

2007-2008



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

**2007 - 2008  
MEMBERSHIP DIRECTORY**

**2007  
ANNUAL REPORTS**



## **CRYSTAL LAKE & WATERSHED ASSOCIATION**

### **Mission Statement**

*The Crystal Lake & Watershed Association is committed to protecting and improving the quality of Crystal Lake, by monitoring the water and surrounding environment, through effective action and leadership, thereby preserving the natural beauty of Crystal Lake for future generations.*

### **Purpose**

*The purpose of the Association is to protect and promote the natural qualities of Crystal Lake and its surrounding Watershed. The goal of the Association is to preserve for future generations the beauty and recreational resources of Crystal Lake and its Watershed. To these ends, the Association will engage in water quality monitoring, educational programs, promotion of harmonious land development along with also promoting safe use of Crystal Lake. It will conduct such activities as needed to advocate and insure the continued aesthetic beauty and environmental integrity of the Lake and its Watershed.*

### **Membership**

*The membership of the Association shall consist of all dues paying families (parents with children under age 21), individuals, organizations and businesses interested in preserving the environment and maintaining the quality of life in the Crystal Lake area.*

### **2008 Annual Meeting**

**Saturday, July 19, 2008  
9:30 AM**

**Congregational Summer Assembly  
Community Building**

# CRYSTAL LAKE & WATERSHED ASSOCIATION

## 2007 – 2008 BOARD OF DIRECTORS

P – Primary Home S – Secondary Home B – Business C – Cell

### OFFICERS

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#### Terms expiring 2008

#### **President**

Bob Appleford P (231)352-9206  
C (248)891-5390

#### **Secretary**

Susan Teteak P (608)291-0391  
S (231)352-7527  
C (608)312-9376

#### Terms expiring 2009

#### **Vice – President**

Alan Appelhof P (231)882-4772  
S (727)848-7824  
B (231)882-9681

#### **Treasurer**

Bob Schmidt P (314)721-1266  
S (231)352-7116  
B (314)721-2255

### MEMBERS AT LARGE

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#### Terms expiring 2008

Jim Buzzell P (231)352-4465  
S (231)352-7253

Doug Gibson P (231)882-7063

Keith Schneider P (231)882-7118  
S (231)882-6584x11B

Kathryn Simpson P (309)682-1710  
S (231)352-7708  
C (309)397-6149

#### Terms expiring 2009

Peggy Burns-Deloria P (734)827-8000  
S (231)352-8055  
B (734)655-6264  
C (734)355-4366

Ed Hoogterp P (231)882-4932

Susan Kirkpatrick P (231)352-6434  
C (734)223-8832

Jim Laarman P (231)352-5328

Jay Pettitt P (231)882-4040

#### Terms expiring 2010

Tom Clare P (231)690-5028

Stacy L. Daniels P (989)835-5593  
S (231)352-7043

Elizabeth Hill P (231)352-6018

Phil Meek P (231)352-4126  
S (203)868-8721  
S (561)603-1627

#### **Ex-Officio**

Ron Renner P (231)352-9954  
S (307)543-0976

R. William Decker P (231)352-7995  
S (616)949-0823

#### **Administrative Services**

Karen Dennis B (231)882-4001



## PRESIDENT'S REPORT

*What a busy year – the boat launch trial, road end docks and marinas legislation, record low water levels, and the proposed ATV/ORV ordinance – and this upcoming year will be even busier. Several of last years issues will still be with us and new ones will require commitments of time and money – the most important looks to be invasive species, in particular the known zebra mussels' invasion and the possible quagga mussels' invasion.*

*Last summer Stacy Daniels and I attended the Michigan Lakes and Streams Association annual conference. The most significant information I gained from the conference was about new invasive species and the difficulty and the apparent frightening inability of the State agencies and Lake Associations to control or prevent the invasion of invasive species threatening the Great Lakes and inland lakes.*

*Since last summer reports from experts have continued to be pessimistic. Many say that we have reached a "tipping point" in several of the Great Lakes; meaning once tipped the Lake will never return to normal. Evidence to support that opinion includes (1) the rapid decline of diporeia's (the dominant benthic form of food), (2) the increasing density of quagga mussels in lakes Michigan, Ontario, Erie and Huron, (3) decreased size and weight of whitefish and (4) decrease in trout and salmon in Lake Huron. I refuse to accept these dire predictions; however, either way, it is imperative we do everything within our power to address this issue in the coming year.*

*We have formed a new Committee combining Swimmers' Itch and Invasive Species. The Co-chairs are Jim Laarman and Ron Renner. This committee will expand our testing procedure to determine the presence of invasive species and their impact on Crystal Lake.*

*Another new Committee is Green Explorers/Betsie Trail Garden Committee. Please see Karen Dahman's report regarding the committee's planned activities.*

*I am pleased to report how fortunate we are to have several new members who not only have technical backgrounds and experience but also are taking responsibility for moving our programs forward.*

*I want to thank our committee chairs, committee members, and all our volunteers for their efforts this past year. I also want to thank Karen Dennis, who has done an excellent job providing administrative services.*

*Last but not least thank you to all of those members who stepped up in our critical time of need and contributed funds to fight our legal battles and provided funds for our other activities.*

*I believe it is important that CLWA remain active throughout the entire year, and I am pleased to report that several committees had meetings during the winter months. As spring approaches I am confident that we will "hit the ground running" in all of our important endeavors.*

*Thank you for your loyal support.*

**Bob Appleford, President**

# CRYSTAL LAKE & WATERSHED ASSOCIATION

## 2007 TREASURER'S REPORT

*Through the generosity of our members in 2007 our The Crystal Lake & Watershed Association was able to meet its obligations and rebuild its financial strength. With the multi-year Boat Launch litigation expenses exceeding \$187,000 we ended 2006 with operating results of (\$94,500). Our year end net for 2007 was \$38,808, a much needed improvement. During the year there were two important fund raising events, a Special Appeal and a Restore the Treasury campaign. Together these efforts raised \$60,480. Thanks to all who generously participated. As shown we have a note that we anticipate will be repaid from special events during our summer months.*

*The efficiency of our bookkeeping service has served us well. Karen Dennis is now the proprietor of Day Bookkeeping having purchased the business, Jean Luedtke Bookkeeping Service, which served us well. We extend our thanks to Karen, Jean and those who have helped to bring this success.*

*A key to our being able to bring your generous contributions to "it's all about the water and the things that affect it" without much overhead is the extraordinary volunteerism that is part of our heritage. Thanks to all of you.*

**R. C. Schmidt, Treasurer**

## INTERESTING FACTS ABOUT CRYSTAL LAKE

*Benzie County is the smallest of 83 counties in land area (321 sq mi); but 24th in total water area (538 sq mi); and 18th in inland lakes water area (26 sq mi).*

*In Benzie Co., you are never more than 6 mi from an inland lake, or 25 mi from Lake Michigan.*

*Crystal Lake spread evenly over all of Benzie County, would cover the surface to a depth of 44 inches - just about head-high for a five-year-old!*

*A faucet flowing at 10 gallons/minute for 51 years would add one inch to Crystal Lake!*

*Lake Michigan contains the equivalent of 5,370 Crystal Lakes.*

*Crystal Lake is halfway between the Equator and the North Pole and is halfway between the NW corner of the UP and the SE corner of the LP of Michigan.*



## FINANCIAL STATEMENTS

### BALANCE SHEET December 31, 2007

#### Assets

Bank Balances	\$40,636.00	
Endowment Balances	\$92,104.00	
<b>TOTAL ASSETS</b>		\$132,740.00

#### Liabilities

Due To Endowment	\$(875.00)	
Accounts Payable - 2020	\$9,157.00	
Note Payable - 2020	\$40,000.00	
<b>TOTAL LIABILITIES</b>		\$48,282.00

#### Fund Balances

General Fund	\$10,038.00	
2020 Vision Fund	\$(17,684.00)	
Endowment Fund	\$92,104.00	
<b>FUND BALANCES EQUITY</b>		\$84,458.00
<b>TOTAL LIABILITIES &amp; EQUITY</b>		\$132,740.00

### OPERATING STATEMENT January 1 - December 31, 2007

	2007	2006
<b>Revenue</b>		
Revenue		
General Fund	\$68,092.00	\$52,271.00
2020 Vision Fund	\$93,074.00	\$61,952.00
Endowment Fund	\$5,717.00	\$10,093.00
<b>Total</b>	<b>\$166,883.00</b>	<b>\$124,316.00</b>
<b>Expenses</b>		
General Fund	\$65,807.00	\$50,703.00
2020 Vision Fund	\$64,038.00	\$167,218.00
Endowment Fund	\$ -	\$ -
Due to Endowment	\$(1,770.00)	\$895.00
<b>Total</b>	<b>\$128,075.00</b>	<b>\$218,816.00</b>
<b>NET</b>	<b>\$38,808.00</b>	<b>\$(94,500.00)</b>
<i>Accountant Year End Adjustment</i>		<i>\$(6,544.00)</i>

# CRYSTAL LAKE & WATERSHED ASSOCIATION

## 2007-2008 STANDING COMMITTEES/AD HOC COMMITTEES

### **Executive Committee**

Bob Appleford  
Alan Appelhof  
Susan Teteak  
Bob Schmidt  
Stacy L. Daniels  
Phil Meek

### **Education and Communications**

Publications & Walkabouts  
Stacy L. Daniels, Chair  
Peggy Burns  
Anne DeVries  
Bob Schmidt  
Ed Hoogterp  
Mary Pray  
Karen Dahman

### **Financial Development**

Annual Appeals, Endowment, Fund  
Raising, Grants, Membership, 2020  
Vision Fund  
Peggy Burns, Chair  
Lisa Christian, Graphic Design  
Kathryn Simpson, Membership  
Alan Appelhof  
Phil Meek  
Weezie Morris  
Ron Renner  
Susan Teteak  
Elizabeth Hill  
Wanda Shreiner  
(Membership as of July '08)

### **Water Quality**

Aquatic Species, Shoreline  
Management Water Monitoring  
Stacy L. Daniels - Co-Chair  
Doug Gibson - Co-Chair  
Bill Decker  
Elizabeth Hill  
Jim Laarman  
Scribner Sheafor

### **Zoning and Land Use**

Benzie Co. Zoning, Road Safety,  
Water Safety  
Ed Hoogterp, Co-Chair  
Tom Clare, Co-Chair  
Alan Appelhof  
Hugh Walton

### **Nominating Committee**

Peggy Burns  
Ed Hoogterp  
Susan Kirkpatrick  
Jim Laarman  
Jay Pettitt

### **Finance**

Bob Schmidt, Chair  
Jim Buzzell  
Jim Martin  
Rick Morris - Insurance

### **2007 Ad Hoc Committees**

Benzie Corridor/Scenic Ridge  
Stacy L. Daniels, Chair  
Elizabeth Hill  
Keith Schneider  
Bob Appleford  
Alan Appelhof

### Boat Launch/Road Ends

Bob Appleford, Chair  
Ron Renner  
Stacy Daniels  
Bob Schmidt  
Ed Hoogterp  
Tom Clare

### Green Explorers

Karen Dahman, Chair  
Elizabeth Hill  
Ron Renner  
Mike Brougham  
Racquel Huddleston

### Long-Range Planning

Alan Appelhof, Chair  
Stacy L. Daniels  
Bob Schmidt  
Peggy Burns  
Bill Decker

### Shoreline Stewardship

Elizabeth Hill, Co-Chair  
Susan Kirkpatrick, Co-Chair  
Jim Laarman  
Karen Dahman  
Kyle Axtell  
Carolyn Thayer

### Swimmers' Itch/

Invasive Species  
Jim Laarman, Co-Chair  
Ron Renner, Co-Chair  
Susan Kirkpatrick  
Scribner Sheafor  
Susan Teteak  
Lois Verbrugge  
Charlie Kinzel

**Would you like to be on  
a CLWA Committee ?**

**Please contact us!**



## EDUCATION AND COMMUNICATIONS COMMITTEE

*The Education & Communications Committee promotes public education on watershed management through watershed handbooks, "Walkabout" interpretive manuals, newsletters, websites, and issue papers, and promotes stewardship of the Crystal Lake Watershed through education of members, students, and the general public.*

*The Crystal Lake "Walkabout", an educational program for students, property owners, and visitors, uses a "hands-on" approach and a common hydrological theme to address water quality, land use and zoning, and environmental stewardship issues within the Crystal Lake Watershed. Participants "walk-about" Interpretive Sites within the Watershed: the Lake, and its tributaries, wetlands, dunes, and high ridges, which are described by environmental professionals from the CLWA and cosponsoring organizations. The "Walkabout" Interpretive Manual is at [http://www.clwa.us/educ\\_comm.htm#EDUCATION](http://www.clwa.us/educ_comm.htm#EDUCATION). Since 1994, the "Walkabout" has been presented to over 3,086 participants. It became a biennial event in 2002 for all 5/6th- and 7/8th-grade students in Benzie County. Three events are being planned for 2008: Spring (5/6th grade), Summer (Public), and Fall (7/8th grade).*

*Special thanks to the cosponsoring organizations, the Site Interpreters, and other volunteers, and the*

*dedicated teachers from Benzie Central Schools and Frankfort-Elberta Area Schools, who incorporate watershed themes into their curriculums, and the students who make the "Walkabout" worthwhile.*

*The CLWA website [www.CLWA.us](http://www.CLWA.us) contains a wealth of information about the Crystal Lake Watershed, FAQs and maps, the CLWA, Committee activities, concerns & issues, a calendar of events, references, newsletters, and other publications, and links. The CLWA newsletter, Crystal Whitecaps (published Fall/Winter & Spring/Summer) is posted at <http://www.clwa.us/references.htm#Newsletters>. Thanks to a generous grant from a locally active foundation and a Conservation Grant from ESRI of software, the CLWA continues to develop internal capabilities for Global Information Systems to allow creation of maps and other visual information of our Watershed. In 2008 we hope to create two interactive models of our Watershed to use in traveling displays and at permanent locations.*

*With the capable assistance of Jane Limmer, our 2007 Summer Intern, we increased the presence of the CLWA at four summer art fairs. This allowed us to respond to public concerns and to educate residents and visitors on issues facing our Watershed which include: the proposed boat launch (MDNR), the Benzie Corridor (SBDNL), the Crystal Lake Watershed Overlay District, and the low level of Crystal Lake.*

**Stacy L. Daniels, Chairman**

**Committee Members:** Peg Burns, Ann DeVries, Bob Garrison, Mary Pray, Bob Schmidt



## FINANCIAL DEVELOPMENT COMMITTEE

*"To preserve and protect the water quality of Crystal Lake": this phrase from the CLWA mission statement is truly the source of inspiration for the Financial Development Committee. This last year has been one of both strengths and opportunities. CLWA was faced with serious expenses due to our long fought battle on the boat launch. In light of that situation, we sent out additional pleas for your generous support. We are pleased to report that the CLWA membership responded and our 2007 annual revenue total was up over \$40,000 over 2006. This number represents close to 30% revenue growth when reviewing all sources of revenue: Membership, 2020 Fund, Estate Gifts and gifts to the Endowment Fund.*

*Our goal for the future remains clear: we must generate enough memberships to sustain the operational cost associated with CLWA. Last year our membership grew by 50 for a total of 943 members. Our dues have been at \$35 per person or \$70 per couple, for a great many years. We raise more than that annually in membership dues, thanks to the generosity of many members who contribute much more than the basic amount. However, the increased cost in mailing, printing and administrative support has increased our fixed costs. As a committee, we are reviewing our membership fee, which has not increased in years.*

*In addition we must focus on having a reserve in the*

*2020 Fund to address specific issues and concerns as they arise. The 2020 Fund has been the strength of CLWA and has given us the necessary resources to focus on protecting the quality of Crystal Lake. The current 2020 Fund balance is depleted. We need to rebuild this fund. To add additional revenue, we are considering a summer fund raiser and hope you will join us by participating.*

*As we contemplate the future, it is in the CLWA's best interest to begin the discovery process for an endowment campaign that will build our coffers and provide the financial nucleus necessary to preserve Crystal Lake in perpetuity. This process includes approving a plan and structure for the endowment. That work is currently in process. In addition, we are working on a case statement that will define opportunities and lay the groundwork to launch this effort in 2008. It is our hope to set a goal that can be accomplished over a three to five year time frame. You can be sure, we will be contacting you for your thoughts and suggestions as we move forward.*

*CLWA is a membership organization. It is your organization and it exists to protect a lake that we all care deeply for, Crystal Lake. Thank you for all you have done and continue to do to steward this great natural treasure.*

**Peggy Burns, Chairman**

**Committee Members:** Lisa Marie Christian - Graphic Design, Kathryn Simpson - Membership, Alan Appelhof, Elizabeth Hill, Phil Meek, Weezie Morris, Ron Renner, Wanda Shreiner, Susan Teteak



## WATER QUALITY COMMITTEE

*The Water Quality Committee of the CLWA is directed to monitor the water quality of Crystal Lake and its Watershed, to measure parameters of interest, to identify areas or sources of concern, and to recommend preventive measures or remedial controls.*

*Kyle Axtell of the Benzie Conservation District (BCD) provides water quality monitoring services to the CLWA. The CLWA has also offered to provide the use of its refurbished Hydrolab® multiprobe in support of proposed water quality monitoring projects within Benzie County in the neighboring watersheds of Betsie Bay and the Herring Lakes.*

*The CLWA and its predecessor organizations have participated for many years in the Cooperative Lakes Monitoring Program (CLMP), a statewide volunteer program coordinated by the Michigan Lake & Streams Associations (ML&SA) and the Michigan Department of Environmental Quality (MDEQ). Crystal Lake was profiled on how a community has used CLMP data to protect their lake in the 2006*

*CLMP Annual Summary Report.*

*<http://www.mi-water-cmp.org/CLMP%202006/CLMPFinalReport06-press.pdf>.*

*Benzie County was identified by the U.S. EPA as an ozone (O<sub>3</sub>) nonattainment area according to the Clean Air Act because the ambient level had occasionally exceeded the national ambient air quality standard (NAAQS) of 80 parts per billion (ppb). MDEQ requested EPA to redesignate 11 Michigan counties (including Benzie) to attainment status based on review of data. CLWA provided comments in support of this action.*

*Effective May 16, 2007, the U.S. EPA approved this request by MI DEQ to redesignate Benzie County as an ozone attainment area and also approved revisions to the MI State Implementation Plan (SIP) through 2018.*

**Stacy L. Daniels & Doug Gibson, Co-Chairmen**  
**Committee Members:** *Bill Decker, Elizabeth Hill, Jim Laarman, Scrib Sheafor*

## ZONING AND LAND USE COMMITTEE

*The long task of strengthening the Crystal Lake Watershed Zoning Overlay is moving ahead at a steady governmental pace, which is to say slowly. The groundwork for this important process was laid down by past committees, under the direction of Cliff Graves and Chuck Clarke. The Overlay is a special section of the Benzie County zoning ordinance, designed to protect the lake from harmful development. It limits the types of businesses that can locate near the lake (for example: no animal feedlots) and also addresses such topics as maintaining lakeshore buffer zones and building on hillsides where erosion could be a problem. Based on the success of the original Crystal Lake Overlay, Benzie County intends to create similar zoning amendments to guide development and protect the environment in each of the county's distinct watersheds. A major part of that process has been to incorporate new ordinance language that better defines the standards for such activities as removing vegetation, retaining storm water, and building on steep slopes. Those standards are not always clear in the present Crystal Lake ordinance, which has made it difficult to enforce.*

*A draft overlay ordinance has been completed for the small Turtle Lake watershed in Inland Township, and may serve as a partial model for updating the Crystal Lake ordinance. We continue to have input with the county Planning Commission and zoning administrator. We will use the CLWA Website and Crystal Whitecaps to keep association members*

*informed of the process, and of any changes proposed for our watershed. The committee co-chairs met with the Benzie County Sheriff's Department to begin a conversation about law enforcement and emergency services on the lake and surrounding roads. A 2008 goal is to develop a strategy to provide visitors with helpful information about boating regulations, road speed limits, Crystal Lake's ever-changing weather, and other topics. While it's unlikely that speed limits will be changed, committee members believe that a bit of education will reduce conflicts among drivers, pedestrians and bicyclists.*

*We continue to monitor bills in the state Legislature that could have an impact on the Lake and watershed. House Bills 4463 and 4464 would allow townships to build and maintain marinas at public road ends on large lakes, including Crystal Lake. The CLWA membership and the board of directors have expressed opposition to the legislation, based on water quality concerns. House Bill 4323 would give counties authority to permit all-terrain vehicles on some or all county roads. The association has no formal position on this legislation, but committee members are concerned that ATV travel on roads near the lake could result in safety hazards and erosion.*

*Both these pieces of legislation passed the House in 2007. They cannot become law without passing the Senate as well. As of early March, the Senate had no plans to take up the bills.*

**Tom Clare & Ed Hoogterp, Co-Chairmen**

**Committee Members:** Alan Appelhof, Hugh Walton | 11



## AD HOC COMMITTEES

### BENZIE CORRIDOR/SCENIC RIDGE

*The Benzie Corridor / Scenic Ridge was proposed as part of the original Sleeping Bear Dunes National Lakeshore (SBDNL). It was conceived as a “parkway” connecting M-22 and US-31 along the high ridge (Crystal Highlands) dividing the Crystal Lake and Platte River Watersheds. At the 2007 Annual Meeting of the CLWA, Tom Ulrich, Assistant Superintendent of SBDNL, presented four alternatives being considered in the new General Management Plan/Wilderness Study, which have received public comment. The latest draft of this document was published on April 7, 2008, with three public meetings scheduled in June before the formal comment period ends on June 13, 2008. The alternatives are: (1) continued purchase of lands from willing sellers; (2) cease acquisition of lands; (3) continued purchase for development of a scenic road similar to the Pierce Stocking Scenic Road; or (4) continued purchase for development of a trail for hiking and biking. Concerns vary according to which alternative is considered. These include: type and route of access, designated uses and hours of operation, and potential effects upon the viewsheds and water quality of the two lakes. A group of CLWA Board members and others led by Andy Norman walked a portion of the proposed route in Fall 2007 to gain a better understanding in considering the best alternative.*

**Stacy L. Daniels, Chairman**

**Committee Members:** Alan Appelhof, Bob Appleford, Elizabeth Hill, Keith Schneider

## BOAT LAUNCH/ ROAD ENDS COMMITTEE

*The administrative hearing before Judge Dennis Mack on the Boat Launch was completed in March 2007 and the parties submitted proposed Findings of Fact and Conclusions of Law in June. No decision has been issued.*

*Our position remains the same. Our desire is for a boat launch at the proposed Labadie/Cole site, but we want it to protect the water quality of Crystal Lake so all in our community can enjoy the wonderful lake, both now and for future generations. We remain ready to work with the State to make this happen.*

*We believe the record establishes that the permit granted for the proposed boat launch was improperly prepared and approved by two public agencies in disregard of statutory permitting requirements. As such, the project is illegal, and if constructed would destroy the most significant wetland adjoining the Lake and negatively impact the water quality of the Lake.*

*We are very disappointed, that more than six years after it was proposed, Crystal Lake still does not have a much needed public boat launch in place because the MDNR doggedly refuses to consider a launch of more moderate design and size at the Labadie/Cole site agreed upon in 2001.*

*At this time we are also awaiting another legal decision regarding the Boat Launch. While we were*

*battling the MDNR and MDEQ, the homeowners association (CLPRA) adjoining the proposed site commenced suit in Benzie County Circuit Court seeking a different result than CLWA. CLPRA seeks to block any boat launch from being constructed on the Labadie/Cole site. Judge Batzar ruled for MDNR/MDEQ and CLPRA appealed. On February 6th the parties had oral argument before a three judge panel in the Court of Appeals.*

*That case involves different issues from our case. One is whether under state law MDNR/MDEQ's authority preempts local zoning. This issue impacts all MDNR/MDEQ boat launching facility plans in the state.*

*The other issue involves a court order (the Bigelow judgment) made in connection with the establishment of the Betsie Trail. CLPRA's position is that MDNR/MDEQ needs to amend the Bigelow judgment to permit the boat launch facility to be constructed at the proposed site along the Betsie Trail and that any amendment would require CLPRA's express permission.*

*On June 27, the Michigan House passed legislation increasing the scope of public access to bodies of water from the ends of public roads. House Bill 4463 states that a marina can be built by a local government at the end of any public road which terminates at a body of water of over 2,500 acres. A companion Bill 4464 establishes a recreational presumption for road end dedications. Local townships would have the option to adopt ordinances allowing docks of up to 250 feet in length*

*and five feet in width at each road end for seasonal overnight moorings from boat slips or hoists from May 1 to September 30 to be allocated through a lottery or fees system. The legislation was stalled last year in the Michigan Senate Committee on Government Operations & Reform; but is expected to be raised again this year.*

*The CLWA Board determined that these bills would neither protect nor improve the water quality of Crystal Lake, but to the contrary will negatively impact the water quality and be detrimental to the lake and its watershed. The Board's reasons included: the limited space at road ends; lack of parking areas and public sanitation and refuse facilities; pollution potential; restriction of MDEQ's authority to issue/decline marina permits; failure to provide for dredging regulations; docks crowding out favored activities (swimming and fishing). The bills would create hazards at road ends, on adjacent roadways and nearby properties, has conflicting fee provisions; and would limit public use of road ends by issuance of docking facilities for privately owned boats.*

**Bob Appleford, Chairman**

**Committee Members:** Stacy L. Daniels, Ron Renner, Bob Schmidt, Ed Hoogterp, Tom Clare

## **GREEN EXPLORERS/ BETSIE TRAIL GARDEN COMMITTEE**

*The 2007 summer program was comprised of four sessions, free to all students in Benzie County. The classes involved hands on activities and experiments*



*designed to give students a clear understanding of the workings of rivers, lakes, watersheds and wetlands.*

*The classes were successful and the program is being repeated this summer with the addition of a field trip through and experiments in a watershed, and the building of a Rain or Buffer Zone garden at the Trailhead House in Beulah.*

*The goals of this program are as follows:*

- 1. to increase understanding of the workings of rivers, lakes, watersheds and wetlands*
- 2. to provide hands-on learning experience for elementary children*
- 3. to give students experience with both beneficial and harmful ways of interacting with water*
- 4. to increase the public's awareness and knowledge of water cleansing gardens*

*In the autumn of 2007, meetings were held with the Beulah Village government, Sunrise Rotary and Rails to Trails members to determine a site for the garden, which will be placed on the small slope between the Trail Head House and the small railroad retaining wall facing the main street. Two grants were subsequently written, submitted, and accepted to cover the cost of installing the garden.*

*The class will begin in June and be held usually once a week through the beginning of August. The class will take place at various sites around the county. A calendar and list of topics to be covered will be published soon. This year the class will be called "The Green Explorers Club"*

*We invite all board members to come observe and participate in any of the classes. I am grateful for the great interest and wonderful support given by many CLWA members and others in the community.*

**Karen Dahman, Chairman**

**Committee Members:** Elizabeth Hill, Ron Renner, Raquel Huddleston, Michael Brougham

## **SHORELINE STEWARDSHIP**

*The Shoreline Stewardship Committee is a collaborative effort between the CLWA and the Benzie Conservation District (BCD) to encourage riparian's to preserve, manage, and enhance their shoreline properties. Functional and aesthetically pleasing buffer zones of native plants require little weeding and watering, no fertilizers, and no mowing. Water quality is protected by reducing surface runoff of sediment and nutrients into the Lake.*

**Elizabeth Hill, Chairman**

**Committee Member:** Susan Kirkpatrick

## **SWIMMER'S ITCH/INVASIVE SPECIES**

*Swimmers' Itch is a human skin irritation that occurs when swimmers and waders come in contact with certain parasites living in the fresh warm waters of Crystal Lake. The source of the parasite is from certain mammals and birds that carry tiny blood flukes in their tissues. Those flukes produce eggs that hatch when released into water with*

droppings, yielding a tiny swimming form called miracidium. The miracidium have a few hours in which to actively seek out certain Crystal Lake snails. If successful, they penetrate into the snail through its soft parts and undergo changes which finally result in the production and release of thousands of cercaria. The cercaria swim and drift about in hopes of penetrating into a host such as the merganser duck within 48 hours of its short lifetime, thereby completing its life cycle. If the cercaria accidentally come in contact with an unsuitable host during that time, including humans, they may penetrate into but not through the skin, in which they die within 24 hours. The body's allergic reaction to the foreign protein may cause severe itching at each point of entrance.

A Swimmers' Itch hotline has existed for sometime to advise, educate, and collect current information on location, trends, and severity of SI infections: 231-352-5328. This summer we request all members who experience the SI infection to provide us with details regarding where, when and severity.

*Invasive Species and aquatic nuisance species are waterborne non-native plants, animals, and microorganisms that threaten diversity or abundance of native species, ecological stability of impacted waters, or commercial, agricultural, aquacultural or recreational activities.*

*Examples specific to Crystal Lake include: garlic mustard, purple loosestrife, Eurasian watermilfoil,*

*and zebra and quagga mussels. The CLWA continues to encourage the prevention of the introduction of new species by interlake boat traffic, and the removal of garlic mustard from within the watershed. It is imperative that we do all that is possible in keeping Crystal Lake free of the many other invasive species currently in or threatening Lake Michigan and other inland lakes.*

**Jim Laarman & Ron Renner, Co-Chairmen**  
**Committee Members:** Charlie Kinzel, Susan Kirkpatrick, Scrib Sheafor, Susan Teteak, Lois Verbrugge

## LONG RANGE PLANNING

*During 2007 the Long Range Planning Committee has reviewed and discussed the following:*

### *Current Projects*

#### *Membership*

*(1) There is a need to promote unity among all members of the community regarding lake and watershed issues.*

#### *Water Quality*

*(1) Goal: to come up with a method of measuring overall water quality (based on a benchmark to be determined).*

#### *Education*

*(1) Continue to conduct the excellent Walk-about*



*and Jr. Walkabout programs.*

*(2) Continue to provide periodic updates of our activities by writing and publishing the excellent newsletter: "White Caps".*

#### *Zoning & Planning*

*(1) CLWA should continue to monitor the actions of the local county and township planning and zoning boards, particularly as major changes are proposed to the existing zoning ordinances.*

#### *Current threats to water quality of Crystal Lake:*

- a. Invasive species such as Zebra mussels*
- b. Eurasian watermilfoil et al*
- c. Swimmer's itch*
- d. Deterioration of ground and surface waters*
- e. Control of lake level*
- f. Atmospheric depositions and ozone concerns*
- g. Algae, bacteria and molds in nearshore and deep lake waters*

#### *Future threats to water quality in Crystal Lake:*

- a. Possible impact of proposed boat launch and road end docks
  - (1) Pollution potential and unregulated dredging*
  - (2) Uncontrolled dumping of bait and sewage*
  - (3) Introduction of additional invasive species**
- b. Changes in land use*

#### *Government projects potentially impacting Crystal Lake water quality:*

- a. Expansion of cluster septic systems*
- b. Revision of Benzie County Zoning Ordinance*
- Development of Sleeping Bear Dunes National*

*Lakeshore's "Benzie Corridor" (US-31 TO M-22)  
Collection and control of waste litter, trash and hazardous materials*

#### *Projects CLWA should continue to support:*

- a. Continue to develop the summer intern program*
- b. Increase membership by imaginative promotional campaigns*
- c. Additional public writing campaigns*
- d. Provide ongoing support to those efforts seeking to eliminate boat sewage entering Crystal Lake.*

#### *New projects the CLWA should consider:*

- a. United support of expanded use of septic cluster systems*
- b. Potential development of an active organization in Benzie County which would become a Fresh Water Institute. This organization would study, investigate and publish solutions to the many problems associated with the preservation and protection of fresh waters above, in and below the earth's surface.*

**Alan Appelhof, Chairman**

**Committee Members:** *Peggy Burns, Stacy L. Daniels, Bill Decker, Bob Schmidt*



# CRYSTAL LAKE & WATERSHED ASSOCIATION

## THE CRYSTAL CIRCLE

The Crystal Circle Award was established to honor permanently those who have contributed in a most generous way, their time, talents and/or financial support in an outstanding manner that has made a difference in the well being of Crystal Lake. Members of this Circle are selected by the Board of Directors of the Crystal Lake & Watershed Association in gratitude for their commitments to the Association which has provided our ability to continue the work of protecting Crystal Lake for the enjoyment of future generations.

### *Crystal Circle Awards*

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*The Crystal Lake & Watershed Association extends its very special thanks to all who have so generously given their financial support to our organization during 2007. The following list recognizes all who gave \$50 or more from January 1 through December 31, 2007. All gifts, regardless of size, play a significant role in helping to preserve Crystal Lake and the surrounding areas.*

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*Thanks to all the many volunteers who gave many hours of their time and talent in priceless help.*

*We make every attempt at accuracy and regret any omissions or errors that may have occurred. If, for any reason, your records differ from ours, please contact our office to resolve the nature of the difference.*

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*Ernest & Marjorie Flegenheimer*

*Robert L. & Carolyn Harmon*

***John N. Hays Sr.***

*William E. & Holly Fuller*

***Ethel Grace Hilton***

*Bonnie M. Barnes*

*Sherie & Scott Barnes*

*Carroll & Mike Barr*

*Charles & Nancy Brickman*

*John G. & Renee Cooper*

*Howard & Diane Dean*

*Charles Keeling*

*Robert E. & Edith T. Molumby*

*Dr & Mrs Charles Oldfield*

*Edward & Patricia Petrick*

*Ruth Reeve*

*Bob & Susan Schmidt*

*George Slezek*

*Tom & Susan Teteak*

*Vestors Capial Corporation*

***Art & Edith Jackson***

*Wendy L de Monchaux*

***Rusty Lewis***

*Carl T Anderson*

*Carl & Betsy Anderson*

*Bob & Molly Appleford*

*Sara Jane Bald*

*Carroll & Mike Barr*

*Ned & Marcia Bearden*

*Lehman & Virginia Beardsley*

*Carl & Kelly Beeler*

*Ernest & Mary C Behnke*

*Theodore A. & Suzanne Bosler*

*Mary Bosseler*

*Linda Breuer*

*Dr. & Mrs Donald Buffmire*

*Ed & Leslie Butt*

*Mark & Linda Camel*

*Gil & Joan Campbell*

*Dean Chamberlain*

*John G. & Renee Cooper*

*E.F. & Nancy Cote'*

*Barbara Coye*

*Bob & Pam Currey*

*Jessie Dalman*

*Richard Davis*

*Barbara Desch*

*Louis & Johannah Dortch*

*Joanne Johnson Douglass*

*David L & Louise Fenner*

*Richard & Katherine Ford*

*Denis & Susan Frelinghuysen*

*Larry & Nancy Fuller*

*Russ & Jane Gesme*

*Bill & Jayne Gilligan*

*Maria J Golden*

*David W. & Juli Grainger*

*Ronald & Gaile Green*

*Kit & Chelle Greene*

*David Jr. & Linda Harpole*

*David & Cheryl Hawthorne*

*Dr. Phillip E. Hill & Dr. Elizabeth Rodgers*

*Jack & Joan Hughes*

*Robert L. & Ginny Istnick*

*Robert F. Jr. & Joyce Kirshner*

*Robert A. & Nancy Laubach*

*Paul H. & Suzanne Lee*

*Edward & Nancy Lyon*

*Anthony & Sally Mann*

*Susan Mason*

*Robert & Janice L. Mckee*

*Peter & Julianne McKnight*

# CRYSTAL LAKE & WATERSHED ASSOCIATION

*Robert & Joan Miller*  
*Kimball L. & Louise F. Morris*  
*James & Bruce Murray*  
*Margaret H. & Walter R. Nelson*  
*Richard NG-Yow, Tamara Upham*  
*Carol Rouse Nicholls*  
*Kyle & Joanne Otterbein*  
*Lloyd & Shirley Preston*  
*Charles O. & Clare Rodes*  
*Graham Satherlie*  
*Gregg M. & Chelin Satherlie*  
*Bob & Susan Schmidt*  
*Kathryn J. & Howard M. Simpson*  
*John M. & Mary Ann Slosar*  
*Patsy Smith*  
*Rolf & Kathy Stadheim*  
*Sam S. & Nancy C. Stewart*  
*Mr & Mrs Stephen O. Stubbs*  
*Suter Family Charitable Fund*  
*Suzanne J. Voltz*  
*Mary Mooney Webster*  
*Julie Weimer*  
*Dudley & Phyllis Whitman*  
*Frank & Beverly Winders*  
*Rey Hancock Winsky*  
*Charlie & Barbara Young*  
*Jo Ann Zavitz*

***Violet J. Lindner***

*Jack & Beth Kloskoski*  
*Tom & Susan Teteak*  
*Randy & Joan Woods*

***Dr. Isa E. Lindwall***

*Richard & Isabel Fisk*

***Cecil Pryor Jr.***

*Jan Pryor*

***Charlotte Reid***

*Chas H. & Elaine W. King*  
*Sam S. & Nancy C. Stewart*  
*Tom & Susan Teteak*  
*Randy & Joan Woods*

***Dusty and Skipper Rodes***

*Leslie & Michael A. Tuohy*

***Eugene Rogers***

*Margery Rogers*

***Diane Schaffner***

*S. Philip Schaffner*

***Dr. Robert Stocklin***

*Laura M. & Timothy Murphy*

***Esther Swern***

*Tom & Susan Teteak*

***Ivan Thorsen***

*Rose Marie Knudson*

***Lambert Trovillion***

*Mark Arnold & Kathryn Koch*  
*Bob & Susan Schmidt*



## 2008 CALENDAR

<http://www.clwa.us/calendar.htm>

- |                      |   |
|----------------------|---|
| <b>April 19</b>      | <i>CLWA Board Meeting</i>   |
| <b>April 25-27</b>   | <i>47th Annual Michigan Lake &amp; Stream Associations Conference</i>                   |
| <b>Mid-May</b>       | <i>Crystal Lake "Walkabout" - 5/6th grades (Benzie Central &amp; Frankfort/Elberta)</i> |
| <b>May 26</b>        | <i>CLWA Board Meeting</i>   |
| <b>June 14</b>       | <i>13th Spring Craft Fair – Frankfort</i>   |
| <b>June 28</b>       | <i>CLWA Board Meeting (tentative)</i>   |
| <b>July 4</b>        | <i>Parades and Fireworks – Beulah and Frankfort</i>                                     |
| <b>July 4</b>        | <i>Firecracker 5K Race - Beulah</i>   |
| <b>July 12</b>       | <i>Beulah Art Fair</i>  |
| <b>July 19</b>       | <i>Elberta Art &amp; Crafts Fair</i>  |
| <b>July 19</b>       | <i>Port City Run</i>  |
| <b>July 19</b>       | <i>Congregational Summer Assembly Arts &amp; Crafts Fair</i>                            |
| <b>July 19</b>       | <b>CLWA Annual Meeting</b>  |
| <b>July 23</b>       | <i>Crystal Lake "Walkabout" - Open to the general public</i>                            |
| <b>August 9</b>      | <i>Crystal Lake Team Marathon</i>   |
| <b>August 16</b>     | <i>33rd Frankfort Art Fair</i>  |
| <b>August 30</b>     | <i>CLWA Board Meeting (tentative)</i>   |
| <b>October 11</b>    | <i>CLWA Board Meeting (tentative)</i>   |
| <b>Early-October</b> | <i>Crystal Lake "Walkabout" - 7/8th grades (Benzie Central &amp; Frankfort/Elberta)</i> |

*Please check [www.CLWA.us](http://www.CLWA.us), [www.benzie.org](http://www.benzie.org), & [www.frankfort-elberta.com](http://www.frankfort-elberta.com)/ for local times.*