Botanical Gardens in Native Plant Education."
- The Walk at the gardens will start at 3:30 pm outside

Note in advance: There is a charge for parking at Matthaei Botanical Gardens for non-members. If you have a membership at another Botanical Gardens, the parking fee may be waived.

Revised Corrected Michigan Botanical Club Summary Statement January - December 2014

Inflows				
	Membership Dues			
	Huron Valley (80 paid members)	2014 Dues		\$ 560.00
	Southeast (34 paid members)	2014 Dues		\$ 238.00
	Southwest (56 members)	2014 Dues		\$ 392.00
	White Pine (60 paid members)	2014 Dues		\$ 420.00
	Total of Chapter Dues	2014 Dues		\$ 1,610.00
	State Members (Non-affiliated)	2014 Dues		\$ 1,995.00
	Total Membership Dues			\$ 3,605.00
	Collected for MBF YTD (sent in with state dues)			\$ 390.00
	YTD Interest Earned			\$ 315.77
	2014 MBC Summer Foray Income	See Foray Income Sheet		\$ 25,495.00
	Hanes Trust (MB Business Manager Stipend)			
Total Inflows				\$ 29,805.77
Outflows				
	Arisaema Printing & Postage	Spring 2014 Issue		\$ 720.94
	Arisaema Printing & Postage	Fall 2014 Issue		\$ 843.37
	Award, Distinguished Service	Fall 2014 Todd Barkman		\$ 128.47
	State of MI 12 Non-Profit Registration Fees			\$ 20.00
	Web Site	MBC Website Update		
	Office Expenses, Postage, Labels, Checks			\$ 6.93
	Square Space (domain hosting 2012-13	Annual Fee for website hosting		
	Paid to MBF (donations with membership dues)			\$ 425.00
	Michigan Botanist Subscriptions (Special	v.51:4 : 85 items@ \$3 each		\$ 255.00
	Michigan Botanist Subscriptions (Special Members)			
	Michigan Botanist Business Manager Stipend: 2013 & 14			\$ 2,000.00
	Michigan Botanist MBC Underwriting: 2014			
	2014 MBC Summer Foray Expenses	See Foray Expense Sheet		\$ 20,680.71
	Michigan Environmental Council.	Membership		\$ 100.00
	Stewardship Network	Membership/Table at progr.		\$ 100.00
	MBC Board Evaluation - NEW - Board 360			
Total Outflows				\$ 25,280.42

Michigan Botanical Club Summary Statement (Continued)

Balance Sheet			
	Opening Balance as of January 1, 2014		\$ 64,243.63
	Gain (Loss)		\$ 4,525.35
	Ending Balance		\$ 68,768.98
2014 Bank Account Balances as of Dec. 31. 2014			
	Checking		\$ 7,644.94
	Savings		\$ 112.47
	TIMM		\$ 9,842.50
	CD Investment (Matures April 25, 2015)		\$ 51,169.07
	Value of Smith portion of CD Invst. (81.2	\$ 41,554.40	
	Value of MBC portion of CD Invst. (18.7	\$ 9,614.67	
Total in the bank			\$ 68,768.98
Difference Between Spread Sheet, Quicken, & Latest Bank Statement			\$ -

The Michigan Botanical Club account ended FY 2014 with a net gain of \$4,525.35. The Hanes Fund provided funding to the 2014 Foray to reduce the cost to participants. After deducting expenses, it had a remaining balance of \$431.29 which will be passed along to the Southeast Chapter in March 2015 to help underwrite their 2015 Foray.

On October 20, 2014 I requested \$2,000 from the Hanes Fund to pay for the Botanist Business Manager expenses. Those funds should arrive in February 2015.

Finally, in April 2015 the Certificate of Deposit (CD) comprised of funds from the MBC and Smith Fund will mature. The Board will need to decide if they should continue to keep them combined, split the funds into two separate CD's, or expend the Smith funds to republish the Michigan Wild Flowers Volume and put the MBC balance into a new CD.

2014 MBC Financial Statement Summary:

Balance January 1 2014:	\$64,243.63
Income:	\$29,805.77
Total Funds Available:	\$94,049.40
Expenditures:	(\$25,280.42)
December 31, 2014 Balance:	\$68,768.98
Increase/(Decrease):	\$ 4,525.35

Respectfully submitted,

Robert G. Kelly

Michigan Botanical Club State Treasurer

2015 Directory

Officers

Judy Kelly <i>President</i>	HVC	hfcckelly@gmail.com	734-635-0952 (C)	18863 Lakewood Cir. Lake Ann, MI 49650
Garrett Crow <i>Vice President</i>	SWC	garrett.crow42@gmail.com	616-826-2096 (C)	4938 Maltese Ct. NE Belmont, MI 49306
Jim Hewitt <i>Recording Secretary</i>	Special Members	tz4ggm@aol.com	517-337-8409 (H)	2728 Del Mar Dr. Okemos, MI 48864
Bob Kelly <i>Treasurer</i>	HVC	rgk@umich.edu	734-635-0562 (C)	18863 Lakewood Circle Lake Ann, MI 49650
Mary Danforth <i>Corresponding Secretary</i>	HVC	m19danforth44@gmail.com	734-649-4849 (C)	4273 Eastgate Drive Ann Arbor, MI 48103
Pamela Laureto <i>Immediate Past President</i>	WPC	plaureto@grcc.edu	616-454-4328 (H) 616-234-3896 (O) 616-450-1759 (C)	365 Rosewood SE East Grand Rapids, MI 49506

Directors At Large on the MBC Board

Alice Ward <i>2013-2015</i>	SEC	aehward@comcast.net	248-673-1183 (H)	1330 Linville Dr. Waterford, MI 48328
Becky Csia <i>2013-2015</i>	SWC	beckycsia@chartermi.net	269-353-3522 (H)	2831 N. 2nd Street Kalamazoo, MI 49009
Dave Chambers <i>2013-2015</i>	WPC	davesuec@charter.net	231-652-6146 (H)	102 State St. Newaygo, MI 49337
Beverly Walters <i>2013-2015</i>	HVC	bev2walters@yahoo.com	734-358-2946	3437 Charing Cross Ann Arbor, MI 48108
Richard Fowler <i>2014-2016</i>	SEC	rl.fowler@att.net	248-828-2952	2045 McIntosh Drive Troy, MI 48098
Ken Kirton <i>2014-2016</i>	SWC	ktkirton@aol.com	269-552-4180 (H)	121 Woodwind Circle Kalamazoo, MI 49006-4164
Craig Elston <i>2014-2016</i>	WPC	wildflower1000@ameritech.net	616-822-4303 (C)	3436 Port Sheldon St. Hudsonville, MI 49426-9004
Lynn Kirkpatrick <i>2014-2016</i>	HVC	kirklynn60@gmail.com	248-596-1918 (H)	1062 Elmsmere Drive Northville, MI 48167
Sarah Nooden <i>2015-2017</i>	HVC	snooden@umich.edu	734-663-5667 (H)	2148 E. Delhi Road Ann Arbor, MI 48103
Ruth Hart <i>2015-2017</i>	SEC	hartrh2004@yahoo.com	313-849-2844 (H)	3431 Wesson St. Detroit, MI 48210
Wayne Roussel <i>2015-2017</i>	SWC	rousselw@outlook.com	269-624-6647 (H)	31264 93rd Avenue Lawton, MI 49065
Arlene Obetts <i>2015-2017</i>	WPC	aobetts@yahoo.com	616-874-8874	8270 Myers Lake Ave. NE Rockford, MI 49341-9314

2015 Directory

Chapter Presidents—Also Board Members

Tony Reznicek	HVC	reznicek@umich.edu	734-996-0692 (H) 734-764-5544 (O)	U of M Herbarium 3600 Varsity Dr., Ste. 112 Ann Arbor, MI 48109
Emily Nietering	SEC	knietering@sbcglobal.net	313-278-9269 (H) 313-300-0491 (C)	231 Nash Street Dearborn, MI 48124
Tyler Bassett	SWC	keepitsimple7@yahoo.com	269-383-2569 (H) 269-580-4766 (C)	2436 Woodward Avenue Kalamazoo, MI 49004
Dorothy Sibley	WPC	dbsibley@mail.riverview.net	231-652-2036 (H)	7951 Walnut Avenue Newaygo, MI 49337

Committee Chairpersons and Other (not necessarily Board Members)

Garrett Crow <i>Awards</i>	SWC	garrett.crow42@gmail.com	616-826-2096 (C)	4938 Maltese Ct. NE Belmont, MI 49306
Andy & Noah Sawyer <i>Big Trees</i>	SWC	bigtreeclimber@gmail.com	269-930-9698	1117 State Street Saint Joseph, MI 49085
*Michael Huft, Editor <i>The Michigan Botanist</i>	SWC	mhuft@att.net	219-286-3396 (H) 874-682-5240 (C)	232 Akela Drive Valparaiso, IN 46385
Robert Riepma <i>History & Archives</i>	WPC	rriepma@altelco.net	616-847-0751	1329 Oakes Ave. Grand Haven, MI 49417
Mary Danforth <i>Arisaema</i>	HVC	m19danforth44@gmail.com	734-649-4849 (C)	4273 Eastgate Drive Ann Arbor, MI 48103
Sarah Nooden <i>Nominations</i>	HVC	snooden@umich.edu	734-663-5667 (H)	2148 E. Delhi Road Ann Arbor, MI 48103
Aaron Fown <i>Webmaster</i>	HVC	aaronfown@gmail.com	740-949-6556	
Pamela Laureto <i>Dickinson Award</i>	WPC	plaureto@grcc.edu	616-454-4328 (H) 616-234-3896 (O) 616-450-1759 (C)	365 Rosewood SE Grand Rapids, MI 49506
Nancy Robbins <i>Business Manager</i> <i>The Michigan Botanist</i>	SWC	nlrobbins318@gmail.com	231-944-5176	
Sheila Bourgoin <i>Website Content</i> <i>Manager</i>	HVC	sbourgoin@comcast.net	734-429-3192 (H)	447 Saline River Dr. Saline, MI 48176
Irene Eiseman <i>Special Members</i> <i>Representative</i>	Special Members	eisemani@gmail.com	734-475-9654 (H) 734-358-5891 (C)	1873 Pierce Road Chelsea, MI 48118

*Member of the Board of Directors

MBC State Fall Meeting Report — October 18, 2014

The MBC State Fall Meeting was held at Grand Valley State University on Saturday, October 18, and was well attended. The university provided a meeting space for the Michigan Botanical Foundation (MBF) members, the MBC State Board Meeting and the general meeting for all members. The MBF Meeting at 11:00 was canceled, so the group of members enjoyed coffee and snacks while getting acquainted with members who had traveled quite a distance to attend these meetings.

At 11:30 AM, President Judy Kelly called the MBC State Board Meeting to order, and reports were announced. Many committee reports were scheduled, and Aaron Fown, our webmaster, sent a visual report of his duties. Mary Danforth, Corresponding Secretary, gave her report, and the MBC Treasurer, Bob Kelly, gave an excellent financial report of the MBC expenses. Michael Huft, editor of the Michigan Botanist, gave a detailed report on the Botanist articles. Andy Sawyer, chairman of the Big Trees Program, spoke about the special work accomplished by this program. Irene Eiseman, special members chair, gave an excellent report.

Sarah Nooden gave the Nominating Committee Report, and Larry Nooden spoke about the Winter Wildflowers project. All of these reports were accepted by the members and proved to be vital to the growth of the MBC.

At the end of the Board Meeting, Vice President, Emily Nietering, called for Todd Barkman to come forward. Emily presented Todd with a special framed plaque as the MBC Distinguished Service Award for his many years of service as business manager and editor for The Michigan Botanist. Todd was pleased to be selected for this honor, and thanked Emily for presenting this special award to him.

During the lunch period, all of us ate our packed lunches and enjoyed coffee and cookies provided in

the area in front of our Room 148. After lunch, WPC President, Dorothy Sibley, called Fall Meeting to order at 1:30 PM. She thanked all members for attending this Fall Meeting. She especially thanked the White Pine Chapter members for hosting and working together to provide the place, food and meeting spaces necessary to bring this meeting to GVSU.

Dorothy was proud to announce that our special speaker for this meeting was Lee Mueller, a Certified Arborist and Registered Forester. He is currently the Program Director of the Urban Forest Project. The Grand Rapids Urban Forest Project is an initiative of Friends of Grand Rapids Parks in partnership with the City of Grand Rapids to engage the whole community in planting and growing larger, healthier, and more diverse urban forests.

Lee Mueller presented an illustrated PowerPoint program showing how trees and other plants can save our urban environments. He spoke about the importance of trees, plants and natural ecosystems to urban infrastructure. This includes the functional ecosystems benefits such as storm water mitigation and air quality improvement. It also showed the aesthetic benefits of trees and plants to improve property values and to slow traffic. In addition, he shared information showing that improved urban forests correlates to improved health benefits for residents.

Lee discussed examples and real applications of case studies. He showed how valuable one tree can be as it grows older and becomes an integral part of the owner's yard. Lee Mueller is a young man with much knowledge and vigor, and he gave a very interesting program about the impressive work being done in Grand Rapids parks and forests. Many members asked varied questions, and Lee responded with articulate answers. We were impressed with his excellent program, and thanked him for his time and effort to speak to us.

MBC State Fall Meeting Report (Continued)

After the program, WPC member Roger Tharp came forward to announce that our plan for the field trip had changed. We were going to view the ravines of the Grand River which flows through the large campus of GVSU, but too much rain had fallen recently and made that trip impossible. Roger announced that he would lead a short tour to Aman Park, which is just 3 miles from the GVSU entrance on M45. Aman Park is a 331 acre natural area located in eastern Ottawa County and is managed by the City of Grand Rapids. Sand Creek winds its way through a magnificent Mesic Forest landscape, dramatically carpeted in wildflowers. There are 75 spring-blooming species and an additional 65 summer species. Over 40 different species of trees occur within the park.

Roger presented each member who followed him to Aman Park with a large, special collection of area maps, information and drawings of West Michigan Watersheds and major glacial ages of the Great Lakes region. Roger is an excellent trip leader and we appreciated him giving of his time and talents to create this special opportunity for MBC members.

Special thanks for producing a booklet go to Dr. Mark Luttinton from GVSU and Joan Stuecken, West Michigan Nature Society. A very detailed list of all of the Aman Park plants was compiled by WPC member William Martinus and drafted on October 15, 2014.

A special thanks is in order to every White Pine Chapter member who helped in so many ways to make this 2014 MBC State Fall Meeting a success. Callers were helpful, drivers and greeters were wonderful. Bob Riepma was on hand to help our speaker with technology. And many thanks are due to Jelanie Bush who oversaw the organization of all of the details. Jelanie and Dorothy arrived at 10:00 AM to set up the tables for refreshments and coffee. Jelanie, Dorothy, Audrey Nietering, Sue Chambers, Peg Lepo and Lynne Kinkema brought homemade

cookies and there was some candy. Everyone enjoyed the treats and even took some for the road! We all left after a remarkable day, and many MBC members thanked us for providing such excellent accommodations and were impressed by the large GVSU campus.

Dorothy A. Sibley
President, White Pine Chapter

MBC State Board Meeting Minutes — October 18, 2014

The Michigan Botanical Board Meeting was held at Grand Valley State University, Niemeyer Hall, Room 148 Allendale, MI on October 18, 2014.

Bd Members & Committee Chairs Present: Tyler Bassett, Dave Chambers, Garrett Crow, Becky Csia, Mary Danforth, Irene Eiseman, Craig Elston, Richard Fowler, Ruth Hart, Jim Hewitt, Michael Huft, Bob Kelly, Judy Kelly, Lynn Kirkpatrick, Emily Nietering, Larry Nooden, Sarah Nooden, Tony Reznicek, Andy Sawyer, Dorothy Sibley, Lynn Steil, Bev Walters

1. Call to Order: Judy Kelly at 11:33

Judy Kelly had each person in attendance give their name as an introduction for those new to the board.

2. Approval of agenda

- a. Minutes.. Sarah Nooden said that the minutes (under Nominating Committee Report) should read, "Dave Chambers had suggested possible candidates for Treas." -- he was not a candidate.

- b. Dorothy Sibley moved to accept the minutes with changes. Becky Csia seconded. Motion carried.

- c. Irene Eiseman moved to accept the treasurer's report, Tyler Bassett seconded. Motion carried.

Sarah requested an addition to agenda after Web Master report.

Judy Kelly requested an addition to agenda under new business.

Bev Walters moved to accept the agenda. Mary Danforth seconded. Motion carried.

3. Judy Kelly reminded everyone that Robert's Rules of Orders will apply to the meeting.

4. Announcements

- a. Judy Kelly asked if there were any changes to email addresses please let her know for her list.

- b. MBC brochure: Sarah Nooden said she was in the process of reviewing and reworking the brochure for the winter meeting, and expect there will be some changes coming from today's meeting per agenda items. She will email the working draft to the board for comment.

- c. FQA calculator: Bev Walters announced that the FQA calculator is up and running and to try it out. -- <http://uiversalfqa.or>

5. Committee Reports

- a. Webmaster - Aaron Fown sent his report via email video to the Board.

Aaron reported no security problems or bugs and felt most are having success working with the website and encouraged any who would like instruction to contact him and he can instruct via video-chat or phone. He announced that there have been @2000 hits per month with an audience of 900. Sarah commented that she felt the HVC site on the webpage was very difficult to use. Sarah proposed that a content manager (Sheila Bourgojn) from the HVC, who has volunteered, be the conduit for posting material on the website. She has the skills and expertise to do so. Those having difficulty from any chapter could go to her for entering the information to the website as needed. Judy suggested that that Sarah talk to Aaron and in Jan. we can discuss more and finalize.

- b. Corresponding Secretary - Mary Danforth said that she has sent *Arisaema* via email to everyone and hard copies to those who want. She also asked that changes to directory be sent to her as soon as possible. The changes will appear in the April *Arisaema*.

c. Treasurer -

i) Foray expenses: Bob Kelly reviewed the foray expenses and noted the excess of remaining funds. After giving several options, he put forth the question of how to handle these funds. Discussion occurred. It was recommended that since we requested Hanes funds listing specific uses, this amount be set aside for those expenses and the rest would be considered a foray profit. Dennis Woodland (Hanes Trustee) reminded everyone that gifts are determined/limited by how well the stock market is doing. As a result, in a bad year there might not be funds for a specific future foray and that perhaps, setting money aside might be a good idea. Bob Kelly moved that the suitable expenses be made against the Hanes fund and the balance held in reserve for the 2015 foray. Dorothy S. seconded. Discussion, Motion carried.

ii) Report of The Michigan Botanist Audit: Bob Kelly reviewed the audit of Sept. 14. He announced that there is slightly over \$800 for use in The Michigan Botanist production. He asked for production costs from Carol Barkman and announced that for each of the last 5 vol. we have lost @ \$1400. Irene said since this is an annual report that we need it in hard copy. Bob said that Carol's report would be put in the next Arisaema.

- d. Mike Huft said it is clear that available funds for production has decreased because fees have not kept pace with production costs. He is not asking for more funds at this time as the TMB is behind. He wants to

MBC State Board Meeting Minutes — October 18, 2014 (Continued)

appeal to non- professionals and wishes to wait until this happens. He also said that it might be possible to find funds elsewhere. There are @ 20 articles in the pipeline. He hopes to publish two as a double issue as one paper will take @ 80 pages and that will be part of a double issue. It is possible to have 2-3 double issues. His goal is to expand subscription and get back on track for 2016. Michael discussed how it is important to get into the indexing and it must be up to date to do this. He also hopes to maintain and/or increase the professional quality.

- e. Constitution & bylaws: Michael Huft, Becky C. Bev W. and Sarah N. have spoken to each other and hope to meet soon. Becky suggested that someone who has been with the club for a long time who can discuss history, be added. Michael Huft mentioned some of the issues/topics that might be of concern for thought. Michael Huft moved to authorize the opening of a checking account for The Michigan Botanist in the name of the Michigan Botanical Club at Centier Bank in Valparaiso, Indiana. Deposits and withdrawals may be made upon the signature of any one of the Editor-in-Chief of The Michigan Botanist, the Business Manager of The Michigan Botanist, and the Treasurer of the Michigan Botanical Club. Currently those individuals are Michael Huft, Nancy L. Robbins, and Robert Kelly. Tyler B. seconded the motion. Motion carried.
- f. Foundation: (Pam Laureto) Larry Nooden said he'd like to see the relationship between the club and foundation be more clear. Judy K suggested that he send an email to that effect to Pam Laureto and the Foundation Board.
- g. Big Trees -Andy Sawyer discussed the operation of the data base. He noted that 800 trees are located by gps and must be updated. Andy said that he would update us with the on-line version and that he would eventually need computer programmer to help -- \$1000 one-time fee. He also discussed possibility of searching living and dead tree locations, taking photos, and printing data.
- h. Emily Nietering presented the MBC distinguished service award for 2014, normally given at the foray, to Todd Barkman, professor of botany at WMU, KBS and former The Michigan Botanist editor. The membership expressed appreciation for his hard work.
- i. Isobel Dickinson Award Committee -- President Kelly appointed Irene

Eiseman to chair the Dickinson Award Committee to issue the student award for TMB Vol 51. Garrett Crow agreed to be a member of the Committee.

- j. Special Members -- Irene Eiseman displayed a visual graphic of the MBC organizational structure and felt for several reasons, the Special Members should be a modified chapter instead of a subset of the Institutional Membership. At this point they may not be considered for board membership. This is for information only and to be prepared to discuss this at the Jan. meeting.

6. New Business

- a. Chapter memberships -- Bev Walters said that the disparity of chapter memberships (personal, spouse, family, sp. member, etc. posed problems with the foray and may need to be addressed for future forays.

Michael H. felt that the by-law committee should be able to address some of these issues.

- b. RCC Historical Documents - Irene E. announced that the Peebles had

Red Cedar documents and asked for any one else who might have documents to give to her where they will go to the Bentley Historical Library in Ann Arbor.

- c. Stewardship Network sponsor—Tyler will be at the conference at E. Lansing on Fri. Jan. 23-24. Judy moved that we be a sponsor of the Stewardship Network Conference. Sarah N. seconded. Motion carried.

7. Old Business

- a. Nominating committee - Sarah Nooden announced that regarding the MBC Board, Judy K remains president, Garrett Crow will be vice president., Jim Hewitt will become recording secretary, Mary Danforth will remain corresponding secretary, and Bob Kelly will remain treasurer effective Jan. 1, 2015.
- b. Larry Nooden asked members to look at Winter Wildflowers book for making comments/suggestions.

The next meeting will be at the Michigan Environmental Council Office, 602 West Ionia Street, Lansing, MI. Garrett Crow will start the next meeting Jan. 31st, snow date. Feb. 7, 21, 2015

Meeting adjourned. 1:20pm

*Respectfully Submitted,
Lynn Steil, Recording Secretary*

MBC State Board Meeting Minutes — January 31, 2015

The meeting was held in the Office of Michigan Environmental Council, 602 West Ionia Street, Lansing, Michigan on January 31, 2015.

In Attendance: Aaron Fown, Alice Ward, Becky Csia, Bev Walters, Bob Kelly, Charlotte Gyllenhaal, Craig Elston, Emily Nietering, Garrett Crow, Irene Eiseman, Jim Hewitt, Judy Kelly, Lynn Kirkpatrick, Mary Danforth, Michael Huft, Richard Fowler, Tony Reznicek, Sarah Nooden, and Wayne Roussel (introduced by Becky) (19)

1. Called to Order by President Judy Kelly at 11:57 AM

2. Approval of Minutes

Bob Kelly moved to approve the minutes of the 10/18/14 meeting with these two corrections: 1) Item 5.f. second sentence to read “prepare a report” instead of “send an email” and 2) item 5.i. to read “select the best student-authored” award instead of “issue the student” award. Second by Sarah Nooden and approved.

3. Robert’s Rules of Order -- in effect, per Judy; members wishing to speak should raise their hand.

4. Announcements

- a. Judy needs Garrett Crow and Jim Hewitt to provide her additional information for her Email list.
- b. MBC brochure: Sarah passed around the brochure (sent to members earlier via Email and seeking comment) for chapter presidents to update their information.
- c. Field Botany Course: Judy and Tony Reznicek encouraged members to notify their chapters of this class, being co-taught by Tony this summer at the U. of M. Biological Station. Students in particular may be eligible for subsidies and/or credits.

5. Committee Reports

- a. Special Members – Irene Eiseman showed a map of Special Member distribution (10 in U.P.; 11 in N.L.P.; 19 in S.L.P.; 31 in Midwest outside Michigan) and the results of a survey in which 65% of responding Special Members favored the idea of chapter status. Irene said chapter status would give this population of members control over some of their dues and allow them to sponsor students for the Spring Foray. Discussion on the structure of and the relationship of the Michigan Botanical Club and the individual chapters – both groups have constitutions/bylaws. Michael Huft contrasted this approach with Indiana where only the state organization has the constitution and the chapters are affiliates. Garrett Crow was concerned with any

measure which might unintentionally serve to weaken MBC overall. He pointed out the demise of the Red Cedar Chapter and felt one or two of the remaining chapters were not all that strong. Garrett favored a strong state organization, like the Indiana example, as did Michael. Judy polled the members informally on the question of allowing Irene to further pursue an understanding of the bylaws, Article III, pertaining to adding a chapter and whether there are in fact Special Members willing to assume the responsibilities of chapter operation. All in favor except for Garrett who abstained.

- b. Web Master – Aaron Fown reported on his initiative for “driving engagement” on the chapter website. The software, Squarespace 7, he said, would allow anyone to be an editor and thus help keep website content fresh with, for example, multiple blogposts. For those not quite ready for this, Sheila Bourgoin has volunteered to be content manager and in this role would be able to accept information from chapter members and post to the site. Sarah will ask Sheila to submit a short bio for publication in the Arisaema to introduce her to the club.
- c. Corresponding Secretary – Mary Danforth announced there would be but two Arisaemas published this year. For the spring edition she would like material in her hands by the end of February with the exception of Spring Foray details which she understands will be later. Mary would like to include in the Arisaema the data Irene gathered on Special Members and Irene will send this to her.
- d. Treasurer – Bob Kelly reported a net gain in 2014 of \$4,500 (“a good year”) largely due to high income from the Summer Foray. A portion of this gain will go the Southeast Chapter to help underwrite the costs of the Spring Foray. The financial statement he presented showed a bank balance of \$68,743. Garrett noted an outflow of \$2,000 for the Michigan Botanist Business Manager Stipend but no corresponding inflow from the Hanes Trust. Bob said that there is a commitment from the Trust to pay this stipend but that it has to be requested and that the request and the receipt may have overlapped years. Bob will investigate these transactions since his term as treasurer, make a request for the stipend from the Hanes Fund if necessary, and report to the board in a separate document. Michael Huft moved to approve the Treasurer’s Report. Second by Alice Ward and approved.
- e. The Michigan Botanist – Michael Huft displayed a few copies of the latest edition, a double issue (Vol.

MBC State Board Meeting Minutes — January 31, 2015 (Continued)

52 Nos. 1 & 2) of 56 pages fresh off the press. He pointed out a few of the changes in this his first issue as editor such as a mailing date on the inside front cover and a “In this Issue” paragraph. Michael said the next issue is nearly ready to be typeset and that he has enough material for six double issues for 2015 which would bring the journal up to date by 2016. Michael will provide the treasurer, Bob, with the total income and expenditures of *The Michigan Botanist* each year. Discussion on the pros and cons of changing the name of the journal to the Great Lakes Botanist. Libraries are charged \$25 per issue and Garrett wondered about increasing that price for additional revenue (no proposal). 85 copies are sent to the U. of M. Library at a reduced rate which they use for exchanges with other libraries. Irene noted that the chapters, which pay for *The Michigan Botanist*, will be impacted this year by the double issues.

- f. Constitution and bylaws committee – Bev Walters reported that the committee, consisting also of Michael Huft, Becky Csia, & Sarah Nooden has not yet met. Unsure if they will meet before the next meeting.
- g. Big Trees – Judy reported that Andy Sawyer is working to post a pdf of the inventory to the website.
- h. Isobel Dickinson Award Committee – Irene Eiseman reported that the committee (herself plus Garrett Crow, Becky Csia, Neil Harriman, and Ruth Hart) worked well together in coming up with a unanimous choice for the award. The winners were Kelsey Huisman and Alex Graeff, two students of Pam Laureto at Grand Rapids C. C., who, along with Dr. Laureto, published a paper on their cattail (Typhaceae) research at Pierce Cedar Creek Institute in *The Michigan Botanist* (Vol. 51, No. 3). A discussion ensued around the issue of, since the funds for the Dickinson award reside within Michigan Botanical Foundation (MBF), how the committee is selected and how the award is announced and given. Some felt a need for a memorandum of understanding between the two groups to clarify these points (also discussed in Item 7a below). There was also discussion over whether the announcement of the award should be published in *The Michigan Botanist*. Per Michael Huft, it will be.
- i. Spring Foray Report – Emily Nietering reported that the Foray will be held at a yet-to-be determined hotel with conference center in the Saginaw/Bay City area on Memorial Day Weekend, May 22-25. Field trips will radiate out from there with a special emphasis on

the Thumb. Emily asked that board members send her any ideas they may have for field trip leaders in this area and for evening program speakers.

- j. Foundation Report – No report.
6. New Business
- a. Per Larry Nooden via Sarah Nooden, a request that each chapter designate an alternate to attend the state board meetings if needed.
7. Old Business
- a. MBC and MBF – Judy summarized a one-page note written by Larry Nooden and previously sent to board members and in which he recommended re-examining the constitution of the MBF and its relationship with MBC. The two organizations are separate but MBF board members must be members of MBC. It was generally felt that more communication between the two groups would be helpful as would a memorandum of understanding (see Item 5h above). It was believed, per Irene, that Robert Sabine, treasurer of MBF had previously sought such a document. Some institutional memory may have been lost about the intended relationship between the two when MBF was created but Emily did find a page of minutes in her travelling files that may help and which she will make available to the board. Judy will ask Larry to refine his note to a specific question format which she will send around to board members for comment and then forward to Pam Laureto, president of MBF.
 - b. SN Conference of Jan. 23-24 — Sarah said the Stewardship Network did not use display boards at the conference but instead used an electronic bulletin board on which the names of supporting organizations including MBC (with logo) were displayed. Sarah also said she sent an Email to chapter presidents suggesting they forward their events to Stewardship Network for display on their Searchable Events Calendar.
8. Next State Board Meeting – will be held during Spring Foray weekend, May 22-25 in Saginaw/Bay City.
9. Adjourn – Upon a motion by Lynn Kirkpatrick, second by Emily Nietering, the meeting was adjourned at 2:52.

Submitted by:

Jim Hewitt, Recording Secretary

Report on *The Michigan Botanist*

The *Michigan Botanist* is currently behind schedule; the January–June 2013 issue (Volume 52, Numbers 1 & 2) appeared in early February 2015. As this piece is being written (end of February 2015), the July–December 2013 issue (Vol. 52, Nos. 3 & 4) is well along. In an effort to get the journal back on schedule, we are planning to produce six double issues, or three years' worth, during 2015, including the two issues just referred to. These will include issues for 2013, 2014, and 2015. Thus, at the beginning of 2016, we will be able to return to publishing the four 2016 issues of Volume 55 as single issues.

Because of the mechanics of the printing process, each issue must be a multiple of eight pages. Thus, it is often a challenge to have material that exactly fits into a particular issue. For that reason, shorter articles sometimes appear earlier than they otherwise might if they will finish out an 8-page section. Also, for that reason, I want to encourage readers and members to submit short items that can be used in this way, such as book reviews, obituaries of people who have been prominent in the Club or in Great Lakes area botany, and especially short research notes.

Although getting *The Michigan Botanist* back on schedule is an important goal, it is even more important to keep it on schedule once we get there. There are a couple of critical reasons for this. First, unless the journal appears on a regular schedule, we are in danger of losing subscribers (especially the all-important institutional subscribers) as well as contributors of quality papers. Second, an important mark of a high quality scientific journal is that it is recognized by an indexing service, which, among other things, keeps track of the number of times that articles in the journal are cited by other scientific papers. A number that is calculated based on these citations is called the "impact factor." Journals with higher impact factors are considered more prestigious. Because academic authors prefer to publish in journals with greater prestige, a journal with a higher impact factor is able to attract higher quality articles. In turn, as the journal publishes higher quality articles, its index rating increases, thereby enabling it to continue to attract more high-quality articles.

Indexing services will not index a journal at all unless it is published regularly and on schedule and has a track record of publishing high quality articles. For that reason, *The Michigan Botanist* is not currently recognized by the indexing services and has no impact factor associated with it. Therefore, before we can be recognized once again by the indexing services, we need to get back on schedule and stay there, and, for that, it is necessary to have a steady stream of good papers contributed to the journal.

So, **this is a call for papers.** In addition to the shorter items I mentioned earlier, we need to receive longer contributions of all sorts relating to the plant life of the Great Lakes area. We

currently have, or anticipate receiving, articles that will fill most, if not all, of the double issues planned during 2015. However, we will need more articles to start filling the 2016 issues, and the sooner they can be submitted the better. Please consider what you have available that can be turned into a paper for *The Michigan Botanist* – taxonomy, forest ecology, floristic surveys, conservation, use of plants by humans, historical studies, and many other topics. If you have any questions about the suitability of a proposed article, please feel free to contact me at the email below. Student-authored papers are always welcome.

I'd also like to consider some occasional special topic issues, in which several papers by different authors would explore different aspects of some area of concern. Some ideas might be Invasive Plants, or The Decline in Field Botany and Collections-Based Research, or The Role of Nature Preserves or other conservation topics. Others could be a series of articles (which need not appear in a single issue, but could appear singly over time) on topics such as the history of floristics and flora writing in each of the several states and provinces that make up the Great Lakes region, or articles on the development, management, and importance of nature preserves, parks, land trusts, and similar areas in each of these states. These are just suggestions that come to mind. I would welcome any ideas, as well as any volunteers to take on the task (or assist in the task) of assembling authors and articles for these types of ventures.

Reviewers are extremely important, and I have had the good luck to have received many excellent reviews in the past year. They are absolutely critical to maintaining the high quality of the journal. I would also welcome hearing from anyone who is willing to serve as a reviewer. That would be very helpful to me. Please also let me know what types of papers you would be able to review.

—Michael Huft, Editor
The Michigan Botanist

mhuft@att.net

Distinguished Service Award – Todd Barkman

Todd Barkman is Professor of Biological Sciences at Western Michigan University, where he has taught botany and plant identification for 14 years. Todd received his Bachelors and Masters of Science degrees in Botany from Michigan State University, and his Ph.D. in Botany from the University of Texas in Austin.

His research centers on evolutionary botany, using biochemical techniques, especially DNA sequencing, to examine systematics of plant species. He has specific interests in tropical species found in Southeast Asia. In particular, he has focused on the genus with the largest flowers in the world, *Rafflesia*. In addition to his teaching and research at WMU, Todd has taught the summer Plant Systematics course at Michigan State's Kellogg Biological Station.



Since 2000, Todd has also served as the Curator of the Hanes Herbarium at Western. In addition to its general collections, the Hanes Herbarium contains the historical collections and field journals of Clarence and Florence Hanes, the bicycling botanists who published the *Flora of Kalamazoo County* in 1947.

Most of you know Todd because he has served as Editor of *The Michigan Botanist* from 2006 to 2014. For those of you who were on the Michigan Botanical Club State Board when Todd was recruited as editor, you may recall that initially he agreed to serve for a few years. But after a few years, he was asked and generously agreed to serve a few more years, and then, even more years after that. He has worked diligently with other members of the Editorial Board to apply the highest standards of professionalism and editorial excellence to each quarterly issue. In

2011 the *Botanist* celebrated its 50th year of publication by launching online access to the *Botanist* through the University of Michigan publications website. This was the first time the full text of the journal was made available online. Those of us who are hopelessly old-fashioned appreciate that print copies continue to be sent to Michigan Botanical Club members.

Two of the things Todd's resume doesn't reveal are -- that he leads wonderful, informative Club field trips and that he presents fascinating programs at Club meetings. For example, some of you may have been among the fortunate ones to participate in a memorable trek he led through the sand dunes and the conifer swamps of Grand Mere State Park during the 2011 "Fernwood" Spring Foray. The group was so engaged with the adventure that it was just a bit late returning to base.

Lucky for us, Todd maintains a passion for field botany even though focus in academia has shifted to more technical matters. He is a keen observer and enjoys sharing the wonder of plants with us all. We at the Michigan Botanical Club are very grateful for his many years of service as editor of *The Michigan Botanist* and for his many other contributions to our Club.

Spring Foray and Fall Meeting Schedule

YEAR	SPRING	FALL
2015	SEC	Board
2016	SWC	SEC
2017	HVC	SWC
2018	WPC	HVC
2019	Board	WPC

Update on Winter Wildflower project

Tony Reznicek & Larry Noodén

In a past *Arisaema*, we noted plans were afoot to reprint and somewhat expand the **Winter Wildflowers** booklet, to reflect not only modern names but also, to some extent, the changing flora and changing sensibilities of botanists. We are still open to suggestions of plants to add (though the numbers we can add will necessarily be limited), but below is a list of plants, in three categories, that we think could be worth adding. Naturally, we'd be grateful to get digital images we can use for the booklet. These additions reflect some more wetland plants and graminoids, plus a few more prairie plants. Also, we have added some new weeds, including several to contrast with native species already illustrated. Excepting the last two winters, we are also experiencing, on average, more snowless conditions, so we are looking to add a very few characteristic evergreen rosettes that people will regularly see hiking in woods and fields.

Agastache nepetoides Wild Hyssop

Allium tricoccum Wild Leek

Ammophila breviligulata Beach Grass

Asclepias sp. besides *A. syriaca* (*A. tuberosa* for sure)

Milkweeds

Bromus ciliatus Fringed Brome

Carex lupulina Sedge

Caulophyllum thalictroides Blue cohosh

Cladium mariscoides Twig Rush

Frasera caroliniensis American Columbo

Juncus canadensis Canada Rush

Persicaria lapathifolia Smartweed

Pycnanthemum virginianum Common Mountain Mint

Ratibida pinnata Yellow Coneflower

Smilax lasioneura Greenbrier

Solidago rigida Stiff Goldenrod

Spartina pectinata Prairie Cordgrass

Tephrosia virginiana Goat's Rue

Triglochin maritimum Arrowgrass

Collinsonia canadensis Stoneroot

Dasiphora fruticosa Shrubby Cinquefoil

New Weeds

Alliaria petiolata Garlic Mustard

Barbarea vulgaris Yellow Rocket

Celastrus orbiculatus (to contrast with the native)

Dipsacus laciniatus Cut Leaf Teasel

Phragmites australis (to contrast with the native strain)

Torilis japonica Hedge-parsley

Typha angustifolia (to contrast with the native)

Verbascum blattaria Moth Mullein

Evergreen Rosettes

Aletris farinosa Colic Root

Antennaria parlinii Pussy Toes

Centaurea stoebe (old stalks illustrated in original)

Conyza canadensis Horseweed

Erigeron pulchellus Robin's-plantain

Hepatica sp. Hepatica

Hieracium venosum Rattlesnake-weed

Oenothera sp. Evening-primrose

Monarda punctata Horse Mint

Pseudognaphalium obtusifolium Cudweed

Verbascum blattaria Moth Mullein

Verbascum thapsus Mullein

Viola pedata Birdfoot Violet

Isobel Dickinson Memorial Award

The Isobel Dickinson Memorial Award was established in 1993 by the Red Cedar Chapter to honor Isobel Adkins Dickinson, a founding member of the chapter, and prominent member of MBC, who took a keen interest in introducing students to the field of botany. The award was created to acknowledge the best student-authored paper published in a given volume of *The Michigan Botanist*. Congratulations go to **Kelsey Huisman** and **Alex Graeff** from Grand Rapids

Community College for their well-written article on “Hybridization Dynamics of Invasive Cattail (Typhaceae) Stands at Pierce Cedar Creek Institute: A Molecular Analysis,” Kelsey Huisman, Alex Graeff, and Pamela J. Laureto, *The Michigan Botanist* 51: 89–99. MBC would like to acknowledge the Dickinson Award Committee and The Michigan Botanical Foundation for their contributions in support of this award.

In Memorium



Long time member of the Michigan Botanical Club – Huron Valley Chapter – Annette Van der Schalie passed away February 3, 2015, at the Chelsea (Michigan) Retirement Community at the age of 102, about one month short of her 103rd birthday.

Annette was active in the club for many years, and was likely a founding member of the Huron Valley Chapter (1960). She will be remembered for her cheerful and knowledgeable presence at our meetings. Her son Eric sometimes brought her to meetings in later years. She had a lifelong interest in botany, particularly wildflowers, native plants and algae (she contributed a number of specimens to the herbarium). She earned Bachelor of Science and Master of Science degrees with a special interest in botany at the University of Michigan. This past fall we were fortunate to have a field trip to her property, now protected by a conservation easement and owned by son Eric and wife, Franci. See more at the Ann Arbor News: <http://obits.mlive.com/obituaries/annarbor/obituary.aspx?n=annette-van-der-schalie&pid=174054361#sthash.5ULJuFBG.dpuf>

Introducing the Content Manager for the MBC Website: Sheila Bourgoïn

At the Fall State Board Meeting, Sarah Nooden proposed that Sheila Bourgoïn, who volunteered to help with the MBC website, be the website Content Manager. Webmaster Aaron Fown will overview security, updates and website structure, while Sheila will be the Content Manager of the website. Websites are what Sheila does for a living. We have had several meetings with Aaron and Sheila, the last included Tony Reznicek and Judy Kelly (President) founder of our original website and myself.

We will be doing some redesigning to make the website more usable, e.g., use of event calendars for the State and Chapters,

archiving chapter newsletters, posting photos and blogs and, most importantly, keeping up-to-date chapter meeting and field trip announcements. To do this, each chapter needs a person who will send their chapter's information to Sheila to post the chapter's activities.

We greatly appreciate Sheila for volunteering to do this.

Sheila's email address is: scbourgoïn@comcast.net.

Sarah Nooden,
Website Committee

The Artist's Notebook

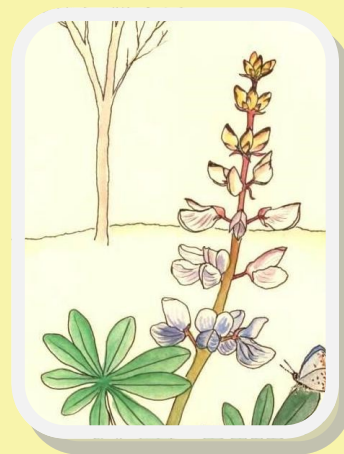
Drawings by Artemis Eyster



Tulip Tree,
Liriodendron tulipifera



Common Milkweed,
Asclepias syriaca



Wild Lupine,
Lupinus perennis
w/Karner blue butterfly



American Hazelnut,
Corylus americana



Ribwort Plantain,
Plantago lanceolata