

# Water's Edge

## Gratiot Lake Conservancy News



Volume 17

Summer 2015

### *GLC's Annual Members Meeting*

**Thursday, August 13 at the Eagle Harbor Community Building  
(M-26 in Eagle Harbor across from Shoreline Restaurant)**

**7 PM: business meeting  
7:30 PM: light refreshments  
8:00 PM: slide talk by Dr. John Yunger:  
"The Keweenaw Presettlement Forest"**

John Yunger is a researcher and teacher at Governors State University. His areas of expertise are population biology, conservation biology, and vertebrate zoology. One area of current research is the conservation of northern hardwood forests following settlement by Europeans. John will share research conducted by him and his students into the composition of Keweenaw forest and forest ecology before the copper boom in the 1800's.

In other local research, John and his students set up temporary predator monitoring stations to detect the presence of carnivores such as wolves, black bear, and weasels at various sites in the Keweenaw including on GLC lands. John (in foreground) is pictured at right with student Matt Olson programming a predator monitoring station camera.



John will present a proposal for a future predator survey which may involve participation by local volunteers.

### *Lichen Workshop With Karena Schmidt*

**Saturday, August 15, 10:00 AM to 3:00 PM**

At 9:30 AM those who wish to carpool to the workshop will meet at Brunette Park to drive to the Noblet Field Station. Others may meet the group at the Field Station at 10 AM. Participants should come prepared for moderate walking. Bring drinking water, a hat, sun and insect protection, a small notebook for sketching and/or notes, a camera (optional), and a bag lunch.

Following an introductory talk indoors, the group will explore the lichen flora at the Gratiot Lake Preserve. Participants will have the opportunity to examine their finds with hand lenses and also under the microscope back at the Noblet Field Station. Handbooks and reference books will be available for your use. *Lichen workshop continued on page 5.*



Photo by Jim Hay

A Red-breasted Nuthatch finds breakfast on a lichen encrusted tree trunk.

In addition, lichens take on an impressive variety of appearances. Don't miss this opportunity for a close encounter with lichens to discover what they reveal about our world.

Over 620 different lichen species have been identified in the Copper Country, and no doubt many more await discovery. Lichens are complete ecosystems where the fungus has learned how to farm algae.

This collaboration results in a remarkable partnership that enables the duo to live in a vast array of environments. In

***Nature awaits!  
Explore outside.  
Attend a GLC workshop.  
Information inside...***

**GLC is grateful for all donations received. Your generosity sustains us!**

In the last seven months GLC has received Major Gifts from

*William Bingham and Laura Cison*

*HFRX Foundation*

*Bonnie and Jim Hay*

*Carol and Joseph Lizzadro*

*Carmen Sandretto (in memory of Louis Sandretto)*

GLC welcomes Laura Porter as the newest Life Member.  
Consider becoming a Life Member. Contact GLC for details.

### ***GLC Awards Rita and Jack Sandretto Scholarship***

GLC is happy to announce the award of the *Rita and Jack Sandretto Scholarship* to Jacalyn Blau, a sophomore at Lake Linden-Hubbell High School. Jacalyn, the eleventh student to receive this scholarship, will attend the *Michigan Tech Summer Youth Program Exploration: Aquatic Ecology at Gratiot Lake*. The group of eight high school students will camp at GLC's Noblet Field Station from July 27 to 31. The tuition scholarship and the salary of instructor Brian Rajdl are funded from an education endowment originally established in 2002 by Rita Sandretto in memory of her husband Jack. Rita, who was an avid supporter of environmental education, passed away in 2007.

### ***Janet M. Avery Scholarship Awarded***

Quinn Collins an AmeriCorps member serving at the U.P. Resource Conservation & Development Council in Marquette will receive a *Janet M. Avery Scholarship* to attend the *Aquatic Plant ID Workshop* in August. In his AmeriCorps work Quinn works with prevention and management of non-native and invasive species. He plans to go on to graduate studies focusing on plant ecology.

The *Janet M. Avery Scholarship* was established in 2006 in memory of Janet, a long-time Gratiot Lake resident who founded a local environmental action group, A.W.A.K.E. in the mid-1990's. Janet and her husband Bud loved Gratiot Lake and saw the potential threat to stream and wetland ecology posed by a copper mine proposed nearby. A.W.A.K.E. drew scrutiny to this issue. Janet knew that education was key to good stewardship of land, and she and Bud were supporters of GLC from its inception. When A.W.A.K.E. dissolved in 2004, the bulk of residual funds were donated to GLC for education.

## ***About Water's Edge***

*Water's Edge* is the newsletter of the Gratiot Lake Conservancy. Its purpose is to report Conservancy news, share information about the ecology and history of Gratiot Lake and its environs, and suggest ways to improve stewardship of the lake and its watershed. View *Water's Edge* in color on the GLC website.

***Please send questions, comments, or articles to***

***Bonnie Hay***

***Gratiot Lake Conservancy***

***P.O. Box 310***

***Mohawk, MI 49950***

***info@GratiotLakeConservancy.org phone: 906-337-5476***

***www.gratiotlakeconservancy.org***

## Tracking Workshop

Educator Brian Rajdl

Saturday, July 18, 9 AM to 3 PM (Raindate July 19)

Nature educator Brian Rajdl will lead this outdoor exploration at the Gratiot Lake Preserve. Brian has taught the *Michigan Tech Summer Youth Program Exploration: Aquatic Ecology at Gratiot Lake* for ten years. He has also led field trips for the Isle Royale Institute. Brian is an experienced tracker and has taught many tracking based classes. After an introduction in the Noblet Field Station, the group will explore the trails and shoreline of Gratiot Lake. Participants will learn to track animals and to interpret the signs they leave behind. Tracks, scat, feathers, fur, rubs, chews, lays, dens, and burrows are all signs to help identify:

WHO has been there,  
WHAT they were doing,  
WHEN they were there and,  
WHERE their trail leads.

Careful observation and use of all the senses will help participants unlock the secrets behind the signs including WHY an animal has left a particular sign.



The field guide "Animal Tracking Basics" by Jon Young and Tiffany Morgan is included in the course fee (one copy per family). **Advance registration is required and group size limited.** The fee for adults is \$20 (\$15 GLC members). The fee for children under 16 accompanied by an adult is \$5 (free for GLC members). *Janet Avery Scholarships* are available. **Download a form at <http://www.gratiotlakeconservancy.org/TrackingWorkshop2015.htm>** or call 337-5476.

## Explore the Gratiot Lake Preserve

Monday, July 20th  
10 AM to 2 PM

Discover the Gratiot Lake Preserve by land and by water. We will hike on trails and on shoreline. Bring a brown bag lunch, water, and optional wading shoes or boots to explore wet areas. Part of the day may be spent on a pontoon boat tour depending on weather conditions. There is no charge for this field trip but **reservations are necessary**. For details, directions to meeting location, and to reserve call 906-337-5476 or email [director@GratiotLakeConservancy.org](mailto:director@GratiotLakeConservancy.org).

## Sketching the Landscape in Watercolor

Artist Marilynn Brandenburger

Saturday, August 1 at Central House #2

(on Central Rd near Stagecoach Rd)

Sunday, August 2 at Eagle Harbor Community Building

(M-26 in Eagle Harbor across from Shoreline Restaurant)

Each day 9:30 a.m. to 4 p.m.

Learn to sketch the lovely Keweenaw landscape in watercolor! Join artist Marilynn for a relaxing weekend of watercolor sketching. Learn or refresh your skills in watercolor basics while creating small, quick sketches with pencil and watercolor. Topics will include choosing and composing the subject, sketching with pencil, mixing colors and laying paint onto the paper. We will paint outside, weather permitting, and the lake, the sky, the shoreline and nature's details will be our subjects. Class includes demonstrations and lots of supportive, personal attention. Basic drawing skills are recommended, but beginners are welcome. Bring a sack lunch both days.

Fee for the two-day workshop is \$100 (\$85 GLC members and Keweenaw County Historical Society members). **Class size is limited and advance registration is required.**

**Download a form at [www.gratiotlakeconservancy.org/BrandenburgWkshop2015.htm](http://www.gratiotlakeconservancy.org/BrandenburgWkshop2015.htm)**. Mail enrollment form and check to GLC. Confirmation and further details will be sent via email (unless you indicate you prefer a paper confirmation).

*Janet Avery Scholarships* are available. Scholarship applicants should contact GLC. Please indicate your affiliation if any, why you would like to attend the workshop, and how you hope to use what you learn. Put "Landscape in Watercolor Scholarship" in the subject line if you email.

Marilynn Brandenburger is a professional artist whose still-life and landscape paintings in watercolor and mixed media are in collections throughout the U.S. Her beautifully illustrated watercolor journals reflect her love of nature and provide inspiration for her paintings. She holds a master's degree in art education and has been happily teaching adults to draw and paint for more than 35 years. This is the third workshop Marilynn has held for GLC. Marilynn was *Artist in Residence* at GLC's Noblet Field Station in 2004, and GLC has hosted her workshops in previous years. You can see her work on her website:

**[www.marilynnbrandenburger.com](http://www.marilynnbrandenburger.com)**.



To apply for a Janet M. Avery Scholarship to attend a workshop, **email GLC**. Put the workshop name in the subject line. Include your contact information and how you plan to use what you learn.

## *Aquatic Plant Identification Workshop*

**Botanist Janet Marr**

**Saturday, August 22 and Sunday, August 23  
9:00 AM to 4:00 PM**

This workshop is geared towards professionals and students in the fields of biology, botany, environmental science, and education. It will also be of interest to volunteer monitors, lake association members, and others who want to learn to identify aquatic plants and invasive species in order to protect healthy ecosystems in inland lakes.



Workshop activities will take place both inside the classroom and in the field at several Keweenaw lakes and channels/ coves connected to Lake Superior. Submersed and floating-leaved aquatic plants will be identified with a focus on identification of pondweeds (*Potamogeton* and *Stuckenia* species) and rosette-formers including the Michigan endangered awlwort (*Subularia aquatica*). Techniques for collecting and herbarium specimen/label preparation will be demonstrated. Differences between aquatic invasive species such as Eurasian water-milfoil (*Myriophyllum spicatum*) and curly-leaf pondweed (*Potamogeton crispus*) and their native relatives will be discussed.

**Space is limited and advance enrollment is required.** The fee of \$100 (\$85 for GLC members). includes a field notebook, a handbook, *Guide to Aquatic Plants of Gratiot Lake and other Keweenaw County Lakes*, and canoe rental (use of your own canoe or kayak is optional). Workshop details and downloadable application are at <http://www.gratiotlakeconservancy.org/AquaticPlantWrkshp2015.htm>

**To apply for a Janet Avery Scholarship email GLC.** Indicate your affiliation (if any), why you would like to attend the workshop, and how you intend to use what you learn in your work, studies, or teaching. Put "Aquatic Plant Workshop Scholarship" in the subject line.

Michigan k-12 teachers: State Continuing Education Clock Hours (SCECHs) may be available to workshop participants.

**Visit us on Facebook!**

## *Beginner's Workshop on Dragonflies and Damselflies*

**Instructor Bob Marr**

**Tuesday August 25, 10 AM to 4 PM**

In the case of unsuitable weather (rain, cold) this workshop will be held the following day, August 26th

Want to learn more about the Odonata (dragonflies and damselflies) of the Keweenaw? Amateur odonatist Bob Marr will lead a one-day workshop on the identification of these "winged dragons" and "neon toothpicks."

Bob will provide an overview of the life cycle, ecology, morphology, and behavior of odonata followed by field identification. There will be a break for lunch and then more field observation. Participants will be encouraged (but not required) to net insects for study and release. Insect nets and magnifying lenses will be provided for those without their own equipment. Whether or not you wish to net specimens, by all means bring your camera as there will be plenty of opportunities for pictures!



Past workshops have netted the following interesting odonata species: Northern Spreadwing, Eastern Forktail, Tule Bluet, Hagans Bluet, Canada Darner, Black Shouldered Spinylegs, Black-tipped Darner, and White-Faced Meadowhawk. Bob has also found Dusky Clubtails, Stream Cruisers, Calico Pennants, and Common Baskettails.

Field guides will be available for reference at the workshop. If you wish to bring a field guide, we recommend *Dragonflies of the North Woods* by Kurt Mead and *Damselflies of the North Woods* by Bob Dubois.

**Advance reservations for this limited enrollment field trip are required.** Although geared towards adults, this workshop is fun for natural history oriented children age 11 or older. The fee is \$20 (\$15 for GLC members.) Fee for children age 11-16 (accompanied by adult) \$5 (free for GLC members). Directions to the meeting location GLC's Bammert Farm will be sent after registration. Download enrollment the enrollment form at [www.gratiotlakeconservancy.org/DragonflyWrkshp2015.htm](http://www.gratiotlakeconservancy.org/DragonflyWrkshp2015.htm)

## Explore Bammert Farm

Monday, August 17

10 AM to 1PM

Come on a guided walk through a red pine plantation, mixed hardwood forest, and wetlands on this 466 acre GLC land which is not often open to the public. There is a forestry management plan in place, and it is a site for sustainable forestry education, so we will pass through a red pine plantation which has been recently logged. We will see a few remnants of Bammert Farm's history and look for plants, animals, and fungi along the way.



Bammert Farm in the 1800's, photo courtesy of the *Keweenaw County Historical Society Margaret Hoffenbecker Collection.*

The hike will be easy to moderate. Much of the walk will be on a footpath that follows what remains of the old Phoenix Farm Road. Bring a brown bag lunch, water, and optional wading shoes or boots to explore wet areas. There is no charge for this field trip but reservations are requested. For details, directions to meeting location, and to reserve call 337-5476 or email [director@GratiotLakeConservancy.org](mailto:director@GratiotLakeConservancy.org).

*Go Digital  
and save paper and postage!*

Email [director@GratiotLakeConservancy.org](mailto:director@GratiotLakeConservancy.org)  
if you would prefer to receive  
only a digital copy of  
*Water's Edge* and no paper copy.

**It's that time of year.  
Everything is growing...  
including invasive plants!  
HELP with the WEEDING  
at Bammert Farm and Gratiot Lake.  
Dates in early July and mid-August  
contact GLC at 337-5476  
[director@GratiotLakeConservancy.org](mailto:director@GratiotLakeConservancy.org)  
Snacks provided :)**

### *Lichen workshop continued from page 1.*

Advance reservations are required. Reserve early for this limited enrollment field trip as it is filling fast. The fee is \$25 (\$15 for members). The registration form is available at <http://www.gratiotlakeconservancy.org/LichenWrkshp2015.htm>. Janet Avery **Scholarships are available for this workshop.** Email GLC information on how you might use lichen information in your studies, work, or volunteer activities.

Workshop instructor, Karena Schmidt is a resident of the Keweenaw with a love for wild places. She takes great delight at looking at interactions in the natural world as a role model for her own life experience. Lichens are among the ecosystems from which she has learned the most meaningful lessons. She offers presentations to many nature groups and schools in the community. Karena's favorite website on lichens [www.waysofenlichenment.net](http://www.waysofenlichenment.net) offers interesting essays and a very impressive photo gallery.

Karena looks forward to a day of "enlichenment" with you!

**View *Water's Edge* Newsletters (in full color),  
articles, calendar, photos, video clips, and links:  
[www.GratiotLakeConservancy.org](http://www.GratiotLakeConservancy.org)**

**CLEAN BOATS  
CLEAN WATERS**

Clean off these areas to avoid transporting invasive species from lake to lake!

**WATERCRAFT CHECK POINTS**

<input type="checkbox"/> Anchor	<input type="checkbox"/> Ladder	<input type="checkbox"/> Spare tire
<input type="checkbox"/> Axle	<input type="checkbox"/> Landing net	<input type="checkbox"/> Tackle
<input type="checkbox"/> Bait bucket	<input type="checkbox"/> License plate	<input type="checkbox"/> Tow rope
<input type="checkbox"/> Bunks	<input type="checkbox"/> Motor	<input type="checkbox"/> Trailer
<input type="checkbox"/> Bow line	<input type="checkbox"/> Wheels	<input type="checkbox"/> Transducer
<input type="checkbox"/> Fishing line	<input type="checkbox"/> Live well	<input type="checkbox"/> Transom well
<input type="checkbox"/> Floor	<input type="checkbox"/> Lights/wiring	<input type="checkbox"/> Trolling motor
<input type="checkbox"/> Hull	<input type="checkbox"/> Rollers	
<input type="checkbox"/> Intake pipe	<input type="checkbox"/> Prop	

**"I went to the woods because I wished to live deliberately, to front only the essential facts of life, and see if I could not learn what it had to teach, and not, when I came to die, discover that I had not lived."** *Henry David Thoreau*

## Following in Thoreau's footsteps



Nineteenth Century naturalist Henry David Thoreau is best known for his intimate descriptions of Walden Pond and the behavior of animals and plants around his beloved retreat. Thoreau also produced records of the blooming times of plants in the Concord area. His early records (and other diaries and reports of naturalists including Aldo Leopold, Wisconsin conservationist) are being used by scientists today to better understand changes that have occurred to plant communities over time. One research team from Harvard, Boston University, and University of Wisconsin (Ellwood, Temple, Primack, Bradley, and Davis) compared historical records of 32 species of plants (including the yellow violet pictured here) observed by Thoreau in the Concord area to more recent plant data. The team found that plants in Concord are flowering on average about 10 days earlier than they were in Thoreau's time, over 150 years ago. Average spring temperature in the Concord area has risen about 6 degrees Fahrenheit in that same period. This data reflects the effects of climate change.

Opportunities abound for animal and plant lovers to contribute their nature observations to further scientific knowledge. Anyone with observational skills, a willingness to learn, and basic computer skills can collect and submit data on natural phenomena. Citizen scientists (as they are dubbed) usually receive free training and resources to better equip them for the task.

Recently, GLC joined the Michigan Nature Association's lead and signed up to participate in the *Michigan Butterfly Network's* ([michiganbutterfly.org](http://michiganbutterfly.org)) census. Volunteers throughout Michigan note butterfly species observed during regular patrols of trails of their choice. This monitoring enriches understanding of the diversity and abundance of butterfly populations throughout the state, and over time will give insight into environmental changes that can affect not only butterflies but people as well.



Canadian Tiger Swallowtail Butterfly

Volunteers have been contributing observations to the *Michigan Herp Atlas* since 2004. Reptile and amphibian sightings can be entered in an online database at [www.miherpatlas.org](http://www.miherpatlas.org). The goals are a more complete picture of each species' range and abundance and also to document population changes and trends. With a smart phone app it is possible to easily upload photos and details including GPS coordinates. Jotting down observations on good old pencil and paper and mailing them in is also acceptable.



If you are musically inclined, you might like to participate in the *Michigan Frog and Toad Survey*. Under MDNR auspices, volunteers are trained to discern frog species and numbers by listening to their songs. At dusk over the spring and summer, volunteers listen to frog song at various set locations. With the help of Mike Schiewe and Headwaters students, GLC participated in this acoustic frog and toad survey in 2001 and 2002. Six species of frog and one toad species (pictured at left) were identified in and near Gratiot Lake.

In addition to the *Michigan Frog and Toad Survey*, the MDNR is looking for other citizen science input. You are asked to supply data on everything from wild turkeys, or cormorants to the quantity of acorns available for wildlife forage. [http://michigan.gov/dnr/0,4570,7-153-10370\\_12143---,00.html](http://michigan.gov/dnr/0,4570,7-153-10370_12143---,00.html)

Local bird enthusiasts can contribute by participating in the Copper Country Audubon Club's Brockway Mountain tally of raptors during their spring migration, by helping out with the annual winter bird census, and by looking for cranes during the spring sandhill crane count in the Keweenaw Peninsula.

Cornell Lab of Ornithology's *Project Feeder Watch* ([feederwatch.org](http://feederwatch.org)) offers armchair birders an opportunity to participate by recording what species are present right outside their window! Beyond the armchair, Cornell's *Nest Watch* at [nestwatch.org](http://nestwatch.org) encourages reporting on bird nests.

Although, like Thoreau we cannot know the full value that observations made and carefully recorded today will have for future generations, we can still marvel at nature and record what we see and experience as he did.

**"All change is a miracle to contemplate, but it is a miracle which is taking place every instant."** *Henry David Thoreau*



At left, a participant in GLC's 2011 Aquatic Plant ID Workshop explores Bete Grise Preserve sloughs. See page 4 for info on this August workshop.

## Houghton Keweenaw Conservation District Invites You to Attend!

**August 23: Party at the Point** Benefit for the Bete Grise Preserve sponsored by Stewards of Bete Grise Preserve. Meet at Pt. Isabelle Park any time 3:00 - 10:00PM. Potluck at 5:00 PM; Live Music at 6:00PM. Bring a beverage and dish to share. No charge, but donations encouraged.

**August 30:** Dedication of the Joseph and Mary Lizzadro Lakeshore 10 acre expansion. This land was added through the generosity of the Gianinni Family and private donors. 2:00 - 4:00PM. Dedication Ceremony including Native Wildflowers presentation and refreshments.

## The flower is pretty... but don't touch!

Wild parsnip (*Pastinaca sativa*) is a non-native invasive species that grows in Central and elsewhere in the Keweenaw. One can surmise that this plant from which cultivated parsnip arose was planted in the 1800's as a root vegetable. Its yellow flower is similar in form to that of its close relative Queen Anne's Lace (wild carrot). But wild parsnip is more robust and can hold its own among thimbleberry plants.

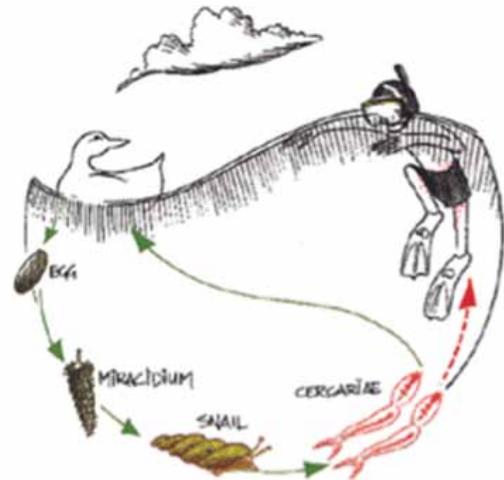


As a result, you are more likely to bump into wild parsnip, and bumping into it can be a problem. While the root of the parsnip is edible, handling its shoots and leaves of the plant requires great caution as the sap is toxic on exposure to sunlight. The spelling-bee word for this reaction is "phytophotodermatitis". Contact with leaves can cause a nasty rash that blisters, burns, and itches.

Keweenaw Invasive Species Management District (KISMA) is sponsoring a presentation and clinic on wild parsnip. The clinic, led by Janet Marr, will meet at the Eagle Harbor Community Center on Tuesday, July 7 from 10AM to 3 PM. Bring a bag lunch and come prepared to spend some time outdoors. Email KISMA coordinator Marcy Erickson to register: [maericks@mtu.edu](mailto:maericks@mtu.edu)

## Michigan Coastal Clean-up Pitch in at Gratiot Lake shoreline Saturday, September 19th 9:30 to Noon

### Watch Out for Swimmer's Itch!



Looks like swimming weather is ahead. The tiny swimmer's itch parasite can cause allergic dermatitis. Swimmer's itch seems to be worst when winds are blowing toward shore. Short of avoiding a dip, here are some recommendations:

1. Rinse off thoroughly and towel dry vigorously after exiting the water. The swimmer's itch parasite takes time to burrow into the skin. For many but not all of these parasites, washing and drying is a deterrent. Skin under swimwear is usually protected, but be sure to wash your swim suit.
2. Swim in deeper water rather than sitting or standing in the shallows.
3. The parasite lives part of its life in waterfowl. Discourage ducks and geese from coming into shore. Don't feed the ducks.
4. If you get an itchy rash (it looks sort of like hives), do the same things you might for any rash to relieve the itching (e.g. baking soda and water on the "bite," hydrocortisone cream, etc.). Consult a doctor for bad inflammation.
5. Some folks at Gratiot Lake are trying out a cream which claims to prevent swimmer's itch.

## Nature Notes

Although Riley Jamison was skating near the outlet of the Little Gratiot River in the SW corner of Gratiot Lake in early April, Virginia Jamison reported ice was breaking up at Gratiot by April 30<sup>th</sup>. This is a considerably earlier ice-out date than in the last couple of years. Hummingbirds arrived at Gratiot Lake feeders about two weeks later! As of June 9, thimbleberries are blooming at Gratiot Lake. Remember last year when ice was still floating in Keweenaw Bay on June 9!



Photo by Dorothy Jamison

After a May fly-over to survey occupancy of bald eagle nest sites, Neil Harri and Brett Huntzinger confirmed that a nest on GLC land had a brooding adult on it (eggs are normally laid here around mid-April) and that the old nest on the NW end of Gratiot remains unoccupied (for the second year). Last year, although 12 Keweenaw County eagle nests were noted as occupied by early aerial surveys, only six ultimately produced viable young. As of mid-June, two mature and four immature eagles have been seen at Gratiot Lake.

## We know you have talent! We hope you have the time.



Enjoy feeding a crowd? Bring refreshments to the Members Meeting on August 13th.

Enjoy carpentry? Install new seats in and revarnish the “Jake” and “Amber” canoes, remount a bat house, or make and mount bee or bird houses.

Enjoy gardening? Pull invasive plants such as knapweed and marsh thistle from the perimeter of Gratiot Lake and Bammert Farm. Dates in July and August.

Enjoy writing? Contribute an article to *Water's Edge*.

Enjoy watching wildlife? Keep a diary of nature happenings you and others observe at Gratiot Lake. Share Gratiot Lake photos on the Gratiot Lake Conservancy *Facebook* page.

Enjoy boating? Assist Dorothy Jamison with water monitoring and testing. Be on the lookout for invasive aquatic species.

Enjoy walking on the shoreline? Help by picking up trash on the beach during the *Alliance for the Great Lakes Coastal Clean-up* on September 19th or whenever you have time!

## Last Minute Events?

**Field trips may be offered on short notice. Contact GLC to be added to the “spur of the moment” notification list!**

## Join the 150 families who help support Gratiot Lake Conservancy!

Conservancy members receive a biannual newsletter, notice of special events, and an invitation to the Annual Members Meeting. Some GLC programs that have fees are discounted for members.

Your support is always welcome!

***Click here to download a GLC donation form.*** The form and check may be mailed to GLC, P.O. Box 310, Mohawk, MI 49950. The membership year is from January 1 to December 31st, but you may donate at any time.

Donors of \$100 or more receive a gift of notecards with photos taken at Gratiot Lake.

***Click to see samples of the photos!***

