



Arisaema



Michigan Botanical Club State Newsletter

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Corresponding Secretary's Report

I must say this is the first summer in a long time when I have not been looking forward to the fall. We had some wonderful weather this past summer and it meshed really well with our fantastic Spring/Summer Foray in July in the Keweenaw. There is so much to tell about the foray, as is always the case, that we can't really cover it here. There are a couple of articles in this issue of the *Arisaema* about the foray, and many pictures, but if you want to know more, come to our Fall meeting so you can talk with those who attended. Also, if you want to see more of the amazing photos that were taken in the Keweenaw, we will have more pictures on our website (<http://michbotclub.org>). If you want to see more of Bob Smith's photos, go to: <https://onedrive.live.com/?cid=98434b8ee7c2b82d&id=98434B8EE7C2B82D!16789&Bsrc=Share&Bpub=SDX.SkyDrive&sc=Photos&authkey=!AvQ84evCd7mcFfc>

The details about the MBC State Fall meeting are the important focus of this issue of the *Arisaema*. The meeting is being held at Grand Valley State University in Allendale, MI, on Saturday, October 18th. I hope many of you can attend.

This is the third issue of the *Arisaema* this year (usually we only have two). If you were anticipating the opportunity to have a treasurer's report or the minutes of our last MBC Board meeting, you will be disappointed. The minutes of the last meeting were included in the Summer issue of the *Arisaema*.

We don't have an approved Treasurer's report, since we didn't meet in May. Both of these will appear next Spring – something to look forward to.

We do have a preview of the next Spring Foray, the report from the Nominations Committee, and a Remembrance of Burt Barnes, who passed away earlier this summer. We also have our annual Chapter Reports. Enjoy!

Irene Eiseman, the coordinator for Special Members (those that aren't members of a Chapter), suggests the following:

Regarding our website, if you hear about a field trip 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 the out-of-doors.

And my favorite reminder: let me know how you want to receive the *Arisaema*, if you haven't already. Or if you have, you can always change your mind. Your choices are: email only, U.S. mail only, or BOTH. Contact me at m19danforth44@gmail.com or call me at 734.649.4849. I usually answer, but you may also leave a message.

Sincerely,

Mary Danforth, Corresponding Secretary,
Michigan Botanical Club

Table of Contents

Corresponding Secretary's Report	1	White Pine Year in Review	8
President's Report	2	Southeastern Chapter Report	10
MBC 2015 Spring Foray	2	Southwestern Chapter Report	11
State Fall Meeting Report — 2014	3	Special Membership Report	12
Nominating Committee	4	Huron Valley Chapter Report	13
Remembering Burt Barnes	6	MBC 2014 Summer Foray—Dave & Sue Chambers Report	14
Winter Wildflower—Update Plans	7	MBC 2014 Summer Foray—Photos	15

President's Report: 2014 Summer Foray

The Summer Foray was held at Michigan Technological University in Houghton, MI in the Upper Peninsula from July 11-14. We stayed in the MTU dorms and ventured out both north and south on the Keweenaw.

All the field trips were a great success, with wonderful plants, waterfalls, and vistas. Field trips visited a variety of habitats, from the deep Quincy mine to bedrock beaches to steep crumbling bluffs. Needless to say, the geological history of the area added a new perspective for us.

On behalf of the Michigan Botanical Club, I extend a well-deserved "Thank You" to all the field trip leaders for their efforts – Adrienne Bozic, Charlie Eshbach, Janice Glime, Jeff Knoop, Nancy Leonard, Janet Marr, James Namestnick, Tony Reznicek, Dana Richter, Bill Rose, Michael Rotter, Brad Slaughter, Sue Trull and Bill Wild.

Additionally the Club thanks all the Foray evening speakers for their insightful and informative presentations:

Dr. Bill Rose on Geoheritage

Dr. Emmet J. Judziewicz on Disjunct Plants on Isle Royale

Dr. Tina Hall on Success of Land Protection in the Upper Peninsula

The members of the 2014 MBC State Foray Planning Committee have planned and worked for nearly a year to insure the 2014 Foray was a success: The roles and their members are:

Chairperson: Judy Kelly

Field Trips/Evening Speakers: Lynn Steil, Larry Nooden and Tony Reznicek

Registrar/Registration: Bev Walters, assisted by Aaron Fown and Rich Fowler

Foray Booklet: Craig Elston, Sarah Nooden, Rich Fowler, and Mary Danforth

Housing/Meals: Emily Nietering, Alice Ward and Ruth Hart

Logistics: Pam Laureto & Becky Csia

Many other board members deserve thanks for their enthusiastic help in planning and executing the 2014 MBC State Foray for your enjoyment.

—Judy Kelly, MBC President

MBC 2015 Spring Foray

The Southeastern Chapter is pleased to announce that the 2015 Foray will be to the Saginaw Bay area during Memorial Day weekend. This choice was made because we have never had a foray in this area (at least not since 1985!). Just because we have never been there, that does not mean there isn't anything to see. Although we haven't chosen a base location yet, we plan to find a conference center or college in the Bay City/Saginaw area. This will allow us access to the shorelines and wetlands of Saginaw Bay, remnant lakeplain prairies, the "Thumb" and other lower Lake Huron areas. There are many worthy preserves to visit including those owned by the Saginaw Basin Land Conservancy and the Michigan Nature Association. The Shiawassee National Wildlife Refuge (over 9,000 acres) and the wonderful Minden Bog (over 5,000 acres) surely shouldn't be missed. The Sanilac Petroglyphs and Dow Gardens will also be possible trips. Make your plans to join us and explore an area of Michigan you may not be familiar with.

If you have a favorite location within the Saginaw Bay watershed, or know someone who could lead a field trip in the area, please contact the SEC President, Emily Nietering at knietering@sbcglobal.net



Maiden Pink (Photo by Bob Smith)

MBC State Fall Meeting—Saturday, October 18, 2014

Grand Valley State University (GVSU) Niemeyer Hall, Room 148 Allendale, Michigan

The White Pine Chapter is pleased to host this year's MBC State Fall Meeting at Grand Valley State University on Saturday, October 18. The university is located in an accessible location, easily reached from all areas. The large campus is well marked and has many parking lots.

The university was founded in 1963. Since that time it has become one of the largest universities in Michigan with constant additions of new building in evidence. There are two campus locations, Allendale and downtown Grand Rapids. Our meeting will be on the Allendale campus. We will be meeting in Niemeyer Hall, Room 148, which is the building for advanced students.

Our WPC members are proud to announce that our speaker for the meeting is Lee Mueller, a Certified Arborist and Registered Forester. He is currently the Program Director of the Urban Forest Project. The Grand Rapids Urban Forest Project is an initiative of Friends of Grand Rapids Parks in Partnership with the City of Grand Rapids to engage the whole community in planting and growing larger, healthier urban forests.

He will present a program about how trees and other plants can save our urban environments. There will be a discussion of the importance of trees, plants, and natural ecosystems to urban infrastructure. This would include both the functional ecosystem benefits (e.g. stormwater mitigation, air quality) and the aesthetic benefits of trees and plants (e.g. improving property values, slowing traffic). He may also briefly discuss examples and real applications or case studies.

All MBC members are urged to attend this MBC State Fall Meeting to hear about current MBC plans and to learn about the impressive work being done in Grand Rapids parks and forests.

The schedule for the day is as follows:

11:00 A.M.	Michigan Botanical Foundation Meeting
11:30-12:30 P.M.	State Board Meeting
12:30-1:30 P.M.	Lunch (be sure to pack yourself a sack lunch)
1:30-2:30 P.M.	Speaker-Lee Mueller
2:30 P.M.	Refreshments followed by a field trip through the Ravines of Grand Valley State University which are along the Grand River which flows through the campus.

Directions to GVSU Allendale Campus

From Detroit/Lansing: I-96 West to I-196 West (Gerald R. Ford Freeway) through downtown Grand Rapids. Exit Lake Michigan Drive/M-45 (Exit 75). Take M-45 approximately 12 miles to Grand Valley's entrance and turn left (south). Approximately 160 miles from Detroit and 75 miles from Lansing.

From Holland: US-31 North to M-45 (Lake Michigan Drive). Turn right (east) on M-45 and go approximately 12 miles to Grand Valley's entrance and turn right (south). Approximately 25 miles from Holland.

From Kalamazoo: US-131 North to I-196 West (Gerald R. Ford Freeway). Exit Lake Michigan Drive/M-45 (Exit 75). Take M-45 approximately 12 miles to Grand Valley's entrance and turn left (south). Approximately 65 miles from Kalamazoo.

From Muskegon: I-96 East to Coopersville (exit 16). Turn left on 68th Avenue and go approximately 6 miles. Turn left (east) on M-45 (Lake Michigan Drive). Go approximately 3 miles to Grand Valley's entrance and turn right (south). Approximately 45 miles from Muskegon.

On Campus Directions to Niemeyer Hall

If you come to campus on M-45 (Lake Michigan Drive) turn onto campus and follow the road called Campus Drive until you come to a four-way stop. This is Calder Drive. Turn left on Calder Drive and then turn left into parking lot M where you may park. (Open parking on Saturdays) Niemeyer Hall is directly across Calder Drive from Lot M. Room 148 (Case Room) is on the 1st floor in Niemeyer Hall.

Spring Foray and Fall Meeting Schedule

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

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 (by email May 13, 2014) to the Board of Directors for certification before May 30. The Board duly certified the Slate of Officers. The Slate of Officers is hereby published in this Fall 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 and certified Slate of Officers have agreed to serve the term beginning January 1, 2015 through December 31, 2016. Brief biographies follow after Article VI.

President: Judith Kelly, Huron Valley Chapter

Vice President: Garrett Crow, Special

Recording Secretary: Jim Hewitt, Special

Treasurer: Robert Kelly, Huron Valley Chapter

Corresponding Secretary: Mary Danforth, Huron Valley Chapter

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

Respectfully submitted by Nominating Committee

—Sarah Nooden, *Chair & Huron Valley Chapter
Director-at-Large*
<snooden@umich.edu> 734-663-5667

Tony Reznicek, Huron Valley Chapter, President

Dave Chambers, White Pine Chapter, Director-at-Large

Lynn Steil, Southwest Chapter, MBC Recording Secretary

Brad Slaughter, (non-board member, Special)

Judy Kelly, Michigan Botanical Club President & *ex officio*

Brief biographies follow starting on page 5

* MICHIGAN BOTANICAL CLUB CONSTITUTION, 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 fewer 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.

Report of the Nominating Committee (Continued)

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.

Brief Biographies

President: Judith (Judy) Novak Kelly, HVC



B.A. Biology, Chemistry – Montclair State College, Upper Montclair, NJ 1974

M.S. Biology – Eastern Michigan University 1982

Instructor of Biology, Henry Ford Community College, 1990 – 2014

Taught General Biology, Botany, and Microbiology; Environmental Science and Science for Elementary Teachers. Directed Environmental Studies Program.

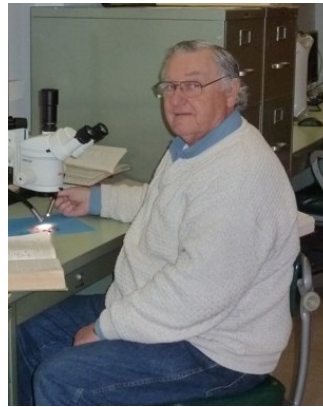
Taught at UM-Dearborn, EMU, Adrian College, Northern Kentucky University.

Lab Assistant and Researcher. Currently researching floristic composition of SE Michigan prairie fen. Research student of Dr. Voss at UMBS studying *Clintonia borealis*, and also for M.S. studying *Clintonia*.

Judy, a long time member of MBC, has served MBC as: MBC President since 2011, Vice President of Huron Valley Chapter, HVC Director-at-large, Business Manager of *The Michigan Botanist*. She developed MBC's original website (1999) and served as Webmaster for many years. She has also given a number of talks to HVC, SEC and other environmental groups and garden clubs. Judy has also served as President of the Michigan Nature Association, Secretary of Michigan Natural Areas Council, Preserve Steward for The Nature Conservancy, Board of Directors of Wesley House Foundation.

Other interests: Photography, Genealogy, Camping, Hiking, Canoeing.

Vice President: Garrett Crow, Special



B.A. Biology, Taylor University 1965.

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: taught botany 33 yrs, Director of Herbarium and Department chair last six years (retired 2008).

Adjunct Research Botanist: Michigan State University Herbarium.

Visiting Scholar: Calvin College, Adjunct Curator of Calvin Herbarium.

Michigan Botanical Club: Red Cedar Chapter (Founding member when a grad student).

RCC Program Chair 2010, 2011, 2012.

New England Botanical Club (President, 1988-90; Vice President, 1986-88; Program Chair, 1983-1988).

Recording Secretary: Jim Hewitt, Special



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

(Continued on page 6)

Report of the Nominating Committee (Continued)

(Continued from page 5)

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.



Treasurer: Robert Kelly, HVC

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.

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

Corresponding Secretary: Mary Danforth, HVC



Long time member of MBC, Huron Valley Chapter, MBC Corresponding Secretary, 2011 - present

Resident of Ann Arbor/Dexter area since 3 years old.

B.A. Mathematics, University of Michigan, 1965.

Past Board Member of the Michigan Nature Conservancy.

Mary has spent her entire career working with computers, as a software programmer, a manager of software programmers, or a teacher of computer software. She recently retired after working for over 13 years at Terumo Cardiovascular Systems.

Hobbies include: identifying Michigan wildflowers, birdwatching, cross-stitching (still working on a Great Blue Heron, but getting close to finishing) and traveling: has been to Bali (Indonesia), India, Ecuador (and Galapagos), Venezuela, Costa Rica, Mexico, China, Peru, Kenya, Australia and most of the European countries. Mary has 6 children (2 biological) and 13 grandchildren, and is active in the First United Methodist Church in Ann Arbor. She also volunteers at House By the Side of the Road (which provides used clothing and small household items for people in need in Washtenaw County - free of charge).

Remembering Burton V. Barnes, November 4, 1930 – July 3, 2014

The University of Michigan and the Michigan Botanical Community have lost a giant with the passing of Burt Barnes. Burt was Arthur F. Thurnau Professor Emeritus of Forestry, and Forest Botanist for the University of Michigan Matthaei Botanical Gardens.



Photo by Sarah Nooden

Burt was born in Bloomington, Indiana, and both his Bachelor's and Doctorate degrees were in Forestry from the University of Michigan, the latter in 1959. Burt was a faculty member of the University of Michigan from 1963 to 2006, and an internationally renowned scientist. He was author of a number of books and book chapters, most especially *Michigan Trees* (2 editions) and *Forest Ecology* (3 editions) and his long chapter "Deciduous Forests of North America" in the encyclopedic *Deciduous Forests of the World* reference book, as well as over 100 papers. He was mentor to 94 graduate students, many of whom hold positions in academia, national land management agencies, The Nature Conservancy, and other conservation organizations. Burt was a staunch conservationist, who worked with The Nature Conservancy on landscape ecology, and always supported causes with precise, strong letters and commentary, and was a great champion of Michigan's Natural Heritage.

Burt's teaching was strongly field-based and whenever his name is mentioned, the famous "woody plants" course co-taught by Burt and Herb Wagner invariably comes to mind. It is likely that this course, taught by Burt for over 40 years, has inspired more non-botanists than any other plant oriented course at the University. Even today, when I talk to people around Ann Arbor – dentists, doctors, teachers – it's not uncommon for them to volunteer that they took woody plants and how much that influenced their lives, no matter what their current careers. Surely no teacher could want a greater honor. So it is no surprise that Burt received the highly esteemed U-M Golden Apple Award in 2001, as well as several other teaching awards.

Winter Wildflowers — Update Plans

Update on plans for the revision of Helen Smith's Winter Wildflowers (1973)

Since we are approaching the winter season when we will solicit input/help from members, this seems like a good time to think about this project.

Objectives:

To update and enhance usability of this valuable booklet while preserving the main elements of Helen Smith's work.

To promote interest in botany, ecology, and conservation in accordance with the Michigan Botanical Club's Mission.

To increase the visibility of the Michigan Botanical Club.

Target audience:

Beginners with an interest in plants and their natural history; however, more advanced naturalists will likely also be interested.

Target geographic range:

Southern Michigan, the lower half of the Lower Peninsula, although this range could be expanded in later editions if there is interest.

Proposed revisions:

Add some species, especially recent arrivals, add warnings about invasive plants and replace some photos.

The 1973 edition aimed at plants poking above snow cover, but we now have less residual snow cover, so we will expand coverage to accommodate these changes.

We will include a selection of overwintering rosettes and some woody plant buds.

Regroup according to habitat, e.g., wet meadows, open uplands and forest (swamp forest?)

Add indicator species that exemplify these habitats or communities

Add tabs on the edge of the paper copy to make it easier to locate the habitat groups out in the field

Update the Preface, Introduction and some of the text.

Restructure for increased usability by beginners in the field, e.g., tabs on the pages for the 3 habitats.

Add some scientific names to provide an introduction to them, but we will try to avoid burdening casual, recreational users.

Open Access:

Following the MBC's preference for Open Access, we will copyright this volume and allow individuals to print copies for personal use but not for commercial sales; the digital copy should be in an open format, e.g., .odt or a pdf, and be posted online at the MBC website or with links to the MBC website.

Business plan:

Because print copies will be preferred by some users and for some uses, e.g., libraries, we will arrange for printing and distribution/sales online and at nature centers, etc.

The 1973 edition cost \$1.50 which would be ca. \$8 in 2014, but we believe that we can produce the booklet for less.

We would like to use the Smith Fund to cover the printing, distribution and advertising costs, and we hope to eventually reimburse those costs.

Feedback:

If you have any suggestions or concerns, please contact us at the e-mail addresses listed below.

Submitted by Larry Noodén (ldnum@umich.edu) and Tony Reznicek (reznicek@umich.edu)

White Pine Chapter 2014 Year in Review

Our WPC 2014 schedule featured both programs and botanical forays to wetlands, prairies, sand dunes, bogs, fens, marshes, savannas and woodlands throughout West Michigan. With the variety of ecological areas near us, we will never be at a loss to find yet another new area to investigate and to discover new wildflowers and trees.

The WPC members meet during late fall and winter at Grand Valley State University once a month. Our chapter was founded on April 15, 1989, and Dr. John Shontz helped us by securing a room at GVSU for our meetings. With his assistance, we were able to grow in membership and present programs and field trips. The university has always allowed us to serve refreshments, use a room free of charge, and to use all the audio-visual equipment. We owe a debt of gratitude to the university.

On January 18, at Grand Valley State University our Annual Photo Fest was scheduled to give our members a chance to share their photographic skills with everyone. We have many very talented photographers in our chapter, and every year they bring new and different samples of their lovely photos.

- Ranger Steve Mueller was our first presenter who showed beautiful wildflower photos taken at Ody Brook Nature Sanctuary. Just some were: Blood Root, Cinnamon Fern, Violets, Spring Cress and Lilies.
- Arlene Obetts showed exotic flora photos taken on her trip to Madagascar. Just some were: Welivitschia (a woody plant), a fairy circle in the desert, and Elephant foot tree, Devil Coconut, and a large Borneo flower.
- Craig Elston showed many excellent color photos of plants from Jarrett Prairie. Some were: a prairie solitary ridge, cedar covered hills and Trailing Arbutus. He showed the Duck Lake area following the fire there. He had shots of the day after the fire and then over time of the regrowth process of ferns, bracken and low-growing blueberries.
- Cal Lamoreaux showed a beautiful collection of blooming plants, including American Lotus, Toad Stools, Blood Root, Clematis, Hen-of-the-Woods, Black-eyed Susan, and Twayblade Fern.
- Peg Lepo shared just some of her plants growing around her home. There was a huge Prickly Pear Cactus with unusual heart-shaped leaves, Spring Beauty, Trillium, Nodding Bell Flower and Prairie Smoke. The photos were beautiful.
- Sue Chambers had excellent photos of spring flowers. Just some were: Star Flower, Trillium, Pink Lady's Slipper, Ferns, Button Bush, Trailing Arbutus, Fringed Polygala, plus a shore line beaver lodge.

- Roger Tharp shared his beautiful collection from our WPC field trips. The photos he took of our MBC State Spring Foray were excellent. The people on board the W.G.Jackson Research Education Vessel looked like they were having lots of fun sampling the waters of Lake Michigan. Bill Martinus and his sugar bush field trip were well documented by Roger's colorful photos. The photo of a Moth Mullein was gorgeous in the group of wildflower scenes that Roger included.
- Fred Nietering never fails to entertain us with his slides of twenty years of WPC field trips giving an overview of the many wildflowers we have discovered. Just a few were: Grass Pink, Indian Paint Brush, Death Camas, Goats' Rue, Monkey Flower, Closed Gentian, Painted Trillium, Culver Root, and Bog Orchid. The group pictures of our photographer members down on their knees getting a close-up of a wildflower were something to see!

These WPC photographers deserve a big THANK YOU for showing their excellent photos. Also many thanks to Bob Riepma who is our expert on using all of the equipment to present this show.

On February 22, Ranger Steve Mueller gave a program on "Restoring Plant Diversity to Home Landscapes". His career has crossed six decades working as a Michigan State Parks Ranger, in the National Parks Service, as a high school teacher and college biology instructor and as a naturalist at 3 different nature centers. Steve showed photos of many varieties of wildflowers, birds, butterflies, and flowering bushes. He feels very strongly about restoring wild plants in place of mowed lawns. Steve reminded us of all the interrelationships between flora and fauna. Native plants will attract and sustain native animals and insects. He ended his program by showing a "sapicle" on a sugar maple tree trunk!

On March 15, our GVSU speaker was Dr. Thomas Tissue, who presented a program on "Exotic Plant Watch". Dr. Tissue is an environmental scientist who organized volunteer help to detect invasive plants in Michigan fresh water lakes. To avoid having a lake invaded with exotic plants, the Exotic Plant Watch Program of the Cooperative Lakes Monitoring Program teaches volunteers how to use five integrated pest management strategies. Dr. Tissue works diligently to help train volunteers to monitor aquatic plants in the survey program, and to train them to identify aquatic plants. Many lakes have been saved from destruction from aquatic plants.

Many photos showed how volunteers remove these plants, such as Purple Loosestrife, Flowering rush, Coontail, Bulrush and Fernleaf Pondweed. Dr. Tissue gave a very interesting program

White Pine Chapter 2014 Year in Review (Continued)

and we learned a lot. He has been a professor at Beloit College, Clemson University, University of Chicago, and Curtin University in Australia.

On April 15 at GVSU, Stephen Ross gave a program to a well attended group who learned about vernal ponds. Stephen has taken five years to study and to photograph the amphibians who live in vernal ponds. His excellent pictures showed the characteristics of these ponds, which can be small depressions of water or become several acres in size. They are short lived ponds filled with rainwater or small streams and occur from mid-March to early July. Later in the autumn, these ponds revert to dry areas. Most of the ponds Stephen has studied are in Mecosta County.

The vernal ponds support all sorts of aquatic life, such as microscopic bacteria and algae. There are flat worms, snails, garter snakes, ribbon snakes, 5 types of salamanders and turtles. The most abundant is the Western Chorus Frog and the Spotted Salamander. The photos of the frogs laying egg masses in the ponds were remarkable.

These ponds are disappearing due to subdivision growth, golf courses, agriculture and lack of control of these ponds. Steve's program showed breeding ponds, courtship, mating, egg laying and development of egg masses. His unusual program showed how much time he has spent developing it.

On May 17, our first field trip was held at Loda Lake Nature Preserve, just north of White Cloud. Loda Lake is an often overlooked gem of northern West Michigan. Since 1950, this sanctuary has been owned jointly by the U.S. Forest Service and the Garden Clubs of Michigan. It is the only wildflower sanctuary in the National Forest System. The wildflower plants are maintained by the U.S. Forest Service and the Garden Clubs. Over 230 species of native plants have been identified there.

There are dry-mesic forest, pine and cedar forests, bog plants, prairie plants, ferns, oak-pine barrens and savannas. It is interesting to learn that Loda Lake was named to honor Princess Loda, the wife of Chief Simon Pokagon of the Potawatomi Indians. The chief wrote a book called "Queen of the Woods" and included native imagery and love of nature of forest woodlands of Michigan.

The day of our field trip coincided with the special event of a ribbon cutting ceremony celebrating the new Pavilion Building and large parking lot. Sue Chambers was our field trip leader who gave us a beautiful walk on paths through woods, beside a lake, along a creek and then into a highland area. A helpful brochure shows the multiple routes available and points out wildflowers to be seen at marked stations. The sanctuary is always interesting during every month. We enjoyed Sue Cham-

bers descriptions of the many plants and met Carol Phelps there. Both Sue and Carol are members of the White Pine Chapter. Carol has worked many years to help make improvements to the Loda Lake Sanctuary a reality.

On June 14, Bill Martinus was our field trip leader through the Eastmanville Bayou Park, part of the Ottawa County Park system. Bill led us on a leisurely walk on a mowed trail following atop the natural levee along some of the park's 1.77 miles of Grand River frontage. We went into a forested swamp adjacent to the bayou. Bill described the local geology in shaping the landscape, gave a brief history of the area, and spoke about the influence of the original local plant communities.

Our group saw many invasive species mixed with natives along the levee, such as Buckthorn, oriental bittersweet, multiflora rose, sweet cherry, autumn olive, honeysuckle and garlic mustard. There were also native poison ivy, hackberry, burr oak, walnut, moonseed, box-elder and Virginia Creeper.

Down the trail we met the non-native plant clean-up crew and their leader: a dozen penned goats and park volunteer goat-herder, Paula. Paula gave us a presentation about the goat project and their success in helping rid that area of invasive species.

Our return through the forested silver Maple swamp was more natural in habitat with jumpseed, cream violet, button bush, and the beautiful green dragon in full bloom. With few mosquitoes and lovely weather, we all experienced an enjoyable afternoon.

On July 10-14 the MBC State Spring Foray was held in the Keweenaw area of the Upper Peninsula. Our WPC did not meet during July so our members could spend time at the Foray. Those that attended enjoyed the trip and have some wonderful photos of the vistas of wildflowers.

On August 16, our WPC members toured the Coolbough Nature Preserve just north of Newaygo. Our leaders, Elizabeth Pitzer and Sarah Pregitzer led our group through the preserve. Sarah is the cofounder of NIPP, Newaygo Invasive Plant Project. We were told that the preserve is an oak savannah restoration area. Oak savannas are globally imperiled habitats. At one time there were 50 million acres of oak savannah and now there are only 30 thousands acres left. One tool used to reclaim the Coolbough is controlled burns. They are conducted about every 5 years. The preserve has multiple paths. We all hiked the first section together, and then a few hardy souls in the group continued on to the remnant part of the Coolbough which is a 5-10 acre area that has never been disturbed by humans so is more pristine. The plants we encountered were: prickly pear, bergamot, red oak, white pine, bush clover, Pennsylvania

(Continued on page 10)

White Pine Chapter Year in Review (Continued)

(Continued from page 9)

Sedge, little blue stem, pearly everlasting, blueberry (they were delicious), yarrow, jack pine, goat's rue, partridge berry, blue lobelia, star flower, wintergreen, lupine, trailing arbutus and Indian pipe.

Part of Newaygo County falls within the largest dry prairie east of the Mississippi River. This large prairie is unique in just 5 Michigan counties, and is being preserved in its natural habitat for future generations. The large Coolbough Preserve features bogs, streams, large prairies and woodlands. It is always a thrill to botanize here.

On September 13, our field trip leader will be Ranger Steven Mueller who will take us through Ody Brook Nature Sanctuary near Cedar Springs. He will give us a natural history tour on this property which he owns. Five acres were just added to the sanctuary. Steve will guide us on upland and wetland trails through field, forest, along the creek, over bridges and around the pond to explore natural communities.

Ody Brook Nature Sanctuary is managed to enhance biodiversity. It is located in the headwaters of Little Cedar Creek. Nearly 250 species of plants have been documented, over 100 bird species, 24 mammals, 11 herps and 51 butterfly species.

On October 18, our White Pine Chapter is hosting the MBC Fall State Meeting during the day at Grand Valley State University in Grand Rapids. There is an article printed in this *Arisaema* which gives the information on this event. Our WPC will not hold a chapter meeting in October due to our responsibility in planning the MBC State Fall Meeting.

On November 15, Craig Elston will be presenting an indoor program at GVSU on Michigan wildflowers. He is a naturalist at the Hudsonville Nature Center and is an excellent photographer.

Our chapter will not have a **December** meeting due to the holidays.

During this year's 2014 MBC Spring Foray at the Keweenaw Peninsula, our WPC members sponsored 5 outstanding college students to attend. The Michigan Botanical Foundation helped with underwriting expenses. Last year our chapter also spon-



Photo by Bob Kelly

sored 5 students. This year's students were: Allyson Nelson from Muskegon Community College recommended by Theresa VanVeelen, Travis Mangione from Cornerstone University recommended by Raymond Gates, Alexander Ellison from Grand Rapids Community College recommended by Dr. Pamela Laureto, and Sheila DeVries and Deanna Geelhoed from Calvin College recommended by Dr. David Warners.

These 5 students took an active part in all activities and met many MBC members. Everyone was impressed with these students who gave good accounts of themselves. This is the seventeenth year that the WPC has sponsored university students to the MBC State Foray.

The successful meetings and field trips that we enjoy may be attributed to the excellent leaders who share their expertise with us during every program and field trip. We owe each leader many thanks. We look forward to an active 2015 year full of interesting and informative sessions, which will enable our members to learn about the amazing ecology of our state.

—Dorothy Sibley, President,
White Pine Chapter

Southeastern Chapter Report 2013-14

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 2013, we began our program year anticipating an October program entitled "**Alaska – the Last Frontier**" by Caryle Spence. Unfortunately she experienced some car trouble on the way to the program and was unable to come. After

we determined that she was all right, those of us waiting at Heritage Park took a lovely walk on the nature trails instead.

In November, our program was given by Ray and Pat Coleman. Their presentation was entitled "**Focus on Nature.**" This team of nature photographers never fail to astound us with their beautiful images. This time we were treated to photos of many plants, insects, birds and other animals from as close as their backyard to around the world.

(Continued on page 11)

Southeastern Chapter Report 2013-14 (Continued)

(Continued from page 10)

In December, "**Gymnosperms and Yew**" was presented by Neal Billetdeaux and Robert Ayotte of the Huron Valley Chapter. Gymnosperms are an ancient group of vascular plants that produce seeds but not flowers. In Michigan, they are represented by several conifers including pines, junipers, larches, hemlocks, spruces and yews. Their discussion provided a brief survey of gymnosperm systematics, biology and ecology with a focus on conifers native to Michigan.

Our next meeting was in February for our annual Gourmet Dinner. We all enjoyed some fine food and conversation followed by a program entitled "**Enjoying Mosses**" by Jim Toppin and Janet Traub. They introduced us to some common mosses and liverworts and reminded us of their unusual life cycles. This was to be followed by a field trip to explore winter bryophytes led by Jim and Janet at Waterloo Recreation Area in March. This had to be postponed since the snow was too deep! It was rescheduled for the end of April.

"**Alaska – the Last Frontier**" was our March program. Yes, Caryle Spence, came back to present the program originally scheduled for October. Caryle had some wonderful photos of the scenic beauty of Alaska. She and fellow SEC member Alice Ward visited many national parks and historic sites and we enjoyed hearing of their adventures.

Bev Walters, of the U of M Herbarium, shared her knowledge with us at our program in April entitled "**The Michigan Flora Project: Past, Present and Future.**" Bev gave us the history of Michigan Flora publications and brought us up-to-date on the new Michigan Flora Online website. For those interested in

collecting new plant specimens, Bev showed us how to prepare collected plants for donation to the herbarium. MBC members around the state can be a good source for documenting plant occurrences in their areas.

Summer brought us the wonderful MBC Foray in the Keweenaw Peninsula. Eleven members of the SEC were able to attend. Unfortunately our chapter did not have any sponsored students attend this year. Several students had expressed interest in attending, but were unable to go at the last minute. Those who attended will never forget the stunning Lake Superior shorelines, and the woods and wetlands of the western Upper Peninsula. We won't even mention the fire drill in the MTU dorm!

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 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

Southwest Chapter Report

2013

In 2013, we focused on the value of urban natural areas. We concluded this series with a trip to one of Kalamazoo's newest preserves, Bow-in-the-Clouds, given to the Southwest Michigan Land Conservancy by the Sister's of St. Joseph.

September: *Urban Restoration and its Challenges: Bow-in-the-Clouds*

Bow-in-the-clouds is a jewel of nature surrounded on all sides by an urban footprint. Nate Fuller of the Southwest Michigan Land Conservancy showed us through this maze of wet meadows, shrub swamps, and oak-hickory forest that help to conserve the Spring Valley drainage that runs through, and the city well-field below.

November: *Plants in a Changing World: A Citizen Science Project on Plant Evolution*

Dr. Jennifer Lau presented a primer on natural selection and how scientists study the incremental evolutionary change that occurs over ecological time scales, or microevolution. She described a lack of consensus about how natural selection and microevolution change between populations growing in different environments. She discussed a project she is developing to use citizen scientists to collect data on scores of plant species and the environmental conditions that may be driving their evolution.

December: *Big Trees of Michigan*

We declared 2014 the "Year of the Tree"! To kick off the excitement, we invited our own Andy Sawyer to discuss the MBC Big Tree program, which he directs. He gave an informative overview of the Big Tree program and regaled with interesting stories from his years hunting big trees. It was a multi-media extravaganza that he would be happy to present to other groups.

(Continued on page 12)

Southwest Chapter Report (Continued)

(Continued from page 11)

2014

January: *Michigan Forest Communities - Today and Tomorrow*

Dr. Donald Dickmann, Professor Emeritus in Forestry at Michigan State University, took us on a ‘virtual road trip’ of the forest communities of southern Michigan. He is the author two great books on the subject, *The Forests of Michigan* and *A Guide to Michigan's Forest Communities*.

February: *Trees - Buds and Bark*

Local naturalist extraordinaire Wil Reding gave an indoor/outdoor program on the finer points of IDing trees, sans leaves. Applicable in any month!

March 17: *Tree Diseases*

Dr. Josh Springer, a post-doctoral research associate at Michigan State University, and Chrissy McTavish, a graduate student, ran the gamut of insect and fungal tree pests and diseases. They covered chestnut blight and spruce budworm in more detail, discussing some of the hopes and challenges that come with combatting tree diseases.

April: *The Natural History of Michigan's Beech Maple Forests and their Future – Pierce Cedar Creek Institute*

The Institute's lead naturalist, Matt Dykstra, is deeply familiar with the mature beech maple forest there. He gave a short lesson

on the ecology of beech maple forests – and then we got to see it for ourselves!

May: *Oak-pine Barrens – Allegan State Game Area*

Tyler Bassett gave a tour of the oak-pine barrens of the Allegan State Game Area, unique to southern Michigan, but similar in many ways to the pine barrens further north. The lupine was in full bloom, and we caught some early blooms of American columbo.

June: *Oak Forest and Hardwood Swamp – Sanctuary Springs*

A Southwest Michigan Land Conservancy Preserve, Sanctuary Springs in eastern Cass County is a great representation of the historical landscape of the area. Dense hardwood swamp, flush with ferns, is surrounded by oak-covered slopes. We were given a tour in the able hands of MBC member Lynn Steill and Becky Csia.

August: *Floodplain Forest – Eureka!*

The Eureka! Preserve near Paw Paw Michigan represents some of the highest quality floodplain forest in southern Michigan. The Paw Paw River meanders through, unobstructed, ‘flooding the plain’ in spring time as it should. Brad Slaughter of the Michigan Natural Features Inventory shared some of his knowledge of such dank, mucky places.

—Tyler Bassett,
Southwest Chapter President

Special Memberships Report – 2013-2014

Without a doubt, our Summer Foray in the Keweenaw Peninsula was the key event of the year; a record 21 members from the Special Memberships group attended. Travelers from as far as Connecticut, Illinois, Wisconsin, Minnesota, and South Dakota were treated to the rare botanical offerings of the Michigan north. A special note of thanks goes to our members who volunteered as field guides and took us to those secret special places. Thank you: Adrienne Bozic, Nancy Leonard, Janet Marr, Dana Richter, Michael Rotter, and Susan Trull, plus many others who pitched in to make the Foray the best ever.

Through the generous support of Michigan Botanical Foundation and the Special Memberships group, we would like to congratulate this year's recipients of the Joan Robb Student Foray Award. Tabitha McAlpine and Xavier Donajkowski are students from Northern Michigan University, Marquette, who are in their 3rd year studying biological and environmental science.

Both students found the Foray to be a unique and “eye-opening” experience and acknowledged that MBC is a true treasure among nature clubs.

Interest in the Foray provided a boost to enrollment in the Special Memberships group. We currently have 77 members, including 10 new members for the year – a hearty welcome to all. Also please feel free to visit the Special Memberships news blog at <http://michbotclub.org/special-memberships-news/>. This is an open forum for you to post any upcoming field trips, workshops, announcements, or botanical highlights that may be of interest to the group. So, take the time to get outside and enjoy the wonderful autumn woods.

—Best regards, Irene Eiseman.

Huron Valley Chapter, Year in Review, 2013-2014

This year was again a full slate of meetings on the third Monday of each month from September through April (excepting December) at 7:30 in the Matthaei Botanical Gardens Auditorium. Our evening meetings are open to the public and advertised through the Gardens as part of their public education efforts.

Evening Programs Sept. 2013 – April 2014:

SEPTEMBER – Biodiversity of Aquatic Plants – Temperate Versus Neotropics: Is Northeastern North America The Amazonia of Diversity For Aquatic Plants? – Garrett E. Crow. This program focused on Garrett Crow's work on the diversity of aquatic plants in Costa Rica and Bolivia over many years. What is surprising was the level of diversity of aquatic plants in temperate regions.

OCTOBER – Native Bees and Honey Bees: Their Ecology and Pollination of Native Plants and – Julianna K. Wilson. This program noted common, non-honey-making, wild bees in Michigan, where they are likely to nest, what they require to thrive, and useful tips for promoting them in your garden. She also talked about honey bee biology, the current status of both honey bees and wild bees, simple conservation strategies that anyone can employ, and why bees need conserving as pollinators of many of the foods we eat.

NOVEMBER – Three Months in the Forest – Amanda Klain. Amanda shared her experience of working for the Manistee National Forest doing botanical fieldwork in the summer of 2013. She talked about the Manistee Forest and the exciting duties her job entailed including a forensic botany project, and showed pictures slides of the local flora she encountered during work and on her own explorations.

JANUARY – Michigan Wildflowers Through The Seasons – Tom Hodgson. Tom shared stories and images of Michigan's most beautiful and interesting wildflowers, from the first blooms of spring to the last flowers of autumn. Most of the images were taken in Jackson and Washtenaw Counties.

Our January meeting was our annual potluck dinner. This year was special in that long time members (and officers) Larry and Sarah Noodén have been married 50 years! We all enjoyed some Anniversary Cake.

FEBRUARY – Regional Conservation Plan For The Oak Openings Region – Steven Woods. Steve is a native of Michigan and is The Nature Conservancy Oak Openings Program Manager. He has worked for TNC for 11 years, first as a Land Steward in Michigan and now serves as Oak Openings Program Manager in Swanton, Ohio. He is Chairman of the Green Ribbon Initiative, a partnership composed of over a dozen private and public conservation organizations committed

to protecting the 7 county Lakeplains Oak Openings Region of NW Ohio and SE Michigan.

MARCH – Plant Adaptations To The Aquatic Realm – Gary Hannan. Gary explored the unique aspects of underwater habitats that present both opportunities and challenges to plants that live underwater. Plant Adaptations were discussed in the context of the problems associated with life underwater. Dr. Hannan is a professor in biology at Eastern Michigan University where he has taught field courses on aquatic plants, woody plants, plant classification, biogeography, among others, for many years.

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

APRIL – Inferring Population Structure in The Carnivorous Pitcher Plant, *Sarracenia purpurea*, Throughout Michigan – Margaret (Maggie) Hanes. Numerous historical and biological processes have likely contributed to the complex evolution of carnivorous Pitcher Plants in the genus *Sarracenia*. Maggie summarized population genetic variation in *S. purpurea* throughout Michigan to identify some of the forces responsible for differentiation. This work brings us closer to identifying the processes that promote speciation in the unique North American Pitcher Plants. Maggie is currently Assistant Professor of Botany and Director of the EMC Herbarium at Eastern Michigan University.

Field Trips, 2013 --2014:

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

14 September, Fall Wildflowers. Leader: Brad Slaughter. Brad reviewed a variety of unique and colorful fall flowering plants at the "Shanghai Prairie" near Ann Arbor, a rich and diverse site, especially in the fall.

22 September, Dexter-Huron Metropark – An Autumn Return. Leader: Tony Reznicek. Dexter-Huron Metropark, 123 acres, located about one mile east of Dexter along Huron River Drive was the site of a Michigan Botanical Club field trip. The site has a new trail and boardwalk, allowing access to both sides of the river to sample river bottom forests, river shorelines, and oak slopes. Highlights were pink turtlehead (*Chelone obliqua*) and red mulberry (*Morus rubra*).

28 September, Storer Fen. Leader: Jim Mohr. Storer fen is a rich fen, and is most interesting because the fens at YMCA Camp Storer developed on marl flats that were exposed when

(Continued on page 16)

2014 Michigan Botanical Club Summer Foray—Keweenaw Peninsula—July 11-14, 2014

The foray was blessed with beautiful blue skies and perfect weather for botanizing the area. From the White Pine chapter, Dave and Sue Chambers attended and sent the following report:

The Foray was held on the campus of Michigan Tech in Houghton, Michigan. There were three keynote speakers; Dr. William Rose, Dr. Emmet Judziewicz, and Dr. Christine Hall. Bill Rose, a retired geology professor from Michigan Tech discussed geoheritage. Emmet Judziewicz, biology professor from the University of Wisconsin, Steven's Point discussed disjunct plants on Isle Royale and the Keweenaw. Tina Hall, Director of Land Resources for the Michigan Chapter of the Nature Conservancy, talked about all the groups that have collaborated in conservation efforts throughout Michigan with emphasis on the UP. All were very interesting and well attended.

Our first field trip on Saturday was to the Mary Macdonald Preserve at Horseshoe Harbor, beyond Copper Harbor. It is a Nature Conservancy preserve. It consists of a boreal mixed forest and igneous Lake Superior shoreline. It's a beautiful area.

The Sunday trip we chose was Bete Gris Preserve, owned by the Houghton Keweenaw Conservation District and The Nature Conservancy. It is located near the southern tip of the Keweenaw. It consists of lake shore, fens and forests.

Monday we drove to Munising for a short pontoon ride to Grand Island. We chose to take the 3 hour bus trip around part of the island. Erik, our driver/guide, was very knowledgeable about the history, geology and botany of the island. One of the highlights of the trip was the black bear that ran down the road in front of the bus. Because of threatening weather, we missed the field trip on the island with Tony Reznicek.

As Dave and Sue enjoyed their field trips, Sue took some great pictures (hopefully she will share them in January) and gave us a list of some of the items they were able to see. Her list is:

Mary McDonald Nature Preserve Plants:

beaked hazelnut	beach pea
mountain maple	butterwort
fireweed	bilberry
harebells	honeysuckle-native
cinquefoil	wood lily
ring necked snake	evening primrose
thimble berry	rose-native
twin flower	sarsaparilla
Red Osier	mountain ash

Bete Gris Nature Preserve:

bunchberry	velvet leaved blueberry
blue flag	Labrador tea
pink lady slipper	tamarack
wild lily of the valley	beach pea
star flower	copper belly snake
cinnamon fern	trailing arbutus
interrupted fern	reindeer lichen
low bush blueberry	bear berry
dune grass	wormwood
cat's ear	Indian pipe
evening primrose	false heather
tag alder	twayblade orchid
pin cherry	creeping snowberry
bracken fern	rattlesnake plantain
bastard toad flax	blue bead lily
amalanhier	mountain holly
mountain ash	rose pagonia orchid
black spruce	bog rosemary
twin flower	pitcher plant
gold thread	round leaved sundew

2014 Michigan Botanical Club Summer Foray—Keweenaw Peninsula—Views



On the Brink—Brockway Mountain (photos by Sarah Nooden)



Photographing
the Rock Rose
from atop
Brockway
Mountain



Photos by
Sarah Nooden



Blueberry picking at Baraga Plains (Photo by Sylvia Taylor)



The Rock Rose
(Photo by Bob
Smith)



Quincy Mine Tour (Photo by Judy Kelly)



Glacial Grooves in Calumet (Photo by Judy Kelly)

Huron Valley Chapter, Year in Review, 2013-2014 (Continued)

(Continued from page 13)

the lake level was dropped in 1868 by the development of a drainage ditch at the outlet of the lake.

20 October, Workday and Botanizing at Horner Woods.

Leader: Sylvia Taylor. Horner Woods is a rich woods, full of interesting forest plants at all times of the year, even though this field trip was primarily a workday for restoration work.

26 October, Resplendent Fall Woodies of Huron Meadows Metropark. Leader: Robert Ayotte. This was to study woody plants in fall, and especially admire the fall colors produced by different species.

19 April, Horner Woods Garlic Mustard Pull and Twinleaf Hunt. Leader: Sylvia Taylor. Garlic mustard is under control at Horner Woods, thanks to Sylvia Taylor's unstinting attention – and an added benefit is the opportunity in April to see Twinleaf (*Jeffersonia diphylla*) in flower, one of our most exotic forest wildflowers.

27 April, Easy Bryophytes at Waterloo Discovery Center. Leaders: Jim Toppin and Janet Traub. Bryophytes inhabit millimeter-scale microclimates, and many can be seen throughout the season, even when vascular plants are dormant and invisible.

17 May, Minong-Petersburg Prairie of Petersburg State Game Area. Leader: Tony Reznicek. Located in western Monroe County, the Lake Erie Plain once supported a rich matrix of extensive lowland prairie, oak savanna, flatwoods, and swamps. A remnant survives at Petersburg, and is being restored. We saw tremendous stands of lupine, just before peak bloom, as well as a number of other interesting species such as arrow leaf violet.

21 June, Sand Creek Nature Preserve (Michigan Nature Association) Leader: Matt Schultz. Sand Creek is a tiny but very rich preserve, with a number of rare oak barrens and oak savanna species.

22 June, Exploring the Legacy Land Conservancy's Reichert Preserve. Leader: Bev Walters. We went along a boardwalk through an extensive swamp with many *Cypripedium parviflorum* var. *makasin* in flower to arrive at a dry ridge with a predominately oak overstory. This glacial esker is home to many plants that are uncommon in SE Michigan: *Lathyrus ochroleucus*, *Gautheria procumbens*, *Vaccinium pallidum*, *Vicia caroliniana*, and *Taenidia integerrima*.

THE 2013 MBC STATE FALL MEETING:

Saturday, October 12, 2013, the Huron Valley Chapter hosted the Michigan Botanical Club State Fall Meeting, held at the Gerald E. Eddy Discovery Center in the Waterloo State Recreation Area near Chelsea.

The talk was "Alaska Botany – Tall timbers to Tundra" presented by Tony Reznicek, and after the meeting, many participants walked along the trail to a sandy woods to have a field trip centered on the evergreen lycopods, led by Connie Crancer. We saw 9 species and hybrids of Lycopods, unusually diverse in southern Michigan.

The 2014 MBC Foray in the Keweenaw Peninsula:

Huron Valley Chapter members were especially well represented at the Foray, held in July this year and based at Michigan Technological University in Houghton. In addition to our regular membership, we had four supported students attending: Aaron Iverson, a graduate student in EEB, Matt Pierle, a graduate student at the University of Vermont (but a Michigan undergrad), Julie McLaughlin, a graduate student in SNRE, and an intern for the summer at the Matthaei Botanical gardens responsible for the Great Lakes garden, and our very own HVC artist, Artemis Eyster.

Outreach efforts:

Besides helping various groups with Stewardship efforts, most notably and directly at Horner woods, where we had workdays Sunday 20 October, Saturday 19 April, and Saturday 24 May, we also provide support and expertise for efforts at various other areas in SE Michigan and the Huron River watershed, in particular a day at the Shanghai Prairie.

Southeast Michigan Science Fair Botanical Awards – March 15, 2014 at Washtenaw Community College. MBC judges at this year's fair included Faye Stoner and Irene Eiseman (HVC), and David Gruenawald (SEC). Three Middle School and two High School students were awarded prizes for their outstanding scientific content and presentation. We gratefully acknowledge the financial support from Michigan Botanical Foundation and HVC members who provided essential funding for the Science Fair Awards program. Several of the Student Award winners from Middle School Division attended the HVC award ceremony held March 17th at Matthaei Botanical Gardens.

—Tony Reznicek, HVC President