



CANANDAIGUA LAKE
WATERSHED ASSOCIATION
SUMMER 2019

LAKE REPORTER

2019 CLWA ANNUAL MEETING

WEDNESDAY, AUGUST 14
FLCC STAGE 14
6:00 - 8:00 PM

Light refreshments & wine will be served. A \$5 donation at the door is suggested.

Please RSVP to
info@canandaigualakeassoc.org
or (585) 394-5030.

The Annual Meeting is a great place to hear more about current watershed initiatives!

Join us for a business meeting with officer and director elections, reports from the Chair and Treasurer, and award recognitions including the announcement of our 2019 Photo Contest winners. Please note, at this meeting we will also hold a vote to amend our Bylaws. The specific issues will be to increase the number of Board members to 18 and to create a new CLWA Advisory Board.

After the business meeting, stay for two great presentations focused on our watershed.

KEYNOTE PRESENTATION:

Anthony R. Prestigiacomo
Research Scientist, DEC Division of Water, Finger Lakes Watershed Hub

Canandaigua Lake is a historically low nutrient lake that has, since 2015, documented shoreline accumulations of cyanobacteria and, recently, experienced large-scale, open water cyanobacterial blooms in the northern portion. At this talk, Tony will describe his summer research project on Canandaigua Lake, which is designed to collect detailed temporal (in time), vertical (in depth), and spatial data at multiple locations at both open-water and nearshore sites for field parameters, user perception, trophic state indicators (nutrients, chlorophyll-a, and clarity), in-situ chlorophyll-a and phycocyanin concentrations, and microcystin toxins. The information collected will be used to: (1) collect scientifically defensible data sets to help understand the formation and distribution of cyanobacteria biomass and microcystins in low nutrient lakes, and (2) determine the representativeness of the open water, long-term monitoring location compared to intensively monitoring, additional sites from this study.

Kevin Olvany, Watershed Program Manager (Canandaigua Lake Watershed Council) will also present on the new Canandaigua Lake Water Trail.

We hope to see you on Wednesday, August 14th!

CANANDAIGUA LAKE WATER TRAIL HAS LAUNCHED!

The Canandaigua Lake Watershed Council, Finger Lakes Visitors Connection, along with a host of other partners, have announced the official launching of the Canandaigua Lake Water Trail website, brochure and full Water Trail Plan!

The Water Trail project has organized a comprehensive list of the 20 launching and destination sites and emergency access sites across Canandaigua Lake, creating a cohesive network of public access sites for paddlers to explore and enjoy, thus providing the public a high-quality paddling experience.

Watershed Technician Kim McGarry and Watershed Manager Kevin Olvany co-authored the publications with input and

contributions from additional people and organizations across the region.

For more information on the Canandaigua Lake Water Trail, your paddling guide to Canandaigua Lake, visit CanandaiguaLakeWaterTrail.com for interactive maps, detailed access and destination site information and itineraries. You may also order a detailed brochure by calling Finger Lakes Visitors Connection at (585) 394-3915 or stopping by the CLWA office.





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The Lake Reporter is published quarterly and distributed free to members and supporters. We invite submissions. Please send via postal mail or email to: info@canandaigualakeassoc.org

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Lindsey Ayers, Watershed Intern

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Jodi Kaufman



PRESIDENT'S MESSAGE

by Neil Atkins

We are pleased to report that our member volunteers are active in our monitoring programs this summer. This year, we have expanded our harmful algal bloom (HABs) monitoring program from 18 zones and 17 volunteers in 2018 to 30 zones and 29 volunteers in 2019. All of our volunteers have been trained by the DEC on how to sample and have learned the new reporting protocol. The program will begin on August 3rd and continue through October 8th. When a bloom

is observed and confirmed, a water quality advisory will be sent out to our members. It is with our volunteers support that we are able to document the occurrence of HABs around the lake.

We also have 20 Secchi disk volunteers this year. They have begun measuring and recording water clarity and surface water temperatures. This summer, they are also participating in "Lake User Perception Surveys" as part of a partnership effort with the DEC to help us document changes in the lake's condition over time.

For the third year, CLWA volunteers are participating in CSLAP (Citizens Statewide Lake Assessment Program) sampling program which involves water chemistry testing every other week at two locations on the lake. One location is in mid-lake near Tichenor Point, and the second is mid-lake south of Seneca Point.

All of the Finger Lakes Associations are now involved in volunteer monitoring and sampling programs. While control of the programs is retained by the local infrastructure, results are shared and retained with state agencies to contribute towards a larger data set.

We are in the process of establishing a thermistor array in Canandaigua Lake near the City of Canandaigua water treatment plant. This array will allow us to study the movement and mixing of the thermocline. It will be positioned in 70+ feet of water and will measure and record water temperature in one-meter increments. This data will provide a component in a model that the DEC will accept for inclusion in the 9 Element Plan that will be used in the update of the Canandaigua Lake Watershed Management Plan. The 9 Element Plan is a plan that will identify and quantify sources of pollutants and describe the actions to meet the determined water quality goals.

The DEC staff is also active in doing more sampling and research on Canandaigua Lake this summer. Canandaigua Lake is considered an historically low nutrient lake that has recently, since 2015, had documented activities of shoreline and open water HABs (cyanobacteria). This level of activity would not normally be expected in a low nutrient lake. The DEC program is designed to collect detailed data in multiple locations from open water and near shore sites. This data will be used to help understand the formation and distribution of cyanobacteria and the microcystin (toxin) in our low nutrient lake. Tony Prestigiacomo of the DEC Watershed Hub will be our keynote speaker at our Annual Meeting on August 14th at FLCC and he will be discussing this research and answering questions from members (see announcement on the cover). We encourage you to attend to learn more about this important work and hear more about CLWA's ongoing activities.

2019 ANNUAL APPEAL CAMPAIGN: PRIORITIES FOR ACTION

CLWA's 2019 Annual Appeal campaign is in full swing and we need YOUR support!

The challenges to protect watershed health have increased over the last few years, and we need the assistance of our members now more than ever to ensure that these threats are addressed through innovative programs, partnerships, and projects.

CLWA has identified priorities this year that will help us better understand complex scientific questions on harmful algae blooms and lake foam. Funds raised through this Appeal will determine the level of involvement that we can put into each program. We have set ambitious goals because we believe these projects will give us valuable insight towards our water quality challenges.

If you have not done so already, here are the projects we hope you will support:

FUNDING FOR LAKE FOAM RESEARCH

Large-scale lake foaming events have increased in frequency, volume and coverage of Canandaigua Lake, often accumulating along shoreline areas. CLWA is partnering with a team of water quality researchers to study the Canandaigua Lake foaming events. Funding will support a defined research project using cutting-edge analytical methods to help identify potential contributing sources to the lake foam and research the pollutants that may accumulate in the foam and surrounding water. *Lake Foam Research: \$17,000*

SUPPORT FOR ENHANCED ENVIRONMENTAL MONITORING

As water quality concerns increase, research efforts must expand to aid in the development potential mitigation strategies. In 2019, CLWA will be working with our partners to integrate new water quality and environmental monitoring technology that will allow for continuous data collection on the lake.

- A lake temperature profiler to be installed just north of the City of Canandaigua's water treatment facility that will collect water temperatures at multiple depths to monitor thermocline disruptions. The information collected, paired with shoreline HAB monitoring, will help us gain a better understanding of the near shore dynamics. *Thermistor Array: \$1,500*
- Funds to support the purchase of two weather stations to be tied into Cornell University's Network for Environment and Weather Applications (NEWA). High-quality weather data is needed to compliment increased water sampling efforts. *Two Weather Stations: \$3,000*

These new projects go above and beyond what membership dollars support. Thanks to your generosity in 2018, CLWA was able to launch our shoreline harmful algae bloom monitoring program, to continue boat inspections at the lake's two busiest launch sites (over 16,000 boats checked by watercraft stewards!), and to deliver educational programs to the agricultural community through creative cooperative efforts.

We ask that you consider matching or increasing last year's donation to support these important initiatives. A donation form is included on the back of this newsletter, or you can visit our website to donate online.

Help us take the next steps toward maintaining healthy land and clean water!



Large-scale foaming events like the ones pictured here on the west side of the lake, north of Onanda Park raise questions on the composition of the foam and the potential correlation to algae blooms.

Images taken on September 9, 2018 by Dorothy Roach



A SUCCESSFUL GRANT APPLICATION WILL ENSURE THE CONTINUATION OF THE WATERCRAFT STEWARD PROGRAM ON CANANDAIGUA LAKE

This spring, CLWA worked with our partners at the Canandaigua Lake Watershed Council to co-author a grant under the DEC's newly consolidated Invasive Species Grant Program to support the continuation of the Watercraft Steward Program at the lake's two busiest launch sites, the Canandaigua Lake State Marine Park launch and the DEC Woodville launch. We are thrilled to announce that our application was successful and we will be awarded \$76,281.16 to continue this important aquatic invasive species (AIS) education and outreach program through 2021!

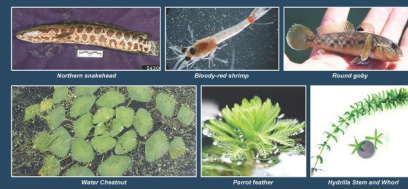
For this round of grants, the DEC aimed to fund programs that showed a regional focus (programming which services two or more lakes). To increase our chances of securing funding, we reached out to our friends at neighboring Honeoye Lake and brought them into the program by including one day of steward coverage at Honeoye Lake with a Finger Lakes Institute (FLI) steward. Honeoye is a lake used heavily by anglers, and boater traffic data collected in previous years shows that the Woodville launch sees a relatively high percentage of boaters coming from Honeoye Lake, likely because of the good fishing at the southern end of our watershed. By leveraging our local resources and strong partnerships with FLI, NYS State Parks, the DEC, and the Honeoye Valley Association, we were able to craft a robust AIS Education and Outreach program plan that builds on each organization's strengths and fit the goals of the funding parameters.

The main thrust of this program will be to continue the same level of comprehensive coverage at the Canandaigua Lake launch sites that the public has come to know and expect for boat inspections. One FLI Steward will be at the launch sites for 10 hours per day Monday through Friday, and two stewards will be placed for 8-hour shifts on Saturdays and Sundays (with staggered shifts to expand the window for boat inspections to handle the heavy traffic at the State Boat launch). Funding will also support one 10-hour shift for a Honeoye Lake steward, which builds in an extra day of coverage at a lake that is currently only covered by FLI four days a week. In addition to steward coverage, the program will also expand AIS education through workshops, talks, and innovative means of public outreach including videos and social media campaigns. Lastly, we will conduct a survey of the signage and disposal stations at the 15 access points around the lake to make sure launch sites features up to date interpretive signage and AIS identification information (see an example of the new signs above).

CLWA, CLWC and FLI recognize that well-run watercraft steward programs are imperative to protecting our lakes from establishing new unwanted invasives and have become a mainstay at many launch sites across New York State. Our commitment to providing this service to recreational lake users in our community has just become a little easier with this assurance of state funds through 2021.

STOP! You can help stop the spread of invasive species
CLEAN, DRAIN and DRY
your watercrafts

- Invasive species have invaded many waterbodies in the Finger Lakes
- Launching contaminated watercrafts can cause new invasions
- Help protect the Finger Lakes



New signage that will be installed at launch sites around the lake, design courtesy of FLI

ATTENTION BOAT OWNERS!

This summer, Auto Wash Car Wash on Route 332 will be offering FREE boat washes to help keep our lake clean! As we know, boats and trailers are a main vector for "hitchhiking" invasive species from lake to lake. The best way to protect our lakes from establishing new unwanted invasives is to Clean, Drain, and Dry. Auto Wash is partnering with CLWA to offer the first 16 minutes for free in their self-serve wash for ANY boat. Just pull in with your boat and trailer, find an attendant, and tell them you are going to (or leaving) Canandaigua Lake and get your free wash – it's really that easy!

We thank Auto Wash owner Bobby Marchenese and his staff for recognizing the importance of keeping our lakes clean!

Please share this info with your neighbors and visitors to the area.



SAVE THE DATE FOR THESE GREAT UPCOMING EVENTS!

SENECA HERITAGE DAY

August
31

The Middlesex Heritage Group is pleased to welcome Dr. Sally Roesch Wagner as the guest speaker for Seneca Heritage Day on Saturday, August 31st from 2-4 pm at the Overackers Corners Schoolhouse, Route 364 and North Vine Valley Road, in Middlesex. Dr. Sally Roesch Wagner will discuss the influence of this area's Haudenosaunee (Iroquois) women on the American suffrage movement.

Nationally recognized lecturer, author and women's rights historian Sally Roesch Wagner was awarded one of the first doctorates in the country for work in women's studies and a founder of one of the first college-level women's studies programs in the United States (CSU Sacramento). Dr. Wagner has taught women's studies courses for 50 years. She edited the intersectional Women's Suffrage Anthology (Penguin Classics, 2019) and currently serves as an adjunct faculty member in The Renée Crown University Honors Program, Syracuse University, and the St. John Fisher Executive Leadership Program. She also was founder and executive director of The Matilda Joslyn Gage Foundation, Inc. and Matilda Joslyn Gage Center for Social Justice Dialogue. Dr. Wagner's book *Sisters in Spirit* inspired a section of Ganondagan's exhibit "Hodinöhsö:ni' Women: From the Time of Creation" on view at the Seneca Art & Culture Center.

Ganondagan State Historic Site Manager Peter Jemison will be the event emcee. The day also will feature Bill Crouse (Seneca) leading the popular Allegany River Dancers—in full regalia—to share their traditional Haudenosaunee music and dance. Free ice cream sundaes will be served and pies will be available for purchase. The traditional bonfire on Bare Hill signifying the "Ring of Fire" surrounding Canandaigua Lake will commence at dusk following the afternoon festivities.

The Middlesex Heritage Group coordinates and partially funds the annual Seneca Heritage Day to honor and remember those people who lived in, and walked the hills and valleys of what is now called "Middlesex." Additional event funding is provided by the Mitchell Community Family Leadership Fund, the Canandaigua Lake Watershed Association, and the Town of Middlesex. The event is free and open to the public.

FILM SCREENING

September
17

Join CLWA and the Citizens Climate Lobby at the Wood Library on Tuesday, September 17 at 6:30 PM for a film screening of "Comfort Zone: A Film About Change". *Comfort Zone* is an engaging, consciousness-changing, and often funny film that presents a global issue from a personal perspective, challenging us to confront our own connection to climate change. Ellie Syverud, a local activist and member of Citizens Climate Lobby, will lead discussion afterwards.

VIEWPOINTS

October
1

CLWA will present our final "Viewpoints" program of 2019 on Tuesday, October 1st at Stage 14 at FLCC on the topic of Extreme Weather and how it impacts our lake and region. Presenter, Mark Wysocki, Senior Lecturer at Cornell University, has taught courses in Earth and Atmospheric Sciences since 1990. The program begins at 6:30 PM and includes a Q and A opportunity with Mark.

HARMFUL ALGAL BLOOM (HAB) MONITORING ON CANANDAIGUA LAKE FOR BOTH RECREATIONAL USERS AND DRINKING WATER SUPPLIES

By Kevin Olvany, Watershed Program Manager, Canandaigua Lake Watershed Council

The 2019 HABs monitoring season has multiple components to it and several partners involved to help us better understand the levels of blue green algae and the potential toxins that can be produced. The following is a list and brief description of the many initiatives that are integrated into an overall assessment of the lake from both a recreational and drinking water perspective.

- FLCC monthly lake monitoring for multiple parameters at up to 14 locations throughout the lake to help us understand potential for BGA blooms.
- DEC is completing intensive monitoring of the northern third of the lake for multiple parameters during the height of the HAB season. This is being completed in proximity to the intake pipes to help understand nutrient and BGA levels and dynamics that might be driving BGA growth and dominance. DEC personnel also videos of the bottom of the lake to understand Quagga/Zebra Mussel densities.
- 29 trained volunteers with the Watershed Association complete weekly BGA assessments of the shoreline areas around the lake and will collect samples in areas of suspicious blooms. We will have an interactive map that will help display the information to the public.
- Another set of 20 plus trained volunteers collect weekly secchi disk and temperature measurements to understand water clarity and detect changes/reductions in clarity that are a potential indicator of increases in BGA.
- Two trained volunteers complete water quality sampling every two weeks through the Citizens Statewide Lake Assessment Program. Although some of the data is not readily available until the winter- they provide real time visual assessments of the lake.
- Local pilots provide aerial imagery of suspicious changes in the visual appearance of the lake that could indicate the presence of widespread blooms.
- Watershed staff complete field visits each day to areas that are most prone to seeing HABs. They also have 24/7 access to email and can work with the Association to make field visits based on pictures that are sent or questions are raised.
- Centralized HABs email for the public to email questions and pictures of suspicious HAB events (HABs@canandaigualakeassoc.org).



FLCC Professor Patty Thompson and Watershed Manager Kevin Olvany out on the FLCC pontoon boat as part of the monthly sampling program.



Secchi disk volunteers

- FLI, Watershed Council and Association are teaming up to monitor the levels of various forms of algae throughout the lake during mid-August to the end of October. The goal is to go out 1-2 times per week over a 10-week period to measure the levels of the 4 major types of algae at multiple locations and depths. We will also be collecting samples and having them analyzed for toxin levels in both bloom and non-bloom areas. We will have a focus on areas where there are private intake pipes to better inform residents in those areas.
- The six water purveyors (Canandaigua, Gorham, Newark, Palmyra, Rushville and Bristol Harbor) are collecting weekly raw and treated water samples that will be sent to a certified lab for toxin analysis starting in mid-August and going through October to better understand the dynamics in the lake and treatment system. We

will have the results posted on the Watershed Association website (check out the "HABs and Drinking Water" tab on the CLWA website).

- The six purveyors will increase their frequency of sampling based on a multiple factors and conversations with the NYS Department of Health.

HABS MONITORING, CONTINUED.

- The six purveyors have also developed more intensive treatment plans to better manage HABs. They have also developed enhanced HABs plans.
- The six purveyors are connected to the watershed staff so there is good information flow on current conditions and test results.
- The Watershed program has purchased a bbe Algae Torch field instrument that will be able to accurately measure levels of Blue Green Algae and total Algae in the water column. We will utilize this instrument in multiple areas.

All of this information is collected and we have great relationships with all of the partners to share and synthesize the data. Some of the sampling programs are real time and others are more long-term research initiatives. We will continue to provide updated information on the latest information. The Watershed Association has the ability to send out email/Facebook blasts and we work in collaboration with the media to help inform the public on major changes to water quality.

We hope we don't have HAB events like we did in 2018. However, as I write this article it is 95 degrees and several of the Finger Lakes are seeing significant HAB events. We need to be prepared with the best information to be able to inform the public. If you have questions or would like more information- please do not hesitate to call or email me at (585) 396-3630.

2019 HABS MONITORING SEASON IS UNDERWAY

By Lindsay McMillan, CLWA Association Director

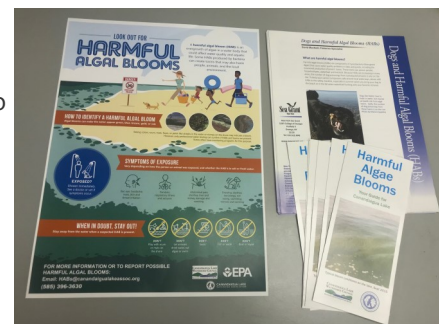
CLWA is partnering once again this summer with the Finger Lakes Institute and the Canandaigua Lake Watershed Council to track Harmful Algae Blooms around the lake from August through October. This will be our second year of an active volunteer shoreline monitoring network, and we are pleased to report that we will have 29 volunteers monitoring 30 zones around the lake, looking for signs of HABs. Two volunteer trainings have been held and each volunteer has been trained by the DEC on how to collect samples and report their findings. Everyone is ready to go, armed with sample bottles, brochures and information on HABs to share with their neighbors and friends.

This summer, we are teaming up with our friends at Seneca Lake Pure Waters Association (SLPWA) to participate in a new online reporting tool for bloom reports. The new format will feature an interactive map that you can scroll over to see the most recent HABs reports and photos of the blooms. Keuka Lake will also be participating in the program, and we are thrilled to be able to collaborate and share information and resources to build an even stronger regional network around HABs. There is strength in numbers! By actively engaging with other lakes on this issue, we are building our case on the need for additional research and funding.

As we transition into HABs season (which has historically been mid-August through September in our watershed), we hope you will check out the CLWA website for new resources and HABs reports. Our Volunteer Shoreline Monitoring Network was established to increase the number of trained "eyes on the lake" that can observe and respond to blooms, which builds up our capacity to provide good information to you, our members. We plan to continue sending out our *Water Quality Updates* via email blast to keep our members and the community informed of the current conditions on the lake. These updates, co-authored by CLWA and CLWC, come as a result of volunteer scouting efforts along with professional watershed staff observations and sampling efforts. We strive to bring you the most up to date information available, recognizing that the nature of these blooms is ephemeral, with conditions changing daily if not hourly.

We hope you will stay engaged in this issue and help spread the word with your neighbors and visitors to the area. How can you do this? Forward our email blasts and share our Facebook posts for starters! Social media has become a powerful tool for us to expand our reach in the community. You can also stop by the CLWA office and pick up brochures, posters, and other outreach materials that we have to share. If you are renting your cottage, consider including the info in your binders alongside your list of recommended wineries and restaurants. Visitors to the area should be aware of the concerns associated with swimming during and active bloom situation. We simply cannot reach everyone without your assistance.

As our organization learns more about this issue and about the State's role in public notification, it becomes clear that the local watershed groups will be the conduit for getting out good, solid, up to date information that can be used by residents. Thank you for supporting us in this effort with your membership dollars, your volunteer time, and your advocacy.



We have plenty of resources available... help us spread the word!

TOWN OF CANANDAIGUA SUPPORTS LAKE FRIENDLY LAWN CARE

By Linda Dworaczyk, Canandaigua Town Board Member and CLWA Treasurer

You might have noticed the new signs that recently went up in our Canandaigua Town parks that say “We Proudly Practice Lake Friendly Lawn Care”. These signs let park goers who don’t already know that the Town of Canandaigua is not using harmful chemicals to maintain our grassy areas in our parks. While the signs are new, our commitment to resident safety and lake health by avoiding chemical usage in our parks has been our practice for several years.

The new signs are part of a relatively new initiative that the Canandaigua Lake Watershed Association began almost two years ago called Lake Friendly Lawn Care in an effort to encourage lake stewardship in our community. The new Lake-Friendly program increased the information and resources available on the CLWA website to help people know what to do to improve their lawn care practices. Another part of the program makes small signs available to residents that took the following pledge:

I pledge to incorporate the use of lake friendly lawn practices in an effort to reduce my impact on the lake. I understand that (1) chemicals used on lawns may runoff into the lake and impact our drinking water (2) improper use of fertilizers may contribute to harmful algal blooms, increased aquatic plant growth, and the degradation of our water quality (3) I can have a beautiful lawn without the excess use of chemicals.

The signs have several purposes:

1. Provide a reminder that chemicals we use can have adverse effects on people, pets and our water supply.
2. Hopefully provide a conversation starter between neighbors that could result in more people reducing the amount of chemicals used to maintain lawns.
3. Let people know that the property is safe for people and pets.

Beginning in early 2019, the City, Town and CLWA have been partnering to increase awareness of the impact of lawn care by proactively target larger landowners and introducing them to the Lake Friendly Lawn program. These large landowners include the Town, City, HOA’s, etc. have been largely positive about the program. Everyone who has adopted Lake-Friendly Lawn Care practices has reported that by reducing their application of chemicals they are also saving money. The Lake Friendly Lawn Care working group is hoping as more people think about the impact of chemicals, our local lawn care professionals begin to offer services that are lake friendly.

You can learn more about the program at canandaigualakeassoc.org or use the handy link on the Town’s website under Projects / Canandaigua Lake Protection.



Keeping Outhouse Park Lake Friendly and safe for children and pets!



Look for the Town of Canandaigua’s Lake Friendly lawn signs at the following parks:

Miller Park
Outhouse Park
Onanda Park (lakeside)
McJanet Park
School House Park
County Road 30 Water Quality Project/trail
Blue Heron Park
Leonard Pierce Memorial Park
Old Brookside Park
Canandaigua Town Hall

CLWA WELCOMES SUMMER INTERN LINDSEY AYERS



Lindsey Ayers is completing a Masters degree in Environmental Science at SUNY College of Environmental Science and Forestry in Syracuse and will graduate this fall. She started her internship with CLWA in May and has jumped right in by assisting with the Lake-Friendly Lawn Care Program and the organization's citizen science programs. She is also gaining experience with invasive species as she serves as a FLI Watercraft Steward two days a week.

Lindsey grew up near Canandaigua lake and it has always held a special place in her heart. She loves spending time with her beautiful daughter Ayana, husky Leo, husband Marcus, other family and friends. She loves to hike, travel, garden, kayak, practice yoga, camp, read, create, adventure, learn, and just enjoy life to the fullest.

Lindsey will be working with us through the summer months - many of our volunteers will see her in the office where she will be accepting water samples and helping with those pesky chain of custody forms!

IN MEMORY OF MARGARET "PEGGY" HARGRAVE FRAME

Peggy spent her summers on Canandaigua Lake, a place that she loved more than anywhere else. She was nicknamed "The Lake Lady" and in her later years was there from spring until fall, caring for her beautiful gardens and cooking meals using the vegetables she grew herself. She was admired and loved for her fierce independence, her exhausting work ethic, her devotion to her garden and her cooking, her love of music, her ability to excel at whatever craft she put her mind to, and her deep love for her family.

Ilene & David Flaum and Family	Patrica Sladden	Don & Jean Mackenzie	Bruce & Anne Kennedy
Roger & Carolyn Friedlander	Bud & Joan Rusitzky	City Blue Imaging	Paula Briggs
Phillip & Anne Wehrheim	John Parker & Nancy Brush	The Hellman Family	Mary Gulick
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Frank & Cricket Luellen	William & Carol Brice	John & Lindsay Garrett	Gay Seibert Abbey
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Marie Whitbeck	Dejoy, Knauf & Blood, LLP	William C. Sykes & Lisa A. Sykes	Family of Phyllis & Chase Taylor
Mrs. Michele Dryer	Rochester Real Estate Partners, LLC	Susan MacKenzie	Margy & Rick Richardson
Salvador & Jacqueline Leccese	Edwin & Sara Beale	Thomas Middleton	Monty and Jill Bauer
Nancy Lee	Joan Hallenbeck	Bill & Anne Buckingham	Orvis Rochester
Doris Frame Braine	Robert & Christine Latella	David & Jean Mitchell	
Mr. & Mrs. Bruce B. Bates	Katie & Bruce Ferguson	C. Hargrave	
Sherm & Anne Farnham	Andrew & Anne Marie Hagler	Junior Achievement of Rochester	
Joe Hammele	Ms. Whitney Brice	RDG Partners CPAs, PLLC.	
Janice Currie	Donna Lauretta & Jennifer Rader	Todd Bates	
Nancy Robbins	Suzanne Spencer	Mary S. Harris	

IN MEMORY OF ALBERT "BUBS" SEYMOUR

Joe & Nancy Briggs	Muriel Coleman
John & Lindsay Garrett	Ross & Janet Anderson
Bruce & Anne Kennedy	Mary S. Harris
Barbara Lazor	Russell & Jane Chapman
Mike May	David & Amy Bowen
Sarah and Bob Hurlbut	Dr. & Mrs. Charles Olin & Elizabeth Olin
Marie Whitbeck	Nancy Pike
David & Christina Pearson	James McGhee
Robert & Jane Moore	Gerald Clancy & Rosemary Hooson
David & Lorraine Curtis	Loma Clarke

IN MEMORY OF MATHEW MARTIN

From Carol Martin

CLWA OFFERS SCHOLARSHIPS TO THREE FLCC STUDENTS

Each spring, CLWA offers three scholarships for Finger Lakes Community College students to attend Conservation Field Camp. Field Camp is a requirement for students enrolled in the FLCC Natural Resources Conservation, Conservation Law, and Environmental Studies degree programs. During the week long course, students learn techniques used in watershed monitoring, wetland management, fisheries and wildlife management, and forest management. The course includes opportunities for students to participate in lake sampling on both Canandaigua and Honeoye Lake.

This year's FLCC scholarship recipients shared their appreciation with CLWA by sending letters and photos documenting their experiences. We hope you enjoy reading their letters as much as we did!

"FLCC thanks the Canandaigua Lake Watershed Association for their continued support of our programs," said Ryan Staychock, Technician with the Environmental Conservation and Horticulture Department. "FLCC continues to help students succeed academically and professionally and CLWA's support plays a huge role in that mission."

The scholarships are made possible through membership donations to CLWA, so thank you for your support!



Dear Board and Members,

I would like to thank you again for sponsoring my week-long Conservation Field Camp course through FLCC. I had a wonderful time at field camp am amazed at how much I learned in one week!

My small group did forestry the first day, which started with a tree identification lesson. We then learned the proper way to fell a tree through a demonstration, and we were able to mill that tree into lumber that we used to build an outhouse for Camp Cutler. I also had the opportunity to use a chainsaw for the first time in my life, which has been a goal for a while! Our second day was dedicated to wildlife. We collected data on small mammals trapped the previous night in the woods, checked camera traps, banded birds in nest boxes, and learned about the amphibians that live on the property. The highlight of the day for me was releasing a feather into the wind and watching a tree swallow snatch it out of the air—we followed the tree swallow to the nest box it flew into and were able to band it.

My third day of field camp was devoted to ecology, and we spent most of it hiking and observing our surroundings. We practiced identifying plants using a dichotomous key, surveyed macroinvertebrates in Whispering Creek to assess the water quality, and learned how wetlands are delineated. In the evening we went canoeing at Muller Field Station, at the inlet of Honeoye Lake, and observed the wildlife active around sunset. The following day was our aquatics day. My group traveled to the boat launch at the inlet of Canandaigua Lake and practiced various methods of monitoring the health of the lake: from canoes, we checked water temperature, dissolved oxygen concentration, and saturation using a probe; we collected phytoplankton and zooplankton using a special net; we collected mollusks from the benthic zone using a dredge; and we collected macrophytes using a rake tool. We then surveyed fish species using an electrofishing boat. I really appreciated being able to handle the fish up close, as opposed to simply looking at pictures in a book. We brought the other samples back to a laboratory set up at the camp to analyze our data and identify the various species we had collected using microscopes and books.

On Friday morning, we brought together everything we had learned over the course of the week to compete in the Field Camp Olympics! My event was the ecology quiz, and my team won first prize overall. Altogether, it was an amazing week full of new experiences, and I gained skills and knowledge that have increased my confidence in engaging in various kinds of field work. It was also a wonderful opportunity to bond with my classmates and professors. Many thanks to your association for making it possible for me to attend!

Sincerely,

Elizabeth Padgett

Dear, Canandaigua Lake Watershed Association

I wanted to personally thank you for awarding me the Field Camp Scholarship. I learned so much during that week. Skills that will stay with me for a lifetime.

Thank you,
Samantha Stryker



CANANDAIGUA THIRD GRADERS EXPLORE THE WATERSHED AT ONANDA PARK

On Friday June 7th, the entire third grade from Canandaigua Elementary School got to spend a special day at Onanda Park for their annual "Watershed Exploration Day" field trip. During their visit they moved through various stations in the park, each focusing on topics relating to the unique character of the Canandaigua Lake watershed's natural environment. Experts from area organizations taught students a range of subjects, including bird adaptations, herpetology, gully ecology, aquatic macroinvertebrates, invasive species and more. Kids had a chance to hunt for stream bugs and "turtle" rocks, make water filters from natural materials, hold salamanders and spot uncommon wildflowers. Yoga and swimming rounded out the day and gave students a chance to soak in the calming beauty of the lakeside environment.



The day is organized by the Canandaigua Lake Watershed Education Program (CLWEP), a joint project of the Canandaigua Lake Watershed Association and the Canandaigua Lake Watershed Council. The CLWEP serves K-12 students in the Canandaigua, Marcus Whitman and Naples school districts, all of which lie within Canandaigua Lake's watershed. Through classroom and field based lessons, the program aims to help youth understand the connections between land use and water quality and how they can become stewards of the lake, which is a drinking water source for over 70,000 citizens.

Grades three through six at Canandaigua Elementary School have been receiving classroom visits from the Canandaigua Lake Watershed Education Program for twelve years. Several years ago, the school was looking for a way to expand upon this learning in an

outdoor setting and asked the educators at CLWEP if they could organize an environmental science oriented field day. In June of 2013 the first "Watershed Exploration Day" was held at Onanda Park. Every year since then, the third graders have been going the park in early June for this fun day of active, hands-on learning.

"Watershed Exploration Day is a great example of collaborative community partnerships," says Beth Altemus, Canandaigua Lake Watershed Education Program educator. "We work closely with Heather Carson, a third grade teacher at Canandaigua, to make sure the day fits with the school's vision. To run the stations, we bring in experts from agencies, institutions and businesses throughout the watershed. Folks from Cornell Cooperative Extension, the Cumming Nature Center, Finger Lakes Community College, Ontario County Soil and Water District, Open Arms Yoga, The Walden Project, Master Gardeners and others have all helped us out through the years." Her co-educator, Becca Jensen, echoes that sentiment. "It's a wonderful event to wrap up our busy school year, and it's always heartening to see so many caring and dedicated people come together to make this day a success."



Photos courtesy of the Canandaigua School District

LAKE FRIENDLY LAWN CARE PRACTICES YOU CAN USE

By Lindsey Ayers, Watershed Intern

Have you ever thought about how else you could help keep your local waterways cleaner and healthier? There are some fairly simple and fun things that can be done which will benefit the overall health of the watershed. Some of these actions include the implementation and use of rain barrels, rain gardens, vegetative buffers and or green roofs. Some are a bit more involved than others but the beautiful part is any little thing that you put into action to help your local waterways does make a difference! All the smaller actions/projects people take results in big changes.

The projects above can specifically help reduce the amount of stormwater that enters local waterways and sewer systems by collecting, absorbing or stopping its movement. The more water that is captured before entering surface waters or sewers, the less opportunity there is for flooding, erosion, water pollution or degradation to groundwater to occur. For instance, if there is a large storm event and there is salt on the road or excess fertilizer placed on a lawn, they could potentially be carried into local waterways by stormwater flow.



Rain gardens are an attractive and effective way to capture and infiltrate nutrients

The simplest project that can be taken from the list above to help reduce storm water overflow is the use of rain barrels. They come in a variety of sizes, colors, shapes and price ranges. You can easily find a design that you like or paint a cheaper traditional model to your liking as well. Installing rain barrels is quite easy as well. In fact I ordered my first rain barrel this week (which I really wanted to do for a long time now) and between my husband and I it probably took about 30 minutes to install. I think it looks great and the best part is I can use the water in my gardens - it's a win-win!

Another fairly easy project to implement is a rain garden. These gardens are designed to be lower than ground level so that runoff can be absorbed into the ground. Another fabulous bonus of these gardens is they absorb up to 99% of water pollutants through natural processes! When designing the garden find a place that is far enough away from your basement so water does not infiltrate into it. Then determine how large you would like it to be and how much water you want to capture. Some gardens may just capture water from the roof while others could do this as well as capture water from a large portion of the lawn. Also when choosing plants go native! They require less maintenance since they are adapted to the area. Some plant choices could include bee balm, coneflower, elderberry, royal fern, and sedges. There are a lot of excellent resources and videos online that show how to put in a rain garden. The Save the Rain project out of Syracuse, NY offers a great how-to brochure and visuals of these gardens at <http://savetherain.us/green-programs/green-infrastructure/rain-gardens/>.

Another extremely beneficial practice for managing stormwater runoff is the use of vegetative buffers. These strips of land with plantings of trees, shrubs, and grasses can help protect the nearby waterways by stabilizing soils and acting as barriers to sediment and water runoff that could be carrying pollutants. A pollutant that is often found in sediment is phosphorus, which is a nutrient found in fertilizers. Excessive amounts of this nutrient found in waterways can cause excessive algae and other aquatic plant growth, which can then deplete oxygen levels in the water, eventually degrading its overall quality. There is a lot of information on this topic and other types of conservation buffers found on Soil and Water Conservation District websites, Cooperative Extension websites, and federal environmental agency sites such as the DEC or EPA.

Finally the last project mentioned above that can be implemented is green roofs. This type of project is a bit more involved but can be super effective in absorbing stormwater. Green roofs can completely cover or partially cover a building roof with plants and soil. A growing medium can also be planted over a waterproofing membrane. Not only are green roofs aesthetically appealing but they also release stormwater back into the atmosphere by the process of evaporation and plant transpiration. The plants also absorb pollutants found in the water preventing it from being released back into the atmosphere. This type of project is definitely much costlier and takes a lot more planning but has tremendous awards. Many cities have incentives for businesses to include these in their designs. Again check out some of Syracuse's Save the Rain projects at <http://savetherain.us/green-programs/green-infrastructure/green-roofs/>. Another city that has some great green roof examples is Chicago. These images are resources are definitely worth checking out. They are a beautiful addition to some of these concrete jungle landscapes we have!

There are workshops/classes held in the area on these and related topics on occasion so keep a look out for announcements on the CLWA facebook page and check out the Ontario County Soil and Water Conservation District website for all their educational offerings. This is definitely a worthy topic to learn more about. Have fun with it!



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SPECIAL REQUEST: 2019 Annual Appeal

As seen on page 3 of this newsletter, the Canandaigua Lake Watershed Association's Annual Appeal Campaign is now in full swing and we'd love your help.

We are asking for your support—above and beyond what your membership dollars already help us accomplish. Your donations to CLWA will help us move these projects forward NOW. Please help us better serve our watershed by making a donation to the CLWA Annual Appeal.

Please circle your donation amount and return with payment.

\$25 \$50 \$100 ____ other

Mail your payment to CLWA:
P.O. Box 323 Canandaigua, NY 14424

Or pay via PayPal at:
www.canandaigualakeassoc.org

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Lake area township: _____

100% OF YOUR GIFT WILL BE SPENT ON THE PROTECTION OF THE LAKE AND WATERSHED.