



Arisaema



Michigan Botanical Club State Newsletter

Volume 19, Issue 2 • September 2013

Corresponding Secretary's Report: 2013

Greetings to everyone as we enter the lovely fall season after what, to me, was a beautiful summer.

This issue of the *Arisaema* contains many important articles and announcements. Please see the article on pages 3 & 4 about the MBC Fall Meeting to be held on October 12, 2013.

Important note: The "Spring Foray" for next year will actually be held in the SUMMER. See the President's Report on page 2 for more details! Judy's report also contains some details on the shutting down of the Red Cedar Chapter.

There is a wonderful summary of this year's Spring Foray from Dorothy Sibley. For those of us who were unable to attend, it is so nice to read about it and also to see how many sponsored students there were!

Larry Nooden has written an important article about Michigan Senate Bill 78 – anti-biodiversity legislation and some initial thoughts as to what we can do to help promote biodiversity.

Congratulations to Roger Tharp – see the article about receiving the Distinguished Service Award.

And, of course, we have the Chapter Reports, Treasurer's report and Minutes from the May 2013 Board Meeting.

We continue to offer the *Arisaema* in the black-and-white printed version (U.S. Mail) or the color version (email and on-line) or you can have both. You may contact me at m19danforth44@gmail.com if you want to change your delivery status for the next issue.

Sincerely,

Mary Danforth
Corresponding Secretary
Michigan Botanical Club

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MBC President's report — August 2012

Greetings from your MBC President
I wish to congratulate the White Pine Chapter on their successful 2013 Spring Foray at Calvin College. The evening speakers were great and the field trips were wonderful.

At the fall meeting the board will be establishing a committee to review the constitution and mission statement of the club. If any member would like to be on this committee, please contact me personally.

After several attempts to revive the leadership of the Red Cedar Chapter, RCC past president, Pat Fields, has informed the state board of the MBC that the Red Cedar Chapter is in the process of shutting down. Pat Fields and Irene Eiseman will encourage the remaining RCC members to transition into special members of the club.

RCC was scheduled to do next year's foray, so the state board of directors has assumed the responsibility for the 2014 foray. And after considering the input from the board, the executive committee of the board determined that the 2014 foray will be held in the Keweenaw Peninsula the week after the 4th of July. The tentative dates will be from Thursday July 10th until Monday July 14th. We are planning to stay in the dorms at Michigan Technical University in Houghton, MI.

The state board determined several years ago that the date of the foray is up to the sponsoring chapter and that dates other than Memorial Day weekend were acceptable. And due to the later blooming season in the Keweenaw, it would be better to visit it later than Memorial Day weekend. I hope to see you all next year in the Keweenaw!

If any member would like to be on the planning committee for the foray, please contact me personally. We are planning field trips to Estivant Pines and Copper Harbor. We would also like to offer field trips on the spectacular geology of the area. If you or anyone you know would like to lead field trips, please let me know.

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

Sincerely,
Judy Kelly
President
Michigan Botanical Club

Op-Ed on Michigan Senate Bill 78 (anti-biodiversity legislation)

by Larry D. Noodén, Huron Valley Chapter

Senate Bill 78 (SB 78) is called anti-biodiversity legislation because it specifically prohibits our state government, particularly the Michigan Department of Natural Resources, from considering biodiversity in managing our (Public) resources. This is like saying that you can not use the best science available to manage Public natural resources. Actually, SB 78 (still pending) is just one of many anti-environmental actions coming from our legislature and Public education has also been negatively impacted, but all that is a long story. What is going on in our legislature? It does not make sense to discuss SB 78 without addressing the specific politics and the objectives that appear to be driving them.

Michigan Environmental Council's Brad Garmon (whom many of you met at the MBC Winter State Board Meeting in Lansing) has summarized SB 78 and its problems in several articles. I have listed the one that is open access¹ in the references at the end of this article.

First, why biodiversity is important--Biodiversity is the gold standard for measuring the biological quality of a community, and the foundational plant component of this is the Floristic Quality Index², which several MBC members helped to develop. Among several benefits, high biodiversity generally increases the biological productivity and ecosystem services of communities³.

Second, The thinking behind SB 78 is not only anti-conservation (contrary to one of MBC's missions), but it is also anti-science. SB 78 does appear to be driven in part by profit motives in removing an important obstacle to destructive natural resource extraction (e.g., logging) and to natural area development. Amazingly, SB 78 also involves conspiracy thinking, e. g., biodiversity preservation is being foisted on us by a shadowy elite working through the United Nations to gain control of private property¹. The SB 78 proponents, particularly the lead sponsor Michigan Senator Tom Casperson, R-Escanaba, clearly show their scorn for dissenters ("shrieking Chicken Littles") in addition to their lack of knowledge about biodiversity⁴. The anti-biodiversity syndrome comes out of poor education (lack of basic science literacy), anti-science thinking and just plain greed. This package has deep implications for our society but especially for those rural areas where this thinking is more prevalent.

Third, the politics--traditional Republicans should realize that this is radical right-wing thinking, not conservative, but

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The Huron Valley Chapter Welcomes You to the
MICHIGAN BOTANICAL CLUB STATE FALL MEETING
SATURDAY, OCTOBER 12, 2013

GERALD E. EDDY DISCOVERY CENTER, Waterloo State Recreation Area



1:30 - 2:30 p.m. ***“Alaska Botany – Tall timbers to Tundra”***

Anton (Tony) Reznicek

HVC President, Assistant Director and Curator, University of Michigan Herbarium

Refreshment break follows talk

3:00 p.m. **Evergreen Lycopods Field Trip led by Connie Crancer**

leaves from center to a variety of ecosystems in this ice contact terrain.

10:00 – 1:15 p.m. MBC State Board of Directors Meeting
Main agenda item: 2014 Foray Planning

The Gerald E. Eddy Discovery Center is located at 17030 Bush Road west of Chelsea. Take I-94 to exit 157 (Pierce Road) and go north to Bush Road. Take Bush Road west to the center (left hand side).

For more information and map see next page.

Also Google <Gerald E. Eddy Discovery Center>

**Recreation Passport Required: \$11 MI resident annual, \$5 motorcycle resident,
\$30.50 non-resident annual, \$8.40 non-resident daily**

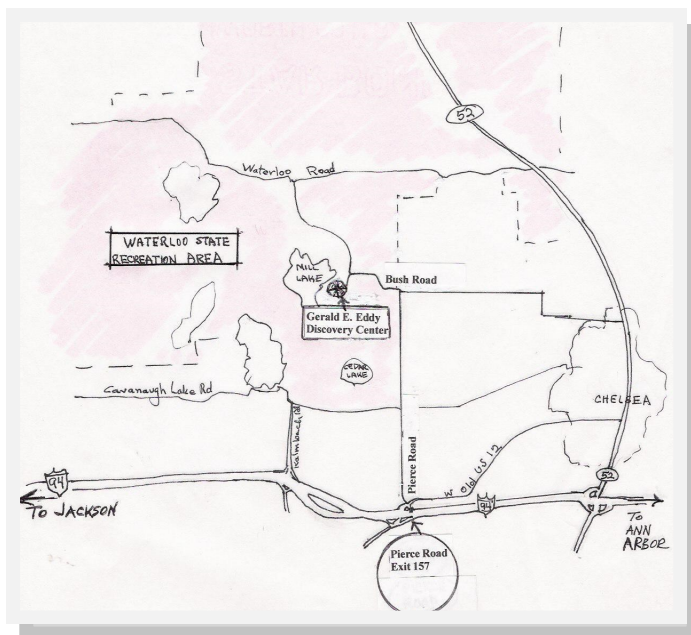
Michigan Botanical Club Fall Meeting—October 12, 2013

SATURDAY, OCTOBER 12

MBC STATE FALL MEETING AT GERALD E. EDDY DISCOVERY CENTER

[Recreation Passport Required for Entry*]

Huron Valley Chapter welcomes you to the 2013 State Fall Meeting Saturday, October 12 at the Gerald E. Eddy Discovery Center, a DNR facility in the 20,000+ acre Waterloo State Recreation Area west of Chelsea, Michigan, and just a few miles North off I-94 exit 157 via Pierce Road at 7030 Bush Road. The center itself which is open 10:00 – 5:00 Tuesdays – Saturday (12:00 – 5:00 on Sundays) introduces visitors to the geology, natural history and to the diverse habitats of the area. There are 15 miles of hiking trails that branch out from the center. The names: Old Field Trail, Lowland Trail, Spring Pond Trail, The Bog Trail, Oak Woods Trail, Lakeview Trail, Hickory Hills Trail, reflect the diversity of habitats in this ice contact terrain.



Talk: HVC President **Tony Reznicek** (Assistant Director and curator, University of Michigan Herbarium) will be our featured speaker, giving an illustrated talk at 1:30 p.m.: *“Alaska Botany – Tall timbers to Tundra”* Tony will share his botanical adventures in Alaska. The talk will be open to the public. Refreshments follow.

Field Trip: After the refreshment break an evergreen lycopod field trip led by Connie Crancer, Natural Areas Specialist at Matthaei Botanical Gardens, will leave the center around 3:00 p.m.

Below is a list of nearby accommodations for those who would like to come early, or stay over, to explore the geologically diverse Waterloo State Recreation Area which also has lots of camping opportunities (Camping Reservations: (800)447-2757, Phone: (734)475-8307).

The Comfort Inn, Chelsea 1645 Commerce Park (734) 433 8000	The Holiday Inn Express, Chelsea 1540 Commerce Park (734) 433-1600
Chelsea House Victorian Inn 118 E. Middle St, Chelsea (877) 618-4953 www.chelseahouseinn.com	Waterloo Gardens Bed & Breakfast 7600 Werkner Rd, Chelsea (734) 433-1612 www.waterloogardensbb.com

For more information: Google: Gerald E. Eddy Discovery Center,

or Waterloo Natural History Association:

<http://www.wnha.org/news.htm>

*Recreation Passport Required (Available from Secretary of State Office or park office):

Cost: \$11 MI resident, \$5 motorcycle resident, \$30.50 non-resident annual (\$8.40 non-resident daily pass)

—Sarah Nooden, HVC Secretary

MBC State Board Meeting

The MBC State board of Directors will meet in the auditorium from 10:00 a.m. to 1:15 p.m. The main agenda will be Foray 2014 Planning. Board members bring a brown bag lunch. Interested members are welcome.



2012-2013 Chapter Reports

Huron Valley Chapter year in review, 2012-2013

This year was a full one for meetings and field trips. 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.

Evening Programs 2012 – 2013:

SEPTEMBER - Isle Royale: Botany and the Backpacking Experience, presented by Faye Stoner, Naturalist for Washtenaw County Parks and Recreation, and MBC-HVC member. Fay gave us a beautiful photographic tour of Michigan's most famous wilderness, touching on the animals as well as the plants

OCTOBER - The Native Landscape Designs by Jens Jensen and His Contemporaries, presented by Robert E. Grese. The landscape architect Jens Jensen (1860-1951) celebrated the unique heritage and beauty of the midwestern landscape in parks and gardens throughout the region. While much of his work was centered in Chicago, Jensen created a series of landscape designs in Michigan, including much work for the Ford family in Southeast Michigan.

NOVEMBER - Spectacular Bryophytes of Winter, presented by Jim Toppin and Janet Traub of Lucas County, Ohio. Winter is a great time for looking at mosses and liverworts throughout Michigan. Take a close look almost anywhere and you will see scenery and diversity that are largely unnoticed. Jim and Janet showed us where to look and what to look for and also explored the fascinating role

of bryophytes in the history of life and the history of science.

JANUARY - Floral Gems Of The Matthaei Botanical Gardens and Nichols Arboretum Properties, presented by Connie J. Crancer, University of Michigan Matthaei Botanical Gardens and Nichols Arboretum, Natural Areas - Native Plants specialist. Connie gave us a lovely programmed presentation, with music, on the plants and scenes of the Botanical Gardens properties in the Ann Arbor area, including Horner Woods and Mud Lake Bog. Highlight were rare, endangered, threatened and special concern species found in the various properties which are under stewardship by the Matthaei Botanical Gardens and Nichols Arboretum during a two year intensive floral inventory by Bev Walters with Mary Hejna and Connie Crancer as assistants.

Our January meeting was our annual potluck dinner, and we also held our first Silent Book Auction Fund Raising Event. In total, we received \$284 in proceeds. This event is a win-win for not only those who purchased books, but also for the additional funds that it brought to HVC in support of our two scholarship programs—Student Foray Scholarships and Southeast Michigan Science Fair Awards.

FEBRUARY - Gymnosperms and Yew, presented by Neal Billetdeaux, SmithGroupJJR, landscape architect and woody plants expert. Gymnosperms are an ancient group of vascular plants that produce seeds but not flowers. Worldwide, they include a diverse collection of plant types. In Michigan, these are represented by a diverse assemblage including pines, junipers, larches, hemlocks, spruces, and yews. We had a survey of gymnosperm systematics, biology and ecology with a focus on conifers

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Photo by Sarah Nooden

Butomus umbellatus—Flowering Rush /
Delhi Metro Park

Spring Foray and Fall Meeting Schedule

YEAR	SPRING	FALL
2013	WPC	HVC
2014	State Board	WPC
2015	SEC	State Board
2016	SWC	SEC
2017	HVC	SWC

2012-2013 Chapter Reports (Continued)

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native to Michigan, which, though few in numbers compared to some areas of the world, are very important ecologically. (This was a precursor to the fieldtrip to view the conifers of Nichols Arboretum with Robert Ayotte, Saturday, March 16, 2013).

MARCH - Botany and Restoration at Ives Road Fen, presented by Chuck Pearson, Restoration Ecologist for TNC. Chuck has been leading the volunteer ecological restoration program at The Nature Conservancy's Ives Road Fen Preserve since 2004. He and the volunteers have restored more than 300 acres of floodplain forest, upland and prairie fen, using hand pulling, cutting and stump treating, foliar spraying, planting and prescribed burns. Ives Road Fen Preserve, near Tecumseh, has more than 700 species of plants and Chuck showed many of those plants in bloom along with some of the butterflies and other animals in the preserve that depend on the plants. The native species of the preserve are threatened by invasive species so we also heard about techniques used in restoration and the results.

This meeting also was the Awards Ceremony for the winners of the SE Michigan Science fair.

APRIL - The Ecological Roles of Fungi, presented by Paul Olexia, Professor of Biology, Emeritus, Kalamazoo College. Paul gave us insight into the diversity of fungi groups, and also their biology. Different life strategies were noted, which affect soil quality, and also have other wide-ranging consequences. Fungi are a largely unseen component of our world, but are tremendously important.

Field Trips, 2013:

We had a full and active Field Trip program this year thanks to our intrepid field trip coordinator, Robert Ayotte.

Saturday 16 March, 10 am to 1 pm: "Conifers of Nichol's Arboretum"

Trip Leader: Ron Gamble/Robert Ayotte

The Nichol's Arboretum displays conifers native to Michigan, North America, Asia, and more. This hike followed-up on the presentation by Neal Billetdeaux, and focused on conifer biology, ecology, and phytogeography.

Saturday 13 April, 10 am to 1 pm: "The Hunt for Harbinger-of-Spring at Dexter-Huron Metropark"

Trip Leader: Robert Ayotte

The lovely small woodlot near the Huron River has a wealth of wildflowers, and we looked for other early starters, such

as bloodroot and the large patches of false rue-anemone and trout lilies.

Saturday 20 April, 1:00 pm to 4:00 pm: "Eco-restoration Volunteer Workday & Wildflower Walk at Horner Woods"

Trip Leader: Sylvia Taylor

The Chapter always has educational and informative work days at Horner Woods, to keep the woods clear of garlic mustard, buckthorn, and other invasives, and do light trail maintenance. Horner Woods is a wildflower sanctuary NE of Matthaei Botanical Gardens.

Saturday 11 May, 10 am to 1 pm: "Spring Ephemerals of Nan Weston Nature Preserve"

Trip Leaders: Neal Billetdeaux and Robert Ayotte

The variety of plant communities at Nan Weston Nature Preserve at Sharon Hollow reflects the amazing underlying geological diversity of the area. There are so many great shows of flowers that a visit any time is spectacular, but the show is at its best in the spring.

Saturday 18 May, 1:00 pm to 4:00 pm: "Eco-restoration Workday at Horner Woods"

Trip Leader: Sylvia Taylor

Volunteers from the Michigan Botanical Club continued to remove invasive garlic mustard at Horner Woods, a wildflower sanctuary NE of Matthaei Botanical Gardens, one of our long-standing stewardship efforts.

Saturday 18 May, 9:30 a.m. to Noon: "Exploring the Flatwoods: Lakeplain Oak Openings Communities of NW Ohio and SE Michigan" Oakwoods (Huron-Clinton) Metropark near Flat Rock, MI

Trip Leader: Ron Gamble

The mature "flatwoods" have physiographic, soil, and vegetative characteristics that differentiate this ecosystem from floodplain forests and deciduous swamps. Pin oak, other large trees, and an open understory highlighted this walk.

Saturday 22 June, 10 am to 1 pm, "Kitty Todd Preserve" in Swanton, Ohio

Trip Leaders: Jim Toppin/Janet Traub

A favorite site, the Nature Conservancy's "Kitty Todd Preserve" has a great diversity of plants and animals in a variety of lakeplain habitats, including sand barrens, oak savanna, wet-mesic flatwoods, and tallgrass prairie.

2012-2013 Chapter Reports (Continued)

Saturday 3 August, 10 am to noon: "Swift Run Prairie"

Trip Leader: Bev Walters

Nestled between SE Ann Arbor and the headwaters of Swift Run creekshed, a little-known mesic prairie remnant is thriving. Owned by the Washtenaw County Drain Commissioner and stewarded in partnership with Ann Arbor's Natural Area Preservation, it has been transformed from several small room-sized prairie pockets to several acres of open prairie dominated by big bluestem and prairie dock. There were huge old burr oaks that probably stood sentinel when the area was first settled.

The 2013 MBC Spring Foray:

Huron Valley Chapter members were well represented at the Spring Foray, held this year at Calvin College in Grand Rapids. In addition to our regular membership, we had three supported students attending: Jenna Dorey, James Green, and Claire Malley.

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.

As before, the Chapter presented awards to the best botanical projects at the SE Michigan Science fair. This year, judges were Ruth Hart, Amanda Klain, and Irene Eiseman. Students received a gift card to Barnes and Noble bookstore, and hearty congratulations on their outstanding accomplishments. As before, we gratefully acknowledge the Michigan Botanical Foundation, whose continued financial support provided funding for the Science Fair Awards program and the volunteer efforts of the expert judges. Several of the Student Award winners from Middle School Division attended the HVC award ceremony held March 18th at Matthaei Botanical Gardens.

—Tony Reznicek, HVC President

Southwest Chapter Report: 2012-2013 Programs and Field Trips

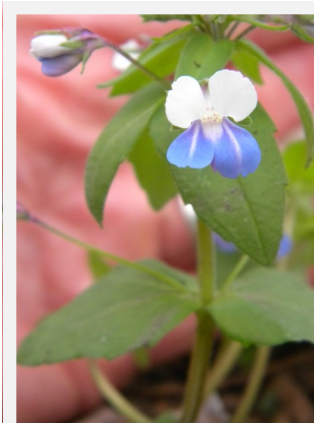
During 2012, we focused our field trips on Oshtemo Township, which is directly west of Kalamazoo and is facing significant development pressure. In conjunction with the township council, our aim was to bring attention to some of the gems of the area.

SEPTEMBER: Hidden Savanna Nursery: Black Oak Barrens

Chapter member Chad Hughson, owner of Hidden Savanna Nursery in Oshtemo, gave us a tour of his native plant production facilities and 40 acres of former pine plantation. He is restoring his property as black oak barrens, a characteristic plant community in Oshtemo.

OCTOBER: State Fall Meeting

We hosted the State Fall meeting at the lovely Kalamazoo Nature Center. Dr. Dennis Woodland gave a great program entitled, "*The Past, Present, and Future of Medicinal Plants*." Then we enjoyed a walk through the beech-maple and floodplain forests of the Kalamazoo Nature Center.



Blue-eyed Mary (Collinsia verna), one of the treasures of the Kalamazoo Nature Center.

Photo by Tyler Bassett.

NOVEMBER: Instead of our regular meeting, we held a planning meeting, open to the whole membership.

DECEMBER: Off the Beaten Path in China: Trekking in Yunnan and Gansu Provinces

Chapter member Kevin Haight told us of his 11 months teaching English in Beijing, China with his wife Melinda Russell-Haight. They took several trips through the Chinese countryside, and Kevin shared stories and photos that meandered between the botanical and cultural.

2013 programs and field trips

In 2013, we focused on the Kalamazoo and Portage urban areas, seeking answers to the following questions: Why do we value urban natural areas? Are they only suited for passive recreation or can they be part of a broader conservation strategy?

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2012-2013 Chapter Reports (Continued)



Group of wily botanists at West Lake Bog field trip on August 10, 2013.

Photo by Raffica LaRosa.

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FEBRUARY: Urban Natural Areas: How to Show Why You Care

This talk, given by Nate Fuller of the Southwest Michigan Land Conservancy and chapter president Tyler Bassett, addressed the questions above and more, discussing both the challenges and opportunities that are unique to urban natural areas. It focused on the benefits they provide to humanity (ecosystem services) and how they serve as a useful tool for introducing people to the value of nature.

MAY: After a drought of activities, we hit hard in May . . .

Spring Wildflowers at Trillium Ravine

Trillium Ravine is a tiny but important Michigan Nature Association site in Berrien County, bragging at least three species of *Trillium* (*T. grandiflorum*, *T. recurvatum*, *T.*

sessile) as well as a dense carpet of spring ephemerals. Chapter member Ken Kirton led the way on this trip.

Edible and Otherwise Useful Plants

We met at the Briarwood Valley Arboretum, an ecologically-minded condominium complex with woods, ponds, and a restored prairie, to learn a little bit about what you can *do* with all these plants! Local naturalists Phil Johnson, and Norm and Rita Bober enthralled us with the variety of common and uncommon plants that surround us and are edible and often quite tasty!

Asylum Lake Celebration: Oak Woodlands

The Asylum Lake Preservation Association celebrated the ten-year anniversary of the dedication of Western Michigan University's Asylum Lake Preserve. As a part of this celebration, Chapter President Tyler Bassett co-led, with

2012-2013 Chapter Reports (Continued)

WMU's Steve Keto, a trip through the oak woodlands of the preserve.

JUNE: Kalamazoo River Floodplain

The Kalamazoo Nature Center's lead naturalist, Dan X. Keto, gave us a guided tour of a section of the Kalamazoo River Valley Trail near Parchment. We took in both trees and wildflowers, and even coaxed some worms to the surface with ground mustard!

JULY: Gourdneck State Game Area: Oak Barrens

Chapter member Chad Hughson walked us through the incredibly diversity of this very urban State Game Area, smack dab in the center of Portage. Gourdneck boasts high quality prairie fens, and some pretty incredible remnant oak barrens, and even a few rare prairie species!

AUGUST: West Lake Bog: Ferns and Orchids and Mosses, oh my!

Chapter members Dave Wendling and Lynn Steil gave us an in-depth look at this gem of an urban natural area, with its diversity of *Sphagnum* and other mosses, ferns included chain fern (*Woodwardia virginica*), and oh yeah . . . a bunch

of orchids, including the state-listed yellow fringed orchid (*Platanthera ciliaris*) (see picture).

Tyler Bassett, SWC President

White Pine Chapter 2013 Year in Review

This has been a banner year for the members of the White Pine Chapter! We hosted our fifth MBC State Spring Foray at Calvin College, Grand Rapids, on May 24-27, we continued to have new members join our chapter, and every field trip and meeting was spent under clear, sunny skies. Our 2013 schedule featured both programs about and field trips to wetlands, prairies, sand dunes, Lake Michigan shoreline, bogs, marshes, fens, woodlands, and savannas throughout Western Michigan. There is such a wide variety of ecological areas near us that we will never be at a loss to find yet another new area to investigate and to discover new wildflowers.

Since the White Pine Chapter was founded in March, 1989, we have had the good fortune to be able to meet monthly at Grand Valley State University. The University does not charge any fees, allows us to use all of their audio-visual equipment, and provides us with large, excellent meeting rooms. We have met in three different university buildings over the years, and each location was excellent. We now meet at the Niemeyer Hall in the Honor Students Building, in Room 148 on Saturdays from October to April. Once again, we wish to thank the university for their cooperation in sponsoring our White Pine Chapter. We also appreciate the assistance given us by Dr. Mark Luttenton, who is our mentor who helps us with scheduling and programs.

On January 19, at GVSU, our annual Photo Fest was scheduled. We had 24 members attending on a clear day after snow storms. Last year, on December 8, we also had good weather when Dr. Jianha Li, professor at Hope College, presented his research on tea plants. During this first indoor meeting of the New Year, our WPC members have a chance to share their wonderful photography skills with us. Our WPC has many outstanding photographers who each brought a series of photos from Michigan and many other places. Several photos were from our many field trips. Seven members presented programs.

Our first set of photos were by **Ranger Steven Mueller**, who shared beautiful wildflower shots from Fernwood and

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Photo by Raffaella LaRosa.

Yellow fringed orchid (*Platanthera ciliaris*) at West Lake Bog.

2012-2013 Chapter Reports (Continued)

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Hemlock Crossing. We saw photos of a Burr Oak, Shooting Star, Blood Root, mushrooms, robin eggs and Trout Lilies.

Next, **Stephen Ross** had an excellent collection of fall leaves and vistas of colored foliage taken throughout Mecosta County. An interesting set showed a mother Canada goose with her little goslings. The winter scenes of snow and ice were beautiful. We saw turtles, beavers, and dragon flies.

Sue Chambers had many lovely shots taken at Kitchell Linquist Dunes. Just a few were Hoary Puccoon, Parsnip, Marsh Marigold, Pink Ladies-Slipper, Foam Flower, Indian Paint Brush, Trillium and Skunk Cabbage.

Peg Lepo showed lovely plants growing near her home. Just a few were Split Leaf Blood Root, Blue Bells, Red Trillium, Pitcher Plant, Tumbleweeds and Bouncing Bet.

Kathy Neff showed many early spring plants and flowers growing in bogs, woods, and fields. Her photos included lots of mosses, British Soldiers, bog scenes, open water plants, ferns, mushrooms, Primrose, Lupine, orchids, and Paw Paw flowers.

Janet Skeberdis had beautiful photos taken at Wilderness State Park. We saw Shad-Bush, Sarsaparilla, Calypso Orchid, Coral Root, Indian Paintbrush, Birds' Eye Primrose, Fire-Weed, Wood Lily and Walking Fern.

Fred Nietering showed photos from his huge collection including shots of our WPC members at different field trips over the years! We saw Cardinal Flower, Butterfly Weed, Lobelia, Blue-Eyed Mary, Black-Eyed Susan, American Lotus, Meadow Beauty, Culver's Root, Painted Trillium, Gay-Wings, Fringed Gentian and toadstools. There were lots more to see.

As always, many thanks go to **Robert Riepma** who provided the technical assistance to help the presenters.

On February 16 Melanie Manion presented a program on non-native plant species. Melanie is the Natural Resources Management Supervisor for the Ottawa County Parks and Recreation Commission. Her excellent program used a series of colorful illustrations to describe plants and parkland showing non-native plantings. Melanie began her program by showing park lands covered by acres of Bluebells, close-up shots of Green Dragon, Meadow Beauty and wild rice. She said that 90% of birds eat insects, and that 90% of insects are specialized, meaning that they will only eat a special type of plant.

Melanie defined the types of invasive plants. There are the exotic variety (non-native), the invasive type, weeds, Purple Loosestrife, Oriental Bittersweet and Buckthorn. The cause of the spread of these plants is contaminated crops, ballast, ornamental plants, erosion control, vehicle distribution and human disturbance. There is a growing problem of Japanese Knot-weed and also Kudzu near the Lake Michigan shore. All of us enjoyed Melanie's non-native program and had a chance to ask questions.

On March 16 a group of 25 members met at Bill and Shirley Martinus' home on the shore of Lake Michigan near Holland to see their sugar bush in operation. As we drove through the forest of large sugar maple trees, we saw the large closed blue plastic bags that collect the sap. To protect the health of the trees, Bill calculates how many taps can be put on a tree. After tapping, the sap flows into the collection bags ready for Bill to collect and begin to boil. It takes 40 gallons of sap to make one gallon of maple syrup.

We all stood in front of the special building where the sap is processed to hear Bill explain how he makes maple syrup. A large, open, wood burning container was boiling away



Photo by Sarah Nooden

Lobelia cardinalis —
Cardinal Flower /
Delhi Metro Park

outside the building, sending up a huge column of steam. (The weather was cold and snow was on the ground.) The sap, in a reduced form, was moved to a secondary boiling unit inside, where the process was continued. Bill showed us the equipment that is used to test the syrup and determine when correct density is achieved.

2012-2013 Chapter Reports (Continued)

The entire process is a great deal of work, but obviously something Bill enjoys. The result is delicious maple syrup! To end our visit, Shirley provided dishes of vanilla ice cream which we covered with warm maple syrup. After thanking Bill and Shirley for this special meeting on a snowy day, we walked across their property to the cliff overlooking Lake Michigan. Although it was a stiff, cold wind, it was a beautiful sight. Bill said that only one day ago there had been icebergs on the lake, but the wind had knocked them apart. So spring was coming!

On April 27, we had a large attendance to hear Fred Bevis present his program on the Natural History of the Greater Yellowstone Ecosystem. Fred is a retired GVSU professor and has visited the Yellowstone and Yukon area 61 times. His PowerPoint program with his photographs was excellent, but his dialogue on the Yellowstone area was outstanding. According to Fred, in 12 years Glacier National Park will have no more glaciers. He feels the fire of 1988 was the best thing that happened to the Yellowstone area as it created new meadows, new vegetation and an expanded elk herd has occurred.

Fred explained that the Greater Yellowstone Ecosystem is not large enough to handle the needs of all the animals. Lack of grazing areas and 13 years of drought is holding back the number of animals during the summer. The Y2Y (Yukon to Yellowstone) area is 2000 miles long by 300 miles wide. Fred showed many photos of the animals in the park, including buffalo, bear, elk, deer and many birds. His wildflower photos were beautiful. After the program, Fred answered questions about the Y2Y. It was remarkable to hear Fred speak on this subject, as he is so well informed because of his lifelong devotion to this area.

On May 24-27, our White Pine Chapter hosted the MBC State Spring Foray at Calvin College in Grand Rapids. This was our fifth time as a host chapter. Because of the work of preparing and accommodating all of the details for the foray, we did not schedule a separate WPC field trip in May. We had incredible weather with glorious blue skies and comfortable temperatures. The mosquitoes were a problem, but the cooler mornings helped with an assist from a little DEET.

According to the participants, the field trip leaders all did a wonderful job and presented many areas to botanize. We scheduled 18 field trips, all led by experts who were mostly WPC members. Our three evening speakers were outstanding and thought provoking. There were many compliments about the Calvin campus and their hospitality. We are so glad that the more than 100 participants were pleased with the Foray.

During Friday evening's meeting, the MBC Vice-President, Emily Nietering, announced the winner of the MBC Distinguished Service Award. Much to his surprise, the recipient was our own WPC member Roger Tharp. Roger's contribution to our chapter and to the MBC has been tremendous, and we all give our congratulations. It is a well deserved honor!

Our chapter members, with the assistance of the Michigan Botanical Foundation, sponsored five university students to attend the Foray. They were David Greening from Grand Rapids Community College, Kevin Nietering from Grand Valley State University, Melena Grady from Grand Rapids Community College, and Ian Noyes and Dortha Leisman from Calvin College.

They attended every meeting, were enthusiastic participants on field trips, and enjoyed meeting other MBC members during their stay. We were so proud of these 5 students and wish them much success. This was the 17th year our chapter



Photo by Craig Elston.

has sponsored students to a Foray.

Please read the article in this copy of the MBC Arisaema about the MBC 2013 State Spring Foray which gives detailed information.

On June 8, Ed Smith gave us an extensive tour of the Sawyer Nursery in Hudsonville on a hot but beautiful summer day. Ed gave us a detailed overview of this very large nursery, which is one of the largest growers and suppliers of perennial plants in the nation. They produce product for the "big box" stores like Walmart, Home Depot, as well as other garden centers and greenhouse growers throughout the nation. Besides this huge nursery location, there is another large facility in northeast Alabama.

(Continued on page 12)

2012-2013 Chapter Reports (Continued)

(Continued from page 11)

Ed led us through acres of huge greenhouses to show where seedlings are planted, where many propagating cuttings are growing, and then where the shipping of finished plants takes place. The huge greenhouses are entered through interlocking walkways leading to tremendous areas that can hold plants of every description. Some areas were air conditioned and some areas were regulated by fans.

After the tour, we enjoyed an air conditioned room with refreshments while Ed answered lots of questions. Our group learned a lot about plant propagation from Ed. He works for Sawyer Nursery as a Plant Health Manager and he thinks of the nursery as a unique ecosystem with different micro-habitats.

On July 20, Cheryl Tolley took us through her gardens and fern grotto at Sandhill Farm near Rockford. Cheryl developed her gardens by rescuing plant species and maintaining pre-existing diversity on this large farm. She has an area of native prairie plants including 27 woodland species and 9 types of ferns.

The group enjoyed walking through this amazing area and learning about the various plants from the descriptions given by Cheryl. The woodland plants were beautiful and the ferns were so interesting. Cheryl is a professional gardener and teaches classes at Frederik Meijer Gardens. She is the past president of the Wildflower Association. We were so pleased to have Cheryl show us her remarkable farm and to tell us about the wildflowers. Of course, there are a lot of birds to be seen there in the gardens.

On August 14, on Wednesday, Dr. Mary Jane Dockeray led us through the Blandford Nature Center in Grand Rapids. It was a lovely summer day and we enjoyed meeting Mary Jane at the entrance to this interesting nature center. She gave a detailed history of the center and told how it has grown from 17 to 143 acres. One of the student's art projects was a colorful tile wall mural of a woodland scene. The scene depicts Mary Jane and a young student in the woods. It is a beautiful art creation and it took two years to complete.

A rock garden was enclosed with labels on the stones surrounding the plants. Many other gardens are throughout this extensive nature center. It is amazing to see so many owls and other animals everywhere. During our visit we were also able to hear about Mary Jane's very recent trip to Ireland. We had a great afternoon.

On September 14, Cal Lamoreaux will be our leader through the Audubon Club's Maher Sanctuary to see sedges, gray

dogwood, asters, goldenrod, and lots of birds. This sanctuary has four types of wetlands and also upland moraine features. A circle loop hiking rail of over a mile is about half on a boardwalk, giving easy access for nature viewers.

The sanctuary has at least 9 species of ferns, 19 sedges, 6 vines, 30 grasses, 140 forbs, 25 shrubs, and 6 different trees all of which are catalogued. This will be an excellent field trip to see in the fall with autumn flowers in bloom.

Cal has degrees from MSU in electrical engineering and math, and in Michigan Conservation from WMU. He is a retired teacher and has led many field trips for various groups. He is a lifelong student of Natural History including birds, mammals, plants, astronomy and geology.

On October 5, Roger Tharp will lead us on the last field trip this year when we visit the Muskegon Lake Nature Preserve which consists of an extensive forested trail system. There is an observation tower overlooking the South Channel of the Muskegon River along which is located an elevated boardwalk. Close to the Preserve location, under the Muskegon River South Channel Bridge, freshwater sponges will be observed. This trip will offer an unusual opportunity to view both terrestrial and aquatic plants and a less known invertebrate.

On November 2, Roger Tharp will present an indoor program on "Pollens of Flowers". Many varieties of flowering plants and types of pollination will be shown. This is our first indoor meeting at GVSU for the winter season.

December – Our chapter will not hold a meeting this month as it can be canceled by a snow storm. Also many members have family commitments that prevent them from attending a meeting. Our next meeting will be on January 18, 2014 at GVSU.

The successful meetings and field trips that we enjoy each year are due to the excellent leaders who share their time and talents during each program or field trip. They are owed many thanks for their efforts on our behalf. We are looking forward to an active 2014, full of many more interesting and varied sessions that enable our members to continue learning about the amazing ecology of West Michigan. We strive to encourage people of the community to attend our meetings, and we maintain our affiliation with many nature organizations.

Dorothy A. Sibley

White Pine Chapter President

2012-2013 Chapter Reports (Continued)

Southeastern Chapter Report 2012-2013

The SEC meets on the first Sunday afternoon of the month at 2 pm in the Visitor's Center at Heritage Park in Farmington Hills. Heritage Park is a lovely undisturbed valley of 211 acres on the Rouge River and features 4 miles of hiking trails through woodland, meadow and wetland habitats and a nature center. We invite all MBC members and friends to visit Heritage Park and join with us for our monthly programs.

In the fall of 2012, we began our program year by having a field trip to the **Cranbrook Institute of Science** on October 7. SEC member Lisa Appel, who is the Watershed Education Coordinator there, gave us a tour of the Erb Family Science Garden. The Science Garden features Michigan native plants organized into zones representative of regional ecosystems. It is located in a large courtyard, surrounded by the Science Museum, and also features flow pools and a vapor room. The tour began with a brief trip to the Billington Herbarium, housed in the Science Museum, which contains over 56,000 specimens.

In November, our program was given by Roseann Kovalcik of Wild Birds Unlimited in Grosse Pointe Woods. Her presentation was entitled "**Landscaping to Attract Birds.**" She showed photos of birds, both resident and migratory, taken in her small urban yard. She discussed native plants that are attractive to birds and the needs of birds throughout the year. We all left with handouts to help us make our yards more inviting to birds.

In December, long-time SEC members Don and Joyce Drife showed us a part of Michigan many people just drive through to get to somewhere else, "**Michigan's Jack Pine Plains.**" During their years of owning property in the area, they have noticed and photographed some of the unique flora and fauna of the plains. We always enjoy their entertaining programs, and this one was no exception.

Our next meeting was in February for our annual Gourmet Dinner. We all enjoyed some fine food and conversation followed by a program about the "**World of Butterflies and Moths,**" given by SEC members Ray and Pat Coleman. Their stunning photographs of butterflies and moths from around the world, including some very unusual caterpillars, were very appealing at this time of year. It was another of their outstanding programs that leave us wanting more.

"**The History of Heritage Park**" was our March program. Carol Fink, nature center programmer at the Heritage Park Discovery Center, related some of the natural and social his-

tory of the area that is now Heritage Park. She brought some skins and mounted specimens from the nature center to illustrate the program.

Royal Oak Nature Society member Mary Fredricks shared her knowledge with us at our program in April entitled "**Fungus Fundamentals.**" This enthusiastic fan of fungi shared basic information about the types of fungi illustrated with photos taken in area woods. She has since formed the Friends of Fungi group within the RONS and held several walks during the summer for those interested in learning more about fungi.

The spring and summer months brought many field trip opportunities. Recently we saw the lovely North American Lotus in full bloom at our field trip in mid-August to Sterling State Park led by Milton French. Milton has been surveying the flora at Sterling this summer and has rediscovered several populations of special concern species.

Since our members live in different communities in the metro Detroit area, many from the SEC are also active in other local organizations such as the Lakeplain Chapter of the Stewardship Network, the Holliday Nature Preserve Association, the Southeast Michigan Land Conservancy, Royal Oak Nature Society and Friends of the Rouge to name a few. There is never enough time to participate in all the great programs and field trips offered in our area.

We continue to sponsor students to the Spring Foray. Our Joan Robb Student Scholarship recipients for 2013 were Kyle Kandilian, Jennifer McCue and Wade Rose, all of whom are students in the Environmental Sciences program at the University of Michigan Dearborn campus.

We thank all our program presenters and field trip leaders and encourage everyone to get out and enjoy all that nature provides.

Emily Nietering
SEC President

Special Memberships Report

It is an unexpected pleasure when an occasional note arrives from a member reporting on a botanical observation, has a question, or just wants to connect with the Club. One letter in particular is worth sharing in part. From a new member; "Let me express my excitement in learning about the Michigan Botanical Club and the opportunities the Club affords its members and community. We are so fortu-

(Continued on page 14)

2013 MBC Distinguished Service Award Recipient

The MBC has chosen Roger W. Tharp as the recipient of the MBC 2013 Distinguished Service Award. Roger joined the WPC on August 9, 1993, and has been an active member of the White Pine Chapter since that time. He has been a program committee member, a field trip leader to many diverse ecological sites, and is one of their favorite indoor program speakers. One of his specialties is the field trips to locate freshwater sponges.

Roger has served two terms as a Director-at-large for the Michigan Botanical Club representing the White Pine Chapter. He has been very active in serving the WPC by helping to plan their past MBC Spring State Forays including the 2013 Foray at Calvin College.



On July 21, 22, and 23, 1995, there were 21 people who drove up to Pellston to see the U of M Biological Station with Roger Tharp as their leader. He did a lot of preliminary work to make the trip a success. Roger showed them the rare Yellow Monkey Flower (*Mimulus glaberratus*) plus the fabulous Grass Lake Sanctuary on Lake Huron, and much more.

Roger received his degrees from Olivet College, and has continued to stay active in college activities. Roger taught Biology for 32 years at the Mona Shores High School in Muskegon. Following that he spent 10 years as a science instructor aboard the Grand Valley State University Research-Education vessel, the D.J. Angus, which operates out of Grand Haven. The vessel takes groups of 25 to scientifically test the waters of Lake Michigan and adjoining rivers and lakes.

Roger is an active member of many other nature organizations and serves as an officer or consultant. Because of his teaching ability, he is an excellent field trip leader who explains interesting details about wildflowers, birds, geology, and ecology. Roger is an outstanding photographer of wildflowers and birds, and his programs are always worthwhile.

Another facet of this talented WPC member is his ability to create original works of needlepoint art on large canvas. Roger has many framed needlepoint creations of wildflowers, birds, or other nature subjects which he has exhibited throughout Michigan at Nature Conferences and other meetings. How he finds time to do this is remarkable.

Roger has made many contributions to the MBC and his community and for this we are proud to recognize him with a Distinguished Service Award.

The MBC also has a Lifetime Achievement Award to present for 2013. The selected individual was not able to be present at the Spring Foray so the award will be given this fall at a chapter meeting and the recipient will be revealed in the Spring issue of *Arisaema*.

Emily Nietering
State Vice-President



(Special Memberships Report—Continued from page 13)

nate to live in such a beautiful state, amongst the prized natural resources and recreational opportunities, and I'm so glad that there are people, clubs, and programs to endorse these features. Thank you and all that the MBC does to bring awareness and support to our natural resources."

Surely there are many "nature-lovers" out there who don't know about our Club and would benefit from the many fieldtrips, lectures, and the botanical knowledge our members have to offer. This year the Special Memberships group maintained a total membership of 72; consisting of 35 members in Michigan, and another 10 in Wisconsin. The remaining members are spread far and wide across 15 States and Canada.

With the announcement of the winding down of the Red Cedar Chapter, 9 members transferred their membership to the Special Memberships group and 3 new members joined the club. We send a hearty welcome to all!

Regarding our website, if you hear about a fieldtrip or are planning one in your area, consider posting a blog on our website. <http://michbotclub.org/special-memberships-news/>. Autumn is a great time for exploring out of doors.

Best regards,
Irene Eiseman.

MBC 2013 Spring Foray, Calvin College, Grand Rapids, Michigan

Report of the MBC 2013 Spring Foray Hosted by The White Pine Chapter

The members of the White Pine Chapter planned for a year to present this MBC 2013 Spring Foray on May 24-27 at Calvin College, Grand Rapids, Michigan.

We wanted the MBC members to have a chance to see the remarkable sand and bog areas that are prevalent in western central Michigan. We chose Calvin College as the location for the foray as it is easily accessible for statewide residents.

Calvin College provided excellent rooms, food facilities and an outstanding campus including forests, plants and wildflowers. Another asset was the availability of many near-by interesting botanical areas surrounding Calvin College. We planned eighteen separate field trips which included a botanical cruise on the Annis Water Resources' W.G. Jackson vessel on Lake Michigan. The field trips included sand dunes, prairies, woodlands, savannas, wetlands, fern grottoes, ravines, oak openings, bogs, rivers, and Lake Michigan. All field trips were led by expert botanists, most of whom were WPC members. We had 44 participants choose to see Saul Lake Bog on Monday, so we split the group, provided another leader to guide them around an area of ongoing prairie restoration, and everyone got to enjoy both experiences. We also had many members go for a day at Meijer Gardens. We never had scheduled field trips on the last ½ day of the Foray, but we were glad that we did this time.

Our three keynote speakers were outstanding. On Friday evening, Judge Ed Post presented "A Photographer's Celebration of Wild Birds and Flowers". Ed is well known for his excellent photography and he leads annual workshops and photo tours. His work has been widely published and he has received honors and awards in contests and exhibits. Judge Ed Post serves as a Circuit Judge for Ottawa County, where he lives with his wife, Barbara.



WPC President Dorothy Sibley opening the evening program.

Our White Pine Chapter is proud to report that this is the fifth time Ed has presented an excellent wildflower program for our chapter's MBC State Spring Forays. The first time was in 1993 at our first Spring Foray, and on every WPC sponsored foray on 1998, 2003, 2008, and now, Ed has shown another botanical program. He has always been our opening speaker on the Friday evening program. We are very fortunate to have such a remarkable member!

On Saturday evening, we featured Dr. David Warners, professor at Calvin College, who presented "Loving Our Downstream Neighbor: Plaster Creek Stewards Watershed Restoration Initiative". Plaster Creek has been described as the most polluted stream in West Michigan. David discussed some of the history surrounding this creek, and he gave a comprehensive talk about the Plaster Creek Stewards. This group consists of a collaboration of Calvin faculty, staff and students. They are working together with community partners to restore the stream back to its former health and beauty.

David Warners grew up in Grand Rapids and graduated from Calvin College. His doctorate in Botany was from the University of Michigan. He and his wife, Teri, worked for the Christian Reformed World Relief Committee in Tanzania from 1990-1992. Dave is an advocate for using native landscape plants at schools, parks and other locations in the West Michigan area. Our WPC members are proud to say that David Warners was one of our many sponsored university students and is currently a WPC member.

On Sunday evening, Dr. Alan Steinman, who is the Director of the Annis Water Resources Institute, gave an excellent address covering an overview of climate change. His presentation described the potential implications of climate change, temperature and water levels, extreme weather events, and possible solutions to these issues. Alan is a Professor of Water Resources at Grand Valley State University.

Dr. Steinman holds a Postdoctoral Research Fellowship from Oak Ridge National Laboratory, plus many other Botany degrees. He has been the Director of the Grand Valley State University's Annis Water Institute since 2001. He has published over 120 scientific articles and book chapters. Alan has research interests including nutrient cycling in aquatic ecosystems, sustainability of water resources, restoration ecology, and algal ecology. The Annis Water Resources has two vessels that take groups to tour Lake Michigan sampling water quality for dissolved oxygen,

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MBC 2013 Spring Foray, Calvin College, Grand Rapids, Michigan

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pH, and turbidity. After his informative program, he was able to answer the many questions from the audience.

Our wonderful WPC members deserve a special thanks for their enthusiastic support during this MBC State Foray. Our chapter members all helped to make this foray a success for the more than 100 people who were in attendance.

The WPC members who organized the MBC 2013 State Foray were outstanding. The chairperson of the planning committee was Jelanie Bush, who worked all year to expedite this Foray, which was the fifth MBC State Foray hosted by our WPC members. Dave Chambers did a great job arranging and assigning the rooms and board at Calvin. Registration was under the direction of Barbara Lukacs Grob who worked long hours on the registration and preparing groups for field trips. The food selections were taken care of by Lynne Kinkema and Arlene Obetts, and the meals were wonderful. Robert Riepma, our treasurer, collected the checks, paid bills, and prepared an excellent handbook for the Foray. He included a detailed map of every field trip we offered, thus giving participants the necessary directions for every location. Roger Tharp took the lead in providing quality keynote speakers and informative field trip leaders. He was assisted by Dorothy Sibley and Janet Skeberdis.

As in the past, The Michigan Botanical Foundation assisted local chapters in sponsoring students to the MBC State Spring Foray. This year we welcomed eleven university students from across the state. They attended evening keynote speakers, participated in field trips and mingled with other MBC members. The students were enthusiastic and enjoyed the opportunity provided by the Foundation.

During Friday evening's meeting, the MBC Vice-President, Emily Nietering, announced the winner of the MBC Distinguished Service Award. Much to his surprise, the recipient was our own WPC member, Roger Tharp. Roger's contributions to our chapter and the Michigan Botanical Club as a whole has been tremendous, and we add our congratulations. It is a well deserved honor.

According to the participants, the field trip leaders all did a wonderful job and presented many areas to botanize. Many areas were even new to our members. All three evening speakers were outstanding. Many participants have written or emailed me with many compliments about the Calvin campus and their hospitality. All reported that their field trip leaders were excellent. All in all, everything went better than we could have hoped for!

Dorothy A. Sibley



Students by Chapter: Jenna Dorey HVC, James Green, HVC, Claire Malley, HVC, Kyle Kandilian, SEC, Jennifer McCue, SEC, Wade Rose, SEC, Melena Grady, WPC, David Greening, WPC, Dorthea Leisman, WPC, Kevin Nietering, WPC, Ian Noyes, WPC

Minutes of the State Board Meeting: May 25, 2013 — Calvin College, Grand Rapids, MI

Members present: Becky Csia, David Chambers, Craig Elston, Irene Eiseman, Patrick Fields, Richard Fowler, Judy Kelly, Robert Kelly, Ken Kirton, Pam Laureto, Emily Nietering, Larry Nooden, Sarah Nooden, Tony Reznicek, Janet Skeberdis, Dorothy Sibley, Lynn Steil, Bev Walters, Alice Ward

Call to Order - Judy Kelly 5:03pm

Approval of Agenda

a.) Minutes of Jan. Board meeting: Judy Kelly moved to approve the minutes of the Jan. 26th, 2013 Board meeting. Dorothy Sibley seconded; Motion carried.

b.) Treasurer's Report: Larry Nooden asked that the Smith funds (CD) be identified as such in the report. Robert Kelly confirmed. Judy Kelly moved that we accept the Treas. report; Bev Walters seconded. Motion carried.

Robert's Rules of Order - Judy Kelly reminded everyone that each person has the opportunity to speak once before one can speak a second time.

Announcements

a.) Update president's email list. Judy Kelly said that she would add David Chambers to the president's list.

Committee Reports

a.) Web Master - Aaron Fown; no report

b.) Nominations - Sarah Nooden said that nominations would be taken in 2014. c.) Corresponding Secretary - Mary Danforth; no report

d.) *The Michigan Botanist* - Todd Barkman - Judy Kelly reminded everyone that Todd wishes to step down as his term is up. This will be taken up under Old Business.

e.) Treasurer - Bob Kelly - Bob said that he will be sending out a request for dues in July. Things look good.

f.) Fall meeting 2013 - The MBC fall meeting will be held at the Discovery Center; Waterloo Recreation Area, Oct. 12th. There were concerns over scheduling and time allocations for the fall foray. In this context Pam Laureto

announced that the MBF is required to have a meeting once a year. Since they are meeting tomorrow (May 26th) a meeting in the fall may not be needed.

New Business

a.) Report on back issues of *The Michigan Botanist* - Patrick Fields forwarded a message from Caryle Spence that many members have been getting back issues and the number of boxes have been reduced from 17 to 7.

Old Business

a.) Mission statement - Larry and Sarah Nooden - The mission statement committee offered a potential mission statement. A few Board members questioned the meaning of "wise use" in the statement as it is a term with political implications. Pam Laureto reminded everyone that to change the Aims is a constitutional change and requires certain procedures. She suggested that everyone give the committee (Sarah Nooden, Larry Nooden, Tony Reznicek, Ruth Hart) our ideas for both the mission statement and Aims even though it may still require certain procedures under the constitution. Becky Csia reminded everyone that the club is a C-4 organization and is allowed to conduct political activity. Sarah Nooden will ask for recommendations from the Board on the Mission Statement and Aims with a date due. Judy Kelly said that she will send a digital copy of the constitution to the entire Board.

b.) Status of RCC - Patrick Fields said that he sent out a request for involvement in RCC to approx. 40 people. He received only 8 replies and 7 said "No, too busy". Patrick felt that this basically meant that the chapter was defunct. Steve Davis (treas.) will send bank funds (received for foray) back to the Foundation but hold on to funds needed to pay for *The Michigan Botanist* for the remaining year, 2012. Irene Eiseman said that she had received 9 requests to continue as "special" members. Pam Laureto thanked Patrick for the tremendous amount of work on behalf of the chapter, Board and Foundation. Discussion followed regarding special member representation. Pam Laureto made the point that

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Minutes of the State Board Meeting (Continued)

(Continued from page 17)

special member representation on the State Board does not occur now and would probably require a change in the constitution. Judy Kelly asked the Board for any suggestions. Pam Laureto suggested a constitution committee be formed. Judy Kelly said that a constitution committee could be formed at the fall meeting. Irene asked Patrick if he would inform the present members of the status of the chapter and that they can become "special members". Pam Laureto and Judy Kelly said that they will figure out the number of *Michigan Botanist* issues to print for RCC and they will inform Patrick.

c.) Search for new editor for *The Michigan Botanist* - Judy Kelly reported that Todd Barkman could not find a replacement for his position as editor. Tony & Pam said that they thought it was the job of this Board to search and replace. Pam said that she thought Todd had asked the old *Michigan Botanist* Board for interest. Tony said that Garrett Crow might be interested in the job of editor. Judy Kelly said that she would approach him. Discussion ensued regarding the position of editor. Everyone was reminded that there is no stipend except for the business manager. Editors have a maximum of 6 yr. term. The job can be daunting. It was suggested that there could be co-editors or associate editor, or ask the editorial Board to help out with the duties of editor. There was general agreement that these ideas be explored. Pam Laureto said that this could require a constitutional move as well. She said that she would help to make the duties of the editor clear. Judy Kelly said that she would ask the present business manager if there was still interest in the position.

d.) Spring Foray 2014 planning - Judy Kelly reminded everyone that the State Board would be organizing the 2014 foray. Venue suggestions given by Board members included Royal Botanical Gardens in Hamilton Ontario, summer foray in the upper peninsula. Discussion ensued regarding difficulties of distant planning and the need for connecting with other botanical organizations, universities, etc. to help with planning. Tony Reznicek said that it was worth having a committee to determine the venue. Pam Laureto suggested the executive committee serve this

purpose. The executive committee agreed and Judy Kelly said this committee could meet at dinner following this meeting.

Future State Board Meeting - The meeting will be held at the Fall Meeting of the Michigan Botanical Club Oct. 12th, 2013 at the Discovery Center, Waterloo Recreation Area.

Meeting adjourned 6:07

Respectfully submitted,
Lynn Steil, Recording Secretary

Addendum: Executive Committee (Foray Venue Committee) meeting following the State Board meeting. Members present: Judy Kelly, Bob Kelly, Pam Laureto, Emily Nietering, Lynn Steil

General discussion began with the expression of interests in the two areas discussed at the State Board meeting (Hamilton, Ontario & the upper peninsula of MI). Lynn Steil mentioned how three members of the SW chapter had expressed interest in a foray in the Keweenaw Peninsula. A few years ago members of the MBC (and spouses) had enjoyed a summer foray held on the western upper peninsula put on by botanical organizations & state/forestry workers in that area. Discussion regarding having the foray in the summer in the upper peninsula would lend itself to interesting/different plants. Lynn suggested contacting Michigan Nature Association who had preserves in that area. Pam Laureto thought Mich. Tech. may be a good central meeting/housing place. As discussion continued it was clear that the committee felt that it could be pulled together. Also, since it is such a drive for those in southern Mich. summer may be more feasible and also a Monday could be used for a "special" trip for those who wanted to make the trip part of a larger vacation. Judy Kelly asked if everyone agreed to having the foray in the Keweenaw peninsula. It was unanimous. The date agreed on was July 11-14 of 2014.

Respectfully submitted,
Lynn Steil, Recording Secretary

Op-Ed on Michigan Senate Bill 78 (anti-biodiversity legislation) - Continued

(Continued from page 2)

that is better illustrated by the Endangered Species Act (ESA) of 1973. The Federal ESA works exactly counter to SB 78, but ESA cannot prevent all the damage that SB 78 would cause. Republican President Nixon advocated efforts to curb the ongoing wave of extinctions by protecting imperiled species. To this end, he signed the ESA on December 28, 1973, and it has been protecting endangered plants and animals ever since; however, the ESA is viewed as an anathema by the same interests represented in the current anti-biodiversity thinking. Indeed, endangered species preservation is an important aspect of biodiversity. Based on this thinking, Nixon would be driven out of the current Republican Party. Recently and locally, Michigan Republican Senator/US House Representative Joe Schwartz was pushed out for supporting ESA among other things.

Fourth, what can we do? It would be far better educationally and economically to embrace Michigan's rich biodiversity resources and to help our children to

understand/value them as an important facet of science and their national heritage. Nature study easily captures childrens' imagination, serves as an entree to science and stimulates interest in learning. With a bit of thought, we can have greater economic activity, i.e., sustainable natural resource use, as well as enhanced tourism, outdoor recreation and quality of life.

The MBC has important constructive educational/advocacy roles to play in Michigan. Education and conservation are among MBC's missions. Several MBC members attended the very limited SB 78 hearings in Lansing, but special thanks must go to MBC President Judy Kelly and to MBC-HVC member Artemis Eyster who testified. I am sure that neither of them shrieked.

The MBC can also make special contributions by working with the Michigan Environmental Council and the League of Conservation Voters among others.

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MBC Treasurer's Report — January 1, 2013 — July 31, 2013

Inflows			
	Membership Dues		
	Huron Valley	2013 Dues (75 members)	\$525.00
	Total of Chapter Dues		\$525.00
		State Members (Non-affiliated)	\$1,532.92
	Total Membership Dues		\$2,057.92
	Collected for MBF YTD (sent in with state dues)		\$360.00
	YTD Interest Earned		\$326.69
	Hanes Trust (MB Business Manager Stipend)		
Total Inflows			\$2,744.61
Outflows			
	Arisaema Printing & Postage	Spring 2013 Issue	\$984.35
	Arisaema Printing & Postage	Fall 2013 Issue	
	Award, Distinguished Service	Spring 2013 Foray	\$93.16
	State of MI 12 Non-Profit Registration Fees		
	Web Site	MBC Website Update	
	Office Expenses, Postage, Labels, Checks		\$9.20
	Square Space (domain hosting 2012-13)	Annual Fee for website hosting	\$172.80
	Paid to MBF (donations with membership dues)		\$360.00
	Michigan Botanist Subscriptions (Special Members)		\$438.00
	Michigan Botanist Business Manager Stipend: 2013		
	Michigan Botanist MBC Underwriting: 2013		
	MBC Spring Foray Student Underwriting		
	MBC Board Evaluation - NEW - Board 360		
Total Outflows			\$2,057.51
Balance Sheet			
	Opening Balance as of January 1, 2013		\$61,652.84
	Gain (Loss)		\$687.10
	Ending Balance		\$62,339.94
YTD Bank Account Balances		July 30, 2013	
	Checking		\$1,663.49
	Savings		\$112.47
	TIMM		\$9,828.59
	CD		\$50,735.39
Total in the bank			\$62,339.94
Difference Between Spread Sheet & Bank Statement		July 30, 2013	\$0.00