

The Lake Reporter



April 2014 | Volume 13 | Issue 2

Viewpoints Seminar Series:

Protecting the Lifeblood of our Region Presenting the 2014 Canandaigua Lake Watershed Management Plan

Thursday, June 12, 2014 from 5:30 pm -7:00 pm at the Wood Library Conference Room, Canandaigua, NY.

Join Watershed Manager, Kevin Olvany, to learn about the 2014 Canandaigua Lake Watershed Management Plan, which provides a detailed framework for watershed protection in the years ahead. This most recent update of the Canandaigua Lake Watershed Management Plan builds on the knowledge gained and projects completed over the last fourteen years to develop a more comprehensive strategy to protect Canandaigua Lake and its surrounding watershed from existing and emerging threats. State and local research have all documented that the watershed area surrounding the lake plays a critical role in the overall water quality of the lake. Therefore, protection at the watershed level is vital in protecting all that a healthy Canandaigua Lake ecosystem provides the region.

This watershed management plan was prepared for the New York State Department of State Division of Planning and Development with funds provided under Title 11 of the Environmental Protection Fund, Local Waterfront Revitalization program. Additional funds were provided by the Watershed Council, consisting of the fourteen watershed and water purveying municipalities.

For questions or to RSVP for the talk, please contact CLWA Administrative Coordinator Lindsay McMillian at 585.394.5030 or lindsaym@canandaigualakeassoc.org.

Viewpoints

Seminar Series

Presented by CLWA



Join us for an update of the 2014 Watershed Management Plan with Kevin Olvany

Thursday, June 12, 2014 from 5:30pm - 7pm

CLWA Announces 2nd Annual Appeal

Later this Spring, our membership will be receiving notice of the 2nd Annual Appeal from the Canandaigua Lake Watershed Association. 2013's Annual Appeal was an outstanding success and CLWA's Board hopes you will continue to be as generous in 2014. We appeal to our members for special assistance to accomplish projects that could not be tackled otherwise.

In 2014, the Annual Appeal will be used to accomplish some of these:

- Sucker Brook modeling and water quality improvements: use a computer model to determine the sources and remedies of pollution in the Sucker Brook watershed, demonstrably the most polluted tributary to Canandaigua Lake, and begin improvements (Goal of \$25,000)
- Establish a fund to assist willing property owners looking to donate land or an easement to the Finger Lakes Land Trust but lacking legal and/or survey assistance (Goal of \$5,000)
- Continue the Watercraft Steward monitoring program at the State's boat launches to keep invasive species out of Canandaigua Lake. Contribute toward construction of a boat washing station. (Goal of \$5,000)
- Assist the Town of Canandaigua and local property owners with the ecological restoration of Old Brookside Park, 56 acres and a stretch of Sucker Brook (Goal of \$5,000)
- Publish and make presentations relating to CLWA's Natural Capital project, detailing the ecological importance of open land, forests and wetlands in the watershed converted to monetary values (Goal of \$3,000)

Major expenditures such as these benefiting the lake and watershed community could not be carried out with simple membership dues, so we appeal to you especially to help us make them a reality. Look for more information soon.

From the Chair: Jack Dailey, President

It Takes a Community

We are fortunate to live in the Canandaigua Watershed and have the benefit of a number of public/quasi public agencies whose mission is to insure our environmental resources are responsibly used and protected. I thought it might be helpful to recognize the mission of a number of these entities that are close to home and their contributions to our watershed.

Let's start with the Canandaigua Lake Watershed Council. This organization is comprised of an elected official from each of the municipalities (of which there are 14) that draw drinking water from the lake. Its mission is to maintain and enhance the high quality of water we have in the lake. The group has set direction and priorities for the lake via its strategic plan that is currently being updated to reflect contemporary issues facing the watershed. Many of you may know Kevin Olvany who is the Watershed program manager and reports to this organization. Check out www.canandaigualake.org for more information.

A second group concerned with the Finger Lakes region and the Canandaigua Watershed is the Finger Lakes Land Trust (FLLT). Their mission is to conserve the Finger Lakes region's gorges, forests, lakeshores and farmland from unbridled development. This is accomplished by seeking conservation easements and development rights from landowners which restrict development on the property. FLLT on occasion will acquire property directly from the landowner, generally at less than market value and endeavor to maintain the property in its natural state. This past year FLLT was able to purchase a large tract of land adjacent to Bare Hill which will insure its natural state will be maintained. For more info about this organization visit www.fllt.org.

The Ontario County Soil and Water Conservation District (SWCD) is a public entity whose mission is the conservation of natural resources in our area. The agency operates in a number of areas. First, there is the Agricultural Environmental Management program which aims to assist farmers in operating profitably with environmentally responsible methods. A second function is providing inspection of waste water systems to insure contaminated wastewater does not flow to the lake. Formal approval of these systems is required by all municipalities in our area. Finally, SWCD provides erosion and sediment control services to contractors and developers as they undertake projects which will effect land use. The District can be found at www.ontswcd.com.

Let's also remember the importance of the Zoning Board of Appeals, Planning Board, and Conservation Board in each municipality. Members of these groups are appointed by your town's elected officials; their purpose is to insure building and land use regulations as outlined in the municipality's comprehensive plan are fairly administered and reflect the intent of that plan. Their decisions can dramatically affect the aesthetic character of the lake as well as the flow of run-off and debris into the lake. Each town/city maintains a website which provides contact info of each board member as well as upcoming agendas of its boards. Keep in touch by visiting your town's website.

It does take a community...we are fortunate to have progressive and competent leadership within these local organizations as we strive to protect and enhance the quality of water and our surroundings within the Canandaigua Lake Watershed.

Canandaigua Lake Watershed Association

Board of Directors

Jack Dailey	President
Wade Sarkis	Treasurer
Thomas Harradine	Secretary
Stephen Lewandowski	Consultant
Edith Davey	Technical Assistant
Lindsay McMillan	Administrative Coordinator

Watershed Education Program: Nadia Harvieux, Sharon Radak, Emily Staychuck and Beth Altemus

Board Members: Carol Benner, Robert Brancato, Katrina Busch, Ted Carman, Marty, DeVinney, Rob Gray, Nadia Harvieux, Al Kraus, Robert McCarthy, Don Sheive, Tom Zimmerman

Contact us at:

CLWA, Box 323
Canandaigua, NY 14424
(585) 394-5030

Email: info@canandaigualakeassoc.org

Website: ww.canandaigualakeassoc.org

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

Letter to the Editor

I have resided on Canandaigua Lake every summer of my life- on the east side until 1980 and then to the west side since then. I love Canandaigua Lake and I want it to remain pristine forever.

However, I am concerned by your lead article in the last edition of the Lake Reporter highlighting a forthcoming presentation by Anthony Ingraffea wherein he will discuss "Why shale gas production should not be permitted in New York State."

If the Lake Reporter fully intends to present the other side of that argument in a subsequent publication so the members get a balanced view, I will be happy. If not, you will be prejudicing the minds of your members when there is a very positive story to be told in support of fracking.

Without going into detail, I think most people would acknowledge that the supply of shale gas/oil through fracking has had a very significant and positive impact both economically and geopolitically throughout the world. The United States in particular is transitioning from a net consumer to a net supplier of gas and oil products. There is no doubt about the importance of fracking to our national security as we move forward toward energy independence.

So the real question confronting New York State and specifically residents in our area is, "Are there serious consequences (air and water pollution) to fracking that far exceed the net benefit to all citizens?"

From everything I have read, the answer is no! In an article in the Wall Street Journal of February 18, 2014 entitled "Obama's Shale Gas Trojan Hope", E. Donald Elliott, a professor of energy policy and environmental law at Yale University is quoted as follows:

"While some environmentalists and citizens' groups are concerned about fracking, more than a million wells are being "fracked" since the late 1940's. There are no confirmed cases of groundwater contamination from these wells, despite a few dozen unconfirmed anecdotes, some of which have been investigated and shown to be bogus."

So, in an effort to preclude using scare tactics to influence policy, I am strongly suggesting that you feature in a subsequent edition an expert to present the other side of the argument, an argument that I find more telling and one that considers the benefits to all citizens nationally.

James D. Ryan, Naples, NY

EDITOR'S NOTE:

In 2011, CLWA and FLCC co-sponsored a 4-day hydrofracking symposium with presenters from both sides of the hydrofracking issue. Representing the natural gas industry were John Holko from the Independent Oil and Gas Association of New York (www.iogany.com) and Dr. Scott Cline, PhD, from the organization Friends of Natural Gas in NY (www.friendsofnaturalgasny.com). More information is available at both organization's websites.

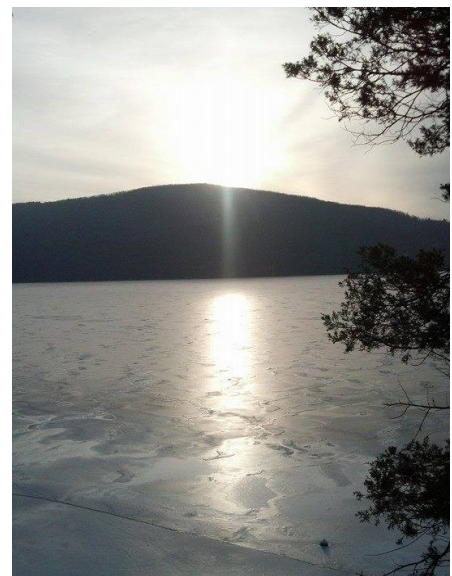
LATE MARCH LAKE LEVELS

by Steve Lewandowski

The surprisingly heavy snows of mid-March are mostly melted away except in hedgerows and the wooded areas of South Bristol, Naples and Italy. Lake levels have responded by moving upward more quickly than the Guide Curve, so the gates behind Wegmans have been opened recently to bring the level more in line with the curve.

The lake continues frozen today (March 25) so spring waterfowl such as Canada geese and snow geese have been perching on the ice. Some spots of open water are developing despite the

heavy ice cover. Temperatures rising into the 50s by April 1 should speed melting. Even runoff to the lake continues to be very cold. Trout shocking in Naples Creek several days ago only netted 8 trout. Fisheries biologists explain that trout do not begin spawning runs in the creek until they sense flows of water at about 40°.



Frozen Lake by Steve Lewandowski and Lindsay McMillan



The entire Northeast experienced record low temperatures this winter when the polar vortex pushed freezing temperatures much farther south than normal. Here in the Finger Lakes, we saw first-hand evidence of such drastic weather changes in the form of our frozen lakes. All but two of the Finger Lakes, Seneca and Cayuga, completely froze over this year, providing not only a beautiful winter scene, but a playground of sorts for winter sports enthusiasts.

Canandaigua Lake froze solid on the First of February when the last open spot off Vine Valley finally froze. At the close of March, the lake was still entirely frozen, and by early April was just beginning to open up at both ends. Ice fishermen have been out for months at the lake's ends, and began to fish the central lake in February. Through several inches of thick ice, perch can be found at most depths, and lake trout in deeper, cooler areas.

Ice has played an important role in the ecology and use of Canandaigua Lake. It aided in its formation during several glacial periods that lasted more than a million years before melting away 11,500 years ago.

Numerous glaciers enhanced the natural grooves of a river system that had previously drained to the south. During the last, Wisconsin glacial period, a long ridge of stone and soil was pushed into a "terminal moraine" that effectively blocked drainage to the south and reversed the Finger Lakes flows to the north.

The action of ice, along with erosion, has always been part of the process of forming Canandaigua Lake's shoreline. The force of ice expanding and contracting or pushed by wind can be tremendous. The boulders installed at Kershaw's shoreline and around Squaw Island protect them from the force of huge iceblocks propelled by a south wind.

Cottage owners may be surprised at the changes that ice will make on their built shoreline structures. In fact, the aftermath of 2014's cold snap may be felt long after the ice has melted.

Besides the physical damage that ice may make, the ecological effects that may result after an especially long, harsh winter are notable. The potential for a "fish kill" on Canandaigua Lake may be something that we may face come this spring. The thick ice and snow cover that lasted several months can deplete oxygen levels in the water, resulting in fish dying off or "suffocating" from a lack of dissolved oxygen. The effects of this may not be seen until a little later in the spring, after the ice has melted – as fish may wash up on the shores. As this typically happens in smaller, less oxygenated bodies of water, DEC Biologists are less concerned with ice cover effecting fish kills - but do indicate that rapid increases in water temperature during spawning season may potentially play a role.

Although many of our Finger Lakes freeze each year, Canandaigua has not had a winter freeze like this in almost a decade. Historical records of our lake freezing are spotty to say the least; many can anecdotally remember years it has frozen, but official documentation does not exist. Professor Nelson Hairston of Cornell University has compiled records for Cayuga Lake, a much larger lake, but counsels that "if Cayuga was frozen probably Canandaigua was too." His records indicate that Cayuga has historically frozen solid every 14.1 years. Using factors of lake surface area and volume, Canandaigua Lake's freezing frequency can be computed as every 9.9 years.

Official records aside, 2014 has certainly been a noteworthy winter for our lake.

Did You Know?

Ice functioned as an early transportation route: pioneer families arriving from New England in January 1790 to colonize their purchase of what became the Village and Town of Naples walked down the lake's ice and three miles through the marsh at the south end before settling in a partially abandoned Seneca village site.

First settlers in what became the Town and City of Canandaigua, once they had established saw and grain mills, cut blocks of ice from the lake and stored them in crude structures, packed in sawdust, near the current McGregor's. Lake ice cooled meat and milk in July and August.

Help Wanted for Watercraft Stewards Program

The Canandaigua Lake Watershed Association ran the Watercraft Stewards program last year with the assistance of the Finger Lakes Institute in Geneva. This year, CLWA will be running it ourselves. The program puts monitors at the State boat launches at Woodville and Canandaigua during times when boats are being launched or taken out of Canandaigua Lake.

Monitors give out literature about invasive species and ask boat owners if they can look over their boats for "hitchhiking" invasive species. Monitors fill out a few observations about each boat on a form. For example, they ask what body of water the boat was most recently in. They record if plant or animal hitchhikers are found on the boat or trailer. If the boaters are going fishing, the monitor might remind them not to empty their bait bucket in the lake at the end of the day. Monitors have a waste can where specimens of hitchhikers can be kept pending identification and disposal.

The data on boats and boating collected by the Stewards will be important to forming future policies for the launches, construction of boat-washing facilities, and general recreation. CLWA will supply caps and shirts, lawn chairs and supplies, and will train. Though we cannot pay a wage, CLWA will consider an honorarium at the end of the season to recompense volunteers for costs of travel, time, etc.

Volunteer Stewards must be able to meet and greet the general public in a hospitable and professional manner and make a good first impression as a representative of CLWA. Contact Lindsay McMillan at (585) 394-5030 or lindsaym@canandaiguakeassoc.org. for more info.



Stewards monitor boats at launches for invasive "hitchhikers"

Join CLWA for our first ever Volunteer Fair.

Have you ever wondered how you could help protect our area's greatest resource? Then consider joining Canandaigua Lake Watershed Association on Saturday, May 31st from 10 am to 2 pm at Onanda Park Rotary Pavilion for our first annual "Volunteer Fair."

Meet CLWA Board members – learn about current association activities and discover ways to share your time and talent to help protect the water quality and overall environment of Canandaigua Lake. Join us to get a more in-depth look at the ways you can help your watershed. In 2014, we will be looking for folks to assist with these programs and more. Watershed Consultant Steve Lewandowski will also be present to give an update on the current health and status of our lake. For more information, visit call (585) 394-5030.

Secchi Disk Readings | Watercraft Steward Program | Stream Cleanups | Distribution of Educational materials at Farmers Markets | Distribution of Special Events materials in the community and in your neighborhoods | Committee Members

Volunteers Needed: Take a Dip

For the past four years, volunteers from CLWA have taken Secchi Disk readings to help Dr. Bruce Gilman from FLCC track both seasonal and long-term trends in water clarity of Canandaigua Lake. The more readings we can have from different locations in the lake, the more accurate our data will be. The volunteers are trained in the use of the Secchi Disk and then they take readings of the water clarity using their own boats and report them during the months of June, July and August. Once a week readings are ideal, but whatever you can do is appreciated.

If you would like to volunteer to "Take a Dip" this year, CLWA will be hosting a training session on Thursday, June 5th at 4:30 pm with Dr. Bruce Gilman.

Please call us at 585-394-5030 before May 15 for more info, including location of training session.



— Take a Dip —
Training Session

6/4 Thursday
6/4 4:30PM

2014 CLWA Membership

We are proud to publish this list of our amazing supporters. Thank you for your support.

5,000 +

Anonymous Canandaigua NY

\$4,999 - \$1,000

Ms. Janet Hirschland Victor NY
Daniel & Kirsten Mahar Rochester NY
Peter & Lisa Sykes Canandaigua NY

\$999 - \$500

Frank & Cricket Luellen Pittsford NY
John W. & Josephine Ingle, Jr. Naples NY
Meg LaDouce Ewing Bloomfield NY

\$499 - \$250

Sanford Abbey Rochester NY
David & Amy Bowen Rochester NY
Mr. & Mrs. Joseph C. Briggs Vero Beach FL
Jane Bronson New Canaan CT
Scott Conking Philadelphia PA
Charles & Carol Corby Pittsford NY
Sandra & Patrick Deagman Saratoga CA
Mrs. Michele Dryer Rochester NY
William D. Eggers Naples NY
George M. Ewing, Jr. Minneapolis MN
James & Ellen Fralick Canandaigua NY
Peggy & Bud Frame Rochester NY
Marty & Cathy Gardner Honeoye Falls NY
Mr. & Mrs. George W. Hamlin Iv Canandaigua NY
Richard H & Linda Hawks, Jr. Naples NY
Brenda C. Keith Naples NY
Bruce & Jennifer Klein Canandaigua NY
Leanna Landsmann & Chip Block Jupiter FL
Steven D. & Kathy A. Lasser Canandaigua NY
Patrick & Ann McCormick Rochester NY
Kathanne & Bill Mitchell Canandaigua NY
Jane Ellen Parker & Fran Cosentino Rochester NY
Kevin & Jean Parker Rochester NY
Dr. Robert Pierce Rochester NY
Richard & Janet Richmond Canandaigua NY
Wade & Joscelyne Sarkis Canandaigua NY
Amanda & Gregory Slisz Syracuse NY
Stephen Smeulders Canandaigua NY
Graham Smith Canandaigua NY
William J. Standish Los Angeles CA
Al Sutter & Paul Creek Canandaigua NY
Emma Taylor Canandaigua NY
Thomas & Carol Zimmerman Canandaigua NY

\$249 - \$100

Margaret Aldridge Canandaigua NY
Britta Anderson & Steven Biklein Canandaigua NY
Dr. & Mrs. E. David Appelbaum Canandaigua NY
Neil & Maggie Atkins Canandaigua NY
Rusty Barone Canandaigua NY
Mr. Avery S. Beer Bloomfield NY
Mary Lee Beer Rochester NY
Donald & Barbara Bergmann Canandaigua NY
Lynn Bernard Canandaigua NY
Laurie Bittner Canandaigua NY
Mark & Joyce Bradley Canandaigua NY
David & Maria Breit Rochester NY
Bill & Annette Buckingham Rochester NY
Joan Busch Canandaigua NY
Katrina Busch Webster NY
Steve & Sue Butler Canandaigua NY
Ray Capuano Canandaigua NY
John & Betsy Carver Pittsford NY

Mark & Dawn Case Canandaigua NY
Lawrence & Yvonne Chavez Canandaigua NY
Tom & Barbara Clark Rochester NY
Marilyn D. Clary Canandaigua NY
Dorothy Condon Rushville NY
Charlie Constantino Pittsford NY
Sally & George Conyne & Anne Starr & Barbara Williams Stockton NJ
Todd & Laura Cook Honeoye Falls NY
David & Olivia Cornell Rochester NY
Bert & Dee Crofton Naples NY
Bruce & Mary Cunningham Kingsport TN
Carl Cunningham Raleigh NC
Douglas Cunningham Pittsford NY
Patricia Curchin Canandaigua NY
Jack & Joan Dailey Canandaigua NY
Paul & Annette DeCarolis Rochester NY
Marty Devinney Rushville NY
Michael & Joyce DeVito Urbandale IA
Mr. Martin Dodge Canandaigua NY
Brad & Michelle Donner Rushville NY
Wendy S. Dunster Canandaigua NY
Jerome J. & Mary Ann Dvonch Canandaigua NY
Eric Eckberg Rochester MN
Phil Edgerton Santa Fe NM
Robert A. & Melanie A. Eisenberg Canandaigua NY
John & Kristin Enright Baldwinsville NY
Sareena Fazili & Jamil M. Roueh Pittsford NY
Richard & Laurie Fellows Rochester NY
Lona Ann Feltham Canandaigua NY
Ilene & David Flaum & Family Rochester NY
Frederick & Barbara Fouquet The Villages FL
Scott & Katherine Frame Pittsford NY
John C. & Elaine K. Frank Canandaigua NY
Roger & Carolyn Friedlander Rochester NY
Anne C. Frost Canandaigua NY
Lynn & Oksana Fuller Canandaigua NY
D. Mark Fultz & Judith Fultz Pittsford NY
Darrell & Mary Anna Geib Pittsford NY
Mary Joan Geise Canandaigua NY
Lewis & Miriam Gould Canandaigua NY
Robert Gray Canandaigua NY
Ashvani & Kanika Gulati Canandaigua NY
Dr. & Mrs. Robert J. Haggerty Canandaigua NY
Thomas D. Hahn Penfield NY
William Hamilton & Son, Inc. Caledonia NY
Stephen & Barbara Hamlin Canandaigua NY
The Hargrave Family Charlottesville VA
Tom & Barb Harradine Canandaigua NY
Richard & Molly Harris, Jr. Pittsford NY
Mary-Martha W. Harvey Canandaigua NY
Dr. Paul E. Harvey Canandaigua NY
John B. Henderson Rochester NY
Joel Hochman Canandaigua NY
Rich & Zina Hocker Canandaigua NY
John J. & Kathy Hoff Canandaigua NY
Richard & Donna Hooker Rochester NY
Jean Horton Canandaigua NY
Susan Hostler Brandfordwoods PA
Carolyn D. Jacobs Canandaigua NY
James C. Johnson Canandaigua NY
Laurel Jones Akron NY
Erik & Karen Kamfjord Cincinnati OH
Rick & Jodi Kaufman Canandaigua NY
Bruce M. & Anne Kennedy Naples NY
Susanne Kennedy Naples NY
Dorothy Kennedy Canandaigua NY

2014 CLWA Membership, Continued

\$249-\$100 Continued

Dr. Ronald & Trudie Kirshner	Rochester NY	Mary Jane Stell	Canandaigua NY
David M. Kleinman	Rochester NY	John Stevens	Canandaigua NY
Martin Kleinman	Rochester NY	Andrew W. & Patricia K. Strait	Chicago IL
Mr. & Mrs. Roger W Kober	New Smyrna Beach FL	Robert J. & Elizabeth Symon	Dallas TX
The Krautwurst Family	Webster NY	Pierre N. Tariot & L. Jakimovich	Paradise Valley AZ
Mr. & Mrs. Philip C. Kron	Chatham NJ	Stanley & Nancy Taylor	Canandaigua NY
Marty & Wendy Lasher	Canandaigua NY	Howard & Jean Tennent	Kennett Square PA
Mr. & Mrs. Charles P. Lashomb	Fairport NY	Lynn Thurston	Canandaigua NY
Steven D. & Kathy A. Lasser	Canandaigua NY	Lynn Thurston & Bruce Capron	Naples NY
John & Sonya Lightbody	Gaithersburg MD	Arthur R. Tuppen	Canandaigua NY
J. Lloyd Lill	Canandaigua NY	Edmund & Gloria Viele	Pittsford NY
James & Susan Locke, Iii	Rochester NY	Andrea Vittum	Pittsford NY
Alexandra Logan	Canandaigua NY	Erik Von & Judy Von Bucher	Rochester NY
Frank & Pat Long	Naples NY	Harry & Cathy Voss	Key Largo FL
Kathleen Lowe & C. D. Snyder, Jr	Canandaigua NY	Robert & Nancy Walsh	Canandaigua NY
Frank & Elizabeth Lowther	Canandaigua NY	Mike & Jenn Waters	Webster NY
Timothy & Julie Macko	Canandaigua NY	Kathryn Wegman	Canandaigua NY
Elaine & Chuck Maginness	Rochester NY	Jack & Jane Wheeler	Canandaigua NY
Thomas & Lori McAlees	Victor NY	Albert & Margaret White	Sanibel FL
Robert McCarthy, Sr. & Marie Watkins	Canandaigua NY	Lee & Cynthia Williams	Venice FL
Richard & Sandra McGavern	Canandaigua NY	Charles Wochele	Canandaigua NY
William & Denise McKenzie	Canandaigua NY	William J. Iii & Wende Young	Canandaigua NY
Patricia & William Mehls	Canandaigua NY	Bill & Valerie Yust	Scottsville NY
Nick & Marty Mendola	Middlesex NY		
Chris & Linda Metzger	Pittsford NY	Less than \$100	
Wesley Moffett	Pittsford NY	James Adams	Canandaigua NY
Maureen & William Mulley	Canandaigua NY	Shirley E. Adams	Rushville NY
Craig & Mary Munger	Canandaigua NY	Dr. Richard J. Agnello	Newark DE
Bob & Barbara Murphy	Rochester NY	Frederic Allen	N. Venice FL
Richard & Ruth Myers	Canandaigua NY	Ross F. & Janet Anderson	Fairport NY
Kenneth J Naples	Naples NY	Martha F. Andres	Canandaigua NY
Steve & Lynn Natapow	Canandaigua NY	Jean Angell	Rushville NY
Ben Noble	Rochester NY	Dick & Marylou Appel	Canandaigua NY
Eugene Northrop	Canandaigua NY	William N. Arduser	Canandaigua NY
Dan & Jo-Ann O'Brien	Pittsford NY	Lee & Rosemary Austin	Addison NY
Thomas E. & Ginny O'Connor	Middlesex NY	James B. & Natalie Baker	Canandaigua NY
John Oldweiler	Pittsford NY	Daniel & Mary Bartels	Snyder NY
Bob & Becky Olsen	Rushville NY	Richard & Janet Bartlett	Ionia NY
M. Donald O'Neill	Canandaigua NY	Thomas & Julie Bartlett	Pittsford NY
Michael K. Oros, DDS	Canandaigua NY	Dean & Mary Bates	Canandaigua NY
Bernard J. Oseroff, Md	Rochester NY	Robert G. Beck	Clarence NY
Joseph & Nancy Pagano	Canandaigua NY	Mr. James W. Bell	Canandaigua NY
Jeff & Kathryn Page	Middlesex NY	Donald & Carol Benner	Canandaigua NY
Ronald & Joan Papa	Canandaigua NY	Matthew & Karen Bertino	Buckingham UK
Ms. Rose M. Pearsall	Pittsford NY	Hilton Bicknell	Naples NY
Trip Person	Canandaigua NY	Lee & Dianne Boorman	Rochester NY
Ellen Polimeni	Naples NY	Dave & Robin Borkholder	Canandaigua NY
Victoria & Gary Profetta	Canandaigua NY	Alfred & Mildred Boylan	Pittsford NY
Thomas & Dawn Rauscher	Rochester NY	Brendan & Mary Brady	Canandaigua NY
Margaret & Willard Rhoads	Canandaigua NY	Mr. & Mrs. Robert Brancato	Rushville NY
Richard & Janet Richmond	Canandaigua NY	Alan & Kristie Braun	Canandaigua NY
Patricia C. Reece	Santa Fe NM	Mr. & Mrs. Thomas R. Brayer	Ontario NY
Steven C. & Betsy Robeson, M.D.	Clifton Springs NY	David Breyo & Ilona Espanol	Canandaigua NY
Larry & Ginny Rockwell	Canandaigua NY	Daniel Brigham	Canandaigua NY
Greg & Betsy Russell	Dunmore PA	Paul & Maggie Bringewatt	Canandaigua NY
Patrick & Rosemary Sandone	Canandaigua NY	Keith & Geri Brown	Shortsville NY
Mickey Sands	Naples NY	Peter K. Browning	Indianapolis IN
Monica Schenk	Canandaigua NY	Lucille F. Burrill	Canandaigua NY
David C. Schwaner	Rochester NY	Virginia Butler	Canandaigua NY
Mr. Albert Z. Seymour	Middlesex NY	Charles A. & Carol Callari, Jr	Farmington NY
Don Sheive	Canandaigua NY	Bill Calpus	Chaska MN
Rod & Anne Smith	Canandaigua NY	Chester & Bernice Caprini	Canandaigua NY
Graham & Debra Smith	Canandaigua NY	Susan & Ted Carman	Rushville NY
Jeffrey O. & Linda Smith	Honeoye Falls NY	Bill & Pam Caroscio	Elmira NY
Mrs. Jill F. Snyder	Canandaigua NY	Patty Carpenter	Guilford VT
William & Anne Starr	Harrisburg PA	Christine Carpentier	Pittsford NY
Raymond Stefanich	Victor NY	Mr. Jan Chadwick	Columbus OH
		Renier & Ann Chaintreuil	Boca Raton FL

2014 CLWA Membership, Continued

Less than \$100 Continued

Linda Cimino	Canandaigua NY	The Harvieux Family	Canandaigua NY
Natalie & Willard Clark	Rushville NY	Raymond Hasenauer	Canandaigua NY
Alison Clarke	Rochester NY	Noreen Hegeborns	Webster NY
Joel Cohen	Rochester NY	Gail Dorr & Rick Herman	Canandaigua NY
Kenna Colacino	Newark NY	Eugene & Janet Hermetet	Canandaigua NY
Tom & Andrea Colgan	Lyme NH	Brian & Jean Hickey	Pittsford NY
Donald & Linda Collins	Canandaigua NY	Scott Hill	Canandaigua NY
John Coniglio	Pittsford NY	Linda Hobart	Canandaigua NY
Jacqueline M. Cowell	Palm Beach FL	Mr. & Mrs. James D. Holland	Canandaigua NY
Robert C. Crane	Canandaigua NY	Harry & Anne Holmes	Longmont CO
Bert & Dee Crofton	Naples NY	Frederick T. Howk	Pittsford NY
Mr. & Mrs. Keith J. Cutri	Canandaigua NY	John & Karen Hultz	Pittsford NY
Edith Davey	Canandaigua NY	Barbara & Wallace Iglewski	Canandaigua NY
Anthony & Gail De Muzio	Canandaigua NY	Dr. & Mrs. Anthony Imperato	Canandaigua NY
R. Alan Deans	Toronto, Ontario CN	Deborah Insalaco	Buffalo NY
Kenneth & Joanna Dearborn	Medina OH	The Insalaco Family	Buffalo NY
E. Thomas & Dory Deisenroth	Pittsford NY	Carolyn D. Jacobs	Canandaigua NY
Mr. & Mrs. Robert Delmonte	Canandaigua NY	Joyce Jaquith	Canandaigua NY
Richard & Marjorie DeMallie	Middlesex NY	Barbara J. Johnson	Canandaigua NY
Ruth DeMallie	Canandaigua NY	William C. Johnston, Jr.	Atlantic Beach NC
Valera D'Esopo	Pittsford NY	Peggy & Peter Kane	Canandaigua NY
Jane S. Diehl	Rochester NY	Jeannette E. Kanter	Canandaigua NY
JoAnn Dittmar	Spray Beach NJ	Gerald Keating	Rochester NY
Tom Donaher	Hilton Head SC	Jack Kellogg	Canandaigua NY
Dana Clark Drake & Wanda Carey	Pittsford NY	Richard & Barbara Kent	Canandaigua NY
Paul V. & Sharon Dwyer	Ft. Myers FL	Maureen & Gary Killeen	Pittsford NY
Helen Ellis	New York NY	Fred & Carolyn Kless	Canandaigua NY
Mitchel L. & Robin M. Evans	Canandaigua NY	Kurt & Valerie Knoblauch	Canandaigua NY
Leo & Audrey Fabris	Canandaigua NY	Richard J. Kotalik	Rushville NY
Bob & Cynthia Fackler	Canandaigua NY	Kay Kraatz	Skaneateles NY
Christine Farren	Canandaigua NY	Al & Jean Kraus	Canandaigua NY
John & Anne Fayko	Canandaigua NY	Clark & Joan Kurtz	Canandaigua NY
Nancy Fefick	Naples NY	Milan & Barbara Kutner	Canandaigua NY
Robert & Mary Fenton	Rushville NY	James Lamar	Pittsford NY
Cathy Finley	Canandaigua NY	John & Barbara Lazor	Rochester NY
Jean Fisher	West Islip NY	Tom Ledgerwood	Canandaigua NY
John & Marion Fladd	Canandaigua NY	Lenore & Marshall Lesser	Pittsford NY
Gail Flugel	Canandaigua NY	Dale & Bonnie Lewis	Canandaigua NY
Scott A. Forsyth	Rochester NY	Ramon & Alice Lucey	Fairport NY
Steven & Gloria Foster	Canandaigua NY	Christopher Luley	Naples NY
Priscilla Fox	Rushville NY	Margaret H. Luley	Canandaigua NY
Charlotte Fox	Canandaigua NY	Sasha Mackenzie	Naples NY
Jane & Duncan Frame	Pittsford NY	Rev. & Mrs. Fred Magley	Canandaigua NY
Jean R. France	Pittsford NY	Mary Maida	Canandaigua NY
John Frank	Stanley NY	David & Linda Marsh	Canandaigua NY
Elizabeth Freese	Canandaigua NY	Joyce Marthaller	Canandaigua NY
Hugh & Martha French	Canandaigua NY	Justin & Anne Martin	Canandaigua NY
Beverly French	Pittsford NY	William & Charlene Marx	Jamesville NY
Chris & Fredyne Frey	Scottsville NY	Mrs. Clifton Mason	Canandaigua NY
Barry Fry	Middlesex NY	Mike May	Naples NY
Daniel Fuller & Jo Ann Fuller	Canandaigua NY	Mary Catherine McCarthy	Canandaigua NY
John & Lindsay Garrett	Rochester NY	Lynne McCoy	Canandaigua NY
Ronald & Joan Geck	Fairport NY	Denison F. McRell	Webster NY
Joseph T. & Gail Gilbert	Canandaigua NY	Sarah Mercier Hurlbut	Rochester NY
Doris & Thomas Giuliano	Honeoye Falls NY	Thomas W. & Barbara J. Meyer	Canandaigua NY
Michael & Janet Goldman	Pittsford NY	Ellen & Roland Milko	Rushville NY
Earl F. & Juanita C. Gorton	Rushville NY	Harry C. Miller, Md & Kari Miller	Keswick VA
Sandy & Stephanie Gradinger	Canandaigua NY	Bruce Mink	Los Angeles CA
Roy & Kandace Gray	Rushville NY	John C. & Helen A. Motz	Stanley NY
Chris & Katy Guider	Rochester NY	John Mulligan	Webster NY
Michael & Sally Gulvin	Fairport NY	Judith J. & James Nadal	Canandaigua NY
Marc & Betsey Haas	Pittsford NY	Hugh Neeson & Andrea Messina	Orono MN
Mike & Toni Hagerman	Canandaigua NY	Dennis & Barbara Nichols	Canandaigua NY
Jerry & Phyllis Hahn	Rochester NY	John & Holly Noble	Canandaigua NY
Ken Hale	Dansville NY	Tim & Marilyn Noffsinger	Lake Wales FL
Thomas Hamlin	Naples NY	Ed & Frieda O'Hanlon	Canandaigua NY
Mr. & Mrs. Thomas J. Hargrave	Pittsford NY	Ling S & Keng Ong	Canandaigua NY

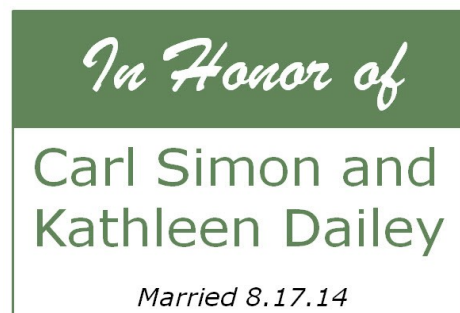
2014 CLWA Membership, Continued

Less than \$100 Continued

Tom & Maureen O'Rourke	Rochester NY
Mr. & Mrs. Harold Oskamp	Canandaigua NY
Andrew & Sharon Paterson	Hartfield VA
Bruce D Patt	East Rochester NY
Mr. Lynn C. Paulson	Canandaigua NY
Stanley L Peck & Deborah A Peck	Fairport NY
Mr. Rocco Pietropaolo & Josephine Spencer	Canandaigua NY
Christopher & Susan Plopper	Naples NY
Denise & David Pontillo	Fairport NY
John & Pat Porter	Geneva NY
Okke & Kathy Postma	Hastings-On Hudson NY
Andy Prestigiacomio	Rochester NY
Scott Price & Pat Genovese	Canandaigua NY
Louise T. Radak	Canandaigua NY
Gertrude R. Raines	Naples NY
Dr. John E Randall	Canandaigua NY
Sue A. Raymond	Henrietta NY
Beverly A. Reed & John Bacher	Penfield NY
John Reed	St. Paul MN
Carl Reed	Canandaigua NY
Robert & Catherine Rees	Almond NY
Michael & Laura Regelski	Spencerport NY
Florence Richardson	Canandaigua NY
Greg & Maryann Riley	Canandaigua NY
Marcia Robeson & Eric Rounds	Rochester NY
Nancy Robinson	Middlesex NY
Susan Rockwell & Kenneth Keenan	Canandaigua NY
Kent & Margaret Rohrer	Canandaigua NY
Kathy Rohrer Bulkeley	Fairport NY
Maureen Dunphy Russell	Canandaigua NY
Rich Russell	Canandaigua NY
Charles & Jennie Ryan	Rochester NY
Edwin & Jackie Saeger	Punta Gorda FL
Alfred W. Saucke	Canandaigua NY
Richard E. Sayers & Janice Masterson	Canandaigua NY
Steven & Mary Sayre	Marco Island FL
Joseph & Sylvia Schepisi	Canandaigua NY
Steve & Carol Schreiner	Rushville NY
Thomas & Martha Schwartz	Canandaigua NY
Karl & Deborah Schwarz	Canandaigua NY
David J. Scott	Canandaigua NY
Ann & Joel Shamaskin	Rochester NY
Patrick & Kathleen Shaw	Webster NY
Carl Simon & Kathleen Dailey	Baltimore MD
Elaine & Leonard S. Simon	Pittsford NY
Robert Sinnott	Canandaigua NY
Robert A. Smallman, Md	Canandaigua NY
Judith Smith	Canandaigua NY
Terry Smith	Canandaigua NY
Gilbert & Richeen Smith	Canandaigua NY
David G. Smith	Canandaigua NY
Beverly & Lawrence Snively	Winston-Salem NC
James & Christine Spengler	Orchard Park NY
Scott Stafford	Fairport NY
Peter & Betty Stahlbrodt	Canandaigua NY
Elizabeth Stewart	Canandaigua NY
Nancy Swett	Pittsford NY
Robert J. & Elizabeth Symon	Dallas TX
Greg Talomie & Kathy Bromley	Canandaigua NY
Phyllis Taylor	Pittsford NY
Howard & Jean Tennent	Kennett Square PA
Earl & Olivia Thomas	Rushville NY
Mimi & Sam Tilton	Rochester NY
Karen & Al Tricomi	Canandaigua NY
Robert & Sandra Tuite	St. Petersburg FL

Jeanne Tuttle	NY
Laurie & Jeff Twombly	Canandaigua NY
Marcus Vail	Canandaigua NY
Russell H Valley	Canandaigua NY
Patricia Walker	Canandaigua NY
Allan Walker	Canandaigua NY
Thomas A. & Mary F. Walter	Canandaigua NY
Blanche Warner	Naples NY
Seymour & Myrna Weinstein	Rochester NY
Byron & Phyllis Werges	Canandaigua NY
Stephanie & David J. Whitaker	Rochester NY
Ernest C. & Marie Whitbeck Iii	Rochester NY
Carl & Susan Widmer	Naples NY
Merit & Jean Wilkinson	Victor NY
Tim & Betsy Williams	Rochester NY
Donna Williams-Gianneschi	Pickerington OH
Lee & Leonore Wiltse	Pittsford NY
Kourt & Sandy Withey	Middlesex NY
Robert & Joan Witzel	Canandaigua NY
Thomas & Barbara Wood	Canandaigua NY
Gary & Joan Wyffels	Canandaigua NY
Robert Younger	Canandaigua NY
Andrew & Karen Yudichak	Canandaigua NY
Douglas & Bridget Zimmerman	Lancaster NY
Ted & Marsha Zornow	Lima NY
Steve & Sue Zumbo	Canandaigua NY

Please note: Every attempt has been made to ensure the accuracy of the membership and donor lists, but errors and omissions may occur. Should your name be misspelled, listed incorrectly or accidentally omitted, please accept our apology and notify us so we may correct our records: 585.394.5030 or info@canandaigualakeassoc.org.



Thanks to our Business Members

Aberle Eye Care
Alan Lupton Associates, Inc.
Barone, Siciliano & Co. PC
Canandaigua Boathouse Owners Association
Canandaigua Yacht Club
Davidson Shoes, Inc.
Edelweiss Properties Realtors, LLC
Finger Lakes Premier Properties
Four Seasons Lakefront, LLC
German Brothers Marina, Inc.
Henderson Associates
Indian Village RV Park, Inc.
Johnson-Kennedy Funeral Home, Inc.
Midland Appraisal Assoc.
Mitchell Pierson, Jr., Inc. Realtors
Monica's Pies
Rosepark Homeowners Association
Sun Aqua Condominium Assoc.
Sutter's Canandaigua Marina Inc
Watersound Management
White Haven Memorial Parks, Inc.
William Hamilton & Son, Inc.

Thanks to our Large Donors

Kevin & Jean Parker - Opus Vitae Fund
Ms. Janet Hirshland
Daniel & Kristen Mahar
Peter & Lisa Sykes Family Fund
G.W. Lisk Co., Inc.
Frank & Cricket Luellen
Marty & Cathy Gardner
John W. & Josephine Ingle, Jr.
Leanna Landsman & Chip Block
Scott & Andrea Stewart
David & Amy Bowen
William Standish
James & Ellen Fralick
Brenda C. Keith
Steven D. & Kathy Lasser
Mary Ellen Parker & Fran Cosentino
Richard & Janet Richmond
Wade & Joscelyne Sarkis
Sutter's Canandaigua Marina
Kevin Bain & Magie O'Jea
Mr. & Mrs. Joseph Briggs
Richard & Molly Harris
Kathryn Wegman



From the Watershed Education Program

CLWA Welcomes New Watershed Educator Beth Altemus

Beth Altemus grew up in Bloomfield and studied at Wellesley and Smith Colleges in Massachusetts. After graduating from Smith in 2002 with a degree in Geology, she spent five months hiking the Appalachian Trail. She then landed at The Mountain Institute in West Virginia, where she worked as an environmental educator. As their Education and Outreach Coordinator she managed "Potomac Stream Samplers," a watershed education program involving public school students from across the eastern panhandle of WV. She also worked as a substitute teacher in local public schools.

Beth returned to the Finger Lakes region in 2009 and now lives with her husband and two children in Middlesex. When she's not teaching with the CLWA, she is an avid gardener and loves to play outside on skis, a bike, canoe or her own two feet!



Watershed Education in Review

Beth and Sharon have been touring the Canandaigua Lake Watershed making stops to work with students in the Marcus Whitman, Naples and Canandaigua school districts. Third through sixth graders have enjoyed engaging and hands-on activities that teach them about watersheds, land use and what can be done to preserve the health of their own watershed. As the school year moves forward they will continue to have a busy spring as they spend more time with students in the classroom and out in the field. In addition, Beth and Sharon are working hard on planning the CLWA Watershed Exploration Days. At this event they will host Canandaigua third graders at Ononda Park for a day of activities focused on water and the environment. All of the activities will be lead by local experts in their field who are anxious to share their knowledge and expertise. It will be held in June and a fun day is in store for all!

Upcoming Spring Events

Public Meeting—Canandaigua Lake Water Trail

Wednesday, April 30, 2014 at 6pm at the Hurley Building, 205 Saltonstall Street, Canandaigua, NY

The Canandaigua Lake Watershed Council is partnering with the Finger Lake Visitor's Connection, National and State Parks, local canoeing/kayaking enthusiasts, municipal officials, county public works, businesses and the Finger Lakes Land Trust to design a Water Trail Plan for the 36 miles of shoreline of Canandaigua Lake and the navigable portions of the inlet and outlet areas. The project will include building two canoe/kayak access/destination points on public land that will provide critical linkages along the Water Trail. The goal of the project is to improve access and safety for canoes and kayaks on Canandaigua Lake and promote the historical, cultural, and ecological significance of the lake. Grant funding for the Water Trail Project is provided through NYS Department of State, Title 10 of the Environmental Protection Fund.

Workshop—Managing Storm Water with Beautiful and Beneficial Rain Gardens

Tuesday, May 20, 2014 from 6-7:30 pm at the Outhouse Hall, Richard P. Outhouse

Ever thought about installing a rain garden on your property to manage storm water runoff? Join Edith Davey, Conservation Educator for the Ontario County Soil Water Conservation District, to learn about this effective method for naturally intercepting and filtering runoff, site preparations requirements and the optimal plants for the job!

Edith will provide a tour of the newly installed rain gardens at Outhouse Hall, located at the north end of the Richard P. Outhouse Memorial Park located in the Town of Canandaigua, and will share her expertise in rain garden design.

Please join us for this hands-on learning opportunity!



Photo Contest



Show us how you
love
the Canandaigua
Lake Watershed

Capture the beauty of the woods, hills, streams, valleys and lake that defines our amazing watershed.

The contest, sponsored by the Canandaigua Lake Watershed Association, is open to amateur photographers with prizes awarded in two divisions:

- Adult division
- Youth division for under 18

Entries will be judged by a panel of professional photographers and friends of CLWA based on degree of creativity and overall aesthetics. Winners will be announced at our Annual Meeting 8/16/14.



2013 Winner

Entry is Easy. Enter by July 14.

1. Snap your photos around the watershed
2. Log in to Facebook
3. Find and Like Canandaigua Lake Watershed Association
4. Click on the Photo Contest icon
5. Follow the upload directions
6. And then share!

Note: You can also email your entry to info@canandaigualakeassoc.org

Limit of 3 entries. Must submit by July 14, 2014. All Contest rules are on the Facebook Photo Contest page.

Viewpoints Recap: Dr. Anthony Ingraffea's talk "Why NOT Shale Gas?"

Presented by the CLWA Community Outreach Committee



Dr. Anthony Ingraffea was the CLWA Viewpoints guest speaker in early February, presenting his talk entitled "Why NOT Shale Gas in New York State?" The talk focused on three key areas: the spatially intense nature of shale gas extraction, risk assessment of well casing failures and shale gas in relation to climate change. Dr. Ingraffea shared data from peer-reviewed literature, government records, the natural gas industry reports and

results from Ingraffea's own research.

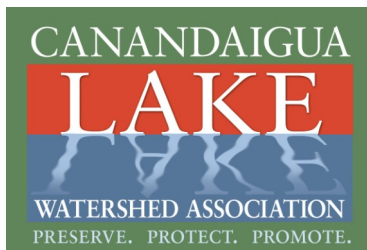
Extracting natural gas using the high volume slick water fracturing method (commonly refer to as "fracking" or "shale gas extraction") has not been performed here in NY State and is vastly different from the types of natural gas extraction wells that exist throughout the State. Diagrams and artist renderings from Chesapeake Energy show that shale gas extraction is a spatially intense process. Clustered multi well pads are arranged into what the industry calls "spacing units." These adjacent rectangular parcels, each measuring roughly one-square mile, create a patchwork effect. Well pads are situated in the middle of the spacing unit, from which 6-10 wells can be drilled. While the geographic orientation of these spacing units are designed to maximize extraction of natural gas based on known underground geology, Chesapeake Energy's 2010

report to the Security and Exchange Commission showed that productivity in the average shale gas well decreases by 70% at the end of the first year of production.

Ingraffea presented results from his own two-year risk assessment study focused on well casing failure of conventional and shale gas wells in Pennsylvania. Analysis of 75,000 public inspections records from 2000-2012 of conventional and shale gas wells show that after two years 13% of oil and gas wells will experience well casing failure and shale gas wells drilled in northeast Pennsylvania will fail at a much higher rate of 45%. Ingraffea's research is currently under peer review for publication by the Proceedings of the National Academy of Science.

Although shale gas has been called a cleaner burning fossil fuel in relation to climate change, methane is 86 times more potent than carbon dioxide over a 20 year period with relation to warming the Earth's atmosphere. Methane is a known greenhouse gas. Shale gas contributes to climate change by producing carbon dioxide when burned, adding methane to the atmosphere by failed well casing, intentional venting or leaking distribution lines in urban areas and lastly, burning methane releases black carbon, or soot, into the atmosphere. Dr. Ingraffea shared research that showed leaking of methane from natural gas distribution lines in urban areas such as Boston.

Dr. Ingraffea's assessment of shale gas extraction in New York State determined that, given the current costs associated with production and the low price of natural gas, shale gas is not eco-



Love the Lake.

PO Box 323
Canandaigua, NY 14424

Find us on facebook!

Phone:
585.394.5030

Email:
info@canandaigualakeassoc.org

Web:
www.canandaigualakeassoc.org