



Arisaema



Michigan Botanical Club State Newsletter

Volume 22, Issue 2 • August 2016

Corresponding Secretary's Report

The main focus of this issue of the *Arisaema* is about the upcoming FORAY. As usual, I am overwhelmed by the number of field trip choices -- I wish I could sign up for ALL of them. Many are very limited in the number of participants, so I recommend that you register as soon as you can after you read all of the descriptions.

Once you have registered, you will have time to read the rest of the newsletter. Some important items to note are:

- The Nominating Committee Report – this only happens every 2 years. If you want to nominate someone other than those listed, do it before September 1st. Also, if you have any suggestions about who might be a good treasurer for the Club, your nominations are especially welcome. Bob Kelly would like to be replaced as soon as possible but has generously offered to continue until we find a replacement.
- “Important Vote for the Membership at the Fall Foray” – Prepare for the upcoming vote by the membership about changing our non-profit status from a 501(c)(4) to a 501(c)(3) corporation. Read Michael Huft’s article which explains this quite clearly.

Also read about the Spring Meeting we had at Hidden Lake Gardens, an update on the Michigan Botanical Foundation and the various Chapter Reports – including our new Chapter – the Great Lakes Chapter.

Please let me know if you would like to change how you are receiving the *Arisaema*. Your choices are the same – email only, U.S. mail only or BOTH. Contact me at

or call me at
Believe it or not, I always get responses from a few people who want to make a change.

This will be the last newsletter that I will be responsible for. If all goes as planned, Sheila Bourgoin will be taking over the Corresponding Secretary role starting in January 2017. It has been a real pleasure for me to serve in this capacity. Hope to see many of you at the Fall Foray!

—Mary Danforth, Corresponding Secretary,
Michigan Botanical Club

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President's Report

Greetings from your MBC President,

On April 30th the Club had its Spring Meeting at Hidden Lake Gardens. This year there will not be a fall meeting, due to the Foray being Labor Day weekend in Kalamazoo. The Southeastern Chapter did a wonderful job of sponsoring the Spring Meeting. Brad Garmon of the Michigan Environmental Council spoke on "Michigan's New Draft Water Strategy: a 30-Year Vision." The Michigan Water Strategy can be found online at: http://www.michigan.gov/deq/0,4561,7-135-3313_3677_76614---,00.html

After Brad's talk, Tony Reznicek led an outdoor walk to look at spring wildflowers.

At the Board of Directors meeting, the Nominating Committee presented the slate of officers for the 2017-2018 term: President, Garrett Crow; Vice President, Dan Slean; Treasurer, Bob Kelly; Corresponding Secretary, Sheila Bourgoin; Recording Secretary, Jim Hewitt. Bob Kelly will continue serving as treasurer until a new treasurer is found.

The Board is looking for a replacement for Bob Kelly as treasurer, so if any of you are interested in becoming the treasurer for the club, please contact Sarah Nooden, chair of the Nominating Committee. Sarah's email is [REDACTED]

I look forward to meeting all of you at future club events. Please feel free to contact me at [REDACTED] or [REDACTED] with any comments or suggestions.

Sincerely,

*Judy Kelly
President
Michigan Botanical Club*

Spring Foray and Fall Meeting Schedule

YEAR	SPRING	FALL
2016	SWC (Fall)	SEC (Spring)
2017	HVC	SWC
2018	WPC	HVC
2019	Board	WPC
2020	SEC	Board

MBC 2016 Foray: September 2-5, 2016

Welcome to the Michigan Botanical Club

2016 Foray in Southwestern Michigan

Hosted by the Southwestern Chapter at
Holiday Inn Kalamazoo West
2747 South 11th St
Kalamazoo, MI 49009
[REDACTED]

<https://www.reservationcounter.com/hotels/show/107759/holiday-inn-kalamazoo-w>

The Southwestern Chapter is very pleased to host the MBC 2016 Foray and looks forward to your exploring the special native plant communities found in the Kalamazoo area.

Southwestern Michigan is blessed with a wide array of natural communities populated with a remarkable diversity of plant species. Botanists report that the coastal plain marshes found in Allegan, Van Buren and Kalamazoo counties are home to some of the largest concentrations of rare plant occurrences in the state. The area's prairies are remnants of an eastern extension of a "prairie peninsula." Because late summer is the best time to see these and other southwest Michigan plant communities in bloom, the Annual Foray this year will take place over the Labor Day weekend.

For hundreds of thousands of years on and off, powerful continental glaciers transformed the topography of northern North America. The area that is now southwestern Michigan was shaped by both the Lake Michigan and Saginaw lobes of the Wisconsin glacial period. As this last ice sheet receded from our area about 15 thousand years ago, it left behind a land of moraines, lakeplains and various forms of outwash deposits, as well as areas carved by meltwater channels. After the last of the ice retreated, plants and animals over time began to repopulate the desolate land, finding niches in which to live and reproduce. The rolling hills, meandering streams, and abundant wetlands and lakes created by the glacier met their varied needs and allowed richly diverse natural communities to develop.

Fast forward to the late 17th century -- European explorers in this area encountered some of these diverse natural communities, but perhaps not with a botanist's enthusiasm. In the spring of 1680, LaSalle's ship was supposed to meet him at a fort on the shore of Lake Michigan near the mouth of the St. Joseph River. When the ship failed to arrive, the French explorer and his party began a difficult trek toward Lake Erie through "the unknown wild of southern Michigan." They bushwhacked their way east, struggling through dense woods "interlaced with thorns and brambles," hunting in open

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MBC 2016 Foray: September 2-5, 2016 (Continued)

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woodlands, camping at “the edge of a prairie” and wading through flooded, waist-deep wetlands. [Frances Parkman (1865). *France & England in North America*. (Library of America edition, 1983.)] The Foray field trips will sample these plant communities, but with less bushwhacking and fewer thorns and brambles. And, although we do not plan to wade up to our waists through wetlands, be sure to bring your boots.

Several **field trips** will highlight significant collecting sites used by the remarkable amateur botanists, Clarence and Florence Hanes, who published their classic, *Flora of Kalamazoo County, Michigan*, in 1947. The sites include West Lake, Lyons Lake and Pretty Lake.

Other field trips will feature coastal plain marshes in Van Buren and Allegan counties, as well as a variety of other wetlands – bogs, prairie fen, and hardwood-conifer swamp. And still others will give us the opportunity to explore upland communities, including savanna, prairies, oak-pine barrens and dry-mesic southern forest. Adding to the variety of field trips will be: a tree identification walk on the lovely, gently rolling Western Michigan University campus; a leisurely walk through the beautiful Kellogg Forest in search of fungi; and a visit to a privately-owned woodland that is the only currently known location in the State for Climbing Fern.

The Foray will open Friday evening with a welcome and orientation, followed by our speaker, Tony Reznicek, who will discuss Coastal Plain plants found in the Great Lakes region. One of the most remarkable occurrences in the Michigan and Great Lakes region flora is the occurrence of a number of species whose primary range is centered on the Atlantic and Gulf Coastal Plain. Unexpectedly, here they are usually not long-lived plants of stable habitat, but rather often annuals and short-lived perennials of transient habitats. Tony will describe the remarkable dynamics of these habitats and the strategies for long term survival, as well as the conservation challenges.

On Saturday evening, speaker Garrett Crow will provide an overview of bogs, focusing on Pennfield Bog, a major southern Michigan bog. Garrett will describe the various vegetation zones and examine the phytogeographical patterns of bog plants in light of the impact of Pleistocene glaciation and where these plants might have survived the Ice Age and ultimately migrated to our southern Michigan bogs.

And on Sunday evening, Todd Barkman will talk with us about orchids, exploring the many traits that distinguish orchids from other plant families as well as each other. His

discussion will incorporate aspects of phylogeny as part of the attempt to understand the nature of diversity associated with orchid species that are found in our backyards as well as those that are incredibly rare and known only from some of the most remote places on earth.

The Southwestern Chapter wishes to thank all the people who have generously agreed to lead field trips and present evening programs at the 2016 Foray. We very much appreciate their willingness to share their time and their favorite places with us over the Labor Day holiday weekend. We are very grateful for the overwhelmingly positive responses we have received from so many people to our requests for help. We also very much appreciate the generous funding received from the Hanes Trust, Forensic Fluid Laboratories of Kalamazoo, and the Michigan Botanical Foundation.

General Information

The Chapter has arranged for lodging, meals and meetings at the Holiday Inn Kalamazoo West, located at the US-131 & Stadium Drive interchange, Exit 36 from US-131. Check-in time at the Holiday Inn begins Friday afternoon at 3:00 pm. The Foray registration table will be in front of the hotel's ballroom to the left of the hotel's lobby. On Friday, the Foray registration table will be open from 4:00 pm to 7:30 pm. Your name tag and field trip assignments will be given to you when you check-in.

Lodging and Meals

Holiday Inn Kalamazoo West is a full service hotel with free high speed internet, a health & fitness center, a heated indoor pool & hot tub (Holidome), and a restaurant and bar on-site. All guest rooms are smoke-free.

You must make your own room reservations by calling the Holiday Inn Kalamazoo West at [REDACTED] and advising the reservation desk that you are participating in the Michigan Botanical Club event that is taking place at the hotel from September 2 to September 5, 2016. **There is a special group rate of \$99 (plus taxes) per room (single or double occupancy) per night for reservations made by August 16, 2016.** Reservation requests received after August 16, 2016 will be accepted on a space available basis, but the special group rate is not guaranteed after that date.

The **meal package** at the hotel for the entire weekend will include 3 breakfasts, 2 box lunches and 2 dinners. You will be

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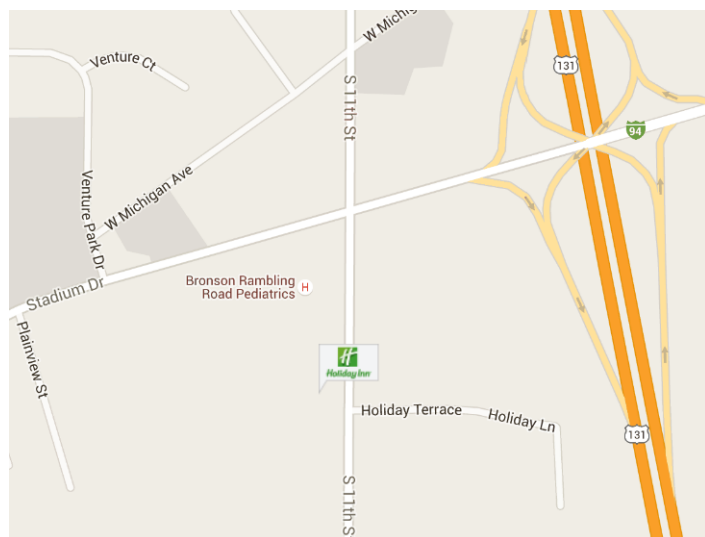
MBC 2016 Foray: September 2-5, 2016 (Continued)

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on your own for dinner Friday. Snacks will be available at the Friday evening kick-off program. Single day registration with meals (box lunch and dinner) is available. See Registration Form.

Hotel breakfasts and dinners will be served buffet style in the hotel ballroom with multiple options and vegetarian choices available. Box lunches with a variety of sandwich choices and a vegetarian option will be available for pick-up at breakfast. If you wish to have vegetarian box lunches, please so indicate on the Registration Form. Vegetarian box lunches will be available only for those persons who have requested them. If you have other dietary restrictions, please also indicate this on the Registration Form and we will work with the hotel chef to accommodate you. Please take your box lunches with you on all-day trips. Coolers will be provided or you may bring your own. Those of you on half-day trips will be returning to the hotel and may eat your box lunch in the hotel ballroom.

Directions to Holiday Inn Kalamazoo West



From the North:

- take US-131 south toward Kalamazoo to Stadium Drive interchange (Exit 36)
- take right branch of exit ramp to reach Stadium Drive **westbound**
- take Stadium Drive for 0.2 miles and then turn left (south) on South 11th St at light
- travel ~500 feet, then turn left on Holiday Terrace at small Holiday Inn sign (hotel is hidden behind trees)

From the East:

- take I-94 west toward Kalamazoo to US-131 North (Exit 74B, Gd Rapids)
- take US-131 north to Stadium Drive (Exit 36, Bus. US-131, BL I-94, Kalamazoo)
- take left branch of exit ramp to reach Stadium Drive **westbound**
- take Stadium Drive west for 0.2 miles and then turn left (south) on South 11th St. at light
- travel ~500 feet, then turn left on Holiday Terrace at small Holiday Inn sign (hotel is hidden behind trees)

From the South:

- take US-131 north to Stadium Drive (Exit 36, Bus. US-131, BL I-94, Kalamazoo)
- take the left branch of exit ramp to reach Stadium Drive **westbound**
- take Stadium Drive west for 0.2 miles and then turn left (south) on South 11th St. at light
- travel ~500 feet, then turn left on Holiday Terrace at small Holiday Inn sign (hotel is hidden behind trees)

From the West

- take I-94 east to US-131 North (Exit 74B, Gd Rapids)
- take US-131 north to Stadium Drive (Exit 36, Bus. US-131, BL I-94, Kalamazoo)
- take the left branch of the exit ramp to reach Stadium Drive **westbound**
- take Stadium Drive west for 0.2 miles and then turn left (south) on South 11th St. at light
- travel ~500 feet, then turn left on Holiday Terrace at small Holiday Inn sign (hotel is hidden behind trees)

Approximate Distance to hotel from:

Campgrounds: None are nearby, but these are the closest to the Holiday Inn.

Ann Arbor	110
Detroit	130
Grand Rapids	50
Lansing	80
South Bend	70

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MBC 2016 Foray: September 2-5, 2016 (Continued)

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Spring Lake Resort is @ 20 min.

8368 W. C Ave, Kalamazoo, MI 49009

<http://campslr.webs.com>

Oak Shores Resort Campground is @ 25 min.

13496 S. 28th St
Vicksburg, MI 49097

(General info about Oak Shores is available on the internet, but could not find a website dedicated to this campground.)

Pioneer Point Campground is @ 20 min.

23715 CR-354
Lawton, MI 49065

or <http://www.michigan.org/property/pioneer-point-campground/>

For information about these campgrounds, please check the internet.

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 and have uneven surfaces. Recommended items are: sturdy shoes, boots for wet areas, rainwear, hat, sunscreen, insect repellent, refillable water bottle, medications, umbrella, hand lens, field guide, notebook, daypack or field bag, camera, and hiking pole. Coolers will be provided for lunches or if you prefer, you may bring your own cooler. **Note: If you are allergic to bee or other insect stings, be sure to bring your own prescriptions.**

Student Foray Awards

Each Chapter is responsible for paying the cost of registration, meals and housing and for arranging the hotel reservations and transportation for its sponsored students. Each student should fill out and send in his or her own Registration Form with field trip selections as soon as possible. Each Chapter should pay the required amount for registration and meals to the host Chapter (the Southwestern Chapter) and, at the Foray, pay the hotel for lodging. Chapters wishing to find roommates for their students may contact the Registrar.

The Michigan Botanical Foundation has provided information to the MBC Chapter presidents concerning the Foundation's support for MBC Chapters that sponsor students who attend the Foray.

Any student wishing to attend but who is not sponsored by an MBC Chapter would pay the discounted registration and meal price by providing the proper student ID. See Registration Form.

Registrar

Lynda Pelkey
6909 Long Lake Rd
Berrien Springs, MI 49103

The Registration Form (enclosed), accompanied by a check, must be received by the Registrar by August 16, 2016. Make checks payable to: **Michigan Botanical Club – SWC**. No refunds will be made after August 25, 2016.

Each individual attending must complete a separate Registration Form. Make copies of the Registration Form or print additional forms from the MBC website: www.michbotclub.org.

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

Suggested Readings & References for the Foray (in addition to the Voss & Reznicek *Field Manual of Michigan Flora*):

Bassett, Tyler. (2011). Annotated Checklist of the Flora of the Kalamazoo Nature Center with Natural Community Descriptions. *The Michigan Botanist*, 50 (2): 41-104.

Chapman, K.A., Brewer, R. (2008). Prairie and Savanna in Southern Lower Michigan: History, Classification, Ecology. *The Michigan Botanist*, 47(1): 1-48.

Cohen, J.G., Kost, M. A., Slaughter B. S., Albert, D. A. (2015). A Field Guide to the Natural Communities of Michigan, Michigan State Univ. Press, East Lansing. 362 pp. **(In particular, the sections on: Coastal Plain Marsh, Emergent Marsh, Wet-mesic Prairie, Prairie Fen, Bog, Hardwood-Conifer Swamp, Oak-Pine Barrens, and Dry-mesic Southern Forest.)**

Crow, Garrett E. (1969). An Ecological Analysis of a Southern Michigan Bog; A Phytogeographical Analysis of a Southern

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Michigan Bog; and Species of Vascular Plants of Pennfield Bog, Calhoun County, Michigan. The Michigan Botanist, 8: 11-27; 51-60; and 131-136.

Dorr, J. A., Jr., Eschman, D.F. (1970). Geology of Michigan. The University of Michigan Press, Ann Arbor. 476 pp. **(In particular, the section on Post-Pleistocene Floras of Michigan: 441- 449.)**

Kost, M.A., Hyde, D.A. (2009). Exploring the Prairie Fen Wetlands of Michigan. Extension Bulletin E-3045. Michigan Natural Features Inventory, Michigan State University Extension, East Lansing. 106 pp.

Krause, James G. (2012). Noteworthy Collection (*Lygodium palmatum*, Climbing Fern). The Michigan Botanist, 51 (3): 117-120.

McKenna, Duane (2004). Flora and Vegetation of Kalamazoo County, Michigan. The Michigan Botanist, 43(3): 137-359.

O'Connor, R.P., Kost M.A., Cohen, J.G. (2009). Prairies and Savannas in Michigan. Michigan State University Press, East Lansing. 139 pp.

Pitcher, Emma B. (1994). Prominent Michigan Botanists: I. Clarence Robert Hanes (1874-1956). The Michigan Botanist, 33: 66-68.

Woodruff, James C. (1999). LaSalle's Walk on the Wild Side. Michigan History Magazine , 83 (2): 6-15.

MBC 2016 Foray Daily Schedule

Friday, September 2

- | | |
|----------------|--|
| 3:00 pm | Check-in begins at the Holiday Inn Kalamazoo West |
| 4:00 – 7:30 pm | Registration adjacent to hotel ballroom left of lobby
Dinner on your own |
| 7:30 pm | Welcome and orientation in Great Lakes Ballroom |
| 8:00 pm | Speaker, Dr. Tony Reznicek, “Disjunct Coastal Plain Plants in the Great Lakes Region” |

Saturday, September 3

- | | |
|------------------|--|
| 6:30 – 8:00 am | Buffet Breakfast in Great Lakes Ballroom |
| 7:15 am | Pick up box lunches outside ballroom |
| 8:00 am | Departure for <u>All-Day field trips</u> . Meet 15 minutes prior to departure. |
| 8:30 am | Departure for <u>Morning field trips</u> . Meet 15 minutes prior to departure. |
| 12:00 – 12:45 pm | Box Lunch in field or in hotel ballroom |
| 1:00 pm | Departure for <u>Afternoon field trips</u> . Meet 15 minutes prior to departure. |
| 5:00 – 6:00 pm | Michigan Botanical Club State Board meeting in Erie Room |
| 6:00 pm | Buffet Dinner in Great Lakes Ballroom |
| 7:30 pm | Announcements, recognition of Student Scholarship recipients |
| 8:00 pm | Speaker, Dr. Garrett Crow, “The Vegetation and Phytogeography of a Southern Michigan Bog” |

MBC 2016 Foray: September 2-5, 2016 (Continued)

MBC 2016 Foray Daily Schedule (Continued)

Sunday, September 4

- 6:30 – 8:00 am Buffet Breakfast in Great Lakes Ballroom
- 7:15 am Pick up box lunches outside ballroom
- 8:00 am** Departure for **All-Day field trips**. Meet 15 minutes prior to departure
- 8:30 am** Departure for **Morning field trips**. Meet 15 minutes prior to departure
- 12:00 – 12:45 pm Departure for **Afternoon field trips**. Meet 15 minutes prior to departure
- 4:30 – 5:30 pm Great Lakes Chapter meeting in Boardroom
- 5:00 – 6:00 pm Michigan Botanical Foundation meeting in Erie Room
- 6:00 pm Buffet Dinner served in Great Lakes Ballroom
- 7:30 pm Announcements, Awards, Board Meeting Reports
- 8:00 pm **Speaker, Dr. Todd Barkman, “*Tropical and Temperate Orchid Species Diversity: More Similarities than Differences*”**

Monday, September 5

- 6:30 - 8:00 am Breakfast in Great Lakes Ballroom
- 9:00 am** **Departure for field trips**. Meet 15 minutes prior to departure.
- 12:00 noon Check-out Time

MBC 2016 Foray: September 2-5, 2016 (Continued)

FORAY FIELD TRIPS—September 3-5

Saturday, September 3

MORNING	AFTERNOON	ALL DAY
Pretty Lake	Phillips Family Sanctuary	ASGA #1 - Coastal Plain Marshes
Marc's Marsh Fen	Paw Paw Prairie Fen	ASGA #2- Selected Sites
Kellogg Forest - Mushrooms	Sand Creek Preserve	

Sunday, September 4

MORNING	AFTERNOON	ALL DAY
Portman Nature Preserve	Meta Gastineau Preserve	ASGA #3 - Coastal Plain Marshes
West Lake Bog	WMU Tree ID	ASGA #4 - Selected Sites
	Rarities of Kalamazoo County	ASGA #5 - Selected Sites

Monday, September 5

MORNING

Hidden Savanna

Gourdneck State Game Area

Meta Gastineau Preserve

MBC 2016 Foray: September 2-5, 2016 (Continued)

Foray Field Trip Descriptions September 3-5

Special Note: You may have noticed from the field trip listing that there are five All-Day field trips to the **Allegan State Game Area (ASGA)**. The ASGA is a big place, covering more than 50,000 acres. And it is a diverse place, containing excellent examples of a variety of natural communities. We have attempted to plan trips so that they visit many of these communities and that they visit **the best representatives of these communities**. The two trips to coastal plain marshes might visit some of the same sites, depending on field conditions. The other three ASGA trips are going to different areas within the natural communities the trips will visit. For example, although the hardwood-conifer swamp site is part of both the Bassett trip on Saturday and the Martinus/Schaddelee trip on Sunday, the Bassett trip will focus on the upland portion and the Martinus/Schaddelee trip will focus on the wet portion of the site.

For ease of reference and Registration, we have numbered the ASGA trips as follows:

- Two ASGA trips will feature coastal plain marshes – **ASGA #1** (Reznicek, Saturday) and **ASGA #3** (Penskar, Sunday);
- **ASGA #2** (Bassett, Saturday) will visit: oak-pine barrens, hardwood-conifer swamp, and other sites if time allows;
- **ASGA #4** (Martinus & Schaddelee, Sunday) will visit: bog, oak-pine barrens, and hardwood-conifer swamp;
- **ASGA #5** (Lincoln, Sunday) will visit: wet-mesic sand prairie, an unusual forest, and an oak-pine barrens/dry sand prairie mix.

Please see trip descriptions for details. The Foray Registration Form includes the numbers for the ASGA trips.

SATURDAY September 3

Allegan State Game Area Coastal Plain Marshes – Coastal Plain Disjuncts

ASGA #1: Saturday ALL DAY – Leader: Tony Reznicek

Limit: 20

We will be walking along the shores of shallow ponds/marshes in sandy/peaty soil looking at the various species of Coastal Plain disjuncts, especially highlights like *Rhexia mariana* and

some of the very rare sedges. These coastal plain marsh sites are well described in the Michigan Natural Features Inventories book *A Field Guide to the Natural Communities of Michigan*. If possible a pre-trip review of those pages would be of benefit. A notable condition of these sites is their widely fluctuating water levels, which greatly affects which species will be present. Wear waterproof boots. There may be a few bugs, but should be no problem. This will be a relatively easy walk. Leader will meet the group at the hotel.

Trip Leader Biography: Tony Reznicek is Curator at the University of Michigan Herbarium with research interests in the systematics and evolution of sedges, Cyperaceae, especially *Carex*, and working a lot now in Mexico. He is also interested in the plant geography of the northeastern North American flora, concentrating on the Great Lakes region. Primary interests here are plant migration and colonization, origin and persistence of relict plant species and communities, wetland vegetation dynamics, especially of the Great Lakes shorelines, and the evolution and systematics of the endemic flora of the region. He is also interested in and works toward the conservation of the Great Lakes region flora, with a focus on conservation of the endemic and disjunct flora, and, of course, Michigan flora in general.

Southwestern Michigan's Identity Crisis: "Northern" Tree Communities in Southern Michigan

ASGA #2: Saturday ALL DAY – Leader: Tyler Bassett

Limit: 20

This trip will visit at least two sites in the Allegan State Game Area: (1) 126th Ave. Barrens (oak-pine barrens) and (2) Big Dailey Bayou (hardwood-conifer swamp).

While the climate of the southern Lower Peninsula is too warm for most coniferous species, a moderate climate along Lake Michigan allows pines, hemlocks, and cedars to thrive. We will explore oak-pine barrens and hardwood-conifer swamp.

Dominated by jack and white pine, black and white oak, little bluestem and Pennsylvania sedge, these oak-pine barrens are similar to their northward compatriots; but also support a confluence of mostly 'southern' (e.g., wild lupine, American columbo, sky-blue aster, false foxglove) and a few 'northern' (e.g., bearberry) groundlayer species. The Allegan State Game Area is an ideal place to see this community according to *A Field Guide to the Natural Communities of*

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MBC 2016 Foray: September 2-5, 2016 (Continued)

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Michigan (Michigan Natural Features Inventory, 2015).

Similarly, eastern hemlock and white cedar persist in expansive, cool swamps protected from the temperature extremes otherwise seen in southern Michigan, but supporting a mixture of ‘southern’ and ‘northern’ groundlayer species. We may visit additional sites as time allows. Bring sturdy footwear (hiking boots are fine – we won’t venture too far into the swamps, however the bank going down to the swamp is rather steep and 30-40 feet down). Also bring insect repellent as mosquitoes may be bad. Trip difficulty is rated as moderate – mostly level ground and two-track walking with short forays into slightly swampy ground. Leader will meet the group at the hotel.

Trip Leader Biography: Tyler Bassett earned a B.S. in Biology from Western Michigan University in 2000, where he developed a deep love of the plants and plant communities of southwest Michigan. Since then, he has continued to cultivate his skills as a botanist and ecologist, informing conservation of and management of natural habitats through work with the Kalamazoo Nature Center, Michigan Natural Features Inventory, and ecological restoration firm, Native Connections. He is currently a PhD Candidate at Michigan State University in the Department of Plant Biology and at the Kellogg Biological Station. He studies the conservation and restoration of native plant species, and how they support the functioning of ecosystems and the services they provide to humans.

Pretty Lake Trip -- Aquatic Plants and Sandy Lakeshore Community

Texas Twp., Kalamazoo County

Saturday MORNING – Leader: Garrett E. Crow

Limit: 15

(Can easily be combined with nearby Paw Paw Prairie Fen Afternoon Trip)

Pretty Lake, a “kettle-hole” lake with a sandy lake bottom, surrounded by glacial till and lacking inflow/outflow, is an interesting aquatic habitat where the lake level fluctuations through the summer reflect precipitation events. In this respect, it is similar to the Coastal Plain ponds of the Atlantic and Gulf coasts. Typically by late summer—fortunately for us—water levels are at their lowest, with a greater amount of sandy shoreline exposed, revealing a number of plants with affinities of the flora of the Atlantic Coastal Plain ponds and shores. Plants we might encounter include: *Sagittaria rigida* (Stiff Arrowhead), *Sagittaria cristata* (Crested Arrowhead), *Najas flexilis* (Slender Naiad), *Potamogeton gramineus* (Pondweed), and *Utricularia resupinata* (Small Purple Bladderwort) in

shallow water; and on shore, *Schenoplectus pungens* (Threesquare), *Euthamia graminifolia* (Grass-leaved Goldenrod), *Cladium mariscoides* (Twig-rush), *Juncus canadensis* (Canadian Rush), *Juncus brevicaudatus* (Rush), *Epilobium coloratum* (Cinnamon Willow-herb), *Lycopus americanus* (Common Water Horehound), *Eleocharis palustris* (Spike-rush), *Eleocharis compressa* (Flattened Spikerush), *Euthamia caroliniana* (Slender Goldentop), and *Stachys hyssopifolia* (Hyssop Hedge Nettle).

Terrain is flat and it’ll be easy walking in shallow water and along the sandy shore; knee-high boots or hip boots, or old sneakers and pants that can get wet are recommended. Leader will meet the group at the hotel.

Bring your box lunch, as there is a good place to eat lunch at our shaded parking area. For those who would like to combine this trip with the **Paw Paw Prairie Fen**, that site is only a short distance away (3 mi.)—and Garrett Crow will be joining Scott Namestnik to continue botanizing this interesting fen wetland.

Directions from Pretty Lake to Paw Paw Prairie Fen: W. Q Ave. westward ca. 2 mi.; turn left on VanKal Ave. to intersection with W. S Ave. (parking area for Paw Paw Prairie Fen Preserve immediately on right (west) at the intersection

Trip Leader Biography: Garrett Crow is a retired botanist who received his MS and PhD at Michigan State University, then taught 33 years at the University of New Hampshire as Professor of Botany and Director of the UNH Herbarium. He has had a long interest in aquatic and wetland plants, with his master’s thesis a floristic, ecological and phytogeographical analysis of Pennfield Bog, Calhoun Co., Michigan. He is co-author (with C. Barre Hellquist) of *Aquatic and Wetland Plants of Northeastern North America* (2 vols., well-illustrated, with user-friendly keys, corrected paperback edition 2006), and *Plantas acuáticas del Parque Nacional Palo Verde y Valle Tempisque, Costa Rica* (a bilingual field guide, 2002), as well as various other botanical publications.

Marc’s Marsh Preserve Field Trip – Fen

Comstock Twp., Kalamazoo County

Saturday MORNING – Leader: Scott Namestnik

Limit: 11

Marc’s Marsh Preserve consists of a wildflower-filled fen wetland fed by alkaline groundwater on the south side of Lyon’s Lake. The preserve was donated to Southwest Michigan Land Conservancy (SWMLC) in 1999. SWMLC management of the fen since that time has included controlling invasive shrubs and hybrid cattails (*Typha x glauca*), conducting prescribed burns, and successfully introducing

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purple loosestrife (*Lythrum salicaria*) biological control beetles (*Galerucella* spp.) to reduce the population size of this invasive species. We should be visiting the fen at the time of year when wildflowers are at their peak. Expect to see swamp thistle (*Cirsium muticum*), marsh blazing-star (*Liatris spicata*), Kalm's lobelia (*Lobelia kalmia*), and various goldenrods (*Solidago* spp.) and asters (*Symphotrichum* spp.). A nice Spotted Turtle population exists on the preserve. Boots that can get wet (preferably rubber knee boots) are recommended for this half-day trip. This is a small site and will not require much walking, but the surface is uneven. The trip will be of easy to moderate difficulty.

Leader will meet the group at the hotel. Because parking is quite limited at this site, **carpooling will be required.**

Trip Leader Biography:

Scott Namestnik is a Botanist at Orbis Environmental Consulting with over 17 years of experience managing projects and conducting floristic inventories, plant community mapping, quantitative flora surveys, invasive species surveys and mapping, and plant species of concern surveys and mapping in the Great Lakes and Midwest states. He also is experienced with setting up and conducting mitigation wetland monitoring projects and has conducted numerous aquatic plant surveys. Another aspect of Scott's services is providing plant identification training workshops. In addition to his experience focused on the flora, Scott also conducts wetland delineations and other site assessments, and he participates in avian and other wildlife surveys. Scott also prepares natural area management plans and provides other technical writing services. Prior to co-founding Orbis in 2014, Scott held a Senior Project Scientist position with Cardno JFNew and a joint seasonal field botanist position with the Missouri Department of Conservation and The Nature Conservancy. He has a degree in Botany with a focus in Environmental Science, and is recognized for his expertise in Midwestern/Great Lakes terrestrial and aquatic vascular plants, and his written work on the flora has appeared in several peer-reviewed journals including *The Michigan Botanist*, *Phytoneuron*, *Proceedings of the Indiana Academy of Science* and *Rhodora*. Scott has also presented research on various topics at numerous conferences. He currently serves as a board member for the Indiana Native Plant and Wildflower Society – North Chapter and the South Bend-Elkhart Audubon Society, and he is active with the Indiana Academy of Science, serving as a member of the Biodiversity and Natural Areas Committee and as the Chair of the Plant Systematics and Biodiversity section.

Mushroom Field Trip -- Michigan State University's Kellogg Forest, Augusta, MI

Ross Twp., Kalamazoo County

Saturday MORNING – Leader: Paul Olexia

Limit: 14

The Kellogg Forest provides a variety of habitats, which potentially increases the diversity of fungi that may be found. However, fluctuations in rainfall (among other things) are important in the production of fruiting bodies of mushrooms. Therefore we will not know until we get there what we might find. If time permits we will attempt to explore both deciduous and coniferous forest areas since the fungi can differ between the two. In particular, members of the Pinaceae require certain basidiomycetes (typical mushrooms) as mycorrhizal associates while many deciduous trees (with the notable exception of oaks) have other types of fungi as their mutualists. Because of differences in the composition of the wood, wood-decay fungi may vary between the habitats as well. Bring hand lens and mushroom field guide. Walking will be easy to moderate. No special footwear should be required. The leader will meet the group at the hotel.

Trip Leader Biography:

Paul Olexia is retired from the Biology Dept. at Kalamazoo College. Since retiring he has volunteered extensively for the Southwest Michigan Land Conservancy and more recently has been involved with the Kalamazoo Area Wild Ones. He has on many occasions led informative and entertaining mushroom field trips for the local chapter of MBC and Spring Forays. Paul's trips are noted both for his knowledge of and enthusiasm for fungi.

Phillips Family Memorial Nature Sanctuary – Coastal Plain Marsh

Hamilton Twp., Van Buren County

Saturday AFTERNOON -- Leader: Charlie Goodrich

Limit: 12

The Phillips Family Memorial Nature Sanctuary in Van Buren County is one of three sanctuaries owned and protected by the Michigan Nature Association (MNA) that contain a coastal plain marsh community. This Sanctuary, formerly known as the Hamilton Township Coastal Plain Marsh Sanctuary, is an 80-acre woodland that encloses the coastal plain marsh. Coastal plain marsh communities contain numerous species disjunct

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from their usual range in the Atlantic and Gulf coastal plains. Coastal plain marshes undergo both seasonally and yearly water level fluctuations, which makes it difficult to predict what plants we will see. Some characteristic plants found here are meadow beauty, yellow-eyed grass, slender goldentop, seed box, tall beakrush, cross-leaved milkwort, black-fruited spike-rush and nut-rush. In the recently published *A Field Guide to the Natural Communities of Michigan* (© 2015 by MNFI), this site is identified as one of the best places in Michigan to see a coastal plain marsh community. Trip difficulty level is rated easy to moderate on single-file trail. Knee-high rubber boots or shoes that can get wet are recommended. Insect repellent also recommended.

Charlie will meet the group at the site. Location: Behind Hamilton Township Grange Hall, 84040 CR-215N, Decatur, MI 49045. Parking is ample. (Additional tour of historic Hamilton Grange Hall available upon request.)

Trip Leader Biography: Charles Goodrich lives in Hamilton Township, Van Buren County, on the farm where he grew up. Now retired, Charlie worked as a farmer, logger, plumber, carpenter, toolmaker and foundry patternmaker at various times during his lifetime.

In 2000 his passion for nature and conservation led him to become a member of Michigan Nature Association and volunteer steward of Hamilton Township Coastal Plain Nature Sanctuary, now known as Phillips Family Memorial Nature Sanctuary. At that time the sanctuary was undeveloped, and Charlie established the network of trails. MNA has honored him as Volunteer of the Year in 2010 and Melvin and Mason Schaffer Award for distinguished service in 2015. He has also been active in community service and was involved with the restoration of the Hamilton Township Grange Hall. He serves as township trustee, zoning administrator and recently was appointed "Commissioner of Noxious Weeds."

Paw Paw Prairie Fen Preserve Field Trip

Texas Twp., Kalamazoo County

Saturday AFTERNOON – Leaders: Scott Namestnik & Garrett E. Crow

Limit: 15

Paw Paw Prairie Fen is a 106-acre preserve owned by The Nature Conservancy located in Van Buren County. The preserve contains several plant communities, including areas that are being restored to native vegetation, but the area of most interest is an intact prairie fen within which over 200 vascular plant species and several Michigan threatened and endangered species

have been documented. We can expect to see big bluestem (*Andropogon gerardii*), numerous sedges (*Carex* spp.), twig rush (*Cladium mariscoides*), shrubby cinquefoil (*Dasiphora fruticosa*), beaked spikerush (*Eleocharis rostellata*), small fringed gentian (*Gentianopsis virgata*), marsh blazing star (*Liatris spicata*), bog lobelia (*Lobelia kalmii*), marsh wild timothy (*Muhlenbergia glomerata*), Ohio goldenrod (*Oligoneuron ohioense*), Riddell's goldenrod (*Oligoneuron riddellii*), grass of Parnassus (*Parnassia glauca*), swamp betony (*Pedicularis lanceolata*), Indian grass (*Sorghastrum nutans*), prairie dropseed (*Sporobolus heterolepis*), various asters (*Symphyotrichum* spp.), false asphodel (*Triantha glutinosa*), and poison sumac (*Toxicodendron vernix*) as we hike through the hummocky vegetation. Terrain along the trail is generally flat, but walking can be somewhat difficult, especially since no designated trails are present in the fen. In addition, eastern massasauga rattlesnakes are regularly encountered in the fen and surrounding areas. Good hiking boots (or preferably rubber knee boots) are recommended for this trip. You may also wish to bring a hiking pole. Leaders will meet group at the site.

Trip Leader Biographies:

Garrett Crow – Please see Pretty Lake Trip (Saturday Morning) for biography.

Scott Namestnik – Please see Marc's Marsh Preserve Trip (Saturday Morning) for biography.

Sand Creek Preserve Trip – Prairie Restoration Ecology Research

Alamo Twp., Kalamazoo County

Saturday AFTERNOON – Leaders: Emily Grman, Chad Zirbel, & Russ Schipper

Limit: 15

The 115-acre Sand Creek Preserve, located in northwest Kalamazoo County, was donated to the Southwest Michigan Land Conservancy in 2003. The preserve has a mix of communities ranging from northern mixed swamp forest to dry old field. Much of the Preserve had been disturbed, however the old field supports the State Threatened blue curls (*Trichostema dichotomum*). The focus of our trip will be on the 55-acre prairie planting.

Prior to restoration, the area was row crops for as long as can be determined. Planted as prairie in 2004, it has a range of dry sandy loam to wet rich soils within a shallow gradient. Of the 85 planted species, 10 grasses and 75 forbs, 76 have bloomed. This planting has been noted for its diversity and relatively low impact of non-native species.

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While the prairie planting is botanically interesting, we will also discuss some ecological research on the assembly of restored prairie plant communities that has been conducted on the site. The practice of prairie restoration is widespread and many techniques for assisting the development of diverse plant communities are successful. However, prairie restorations do not always turn out as planned. Our research at prairies in southwest Michigan, including at Sand Creek, has shown that some species establish more consistently than others. While the species that are sown most often tend to be the species that successfully establish most often, this is not always the case. For example, *Silphium perfoliatum*, *Arnoglossum atriplicifolium*, and *Brickellia eupatorioides* established more than 80% of the time but were included in less than 1/3 of seed mixes. Conversely, *Coreopsis lanceolata*, *Dalea purpurea*, and *Symplocarpos oolentangiense* were sown often (into more than 2/3 of the sites) but established poorly (in less than 20% of sites). Some features of restoration sites also affect the outcome of restoration. In particular, sites restored directly from tillage agriculture appear to have far fewer C₃ grasses such as *Poa pratensis* and *Bromus inermis* than sites with a recent history of pasture, old field, or hayfield. Within the Sand Creek Preserve, we have studied two different plantings, a “dry” and a “mesic” area, which differ greatly in environmental conditions, seed mixes, and outcomes.

The terrain is essentially flat, though the vegetation may be dense. Vegetation may also be wet from residual dew. The walk will be less than a mile. Difficulty level – easy. Leaders will meet group at hotel.

Trip Leader Biographies: **Emily Grman** first got interested in prairie restoration during a summer internship with a local conservation district while a college student and has pursued study of the ecology of plant communities since. She has conducted research on seed production in a rare prairie milkweed (Mead’s milkweed), plant interactions with mycorrhizal fungi, the development of diverse prairie plant communities during restoration, and related topics. She received her B.S. in Biology from Beloit College in 2003 and her Ph.D. in Plant Biology and Ecology, Evolutionary Biology, and Behavior from Michigan State University in 2011. She then conducted postdoctoral research with Lars Brudvig at MSU on prairie restorations. She is currently an assistant professor of biology at Eastern Michigan University where she teaches courses in ecology and restoration. Her research focuses on the ecology of plant-mycorrhizal relationships in restored prairies.

Chad Zirbel was first introduced to restoration volunteering with a monastery in Madison, WI working on their prairie restorations. He has also worked on woodland restoration at the Chicago Botanic Garden, sea turtle habitat restoration in the Florida Keys, and wetland restoration in the Everglades. He received his B.S. in conservation biology, geography, and

environmental studies from the University of Wisconsin-Madison in 2012. He is currently a 4th year PhD student in the Plant Biology department at Michigan State working with Lars Brudvig. His research focuses on using plant functional traits (characteristics of species which tell us how they interact with their environment) to create more predictable restoration outcomes in terms of species composition and the ecosystem function/services restored prairies provide.

Russ Schipper is an intermediate level botanist with no formal training. He is a birder who, following hearing loss, has largely switched to botany. He has served on the board of the Southwest Michigan Land Conservancy and has currently returned on the board of the Audubon Society of Kalamazoo. As a birder, for several years Russ compiled and organized the annual Christmas Bird Counts and the North American Migration Count for Michigan. His greatest “birding” joy now is giving bird programs to elementary school classrooms. Currently he is spending much of his time photographing plants for the Michigan Flora website. Following the prairie planting at Sand Creek in 2004, Russ spent a good deal of time monitoring what was growing there.

SUNDAY September 4

Representative & Unique Coastal Plain Marshes in the Allegan State Game Area

ASGA #3: Sunday ALL DAY -- Leader: Mike Penskar

Limit: 15

Allegan State Game Area, which comprises more than 50,000 acres, is located in an oak and pine dominated sandy lakeplain ecosystem in west-central Allegan County not far from the shore of Lake Michigan. Within this ecosystem are pockets of very special wetlands -- coastal plain marshes. The purpose of this trip is to visit diverse examples of these coastal plain marshes and learn about: 1) the typical landscape setting and ecology of coastal plain marshes and 2) to observe and learn about their unique flora, including many common and rare plant taxa known in this rare natural community of Michigan. As defined in the Michigan Natural Features Inventory’s *A Field Guide to the Natural Communities of Michigan*, “Coastal Plain Marsh is a graminoid-, shrub-, and herb-dominated wetland that contains numerous plant species disjunct from their primary ranges in the Atlantic and Gulf coastal plains.... Coastal plain marsh is characterized by fluctuating water levels that can vary significantly both seasonally and interannually.” This MNFI book identifies the ASGA as one of the best places in the state to see coastal plain marshes.

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The trip will be moderately difficult, including hiking on generally level to moderate rolling terrain. With anticipated sloggng through wetlands, we may encounter ankle-level to slightly higher standing water. In addition to appropriate footwear, you may wish to bring a hiking pole. The leader will meet the group at the hotel.

Trip Leader Biography: Mike Penskar is Senior Conservation Scientist Emeritus (MSU Extension), formerly with Michigan Natural Features Inventory where he served as the Program/Lead Botanist for 26 years. During his stint with MNFI, Mike conducted ecological and botanical inventories in nearly all of Michigan's natural community types, developed and maintained the statewide database for the more than 400 listed special plant species (taxa classified as Extirpated, Endangered, Threatened, or Special Concern), served on the state Technical Committee as the liaison for three state Biennial Reviews, authored or co-authored four Federal Recovery Plans for federally listed species, and took part in numerous natural area inventories, rare plant status surveys and monitoring, and a diversity of research projects through federal, state, local and private funding, notable examples of which include the inventory and sampling of Great Lakes marsh (statewide), bedrock shorelines including the international alvar project (statewide), Great Lakes coastal dunes (statewide), lakeplain prairie (statewide), prairie fens (statewide), coastal forested dune and swale complexes, southern Michigan floodplain forests, and Great Lakes islands (selected archipelagos). Mike is currently an Assistant Research Associate at the University of Michigan Herbarium.

Allegan State Game Area – Bog, Oak-Pine Barrens, Hardwood-Conifer Swamp

ASGA #4: Sunday ALL DAY -- Leaders: Bill Martinus & Leon "Chip" Schaddelee

Limit: 9

Note: This is a Strenuous Trip.

This trip will visit the following **sites that represent three MNFI natural communities: Bog, Oak-Pine Barrens, Hardwood-Conifer Swamp** (all within a mile of each other). **Leaders will meet the group at the first site.**

Miner Lake Bog: a southern relict floating sphagnum bog

Bog can be quite wet depending on recent precipitation, and water may be nearly up to our knees. Old tie-on shoes or knee-boots will probably work best. There will be poison sumac, ticks, mosquitoes, dirty bog water, muck, sphagnum, and

orchids. There might be stinging bog wasp nests, rattlesnakes, and leeches. There will not be quicksand at this location. In spite of the hazards, we all have had great times on many past excursions.

Plants to experience at this bog: Carnivorous pitcher plant, sundews, and bladderworts. Orchids, tamaracks, and numerous other bog plants including State Threatened *Bartonia paniculata* (Panicked Screw-stem), if we are lucky to spot it.

Schaddelee Oak-Pine Barrens

Eat lunch, and look around for Oak-Pine Barrens specialties and experience this unique MNFI described Natural Community. This is the location where Leon Schaddelee conducted a site analysis in 1975. At that time the ecosystem was called "Pine Plains."

Hardwood-Conifer Swamp: A classic Hardwood-Conifer Swamp within the greater Kalamazoo River Floodplain

Great muck pools, springs, streamlets, and hummocks to explore (same footwear as above, but boots can get sucked off). We will see two Michigan State-Listed Species, *Berula erecta* (Water Parsnip) and *Conioselinum chinense* (Hemlock-Parsley), and possibly some of the 14 species of orchids which occur here. (20 orchid species occur in this bog and swamp.) This swamp has plentiful ferns – nine species in all -- and numerous other floodplain species. 18 tree species occur here.

Trip Leader Biographies:

William Martinus

- B. A., Art, Education, Natural Sciences, Calvin College, Grand Rapids, Michigan; M.S. from Grand Valley University
- Taught in public and private schools for 30 years.
- Michigan Botanical Society: formerly served on Board of Directors
- Conducts Natural Features Inventories: National Parks, local parks and preserves

Leon Schaddelee

- B.A., Calvin College, Grand Rapids, MI; M.S. from Michigan State University
- Taught in public and private schools for 30 years.

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- 1980-90s: field worker for Michigan Natural Features Inventory -- traveling around state of MI tracking down historical records for rare plant species and inventorying; field worker for The Nature Conservancy -- inventorying preserves and potential preserves
- 1989: field worker for Michigan Natural Features Inventory; plant inventories for Allegan State Game Area
- ASGA paper: *Site Analysis and Interpretive Development of the Allegan Pine Plains Ecosystem*
- Conducts Natural Features Inventories: National Parks, local parks and preserves

A Tour of Allegan's Variety: See what those other trips won't show you!

ASGA #5: Sunday ALL DAY -- Leader: Jesse Lincoln

Limit: 20

Come explore three interesting sites in Allegan, the Queen of the Game Areas. The **first site** we will visit is a **wet-mesic sand prairie**. This is a diverse, graminoid-dominated system that has elements of both prairie and coastal plain marsh. The 10-acre site is packed with diversity. The grasses, such as, *Panicum virgatum*, *Schizachyrium scoparium*, *Andropogon gerardii*, as well as *Pycnanthemum verticillatum* and *Rhexia mariana*, will be on full display so you don't want to miss that. There is also an on-going restoration project here and an interesting interface between the adjacent uplands that has a bit of oak-pine barrens flavor. This prairie appears to be largely untilled (though it was likely hayed) and it is one of my favorite places in Allegan.

The **second site** is a fairly **unusual forest that has elements of northern and southern systems; as well as dry and mesic tendencies**. The trees are very tall, the diversity is locally quite nice and there is a notable absence of invasive species. This one will challenge your botany skills the same way the other two areas will, but it is a place that I have always had a difficult time classifying, in terms of natural community type. It is one of the few forests where I have found tulip tree, white pine, red and sugar maple, as well as all of the usual oaks. Considering the surrounding landscape of Allegan SGA, this is a relatively unusual spot and certainly worth a look.

The **third site** is an **oak-pine barrens/dry sand prairie mix within a forested matrix**. Fire, drought, and a frost pocket have conspired to maintain this as an open system in the face of protracted, landscape-level fire suppression. Again, this is an untilled system and the graminoid diversity is quite interesting. In addition to the warm-season grasses, such as *Schizachyrium scoparium* and *Piptochaetium avenaceum* that will be putting on a great show, we will see many *Dichanthelium* spp., *Tephrosia*

virginiana, plus there are some spectacular ant mounds throughout this area. Further, the Game Area managers have thinned the surrounding forest and included the barrens and adjacent forest in a prescribed burn in order to allow the open grassland system to regain some turf from the encroaching forest. Hopefully we will be able to identify some barrens species making a comeback in the formerly forested habitat. There will be plenty to see and contemplate.

We will not be walking more than a combined 3 miles. There will be no wetlands but the walking will be a bit difficult for the second and third locations (fallen trees, occasional shrubs). I recommend closed-toe shoes and long pants as the dewberry can be a bit cantankerous. There are no trails and it may not be easy to hear every word but I promise to repeat myself and try to answer every question. I expect about 1.5 hours at each site, depending on how everybody is feeling. It will be a long but rewarding day that showcases a wide range of systems that make Allegan special. This will be an excellent adventure.

Jesse will meet the group at the first site -- which is located at the NE corner of 132nd Ave. and 41st St. on the northeastern edge of the ASGA.

Trip Leader Biography: Jesse Lincoln completed his MS in Plant Biology at Grand Valley State University in 2012. He lives in Grand Rapids with his special buddy Kelly, their son Wyatt, and dog Milo. He has worked as an ecologist for Michigan Natural Features Inventory since 2010. He has spent most of his time conducting extensive vegetation mapping surveys and documenting important natural areas within state game areas across the southern portion of Michigan. His two field seasons in ASGA have led him to some unique and special areas and he is excited to share them.

Portman Nature Preserve: A Glimpse at the Historical Landscape of Southwestern Michigan

Almena Twp., Van Buren County

Sunday MORNING -- Leader: Tyler Bassett

Limit: 20

The Portman Nature Preserve in the rolling topography of eastern Van Buren County provides a window into the historical landscape of southwestern Michigan. About to become a Southwest Michigan Land Conservancy preserve, this 190-acre parcel occurs in an area of active groundwater discharge along the western edge of the Kalamazoo moraine, and boasts multiple upland and wetland natural communities. Importantly, this property protects a patchwork of these communities -- oak savanna and woodland, hardwood swamp, shrub swamp, and

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prairie fen – that demonstrates how the communities historically interacted across the landscape. A 2008 survey documented 446 plant species (8 State-listed), including savanna specialists like leadplant, false boneset, and prairie alum root; and prairie fen specialists like marsh blazing star, fringed gentian, and tuberous Indian plantain. We'll sample each of these communities and see what part topography, groundwater and soils affect the plant communities on the property. Bring sturdy footwear (hiking boots are fine – we won't venture too far into the prairie fen), and insect repellent – mosquitoes may be bad. Trip difficulty level is rated moderate. There are some hills and only rough trails. Trip leader will meet the group at the hotel.

Trip Leader Biography: Tyler Bassett: For Tyler's biography please see the Saturday All Day trip -- Southwestern Michigan's Identity Crisis: "Northern" Tree Communities in Southern Michigan (ASGA #2).

West Lake Nature Preserve — Bog Trip

Portage, Kalamazoo County

Sunday MORNING – Leader: Garrett E. Crow

Limit: 15

Bogs are always interesting habitats, especially since they harbor many "acid-loving" plants. They are also unique in that the habitat consists of a floating mat of vegetation extending from the margin of a lake or pond. The substrate is peat, consisting of partially decayed sphagnum, a moss which is the acidifying agent. Among the most interesting denizens of a bog are its carnivorous plants. Perhaps the most well-known carnivore is the Pitcher Plant (*Sarracenia purpurea*), but the insectivorous Sundews (*Drosera rotundifolia* and *D. intermedia*) are also common growing in the sphagnum. Typically various species of Bladderworts (such as *Utricularia cornuta*, *U. vulgaris*, *U. intermedia*), bearing specialized traps on the submersed portions, are present. Other typical bog plants include Tamarack (*Larix laricina*), Leatherleaf (*Chamaedaphne calyculata*), Bog Rosemary (*Andromeda glaucophylla*), Highbush Blueberry (*Vaccinium corymbosum*), Cranberry (*Vaccinium macrocarpon*, *V. oxycoccos*), Tawny Cottongrass (*Eriophorum virginicum*), Spike-rush (*Rhynchospora alba*), Beak-rush (*Cladium mariscoides*), and various sedges (*Carex lasiocarpa*, and others), Marsh Fern (*Thelypteris palustris*), and Virginia Chain Fern (*Woodwardia virginiana*).

Because the bog is within a Preserve, we will be accessing the bog by hiking along the boardwalk trail loop; shoes that can get wet are recommended. We should be able to see quite a bit from the boardwalk. Unfortunately we were not able to gain permission to walk directly on the bog mat—which is quite an

experience (if you can imagine walking on a bed mattress acres in size).

Leader will meet group at hotel.

Trip Leader Biography: Garrett Crow -- Please see Pretty Lake Trip (Saturday Morning) for biography.

Meta Gastineau Habitat Preserve -- Climbing Fern

Almena Twp., Van Buren County

Sunday AFTERNOON & Monday MORNING -- Leader: Jim Krause

Limit: 12

We will visit a 32-acre private property habitat preserve comprised of multiple minimally disturbed habitats including hardwood swamp, shrub-carr, dry black oak forest, and moist beech/maple forest. There are also several acres of tallgrass prairie and savanna micro-recreations. Purchased in 2006, this property was heavily disturbed near the homesite and largely untouched in the remaining forest and swamps. It is both very dry and very wet depending on the location within the property and this lends to the wide diversity of habitat and life forms found here. Highlight of the trip will be seeing the only currently known location of *Lygodium palmatum* (Climbing Fern) in Michigan. [*The Michigan Botanist*, Volume 51 (3)] Additional naturally occurring plant and animal species of note include: acres of unbroken *Diphasiastrum* (club moss); large populations of wood betony, green dragon, swamp saxifrage; mature stands of swamp white oak; orchids, including *Goodyera* and *Spiranthes*; nesting Red-shouldered Hawks (State Threatened); Box Turtles (State Special Concern), Spotted Turtle (State Threatened), and many other habitat dependent reptiles, amphibians, birds, and mammals. The walk will be easy and about a mile. But there may be some muddy spots and mosquitos. Please wear boots or shoes that can get wet and bring insect repellent.

Leader will meet group at site. Location: Meta Gastineau Habitat Preserve, 29312 40th Ave, Paw Paw, MI 49079. This preserve is located about 13 miles west of the hotel. Driving time from the hotel is usually less than 15 minutes. The preserve is also roughly 7 miles north of the I-94 interchange at Mattawan. Driving time to the interchange is about 10 minutes.

Trip Leader Biography: Jim Krause is a registered nurse working in Kalamazoo. Botany and, more broadly, natural history is his passion. Managing, documenting, and preserving their 32-acre property is his life's work. Management has included removing 1000s of pounds of invasive olive, honeysuckle, knapweed, etc. since 2006. At the same time 100s of pounds of native seed and 10,000s of home grown native grass and forb plugs have been planted on the disturbed sections

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of the property. At this time woody invasive species and knapweed make up <5% of the local flora on this property at any given time. Garlic mustard has no population here.

In 2012 Jim discovered a large colony of the State Endangered *Lygodium palmatum* growing here and documented it in an issue of *The Michigan Botanist* [Volume 51 (3)] as well as donating a specimen to the Herbarium of the University of Michigan. This site is the only currently known occurrence of Climbing Fern in the state. Further documenting of this property includes over 500 reptile and amphibian sightings with the Michigan Herp Atlas and numerous Michigan Natural Features Inventory vouchers, including successive successful nests of a resident State Threatened Red-shouldered Hawk pair. Jim maintains a personal herbarium comprised solely of the plants found on the property with the intent of donating it to an institution upon his death.

All of this is done with the purpose of keeping this unique sliver of land intact for the foreseeable future and beyond.

Seeing the Forest for the Trees: WMU Campus Woody Plants

Kalamazoo

Sunday AFTERNOON – Leader: Todd Barkman

Limit: 20

We will visit woody plants on the Western Michigan University campus to see a wide diversity of species including oaks, hickories, hackberries, birches and more. Emphasis will be placed on key characters that distinguish one species from another as well as the influence the environment can have on woody plant morphology. Most of the trip will occur on dry flat ground or gently rolling hills. Difficulty level: low to moderate. Leader will meet group at hotel.

Trip Leader Biography:

Todd Barkman has been a professor at WMU for 15 years, where he has taught botany and plant identification. He began his education at MSU where he received his BS in Botany in 1990 and MS in Botany in 1993. He earned his PhD in Botany at the University of Texas in 1998 and then spent two years doing research at Pennsylvania State University before coming to WMU. Todd's research focuses on the use of DNA to understand the relatedness of plants as well as how they have evolved the traits they currently possess. Todd has also taught the summer Plant Systematics course at Michigan State's Kellogg Biological Station. Since 2000, he has served as 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 extraordinary amateur botanists who published the *Flora of Kalamazoo County* in 1947. Todd served as the Editor of *The Michigan Botanist* from 2006 to 2014.

Rare Species of Western Kalamazoo County: Hiding in Plain Sight?

Sunday AFTERNOON – Leader: Tyler Bassett

Limit: 12

This trip will offer a rolling tour of a few sites in western Kalamazoo County, highlighting a few interesting rare or uncommon plant species found there. For example, Missouri gooseberry (*Ribes missouriense*), known from only two counties and possibly adventive in Michigan, is very similar to the common prickly gooseberry and may be overlooked in other counties. Other examples are lesser ladies-tresses (*Spiranthes ovalis*) and blue curls (*Trichostema dichotomum*), which are two State-threatened species that thrive in disturbed sandy soil and may likewise be overlooked due to their occurrence in apparently low quality sites. We will make several short site visits to see these and other rare and interesting "leader's-choice" plants. This will be an easy trip. Leader will meet the group at the hotel.

Trip Leader Biography: Tyler Bassett: For Tyler's biography please see the Saturday All Day trip -- Southwestern Michigan's Identity Crisis: "Northern" Tree Communities in Southern Michigan (ASGA #2).

MONDAY September 5

Hidden Savanna Nursery & Grounds

Oshtemo Twp., Kalamazoo County

Monday MORNING -- Leader: Chad Hughson

Limit: 20

Set in what was **Oak Savanna** in pre-settlement times, the 33-acre farm is now, for the most part, an actively managed oak savanna/dry prairie restoration. The terrain and sandy soil set the stage for its previous use as a Christmas tree plantation. Now recovering, there are over 100 indigenous species on the property, plus over 75 introduced native species. Some of the species that we should see are the State Threatened Blue Curls (*Trichostema dichotomum*), Black Oatgrass (*Stipa avenacea*), Sand Dropseed (*Sporobolus cryptandrus*), Sand Evening Primrose (*Oenothera clelandii*), False Foxgloves (*Aureolaria flava* & *Aureolaria pedicularia*), Sand Milkweed (*Asclepias*

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MBC 2016 Foray: September 2-5, 2016 (Continued)

amplexicaulis), Stiff Tick Trefoil (*Desmodium obtusum*), Canada Frostweed (*Helianthemum canadense*), Hairy Puccoon (*Lithospermum carolinense*), and Dwarf Chinkapin Oak (*Quercus prinoides*).

While the greenhouses will be empty and idle, the outdoor nursery should still be well stocked. We will briefly tour the facilities and discuss the trials and tribulations of running a native plant nursery.

Please note that the nursery will be set up for its late summer/fall retail season and plants will be available for purchase following the trip. If you'd like more information, you may want to check the nursery's website: www.hiddensavanna.com

This will be easy, level walking, but sandals are not recommended as Dewberry (*Rubus flagellaris*) and Sandbur (*Cenchrus longispinus*) are resident species along the trails.

Leader will meet the group at the site. **Location:** 100 N. Van Kal Ave. (east side of road), about ¼ mile south of M-43. Signs will be placed on Van Kal Ave at the entrance to the driveway. This site is about a 10-minute drive from the hotel and is located about 6 miles west of the US-131 & M-43 interchange.

Trip Leader Biography: Chad Hughson graduated from Michigan Technological University with a BS in Chemical Engineering, and spent ten years traveling around the country in the IT industry. He spent his childhood living adjacent to the Gourdneck State Game Area and the West Lake Nature Preserve, both in Portage, Michigan. His childhood passion was herpetology, but after college his interests changed to ecology, restoration, and native landscaping. Chad started propagating natives in 1998, he and his wife Kristin bought the farm property in 2000, and they established the nursery in 2008.

Gourdneck State Game Area -- Is this the Future? Conservation in the Urban Context

Portage, Kalamazoo County

Monday MORNING – Leader: Tyler Bassett

Limit: 20

The 3,000-acre Gourdneck State Game Area is firmly situated within the Kalamazoo/Portage metropolitan area, with a population of more than 300,000 people. We will explore the ground zero of balancing conservation of intact natural communities with maximizing access to nature for a variety of uses. On this trip, we will focus on an oak barrens that grades into an adjacent streamside fen. This area is managed as a powerline corridor, which maintains the open conditions

necessary for many dry prairie and savanna species to thrive, such as little bluestem, false foxglove, American columbo, pinweed, frostweed, and several asters and goldenrods. Trip difficulty is rated as easy to moderate.

Leader will meet the group at the hotel. The unit of Gourdneck State Game Area that we will visit is located just east of the US-131 & Centre Ave. interchange, about 6 miles south of the hotel and about 2.5 miles south of I-94.

Trip Leader Biography: Tyler Bassett: For Tyler's biography please see the Saturday All Day trip -- Southwestern Michigan's Identity Crisis: "Northern" Tree Communities in Southern Michigan (ASGA #2).

Meta Gastineau Habitat Preserve -- Climbing Fern

Almena Twp., Van Buren County

Monday MORNING (& Sunday AFTERNOON) -- Leader: Jim Krause

Limit: 12

For trip description and trip leader biography see Sunday Afternoon entry for this trip.

Leader will meet group at site. Location: Meta Gastineau Habitat Preserve, 29312 40th Ave, Paw Paw, MI 49079. This preserve is located about 13 miles west of the hotel. Driving time from the hotel is usually less than 15 minutes. The preserve is also roughly 7 miles north of the I-94 interchange at Mattawan. Driving time to the interchange is about 10 minutes.

The 2017 Foray Preview.

We've not even had the 2016 Foray, but are already planning for 2017 and, back by popular demand, we are working on holding the Foray on the Memorial Day weekend in St. Ignace again. It is a beautiful area, that says "Michigan" clearly to so many people, and we are building a roster of talks and trips. More details to come!

MBC Report of the Nominating Committee

In accordance with the Michigan Botanical Club Constitution, Article VI (see below), nominations for the Slate of Officers were submitted to the Board of Directors for certification before May 30. The Board duly certified the Slate of Officers at the April 30, 2016 State Board meeting at Hidden Lake Gardens, Tipton, Michigan. The Slate of Officers is hereby published in this issue of *Arisaema*. If no further nomination petitions have been received by the Chair of the Nominating Committee by September 1, the nominated Slate of Officers are declared elected.

The following nominated Slate of Officers have agreed to serve the term beginning January 1, 2017 through December 31, 2018.

President:	Garrett Crow, Southwestern Chapter
Vice President:	Dan Skean, Great Lakes Chapter
Recording Secretary:	Jim Hewitt, Great Lakes Chapter
Treasurer:	Robert Kelly, Huron Valley Chapter
Corresponding Secretary:	Sheila Bourgoin, Huron Valley Chapter

We would like to thank these dedicated members for their willingness to serve.

Respectfully submitted,

—Sarah Nooden, Chair & Huron Valley Chapter Director-at-Large,

██████████ ██████████

—Craig Elston, White Pine Chapter Director-at-Large

—Tyler Bassett, Southwestern Chapter, President

—Brad Slaughter, non-board member, Great Lakes Chapter

—Judy Kelly, Michigan Botanical Club President

Brief biographies follow after Article VI.

ARTICLE VI – ELECTION AND TERMS OF OFFICERS AND DIRECTORS-AT-LARGE

6.1 A. The officers are elected biennially by the membership.

B. Each Chapter appoints one Director-at-Large every year. The term of office for the Directors-at-Large is three years.

6.2 On or before February 1 of alternate years, the President appoints a Nominating Committee of at least three active members, of whom at least one must not be a member of the Board of Directors. This committee draws up a slate of at least

one candidate and not more than three for each office and presents it to the Board of Directors for certification on or before May 30.

6.3 A. The slate that has been certified by the Board of Directors is mailed to all the membership as a report on or before October 1. This report will quote the nomination and election procedures.

B. Besides committee nominations, any eligible member may be nominated by written petition of not less than ten (10) members received by the Chair of the Nominating Committee (with notice of its submission sent to the Corresponding Secretary) not later than September 1, accompanied by written consent of the nominee to be a candidate and to serve if elected.

C. If the Nominating Committee has submitted, and the Board of Directors has certified, only one nomination for office, and if no nominating petitions are received for any office as prescribed above, those nominated are declared elected, and no further election procedures are required for each such office.

D. If there are two or more nominees for any office, by any means, the Nominating Committee will include these nominations on the ballots according to the following procedures:

1. The ballot that has been certified by the Board of Directors shall be mailed by the Corresponding Secretary to all the membership on or before October 1. The ballots shall be returned on or before November 1 to the Chair of the Nominating Committee for tabulation.
2. The candidate receiving the greatest number of the votes cast for each contested office is elected. The Chair of the Nominating Committee certifies to the Board of Directors the complete results of the election by written notice to the Corresponding Secretary. In case of tie, the Board of Directors breaks the tie by lot.
3. The terms of all Officers and Directors-at-Large commences at the beginning of the fiscal year.

MBC Report of the Nominating Committee (Continued)

BRIEF BIOGRAPHIES

President: Garrett Crow, Southwestern Chapter

M.S. Botany, Michigan State University 1968 – Thesis: An



Ecological, Floristic, and
Phytogeographical Analysis of
Pennfield Bog, Michigan (owned
by Michigan Nature Association)

Ph.D. Botany, Michigan State
University 1974 – Dissertation: A
revision of the North American
Species of *Sagina*,
Caryophyllaceae.

Professor Emeritus – University of
New Hampshire, where he taught
botany for 33 yrs, Director of
Herbarium and Department chair
last 6 six years (retired 2008)

Adjunct Research Botanist –
Michigan State University Herbarium

Visiting Scholar – Calvin College; Adjunct Curator of Calvin
Herbarium

Michigan Botanical Club: Vice President 2015 - 2016

Red Cedar Chapter Program Chair: 2010 - 2012; Founding
member of Red Cedar Chapter when a grad student

New England Botanical Club: President, 1988-90; VP, 1986-88;
Program Chair, 1983-1988

Vice President: J. Dan Skean, Jr., Great Lakes Chapter



Dan Skean is a Professor of
Biology at Albion College,
where he teaches introductory
Ecology, Evolution &
Biodiversity, Vascular Plants,
Plants and Human Affairs,
Tropical Biology, The Biology
of Subtropical Florida, and
Medical Botany. His research
interests are *Melastomataceae*
of the Caribbean and local
floristics. Dan received his B.S.
in biology from Western
Kentucky University, his M.S.

in botany from North Carolina State University, and his Ph.D. in
botany from the University of Florida. He has served the
Michigan Botanical Club as Vice President (1996-2002) and as
Business & Circulation Manager for *The Michigan Botanist*

(2002-06) and on its editorial board (2007-present). Dan has
been a board member of The Hanes Fund since 1999 and
recently became its chair.

Recording Secretary: Jim Hewitt, Great Lakes Chapter

My interest in wildflowers expanded when I became involved in



a project to write a history
of Richland, Michigan in
conjunction with the 1976
Bicentennial. Intrigued by
Gull Prairie and what it and
the surrounding oak
openings would have
looked like in 1830 when
the first settlers led by
Colonel Isaac Barnes
arrived, I set out to plant
prairie species in my own

yard. After receiving a degree from Western Michigan
University (BBA), I spent most of my working years with
General Motors where I had responsibility for computer systems
which controlled and documented the flow of productive
material. After retiring I was able to pursue more fully my
interests in the natural world and began serving in a volunteer
role with Michigan Nature Association, Michigan Audubon, the
Mid-Michigan Chapter of the Stewardship Network, and others.
This has mainly involved stewardship activities such as non-
native plant removal, trail maintenance, prescribed burns, etc.
Sometimes I lead student groups through sanctuaries, either for
nature study or to pull out exotic plants.

I was a member of the Red Cedar Chapter of MBC for nine
years and served on its board and also on the boards of Capital
Area Audubon and the Red Cedar Chapter of Wild Ones.

MBC Recording Secretary: 2015-2016

Treasurer: Robert Kelly, Huron Valley Chapter



M.S. Library Science and
B.S. Education, both from
the University of Michigan.

M.S. Biology, Eastern
Michigan University

Retired, Associate Professor,
Collection Development
Librarian, Eastern Michigan
University.

MBC Treasurer 2012 –
present.

MBC Report of the Nominating Committee (Continued)

Robert has many years of experience as treasurer of a lake association, and many years of experience with oversight of large library collections.

Corresponding Secretary: Sheila Bourgoin, Huron Valley Chapter



Sheila has a fine arts degree from The School of the Fine Arts in Boston and Tufts University. She works as a graphic designer, web designer and technical document editor for a manufacturer in the Ann Arbor area. In addition, her participation in the Michigan Botanical Club includes MBC Website Content Manager,

Huron Valley Chapter Director-at-Large, leading field trips among other contributions. Sheila is an active stewardship volunteer for the Michigan DNR and Michigan Nature Association. Her creative pursuits include photography and writing for her blog about Southeast Michigan native flowers, and botanical illustration. She lives in Saline with her husband Lee. They have two children, Elizabeth (22) and Mike (24). Originally from Massachusetts, she moved to Michigan with her family 20 years ago.

Michigan Botanical Foundation Update

Traditionally, each year the MBF reports to the MBC in the Spring issue of the *Arisaema* on our activities of the previous year which we did for 2015. The MBF Board of Trustees met at the Spring Meeting this year on April 30 and we thought a brief update on some of the items of that meeting would be of interest to the MBC. As of July 1, 2016 the following Trustees will be the officers of the MBF.

President – Emily Nietering

Vice-President – Judy Kelly

Secretary – Bev Walters

Treasurer – Robert Kelly

Trustee – Michael Huft

Additionally, Dr. David Warners of Calvin College has been nominated as a Trustee and will probably be confirmed by an email vote by the time you read this article. We have also been reviewing several grant proposals recently. As a reminder, for the Fall Foray, the Joan Robb Student Scholarships are available. The Student Foray Award Guidelines are, namely: (1) MBF provides funding for one student from each MBC Chapter; (2) any MBC Chapter wishing to sponsor a second student is expected to cover all costs of the second student through their own resources; and (3) if a Chapter wishes to sponsor three or more students, then application to MBF will be considered for any additional students beyond the second student. The MBF Board will vote on grant applications under item (3) and grants will be made at the discretion of MBF.

We welcome gifts of cash or stock in any amount at any time to help support botanical research on native plants in Michigan. Please send contributions to our Treasurer, Bob Kelly, 18863 Lakewood Circle, Lake Ann, MI 49650. Thank you.

—Emily Nietering, President, MBF

MBC Chapter Reports 2015-16

Great Lakes Chapter Report

The groundwork toward building our new Great Lakes Chapter is well underway. We have four officers and a Director-at-Large on the GLC Board of Directors. Our most recent board member is Derek Shiels, a Petoskey resident, who has taken on the Vice-President position. In addition, Jim Hewitt is Secretary, Leslie Kuhn is Treasurer, and Phyllis Higman is Director-at-Large. We are currently seeking a second Director to fill an open position for 2016.

Treasurer, Leslie Kuhn has established a GLC bank account at the Michigan State University Credit Union. Most deposits originated from 2015-2016 membership dues and donations from our 66 members. Expenses for The Michigan Botanist and State Dues have been paid to date.

As an internet based chapter, there will always be opportunities and challenges in finding ways to interact with our members. In December of 2015 a GLC End-of-Year Newsletter was published thanks to the creative skills of Phyllis Higman and supporting articles from board members. Feedback was encouraging.

Our most adventurous project was the organization of a back-to-back field trip in the Traverse City area this past May. This wildflower walk was expertly coordinated by GLC board members, Jim Hewitt and Derek Shiels. Field guides included Emily Douglas, from the Leelanau Conservancy, and Angie Lucas, from the Grand Traverse Regional Land Conservancy. The first trip was to Palmer Woods Forest Reserve, which is a 707 acre managed preserve in Leelanau County, followed by walk into Pete's Woods Preserve, which is known for its diverse wildflower display, and is part of the Arcadia Dunes - C. S. Mott Nature Preserve in Benzie County. Both of these areas are certainly worth another visit, and are open to the public.

Coming up is a scheduled field trip to Whitehouse Nature Center, Albion College on August 27. GLC members, Barbara Rafaill and Dan Slean will be our field trip leaders for this event. Details will be posted to the GLC webpage in early August. Hope to see you there.

The Great Lakes Chapter Annual Board Meeting will be held during the September Fall Foray in Kalamazoo, MI. Please check your Foray itinerary for time, date, and room location for this meeting.

As always, please visit the GLC webpage for interesting updates and information, and the MBC Facebook page for Q/A plant identification tips and great pictures.

—Irene Eiseman, GLC President

Huron Valley Chapter Report

Our evening meetings are held the third Monday of each month from September through April (excepting December) at 7:30 in the Matthaei Botanical Gardens Auditorium. They are open to the public and advertised through the Gardens as part of their public education efforts. See: <http://michbotclub.org/huron-valley-chapter-past-events> for details.

Evening Programs 2015 – 2016:

Monday, September 21 – Dr. Dan Kashian. “Of Cockroaches and Trees: The Outlook for Ash in Southeastern Michigan in the Aftermath of Emerald Ash Borer.”

Emerald ash borer (EAB) has killed millions of trees near its introduction point in southeastern Michigan, and many have predicted the elimination of ash from the landscape. Almost 15 years after the introduction of EAB, however, we still find ash in the "aftermath" forests, as surviving trees and sprouts, both of which are producing an abundance of seed and new ash seedlings. With EAB still present at low populations in the area, is ash resilient enough to survive this devastating invasive species? Dan Kashian is an Associate Professor at Wayne State University, where he teaches and conducts research in forest and landscape ecology.

Saturday, October 17 – Bob Grese, Director of Matthaei Botanical Gardens. “The Great Lakes Garden and the Role of Botanical Gardens in Native Plant Education.”

Note: This meeting was held in conjunction with the State Annual Meeting.

Monday, November 16, 2015 – Josh Cohen. “A Tour of Michigan's Natural Communities.”

This presentation discussed the recently published book “A Field Guide to the Natural Communities of Michigan”. The culmination of three decades of work, this field guide provides readers with an accessible introduction to Michigan's natural community classification and is meant to serve as a tool for those seeking to understand, describe, document, conserve, and restore the diversity of ecosystems native to Michigan. In the course of an ecological tour of Michigan, the author discussed the methods behind the creation of this book and its critical components that include dichotomous keys, natural community distribution maps and descriptions, plant lists, and places to visit the communities.

MBC Chapter Reports 2015-16 (Continued)

Monday, January 18, 2016

6:00 PM – Annual Potluck

7:30 PM – Bob Smith. “Wildflower Photography and Techniques” Huron Valley Chapter member and expert photographer. Bob’s program focused on how to make photographs that are useful for plant identification, illustrated with photos of local plants. For Bob’s floral gallery see:

<https://www.wildflower.org/gallery/> and then select Smith, R.W. from the Photographer drop-down list.

Monday, February 15, 2016 – Anton (Tony) Reznicek. “Kissing Cousins and Family Skeletons - The Michigan Flora and Modern Evolutionary”

Modern evolutionary biology, with its ability to directly access the genetic material of plants, has revolutionized our understanding of the evolution of our flora. This has turned up many interesting facets about how plants in our flora are related, but also has exasperated people familiar with the traditional names and arrangements of plants. We explored the underlying principles behind the re-working of plant relationships, plus looked at some of the interesting and sometimes remarkable new facts about plant evolution and relationships. Meeting combined with Wild-ones Chapter.

Monday, March 21, 2016 – Chris May. “Ecosystem Conservation at The Nature Conservancy’s Erie Marsh Preserve.”

Chris May is Director of Restoration for The Nature Conservancy in Michigan. The Erie Marsh Preserve on Lake Erie contains some of the last remaining coastal wetlands in southeast Michigan and provides critical habitat for migratory birds and fish. The Nature Conservancy and partners are working at multiple scales to restore native ecosystems and natural processes, not only at Erie Marsh, but along the entire coastline from the Detroit River to Sandusky, Ohio. Work at Erie Marsh provides an example of large-scale restoration that will benefit native plants and animals, while also providing ecosystem services and recreation opportunities for people.

Monday, April 18 – Barb Barton. “Manoomin: The Story of Wild Rice in Michigan”

Wild Rice is a staple of the Anishinaabe people of the Great Lakes region and was once much more abundant in Michigan than it is today. We learned about the story of Manoomin (Wild Rice), its past and present, and what is being done to restore it to Michigan’s landscape.

2015 Field Trips:

Saturday 12 September (This was previously scheduled in June, but moved to September because of flooding at the site.)

10:00 am to 1:00 pm: Flora of the River Raisin Floodplain: Trip Leader: Bob Smith

This trip was to a floodplain along the River Raisin in southern Lenawee County. The site is home to a remarkable number of listed and unusual plants. Among these are smooth ruellia, ravenfoot sedge, toadshade, wild hyacinth, woodland lettuce, fox grape, and beakgrass. Many of the plants are unusual in Michigan because this is their northern limit. It is also an interesting area to observe the ecological effects of the ash mortality.

2016 Field Trips

Saturday 27 February 10:00 to Noon Winter Woodies Workshop at Scio Woods Preserve. Trip Leaders: Neal Billetdeaux and Robert Ayotte

Neal and Robert reviewed the winter features of trees, shrubs, and vines in their winter condition. There was a focus on buds, bud scars, bark, and fruit (with special attention to “lines of dehiscence”).

Saturday 23 April 9:00 am to 12:00 pm

Spring Botany and Horner’s Woods Workday Trip Leader: Sylvia Taylor

Volunteers from the Michigan Botanical Club and MBGNA scouted for the invasive garlic mustard and helped with light trail maintenance at Horner Woods, a wildflower sanctuary NE of Matthaei Botanical Gardens. We enjoyed seeing large patches of a lovely native wildflower, Twinleaf.

Saturday 7 May 1:00 pm to 3:00 pm.

Spring Botany at Scio Woods Preserve Trip Leader Aunita Erskine and Robert Ayotte

Scio Woods is a rich oak beech maple woods that we are lucky enough to have on our doorstep just a few miles west of Ann Arbor. The focus was on getting re-acquainted with spring ephemerals and other emerging spring wildflowers, plus some special items like pawpaw, bladder nut, or spicebush in bloom!

Spring Botany and Horner’s Woods Workday Saturday 21 May 1:00 to 4:00 pm

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MBC Chapter Reports 2015-16 (Continued)

(Continued from page 23)

Trip Leader: Sylvia Taylor

Volunteers from the Michigan Botanical Club and MBGNA scouted for the invasive garlic mustard and helped with light trail maintenance at Horner Woods, a wildflower sanctuary NE of Matthaei Botanical Gardens.

Saturday 18 June 10:00 am to 1:00 pm Lefglen Nature Sanctuary

Trip Leader: Rachel Maranto

Rachel Maranto, of the Michigan Nature Association, led us on a guided tour of the diverse habitats and wildflowers of Lefglen Nature Sanctuary. This 200-acre preserve, near the Sharonville State Game Area, is home to a pair of small lakes, prairie fen, mesic and dry-mesic oak-hickory forest, and a savanna remnant.

Outreach efforts:

Besides helping various groups with Stewardship efforts, most notably and directly at Horner woods, we also provide support and expertise for efforts at various other areas in SE Michigan and the Huron River watershed. This year, Chapter members regularly attended the Huron-Clinton Metroparks Board of Commissioners meetings to object to inappropriate mowing activities and push for better ecosystem management generally in the Metroparks system.

—Tony Reznicek, HVC President

Southeastern Chapter Report

The fall programs of the Southeastern Chapter began in October with “Bringing Conservation to Cities: Lessons from Building the Detroit River International Wildlife Refuge” by Dr. John Hartig. The Detroit River IWR is nearly 6,000 acres of islands, coastal wetlands, marshes, shoals, and waterfront lands along 48 miles of Detroit River and Western Lake Erie shorelines. The International Wildlife Refuge Manager, Dr. Hartig, gave insights on the history of the refuge, habitat restoration efforts using innovative partnerships, trans-boundary conservation, reconnecting people to the river through citizen science and outdoor recreation, and practical lessons learned along the way. In November, Huron Valley Chapter member and expert photographer Bob Smith’s program focused on how to take photographs that are useful for plant identification, illustrated with photos of native plants. We called it “Illustrating Botanical Beauty: taking photographs that illustrate key identifying characteristics and also show how everything is beautiful” and it truly lived up to its title. Erick Elgin and

Ashley Baldrige presented our December program “Aquatic Plants in Lake Ecosystems: Critical Roles and Major Stressors.” They both have recently completed graduate studies relating to aquatic plants and devoted time in their presentation to the identification of submersed plants and some interesting ecological research involving aquatic flora.

We had our traditional potluck meal in February with a program entitled “Wild Bees in Urban Gardens.” Wild bees support the general plant diversity of our ecosystems and have been found to be more efficient pollinators than honey bees for a number of important crops. One potential refuge for at-risk bee populations that generally avoids both habitat loss and harmful pesticide use is the burgeoning urban garden/farming movement. Paul Glaum, a PhD. student in the Dept. of Ecology and Evolutionary Biology at the University of Michigan in Ann Arbor, examined which bee communities are using urban gardens and urban farms as habitat and how the surrounding urban environment affects them. Thinking out of our usual botanical box, in March we heard about the health of the Rouge River as told through its fish species. “Our Hidden Wildlife” by Bob Muller, was a program about Michigan native fish in the Rouge River including some information on the invasive fish study he is doing on the Round Goby as it travels up the river following dam removal. In April, John DeLisle presented “Native Shrubs in Southeastern Michigan.” We learned to identify many native shrubs and received helpful information about creating a biohedge in our own yards using native shrubs. John also brought a bucket of cuttings for interested attendees to take home.

When the weather improved our field trip season began with a spring wildflower walk in TenHave woods in Royal Oak led by Don Drife on April 16. On May 1 we explored Pitcher Woods in O’Hair Park in Detroit with Susan Stellar and Ruth Hart. Yes, it is named for Dr. Zina Pitcher, the eminent botanist, who was also a two time mayor of Detroit. We spotted Jack-in-the-pulpit, Trillium, Marsh Marigold and many other wildflowers in this urban woods. We are looking forward to two upcoming field trips, “Sedges and More” at the Stage Nature Center in Troy on June 26 with Ruth Hart and Mary Creager as leaders, and a trip to Rouge Park in Detroit with Bill Brodovich, author of the Flora of Rouge Park on August 13. Check out our SEC page on the MBC website. We strive to keep it up-to-date. In addition to our sponsored programs and trips we continue to promote the environmental and educational programs of the many other groups in the metro Detroit area who offer them. We have had many new visitors to our programs this year and hope to continue to offer programs of interest to both old-timers and those newly interested in the flora of our wonderful state of Michigan.

—Emily Nietering, SEC President

MBC Chapter Reports 2015-16 (Continued)

Southwestern Chapter Report

2015

September: *Marc's Marsh: Fen Diversity and Management* with Nate Fuller, Conservation and Stewardship Director, the Southwest Michigan Land Conservancy. A beautiful, wildflower-filled fen just east of Kalamazoo. The gentians were great, but the highlight was the discovery of a new county record, *Spiranthes magnicamporum*!

October: *Learning to Say Goodbye to Michigan's Prairie Flora* with Tyler Bassett, PhD Candidate, Michigan State University's Kellogg Biological Station. Presentation on an ongoing status assessment of three listed upland prairie species: *Amorpha canescens*, *Baptisia lactea*, and *Coreopsis palmata*.

December: *Time, Fire, and a New Creation: A Journey to the Galápagos* with Tom Small, Professor Emeritus, Western Michigan University and Kalamazoo Wild Ones co-founder. A captivating tour of 'Darwin's laboratory', based on a recent trip to this epic cauldron of biodiversity.

2016

January: *Blame it on the weatherman: How planting year conditions could be dictating the success of prairie restorations* with Anna Groves, PhD Candidate, Michigan State University. Why do identical prairie restoration methods work in some years, and fail in others? We got some tantalizing clues....

February: *Oak savannas: southwest Michigan's natural heritage and restoration future* with Mitch Lettow, Stewardship Specialist, the Southwest Michigan Land Conservancy. The ins and outs of what makes an oak savanna, oak savanny – and how restoration achieves that. A great prelude to our June field trip!

March: *Tree Talks* with Margaret Studer, Director of the Grand Rapids Urban Forest Project for Friends of Grand Rapids Parks. All about the importance of urban trees and forest management, and some of the exciting ways to engage citizen scientists in improving the urban forest.

April: *Love Creek: Spring Ephemerals* with Pat Underwood, Parks Naturalist, Berrien County Parks. Rich mature beech-maple forest, flush with spring ephemerals and other wonders.

June: *KL Ave Preserve: Oak Savanna Diversity and Management* with Mitch Lettow, Stewardship Specialist, the Southwest Michigan Land Conservancy. This 70 acre parcel, just west of Kalamazoo in the heart of the historical Oshtemo

black oak barrens, is undergoing active management to encourage prairie and savanna species, including the intrepid American columbo (*Frasera caroliniensis*).

Come see us sometime!

—Tyler Bassett, SWC President

White Pine Chapter Report

This has been an exceptional year for the White Pine Chapter members. We have enjoyed the talents of some of the best known botanists in our country on field trips. We have been given excellent programs at Grand Valley State University by outstanding speakers. During the year, many of our WPC members have assisted in helping us to learn more about plants and ecology. I want to thank all of these leaders who have made this year a great success. This is the 27th year since the WPC was founded.

Our WPC 2016 schedule for each month included programs and field trips featuring wetlands, prairies, sand dunes, bogs, fens, marshes, savannas and woodlands through out West Michigan. We will never be at a loss to find yet another new ecological area to investigate in our West Michigan area.

In January our WPC members met for the first time in the new Kindschi Hall of Science in Room 1113. This is the fourth GVSU building where we have had the privilege to conduct our monthly meetings. The university allows us to serve refreshments, use the room free of charge, and use all audio-visual equipment. We owe a debt of gratitude to the university for their support.

On January 16 at GVSU, our Annual Photo Fest was scheduled to give our WPC members a chance to share their photographic skills with everyone.

- Sue Chambers showed many beautiful photos of wildflowers and gave an excellent talk about them.
- Cal Lamoreaux showed wonderful photos of sand dunes, plants, woodland plants and inland pond plants.
- Peg Lepo showed lovely shots of many wildflowers planted in her garden around her home.
- Jean Karen Freye had an unusual collection of photos from a tour of "Windy City of Chicago, IL". All showed native plants growing on rooftops of buildings and in parks on over 7 million square feet in Chicago.

(Continued on page 26)

MBC Chapter Reports 2015-16 (Continued)

(Continued from page 25)

- Fred Nietering and Janet Skeberdis had to wait until the next Photo Fest to show their photos as a blown out bulb on the slide projector stopped our show!

On February 13, Craig Elston, naturalist at Hudsonville Nature Center, presented a program on "Searching for Wildflowers". He gave us a list of 93 wildflowers he was going to show us. This was an outstanding program illustrated with colorful photos expertly described by Craig. We published some of Craig's photos. We included photos of the new GVSU plant Conservatory on the tour led by Dr. Mark Luttenton.

On March 12, our program began with a tribute to one of our WPC members, Janet Skeberdis. She was recognized for the many years she has served as WPC vice president. We presented her with a special framed certificate with our appreciation for her service to our chapter.

Then Dr. Alan Steinman, Director of the Annis Water Resources Institute of GVSU, presented "AWRI Weather and Harmful Algal Blooms". He showed photos of the Institute and the two research vessels that are docked nearby. We saw sinkholes that collect bacteria, and how harmful algal blooms endanger ecological and societal health. This was an outstanding program that gave an overview of just some of the programs conducted by the staff of AWRI.

On April 9, Caryle Spence presented "Alaska, The Last Frontier", showing photos of amazing views of the area she visited. We saw Alaskan Native Heritage Park, mountains, lakes, rain forests, glaciers, waterfalls, icebergs, and Denali Park. Most beguiling were the many photos of wildflowers and Alaskan animals. What an excellent presentation.

On May 14, our first outdoor field trip of this year was held at Hudsonville Nature Center led by naturalist, Craig Elston. There are many diverse ecological areas in this large park, including upland Beech Maple forest and floodplain forest. Craig distributed a lengthy list of wildflowers he has identified in the park plus a list of trees, shrubs and woody vines. We saw many wildflowers in bloom! What a wonderful day to start our spring field trips.

On June 11, Justin Heslinga met us at Saul Lake Bog Nature Preserve near Rockford. Justin is the Stewardship Coordinator for the The Land Conservancy of West Michigan. It was a very hot and humid day, but we enjoyed seeing so many flowering plants in the sphagnum bog. We saw a tall grass prairie, interesting forests, vernal ponds, and fern and sedge diversity.

Saul Lake Bog is one of more than two dozen natural areas that are owned by The Conservancy. Because of the sensitivity of the bog ecosystem, the bog is closed to the public.

On July 16, Melanie Manion, Natural Resources Management Supervisor for Ottawa County Parks will lead us to explore the beauty and diversity of flowers and plants in the prairie and riparian forest along Pigeon River. This area is located at Hemlock Crossing Park. It is a treasure of wildflower ecosystems.

On August 20, we will visit the Kitchel-Lindquist-Hartger Dunes Preserve. It is one of Michigan's natural treasures. Lynne Kinkema will lead us through the sand dunes to view the rare plants that only grow in sand dunes along Lake Michigan. It is a lovely, accessible park with paths.

On September 17, Jesse Lincoln will lead a fall field trip at Lowell Charter Township, in Lowell MI. The township owns a 10 acre remnant oak barrens. Jesse has documented 112 native plants. He says that it is the best oak barrens he has seen in West Michigan and is important as an ecological reference site.

On October 15, back at GVSU, Judge Edward Post will present an illustrated program on "Those Amazing Birds". Judge Post is a well known jurist in Michigan, and also has won awards for his excellent botanical photographs. He announced that he is retiring as an Ottawa County Circuit Court Judge at the end of this year after serving for 25 years. Judge Post plans to continue working as a photojournalist!

On November 12, Bill Martinus and Chip Schaddelee will present "In Search of Endemics in the USA". These two devoted botanists have traveled through 17 states during 21 trips over the past 13 years to identify and list all endemics in a special area for many different organizations. They will go again this summer. You will be amazed to see the endemics Bill and Chip have found.

The successful meetings and field trips that we enjoy may be attributed to the excellent leaders who share their expertise during every field trip and program. We look forward to an active 2017 Year full of interesting and informative sessions, which will enable our members to learn about the amazing ecology of our state.

—*Dorothy A Sibley, President, WPC*

Important Vote by the Membership at the Fall Foray

The Board of Directors of the Michigan Botanical Club is considering converting the Club from its current status as a 501(c)(4) organization to a 501(c)(3) organization. As a 501(c)(4) organization, the Club can engage in unlimited lobbying, but contributions to the Club are not tax-deductible by the donor. The purpose of the conversion is to permit the Club to receive tax-deductible contributions. As a 501(c)(3) organization, however, the Club will not be permitted to engage in unlimited lobbying. It can engage in a limited amount of lobbying, and, by filing a 501(h) election with the IRS, it will be permitted to make expenditures for lobbying each year in an amount not to exceed 20% of the Club's total expenditures for that year. Historically, the Club's expenditures for its lobbying activities have never been anywhere near the 20% limit, and it is not expected that any future expenditures for lobbying will approach this limit.

Conversion to a 501(c)(3) requires a filing with the IRS and an amendment to the Club's Articles of Incorporation. In particular, in order to qualify as a 501(c)(3) organization, the Articles of Incorporation of the Club must contain (i) a purposes clause that restricts the purposes of the Club to those purposes consistent with 501(c)(3) purposes, as described in the federal Tax Code, and (ii) a provision that states that if the Club dissolves, any assets remaining must be distributed solely for purposes consistent with its 501(c)(3) status, including distribution to another 501(c)(3) organization.

Under state law, any amendment to the Club's Articles of Incorporation must first be approved by the Board of Directors and then submitted to the membership for final approval. Therefore, the members will be asked at the Fall Foray to vote on the following motion:

Motion

To approve the following amendments to the Articles of Incorporation of the Michigan Botanical Club:

1. Replace the current Article 2, which reads

The purpose or purposes of this corporation are as follows: (1) the conservation and planting of native plants, (2) the education of the public to appreciate and preserve plant life, (3) the sponsoring of research leading to semi-popular publications on the plant life of the state, and (4) the promotion of conservation of Michigan flora and establishment of sanctuaries where possible.

With the following:

The corporation is organized exclusively for scientific, charitable, and educational purposes within the meaning of section 501(c)(3) of the Internal Revenue Code of 1986 as from time to time amended (the "Code"), or the corresponding section of any future federal tax code, including, for such purposes, focusing on (i) conservation of all native plants; (ii) education of the public to appreciate and preserve plant life, (iii) sponsorship of research and publication on plant life, (iv) sponsorship of legislation to promote preservation of Michigan native flora, (v) establishment of suitable sanctuaries and natural areas, and (vi) cooperation in programs concerned with the use and conservation of all natural resources and scenic features.

2. Add the following new Article:

No part of the net earnings of the corporation shall inure to the benefit of, or be distributable to, its directors, officers, or other private persons, except that the corporation shall be authorized and empowered to pay reasonable compensation for services rendered and reasonable reimbursement for expenses and to make payments and distributions in furtherance of the purposes set forth above.

No substantial part of the activities of the corporation shall be the carrying on of propaganda, or otherwise attempting to influence legislation, and the corporation shall not participate in, or intervene in (including the publishing or distribution of statements) any political campaign on behalf of (or in opposition to) any candidate for public office.

Notwithstanding any other provisions of the Articles of Incorporation, the corporation shall not carry on any other activities not permitted to be carried on (a) by a corporation exempt from Federal income tax under Section 501(c)(3) of the Code or (b) by a corporation, contributions to which are deductible under Section 170(c)(2) of the Code.

Upon the dissolution of the corporation, assets of the corporation remaining after the satisfaction of liabilities shall be distributed exclusively for one

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Important Vote by the Membership at the Fall Foray (Continued)

(Continued from page 27)

or more exempt purposes within the meaning of Code Section 501(c)(3), or shall be distributed to the federal government or to a state or local government for a public purpose, as the Board of Directors shall determine. Any such assets not so disposed of shall be disposed of by a court of competent jurisdiction in the county in which the principal office of the corporation is then located, exclusively for such purposes, or to such organization or organizations which are organized and operated exclusively for such purposes, as said court shall determine.

Once approved by the membership, these amendments will be submitted to the Michigan Department of Licensing and Regulatory Affairs for filing in accordance with procedures established by that Department.

—Michael Huft for the Constitution and Bylaws Committee

Spring Meeting at Hidden Lake Gardens

On April 30, a one-day State Spring Meeting was held for our members at Hidden Lake Gardens in Tipton, MI. The day began with a meeting of the Board of the Michigan Botanical Foundation followed by a meeting of the MBC State Board. After a brief refreshment break, we welcomed our speaker, **Brad Garmon** of the Michigan Environmental Council. He gave us an overview of **Michigan's New Draft Water Strategy: a 30-Year Vision**. Mr. Garmon, Director of Conservation and Emerging Issues for the Michigan Environmental Council (MEC), recently served on the Michigan Office of the Great Lakes (OGL)'s Water Cabinet, a group of partners and organizations consulting with the state on the development of their new 30-year water strategy: "Sustaining Michigan Water Heritage, A Strategy for the Next Generation." The lengthy document, still in draft form, outlines the key issues, threats and opportunities we should all be aware as we work to ensure Michigan's water resources support healthy ecosystems, citizens, communities, and economies today and into the future. The strategy was drafted in response to Governor Rick Snyder's 2012 Special Message on Energy and Environment, which called for the development of a comprehensive water strategy that takes an ecosystem approach, enhances our economic opportunities around water and strengthens connection to place. In this presentation, Mr. Garmon described the state's process in developing the strategy, including its current status, and offered a few of MEC's concerns, insights and highlights of the report. If you wish to

read the report in its entirety, you can find it here:

http://www.michigan.gov/deq/0,4561,7-135-3313_3677_76614---00.html.

Following the presentation, a number of hardy individuals braved the light showers to visit the rare conifer collections at Hidden Lake Gardens with Dr. Tony Reznicek. As always, his comments were both educational and highly entertaining as he described the various creeping, drooping and unusually colored conifers. The Southeastern Chapter was the host for this meeting and we thank Brad, Tony, the staff at Hidden Lake Gardens and our chapter members who helped with the planning and execution of this event.

—Emily Nietering, President, Southeastern Chapter

Michigan Botanical Club—State Board Meeting April 30, 2016

Michigan Botanical Club - State Board Meeting Hidden Lake Gardens, Tipton, Michigan April 30, 2016

In Attendance: Alice Ward, Arlene Obetts, Bob Kelly, Emily Nietering, Garrett Crow, Irene Eiseman, Jim Hewitt, Judy Kelly, Mary Danforth, Michael Huft, Phyllis Higman, Richard Fowler, Ruth Hart, Sarah Nooden, Sheila Bourgoin, Tony Reznicek, Wayne Roussel. (17)

1. Called to Order by President Judy Kelly at 11:54 AM
2. Review of agenda and previous meeting minutes
 - a. The written agenda was modified to add “recordings” to the Web Master Report and to add “trout farming on the AuSable River” to New Business. It was then approved on motion by Sarah, second by Tony.
 - b. The minutes from the 1/23/16 meeting, as published in the Arisaema, were approved on motion from Bob, second by Phyllis.
3. Robert’s Rules of Order – per Judy these rules will govern the meeting and members should raise their hand when wishing to speak.
4. Announcements
 - a. President’s email list: Judy’s list is current with the update of the Riepma email address.
 - b. MBC brochure: Sarah passed around the latest edition for examination.
 - c. Field Botany Course: Scheduled to begin June 25 at the U of M Biological Station and has a few openings left. Chuck Davis will teach the first session and Tony Reznicek will instruct Session 2. Tony said non-traditional students are welcome and tuition assistance may still be available.
5. Committee Reports
 - a. Web Site – Sheila announced she has a forty minute video recording of a Powerpoint presentation by Tony Reznicek on the topic of botanical name changes. It is too large a file for placement on the website but could be reproduced on DVD’s or by paying for web hosting. Judy suggested that a grant to do either or both could

be requested from the Michigan Botanical Foundation. Sheila reminded members that she is a resource for helping chapters with posting their events onto the website.

- b. Corresponding Secretary – The next Arisaema will contain information on the Fall Foray and Wayne told Mary that the Southwest Chapter requests a mail-date deadline of July 23. This pushes the preferred deadline for submissions to June 24. Chapter reports would also go in this issue and Irene wondered how this might impact space in the newsletter. Mary said it would be better to have a few extra pages than publish an additional issue and encouraged chapter presidents to be concise in their write-ups.
- c. Treasurer – In Bob’s Treasury Report, which, along with the Statement, had been emailed to board members, he noted that in order to remove the name of the retired Dan Steen from the MBC bank account a new account owner would be needed. Wayne volunteered to be the new account owner. Accordingly a motion was made by Richard as follows: The Michigan Botanical Club Board authorizes Wayne Roussel to be a signer/owner on the Michigan Botanical Club Account held at the Honor Credit Union in St. Joseph, Michigan effective May 1, 2016. Motion seconded by Mary and approved unanimously. Judy reminded the chapters to submit their 2016 dues of \$7 per member.
- d. The Michigan Botanist (TMB) – Michael recognized the work of Dan Kashian in the publication of the latest double issue, a “Tribute to Burt Barnes.” Michael said that the last 2015 issue would be going to the typesetter in the next several days and that the first two 2016 issues were in good shape and might be sent to the printer simultaneously.

Michael reported that institutional subscribers are declining: from 85 when he took over to about 70 now and only 11 of these have paid for 2016. He talked about the electronic presence of *TMB* and of the existing 12-month “embargo” before a published issue is available for access at the U of M Library hosting site. Open access and the cost of printed copies are issues directly related to the viability and, in fact, survival of *TMB* which he next elaborated on. In addition to publishing costs, submissions are another major challenge. Thirty-two printed pages are needed every 3 months. In the prior 12 months he has received but one long paper, the rest being short papers, book reviews, and noteworthy

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Michigan Botanical Club—State Board Meeting April 30, 2016 (Continued)

collections. He looked at other botanical journals e.g. Rhodora, Castanea, Madrono, all considerably larger than *TMB*, and noted their larger geographic area, online availability on subscription sites such as BioOne and JStor, and sufficient submissions.

Michael advocated for expanding the range of *TMB* beyond the Great Lakes which is more limited in botanical diversity, for dropping the 12-month embargo, and for forming a committee to discuss other issues such as promotion, name change, online access and other measures to attract authors. In the discussion, Phyllis felt the geographic range was broad enough and other factors were causing fewer submissions. Tony said other journals, like natural areas journals, were newer competitors. Garrett felt once *TMB* was back on schedule, which it will soon be, that submissions would pick up. At this point Judy suggested members give additional input to Michael via email and to consider volunteering to serve on the committee. Garrett and others believed that Michael, as Editor, had the authority to remove the 12-month embargo without Board action and encouraged him to do so.

- e. Constitution and Bylaws Committee – no report.
- f. Big Trees – no report.
- g. Fall Foray Report – With the Foray still four months away, Wayne reported that everything was on schedule. \$171 was expended for new first aid kits and cookies are now to be included in the Friday evening snacks. A meeting room has been reserved for Saturday and Sunday afternoons from 5 to 6 PM for the MBC Board Meeting and another room on Sunday for the Great Lakes Chapter annual meeting.
- h. Foundation Report – Emily reported that the grant guidelines for Michigan Botanical Foundation are now on the Website on the Botanical Foundation page. She said one grant has been approved and one is pending. MBF is back in business with a new board consisting of: Emily Nietering, President; Judy Kelly, Vice-president; Bob Kelly, Treasurer; Michael Huft, trustee; Bev Walters, trustee. Emily will check to see if Dave Warners is willing to serve. Garrett believed he is willing.
- i. Nominating Committee – Sarah presented the slate of officers for the 2017-2018 term: President, Garrett Crow; Vice President, Dan Slean; Treasurer, Bob Kelly; Corresponding Secretary, Sheila Bourgoin; Recording Secretary, Jim Hewitt. It was noted that Bob

Kelly will continue serving as treasurer until a new treasurer is found. Wayne moved, Alice second, to certify the slate for the term beginning January 1, 2017. Motion approved. Sarah thanked the other members of the nominating committee: Craig Elston, Tyler Bassett, Brad Slaughter, and Judy Kelly.

6. New Business

- a. Trout farms on AuSable – Tony made available the contents of an email he received from ethnobotanist Dan Moerman (once a sponsored Foray student) about pending MDEQ approval of these fish farms and encouraged members to make comments. A variety of negative environmental impacts could occur with these operations including on aquatic and shoreline vegetation.
- b. Michigan Environmental Council (MEC) Contribution – Since today's program speaker, Brad Garmin of the MEC, does not accept an honorarium when speaking on behalf of that organization Emily felt it appropriate to make a contribution to the MEC and she so moved with a dollar amount of \$100. Tony second and motion approved. MBC is a contributing member of the MEC.

7. Old Business

- a. Winter Wildflowers booklet – Tony said they have photos and the limitation on completing the project is his and Larry Nooden's time.
- b. Nonprofit status of MBC – At the prior meeting a motion was approved to request Michael Huft to identify the paperwork required for MBC to become incorporated as a 501(c)(3) organization. Today he presented the Board with a proposed written motion (attached) containing replacement language for Article 2 of the Articles of Incorporation which expanded and clarified the purposes of the organization. A new article was added which stated the restrictions on activities not permitted under Section 501(c)(3) such as political campaigning or attempting to influence legislation and which also included a paragraph on disposition of assets in the event of dissolution. During the discussion it was again noted that the benefit to MBC of 501(c)(3) organization is primarily the ability to accept tax-deductible contributions. Since MBC would not be making any grants the mission of the MBF should not be impaired, which was a concern raised by Emily. In response to a question from Irene Michael said the chapters would not immediately be included in a change to 501(c)(3) as they are organized separately. The

Michigan Botanical Club—State Board Meeting April 30, 2016 (Continued)

Constitution and Bylaws Committee will address that situation. Two other parts of Michaels proposed motion were to submit the suggested amendments to a vote of the membership and when approved to submit the amendments to the Department of Licensing and Regulatory Affairs. Garrett moved to accept Michaels proposals with a slight wording change suggested by Tony during the discussion (and noted on the attachment). Second by Tony and motion approved. Michael was asked to provide Mary with the proposed amendments for publication in the Arisaema in preparation for a vote by the members at the Fall Foray.

- c. Special Recognition Award – following up on his 1/23/16 proposal for an award to recognize outstanding achievements by MBC members, as well as non-members, toward the mission and aims of MBC Larry Nooden submitted an expanded proposal for Board consideration. The Board reviewed and discussed the written proposal and agreed to accept it on a motion by Emily and second by Garrett. There was one abstention. The award will be known as “Michigan Botanical Club Special Recognition for Outstanding Contributions.” The State Vice President will administer the nomination and selection process as well as the award which will be something on the order of a certificate and/or engraved plaque.
8. Next State Board Meeting – Saturday, September 3, 5:00 PM at Holiday Inn West, Kalamazoo.
9. Adjournment – Judy declared the meeting adjourned at 1:37 pm.

—Submitted by Jim Hewitt, Recording Secretary
05/07/2016
Revised, 5/11/16

Submitted by Michael Huft for consideration at 4/30/16 Board Meeting

Motion:

First, to approve the following amendments to the Articles of Incorporation of the Michigan Botanical Club:

1. Replace the current Article 2, which reads

The purpose or purposes of this corporation are as follows: (1) the conservation and plan ting of native plants, (2) the education of the public to appreciate and preserve plant life, (3) the sponsoring of research leading to semi-popular publications on the plant life of the state, and (4) the promotion of conservation of Michigan flora and establishment of sanctuaries where possible.

With the following:

The corporation is organized exclusively for scientific, charitable, and educational purposes within the meaning of section 501(c)(3) of the Internal Revenue Code of 1986 as from time to time amended (the “Code”), or the corresponding section of any future federal tax code, including, for such purposes, focusing on (i) conservation of all native plants; (ii) education of the public to appreciate and preserve plant life, (iii) sponsorship of research and publication on the plant life of the State, (iv) sponsorship of legislation to promote preservation of Michigan native flora, (v) establishment of suitable sanctuaries and natural areas, and (vi) cooperation in programs concerned with the use and conservation of all natural resources and scenic features.

2. Add the following new Article:

No part of the net earnings of the corporation shall inure to the benefit of, or be distributable to, its directors, officers, or other private persons, except that the corporation shall be authorized and empowered to pay reasonable compensation for services rendered and reasonable reimbursement for expenses and to make payments and distributions in furtherance of the purposes set forth above.

No substantial part of the activities of the corporation shall be the carrying on of propaganda, or otherwise attempting to influence legislation, and the corporation shall not participate in, or intervene in (including the publishing or distribution of statements) any political campaign on behalf of (or in opposition to) any candidate for public office. Notwithstanding any other provisions of the Articles of Incorporation, the corporation shall not carry on any other activities not permitted to be carried on (a) by a corporation exempt from Federal income tax under Section 501(c)(3) of

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Michigan Botanical Club—State Board Meeting April 30, 2016 (Continued)

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the Code or (b) by a corporation, contributions to which are deductible under Section 170(c)(2) of the Code.

Upon the dissolution of the corporation, assets of the corporation remaining after the satisfaction of liabilities shall be distributed exclusively for one or more exempt purposes within the meaning of Code Section 501(c)(3), or shall be distributed to the federal government or to a state or local government for a public purpose, as the Board of Directors shall determine. Any such assets not so disposed of shall be disposed of by a court of competent jurisdiction in the county in which the principal office of the corporation is then located, exclusively for such purposes, or to such organization or organizations which are organized and operated exclusively for such purposes, as said court shall determine.

Second, to submit these proposed amendments to a vote of the membership. Third, once approved by the membership, to submit these amendments to the Michigan Department of Licensing and Regulatory Affairs for filing in accordance with procedures established by that Department.

Third, once approved by the membership, to submit these amendments to the Michigan Department of Licensing and Regulatory Affairs for filing in accordance with procedures established by that Department.