

Crystal Whitecaps

The Newsletter of the Crystal Lake & Watershed Association

Vol. 7, No. 2, SPRING / SUMMER 2011

PRESIDENT'S LETTER

A few years ago, when Millie and I set about creating our homestead in the pinewoods east of Crystal Lake, a wise person advised me to be patient, above all else.

I was warned that accomplishment moves more slowly than desire. And anything worth building is sure to take longer than you want it to take.

I'm thinking about that advice now, as we enter another busy season in Northern Michigan, with so much to do and so little time.

The Crystal Lake & Watershed Association is making great progress, thanks to our generous membership and active Board of Directors and volunteers.

We were honored in 2010 as the "Association of the Year" by the Michigan Lake and Streams Association.

We've joined with municipalities, resorts and other groups to fight Swimmer's Itch through the Crystal Lake Swimmer's Itch Partnership.

We provided funding to help support much-needed lake-level control improvements, which will be installed this summer at the Outlet Dam.

We are in the running for two major grants to help create a long-term watershed protection plan that meets state and federal guidelines.

We're closely monitoring construction at the State Boat Launch site on Mollineaux Road, and we're well into planning for a boat wishing station to prevent invasive species from entering the lake at that site.

And yet, with each advance, we know there's more to do. So, we'll keep swimming along (or sailing, or motoring or skiing) toward the goal we all support: Preservation of the Crystal water that defines this wonderful piece of the Earth.

As always, I ask you to support Crystal Lake by giving generously of your time and treasure (Feel free to use the donation envelope included in your newsletter).

If we walk together, with determination but also with patience, we will accomplish our goals.

Lets all remember to pause now and then to feel the warm sun on our backs and the cool water on our toes. ☀

- Ed Hoogterp, *President*

EMERALD ASH BORER (EAB)

The emerald ash borer (EAB), an invasive species, is a major threat to local ash trees (*Fraxinus spp.*). The magnitude of its potential impact is being compared to the Chestnut Blight and Dutch Elm Disease. It was accidentally introduced into the U.S. and first sighted in 2002 in the Detroit area, and reached Benzie County in 2005 according to the Cooperative Emerald Ash Borer Project.

The EAB beetle lays its eggs on the outside of the bark in late summer. The nearly microscopic larvae hatch and bore in S-shaped patterns to feed on the inside bark (phloem) used to transport sugars photosynthesized in the leaves to the roots. As this transport is cut off, the branches begin to lose their leaves and eventually the tree dies. The larvae remain within the tree for 1-3 years feeding on the inner bark. In the late spring, the larvae emerge as mature beetles leaving a distinctive "D-Shaped" exit hole.

There often are no signs of the insect's entry into an ash tree. Its presence can be evidenced by woodpecker damage and die-off of upper branches. Sometimes ash will begin to develop excessive branching from lower parts of their trunks sending out shoots to capture sunlight with



EAB larva and an adult emerald ash borer.

(Continue on page 2)

"Protecting the integrity of Crystal Lake, Benzie County, now and for the future."



EMERALD ASH BORER (EAB) (Continued from page 1)

leaves in the lower parts of the tree where it can still send sugars to its roots. However this "epicormic" branching can be the result of other factors affecting its health. Ash trees can be protected from EAB by circumferential injection of insecticides into their trunks but the economics are complicated. For further reading on the issue: http://en.wikipedia.org/wiki/Emerald_ash_borer; details <http://www.emeraldashborer.info/>



"D" Shaped exit hole

www.CLWA.us

The CLWA webpage continues to evolve with the addition of a Featured Photo. Every month a new photo will illustrate some seasonal feature of the Crystal Lake Watershed along with explanation of its relevance. We solicit all "shutter-bugs" to take their best shots of interesting observations.

SUMMER 2011 EVENTS

The CLWA will continue its outreach activities to the public at seven 2011 summer events: the 15th Spring Craft Fair - Frankfort, The Beulah Art Fair, the 35nd Annual Frankfort Art Fair, the CSA Art Fair, the Benzonia Art Fair, the CLWA Annual Meeting, and the Archibald Jones Day celebration. Plan to attend!

CLWA ANNUAL MEETING

The Annual Meeting of the **CLWA** will be held Saturday, July 16, 2011, at the CSA Assembly Hall, 2128 Pilgrim Highway (M-22). A short business session will include election of new officers and Board members. Remarks by President Ed Hoogterp and Committee updates will be followed by a special program featuring Dr. David Roberts, a Michigan State University researcher who is recognized as a preeminent expert on the Emerald Ash Borer.

SUMMER INTERNS

Paul Gerhart, a student of Forestry and Applied Ecology at Michigan Tech, will be working on a study of the ecological impacts of emerald ash borer and beech bark disease in the Rail Road Point Nature Preserve. Within the preserve there currently are no signs of an infestation. However to the east there are some signs of woodpecker damage brought on by the presence of the EAB larvae. His project will involve measuring the amount of rain and sunlight entering through the forest canopy and available to vegetation when the forest is healthy. He will also be taking core samples of trees from various species to measure growth rates and installing dendrometers to monitor future growth. Long term goals are to analyze growth rates to identify trends for various species following any disturbances and develop a model of how the forest will look in the future to compare with other areas not yet hit by EAB and to identify best forest management for preservation of a greater diversity of other valuable tree species. Paul will be assisted by Spencer Townsend, a senior at MTU, studying Forestry, and Paul's Cousin, Lee Richter, who are generously donated their time.

Jessica Schaub, a junior at Frankfort High School, and Laura Bailey, a Michigan State University Student, will also work as **CLWA** interns this summer in a program sponsored by the Grand Traverse Community Foundation. Jessica is a member of the National Honor Society and plans to pursue a career in nursing and also plans to play collegiate softball. She has worked past summers at the Cherry Hut and the Crescent Bakery. Laura is pursuing a degree in environmental engineering at Michigan State. She is also taking classes at Northwestern Michigan College. They will be assisting with ongoing snail and Swimmer's Itch research, participating in **CLWA**'s aquatic invasive species education program, and providing assistance to the **CLWA** in various summer events.



*Paul Gerhart (L) 2011 CLWA Intern,
Spencer Townsend, and Lee Richter.*



INNOVATIVE WATER QUALITY MONITORING

The **CLWA** submitted a grant proposal, "Proactive Water Quality Monitoring, Crystal Lake Watershed, Benzie County", to the Michigan Department of Environmental Quality in response to the Clean Michigan Initiative – Clean Water Fund GAP FY 2011. Grant recipients are expected to be announced this summer. The proposal's main component is Water Quality Monitoring (with a secondary component targeting Beach Monitoring). Specific water quality monitoring elements to be addressed would include determination of selected ambient chemical, biological, and physical parameters, in surface waters, and the development of tools to help with collection and assessment of groundwater. The Project Objective will be to use results together with other relevant data to identify and prioritize Issues of Concern during the development of a Watershed Management Plan. These efforts will allow better assessment of the impact of future developments, management of lake water levels, control of nutrient and sediment runoffs, and minimization of the impacts of invasive species.

This Project is a proactive endeavor extending ongoing water quality monitoring, and past studies which have included studies of water chemistry, benthic invertebrates, aquatic macrophytes, Swimmer's itch, and the biomonitoring of the Cold Creek Watershed, previously funded by a CMI grant in 2002-3. Monitoring of lake elevations and flows of both surface and groundwater supplement other activities such as the Cooperative Lakes Monitoring Program (ML&SA and MDNRE). The **CLWA** has also entered into a cooperative agreement with the Benzie Conservation District for support services. The **CLWA** will also provide its Hydrolab® H2O multiprobe for deployment in other lakes in Benzie Co. ☺

CRYSTAL CULINARY CELEBRATIONS

Throughout the summer, members of the **CLWA** will have the opportunity to attend "**CRYSTAL CULINARY CELEBRATIONS**". The Culinary Celebrations will be hosted by CLWA members and held at various locations around Crystal Lake.

100% of the proceeds will go toward the construction of the boat washing station that will be located at the new boat launch site.

Each culinary celebration will have a different theme. **CLWA** members are welcome to host or attend one or more of these events. With the help of committee members, hosts will set the time, date, and theme for their party, invite guests, and set a donation suggestion for each guest.

Contact us today!! Our first priority is to get the host committee lined up. If you are willing to host an event, please reserve your date today by contacting one of the board members or Susan Teteak at 608-291-0391 or tsteteak@charter.net.

PUBLIC ACCESS

The Department of Natural Resources is well along on construction of the new state boat launch on Mollineaux Road at M-115. Current schedule calls for the multi-million-dollar project to be completed this fall, with a formal Grand Opening in the spring of 2012.

The construction plan requires excavation for a roadway to connect the launch site on the shoreline with a parking area on a bluff 80 feet above. Heavy spring rains caused significant erosion of the excavated area. **CLWA** regularly monitors the progress. So far, the contractor has been able to keep silt from running into the lake.

While we continue to have concerns about the steepness of the slope, the heavy clay soils and other site limitations, we are pleased to observe that the contractor and state officials overseeing the site have been sensitive to the environmental issues.

CLWA challenged the project when it was proposed because we believed it called for unnecessary amounts of wetland fill and lake-bottom dredging. The state redesigned the project to answer some of our concerns, and **CLWA** dropped our challenge as part of a court settlement in March of 2010. A separate lawsuit brought against the state by nearby property owners was settled at the same time.

CLWA's position now is that the project must be completed as soon as possible. The lake is at significant risk from erosion and siltation until pavement and drainage systems are place and new vegetation is established on the site.

As part of the court settlement, the Department of Natural Resources is to offer **CLWA** a no-cost lease to build and operate a boat-washing station on the site. The purpose of the boat wash station is to prevent the accidental spread of invasive species into Crystal Lake.

Such unwanted travelers as Eurasian milfoil, quagga mussels, and the virus that causes a fish-killing disease called VHS may attach to boats or trailers and be inadvertently moved from one body of water to another. Boat-washing and other precautions can greatly reduce the chance of this happening.

CLWA will be raising funds this summer to finance the boat-washing station. ☺



Access road to the boat launch site is beginning to take shape.



CRYSTAL LAKE "WALKABOUT" - SPRING 2011

The Crystal Lake "*Walkabout*" is a continuing educational program to teach students, property owners, and visitors about the Crystal Lake Watershed using a "hands-on" approach of observational monitoring and environmental exploring. The program focuses primarily on hydrology – how water moves about the watershed - but also addresses water quality, ecology, land use, zoning, wells and septic tanks, green belts, sustainable development, watershed management, and local history. Participants "walk about" Interpretive Sites that represent different parts of the Crystal Lake Watershed, where they interact with environmental professionals from the cosponsoring organizations. The 2011 spring "*Walkabout*" was offered in two focused themes in response to the expressed curriculum needs of local schools.

The Spring 2011 "*Walkabout*" was held on Monday May 23 and on Thursday, May 26th, for 100 students from the 6th grade classes of Benzie Central (BC) and Frankfort/Elberta Schools (FE), conducted at Sleeping Bear Dunes National Lakeshore (with a focus on geology), and at the Crystal Lake Outlet and the Trapp Farm (with a focus on human impact on the environment). The "*Walkabout*" is supported by the dedicated teachers of the Benzie County schools who provide their inquisitive students as enthusiastic participants. Special thanks are extended to the spring 2011 Site Interpreters: Stacy Daniels, Ed Hoogterp, Paul Gerhart, John Walton, **CLWA**; Marie Scott, SBDNL; Liz Padalino, Northwest Michigan Cooperative



Benzie Central 6th Grade Students Comparing Water Runoff

Weed Management Area. Dr. Stacy L. Daniels of the **CLWA** is "Walkabout" Coordinator.

This year represents the 19th year of the Crystal Lake "*Walkabout*". Since 1993, this successful program has been presented to more than 4,600 students, residents, and visitors to the Crystal Lake Watershed. "*Walkabout*" T-shirts with a colorful map of the Crystal Lake Watershed, and copies of the "*Walkabout*" Interpretive Manual are optional. Additional "*Walkabout*" T-shirts, Watershed maps, and Interpretive Manuals (52pp) are available from **CLWA**. ☐

SWIMMER'S ITCH

Incidences of Swimmer's Itch (SI) continued to be reported in 2010 and in the spring of 2011. This serious nuisance is caused by a tiny organism that exists in clear lake water at one brief point of a complex life cycle in which it normally infects snails and water birds. On Crystal and other Northern Michigan lakes, the common merganser is primary host for the organism.

When the organism, called a cercaria, comes in contact with a human it can cause an allergic reaction and intense itching in susceptible people.

CLWA is participating with other Crystal Lake organizations in the Crystal Lake Swimmer's Itch Partnership to address the problem. The partnership will be erecting informational signs, considering spring and fall merganser reduction programs, scarifying the lake bottom at several popular beaches to discourage snails, and working with local pharmacies to make available products that may help prevent or treat Swimmer's Itch. Swimmers are encouraged to consult pharmacists for products that may help. ☐

WATERSHED MANAGEMENT PLAN

As previously reported, the Northwest Michigan Council of Governments (NWMCOG), in association with the **CLWA** and the Grand Traverse Regional Land Conservancy (GTRLC), submitted a proposal to develop a comprehensive Watershed Management Plan (WMP) for the combined Crystal Lake and Betsie River Watershed. Other partnering stakeholders include: the Benzie Conservation District; the Conservation Resource Alliance; the Benzie/Leelanau District Health Department; the Benzie Co. Drain Commission; the Benzie Co. Board of Commissioners; Benzonia, Crystal Lake, and Lake Townships, the Conservation Resource Alliance, the Green Lake/Betsie River Association, and the Sleeping Bear Dunes National Lakeshore (NPS). The proposed planning process would begin mid-2011 and extend over a two-year period pending funding of \$150,000, plus in-kind matches by the partners. The process will involve assessment of the extensive files of available data and reports, and extended participation by the general public leading to prioritization of issues and needs for development of implementation projects. The proposal has been prioritized by the MDNRE and is now under review by the U.S. EPA. ☐



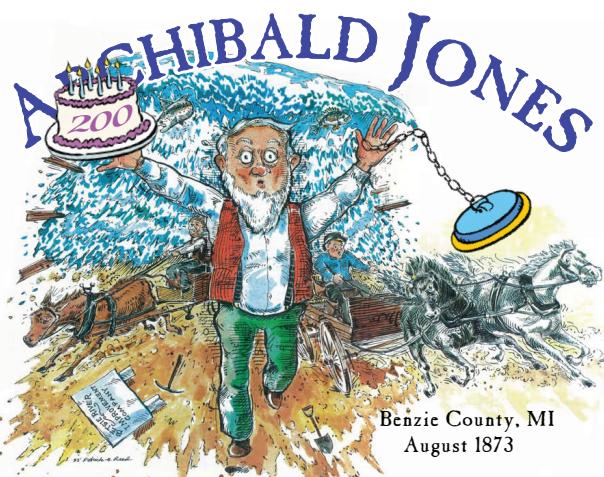
GARLIC MUSTARD

Garlic Mustard (GM) is an invasive plant species found within the Crystal Lake Watershed. This nuisance plant proliferates rapidly if uncontrolled. It degrades wildlife habitat, displaces rare plants, and causes long-term degradation of forests by shading out tree and shrub seedlings. As reported previously [CW Vol. 5(2) & Vol. 4(2)], the **CLWA** recommends all property owners remove GM wherever possible before it spreads uncontrollably. We support the efforts by other local organizations to pull plants with roots intact in spring and early summer and place in black bags for proper disposal at approved collection sites.

GM, a biennial plant, produces many seeds that survive from year-to-year in the ground. There is some hope that this invasive and destructive plant can be managed with repeated pulling of second-year plants that bloom and form seed pods. Mowing of one-year plants seems to reduce the crop of second-year plants. It is very important to identify and harvest scattered infestations before they spread widely. The collection program this spring appears to be very successful. Infestations in many areas seem to be lessening although localized "hot spots" remain. The Trapp Farm Nature Preserve (an especially dense population) has been the target of many groups including the 6th grade class from Frankfort/Elberta Schools during the spring "**Walkabout**". Many bags of GM were delivered by special arrangement as feed supplement for the voracious chickens at the Paul May farm (904 Adams Road, just off River Road). ☐



Chickens at the Paul May farm happily devouring freshly picked GM greens.



The Man Who Pulled the Plug at Crystal Lake

ARCHIBALD JONES DAY - 200th BIRTHDAY PARTY

The second annual Archibald Jones Day will be held Saturday, August 27, in downtown Beulah, to celebrate the "man who pulled the plug at Crystal Lake". This festival commemorates an event that had a permanent bearing on the subsequent development of Crystal Lake and Benzie County. This year we will be especially celebrating the 200th birthday of Archibald Jones (b. 14 Sep 1811, Pittsburgh, Rensselaer, NY). A special lecture on the "Tragedy/Comedy" of Crystal Lake and the Role of Archibald Jones will be presented on Friday, August 26th at the Darcy Library in Beulah, followed by a popularized version by Steve Elrick on Saturday, August 27th. The festivities will include 1870's-period games for children, music (including the original ballad, 'Mistake by the Lake' by "Doc" Stewart), food for all, and a reenactment of the "Tragedy". Mark your calendars for the last Saturday in August!

To summarize this historic event: Early in the morning of August 23, 1873, in an ill-fated attempt to create a navigable channel between Crystal Lake and Lake Michigan, Archibald Jones' Benzie County River Improvement Company caused the level of Crystal Lake to be lowered by 20 feet in a few weeks. This tumultuous event resulted in Crystal Lake losing 25% of its water volume (76 billion gallons), and reducing its surface area by 25% (3,093 Acres)! Crystal Lake is still the 9th largest inland lake in Michigan with a surface area of 9,854 acres and a volume of 242 billion gallons of water! The event most probably occurred as a result of the whitecaps of Crystal Lake washing out a temporary dam intended to be part of a slack-water canal with locks. While unsuccessful from a navigational standpoint, the drawdown created a 21-mile perimeter of sandy beach and prime recreational area around Crystal Lake where about 1,100 cottages and the Village of Beulah are now located. The "Tragedy" of Crystal Lake is forever preserved in the exposed terrace of sandy beach, the perimeter roads and trails, the deep water sediments, and the outwash plain along the outlet.

Archibald Jones Day is cosponsored by the **CLWA**, the Beulah Boosters, the Darcy Library, the Crystal Lake Community Business Association, the Friends of the Benzonia Library, and the Benzie Area Historical Society. ☐



LAKE LEVEL

In 2010, the level of Crystal Lake (measured weekly by the Benzie County Drain Commission) varied only slightly from the regulated levels [Summer (May 1 - Oct 31) 600.25 feet, recreational use; Winter (Nov 1 - Apr 30) 599.75 feet, erosion control]. The Spring of 2011 began with the Outlet plugged with sand and a high water level (which has now been lowered to 600.32 ft is only 0.07 ft (0.84 in) higher than the summer regulated level). Some erosion of beaches has been noted due to high winds and ice flow this past winter. Modification of the Outlet Dam with new equipment this summer will allow better control of the lake level in the future. The CLWA has contributed to this project to be done by the Benzie County Drain Commission following a design by Luedke Engineering. ☘



NEVER MORE THAN SIX MILES FROM WATER

According to the Michigan Historical Center, no geographical point in Michigan is more than six miles (10 km) from an inland lake or stream, or more than 85 mi (137 km) from one of the Great Lakes. Michigan has 3,288 mi of shoreline touching four of the five Great Lakes, ranking it first in freshwater coastline in the U.S. It also has more than 11,000 inland lakes in its 83 counties, and more than 36,000 mi of total river and lake shoreline. The USGS Geographical Information System (GNIS) identifies 439 features in Benzie County: 55 inland "lakes" (not counting Lake Michigan), of which Crystal Lake is the largest; 26 "streams", inc. Cold Creek, Round Lake Creek, Burrows Creek, Nichols Road Creek, and Thomas Road Creek entering Crystal Lake, and Outlet Creek leaving Crystal Lake; 3 "bays", with Hurdman's and Outlet (Molleneaux) being on Crystal Lake; 8 "capes" (points), of which Railroad Point and Winnetka Point on Crystal Lake, and Point Betsie on Lake Michigan are well-known; 4 "beaches", inc. Beulah, Crystal, and Onkeonwe; 2 "dams", Outlet Dam and Homestead Dam; two reservoirs, inc. the Beulah-Benzonia Sewage Disposal Pond (*).

How long is six miles?

- ☘ The length (longest reach) of Crystal Lake is 8.1 miles.
- ☘ You can travel more than 6 miles on Crystal Lake without hitting a beach.
- ☘ The "middle" of Crystal Lake at its widest point is no farther than 1.5 to 4 miles from any beach, but less than 165 feet from "land" (at the bottom of the Lake)!
- ☘ The last leg of the Crystal Lake Team Marathon is a 10 km (6.2 mi) run.
- ☘ Archibald Jones' proposed canal route from Betsie Bay to Crystal Lake is ~ 6 miles.
- ☘ The apparent horizon (where the sky meets the earth) is a bit over 6 miles. One can see the foot of the beach across the width of Crystal Lake, but not down its full length, because the middle of the lake is about 11 in higher than its ends considering the curvature of the earth.

Other historical facts involving distances of only a few miles:

- ☘ The glaciers that covered Michigan were about two miles thick.
- ☘ The Straits of Mackinac are only 5 miles across.
- ☘ In Upper Egypt, the Nile valley is never more than 6 miles across.
- ☘ The waters covering the highest mountains during Noah's Flood would have to have been more than 6 miles above current sea level.
- ☘ During the dry season in some regions of rural Africa, water gatherers must sometimes walk more than 6 miles a day to get water and bring it home.
- ☘ You can sail anywhere on Earth and never be more than 7 miles from land - straight down. The deepest spot in all the world's oceans, "Challenger Deep," is 36,198 feet.
- ☘ The Deepwater Horizon oil drilling rig leased by BP drilled a well in the Gulf of Mexico 35,050 feet, or more than 6 miles, while operating in 4,130 feet of water.

(*) Interpretation of Benzie Co's year-around slogan: "50 Lakes in 50 Minutes", is a matter for conjecture. Benzie Co. does contain 55 lakes > 10 Acres, and each (all?) are easily reached within 50 minutes by modern roads. Traveling was problematical 85 years ago by early automobile, by horse and carriage, or by foot, and not "as the crow flies", but winding hither-and-yon over mostly unpaved roads and one-lane paths through the woods.



WATERSHEDWARE

Denim Shirts \$ 30

CLWA "Wave" pocket crest
(Sizes: Adult S, M, L)

T-Shirts \$ 15

The **CLWA** now offers three colorful designs.
(Sizes: Adult S, M, L, XL, 2XL; Child S, M, L)]

CD's \$10

"The Ballad Of Archabald Jones"

"Walkabout" MANUALS \$10

Maps \$ 3 each \$10 set of four

Denim Shirts



"Walkabout"

Archibald Jones

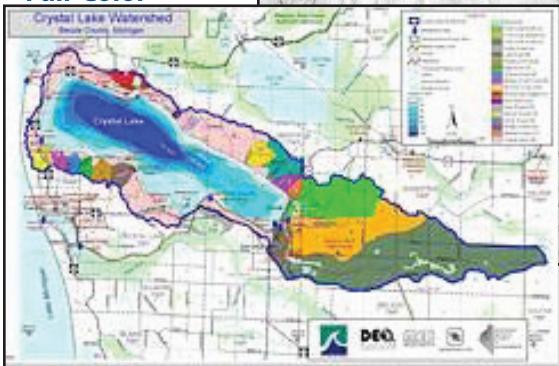


CLWA "Wave"

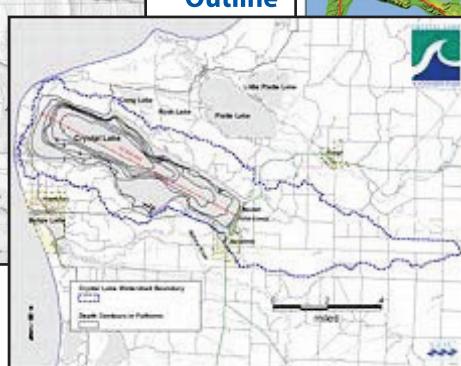
1860 Historical Map



Full-Color



Outline



Digital Elevation Model

FINANCIAL DEVELOPMENT

CLWA MEMBERSHIP

Membership in the Crystal Lake & Watershed Association includes: Crystal Whitecaps, The **CLWA** Newsletter; the Annual **CLWA** Membership Directory; progress reports on Crystal Lake Watershed activities and issues; and an active voice in the protection of the Crystal Lake Watershed.

CLWA memberships are \$35 per year. Gifts to the 2020 Vision Fund are for stewardship projects, scientific studies, and educational programs; and those to the Endowment Fund are for future needs. Please contact the **CLWA** with your concerns and comments. ☀

THE CRYSTAL LAKE & WATERSHED ASSOCIATION

"The purpose of the **CLWA** is to protect and promote the natural qualities of Crystal Lake (Benzie Co., MI) and its surrounding Watershed. The goal of the **CLWA** is to preserve for future generations the beauty and recreational resources of Crystal Lake and its Watershed. To these ends, the **CLWA** will engage in water-quality monitoring, educational programs, promotion of harmonious land development, and promotion of the safe use of Crystal Lake. It will conduct other such activities as needed to advocate and ensure the continued aesthetic beauty and environmental integrity of the Lake and its Watershed." (**CLWA** Bylaws) ☀

Board of Directors

Officers

President: Ed Hoogterp

Vice President: Alan Appelhof

Secretary: Ellen Herscher

Treasurer: Bob Schmidt

Members at Large

Bill Beck

Jim Laarman

Jim Buzzell

Julianne McKnight

Joel Buzzell

Sandra O'Neal

Stacy L. Daniels

Roger Perry

Eddie Ellsworth

Wanda Shreiner

Doug Gibson

High Walton

Jim Hooker

Ex-Officio

Bob Appleford

Administrative Support:

Karen Dennis (Day Bookkeeping Service)

For updated event lists: www.CLWA.us • www.benzize.org • www.frankfort-elebeta.com

July 4	Parades/Fireworks - Beulah/Frankfort	CLWA
July 16	Annual Membership Meeting	CLWA
Aug. 13	CLWA Board Meeting	CLWA
July 9	Firecracker 5k Race - Beulah	CLWA
July 16	Port City Run	CLWA
July 16	Elebeta Art & Crafts Fair	CLWA
July 27	CSA Arts & Crafts Fair	CLWA
Aug 1	EcoLOGY Day - CSA	CLWA
Aug 8	Cystal Lake Team Marathon	CLWA
Aug 10	Benzonia Arts & Crafts Fair	CLWA
Aug 19-20	Frankfort Art Fair	CLWA
Aug 27	Archibald Jones Day	CLWA
Oct 1-2	Fall Festival - Beulah & Benzonia	CLWA
Oct 8-9	Fall Festival - Frankfort & Elebeta	CLWA

Regular board meetings will begin at 9 a.m. at the Benzine Health Department/Community Center on M-115. The annual membership meeting will begin at 9:30 a.m. at the CSA Assembly Hall.

LOCAL

• 2011 TENTATIVE CALENDAR OF EVENTS •



CRYSTAL LAKE & WATERSHED ASSOCIATION

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