

WINONA LAKE PRESERVATION ASSOCIATION



What a Winter! Here Comes Spring!

Our board recently met in November and again in January. We voted on a couple funding projects that will have a very positive impact on our lake. I proposed duplicating the Healthy Shoreline Initiative grants which last year were successfully implemented by The Watershed Foundation for area lakes.

With that funding now concluded, WLPA's initiative will encourage Winona lakefront owners to have natural glacial stone sea walls built in front of existing sea walls or on open beaches. This helps reduce erosion and cut down on the wave rebounding action that damages not only the sea walls, from underneath erosion, but also suspends sediment, reducing water clarity and suspending nutrients that cause weed growth. Members would be prioritized with a \$1000 grant up to 25% of the costs.

The board discussed this program and agreed it aligns with the WLPA mission of protecting Winona Lake from erosion and improving

water quality. Please read the full article that follows for more information.

In addition we approved donations for the Lily Center for Lakes & Streams to include: \$500 Lake Fest, \$1,200 Expanded Lakes in Classroom (two aquariums) and \$2,000 Stream Sampling Project. Nate Bosch will give more detail at the annual meeting on April 24. I want to stress that your WLPA is more than a weed control organization.

The dam is raised/lowered semiannually and also during flooding. We collaborate with

DNR, Lily Center for Lakes & Streams and The Watershed Foundation identifying water quality issues and creating solutions. We act as a watchdog for water safety and water quality keeping Winona Lake in the forefront of the DNR, IDEM and area businesses; and we collaborate with Town of Winona Lake and City of Warsaw on storm water relating to water quality. We couldn't do these good works without your support! Thank you again for being a member! We look forward to seeing you in April at the annual meeting.

-Chris Cummins, President



Dr. Nate Bosch, Lilly Center for Lakes & Streams, presents water quality data to the WLPA board at a January 2018 meeting hosted at the Lieffring's.





The WLPA in partnership with The Watershed Foundation will provide grant assistance of up to \$1,000* to homeowners on Winona Lake, for shoreline projects that improve water quality and shoreline habitat, while reducing erosion and decreasing runoff. Workshop participants will receive priority in grant funding.

- stone re-facing of concrete seawalls
- bioengineered seawalls
- glacial stone seawalls

For more information and to register for the workshop contact:

admin@watershedfoundation.org
or **574-834-3242**.

*Up to 20 property owners

HEALTHY SHORELINES WORKSHOP

Beautify Your Shoreline And Protect Your Lake!



Thursday, May 17
6:00-8:00 p.m.

Winona Lake
Community Center
at the Beach
Park Avenue, Winona Lake

Visit on line at WatershedFoundation.org to learn more!

How Does Ice Effect Winona Lake?

By Dr. Nate Bosch, Director of the Lilly Center for Lakes & Streams

This winter, we have endured below-zero temperatures and inches of snow and ice. Although some brave the cold to go ice boating or fishing, for most of us, ice on the lakes brings water activities to a halt. This might lead you to assume that the lake itself becomes inactive in the winter months. But under that layer of frozen water, much happens!

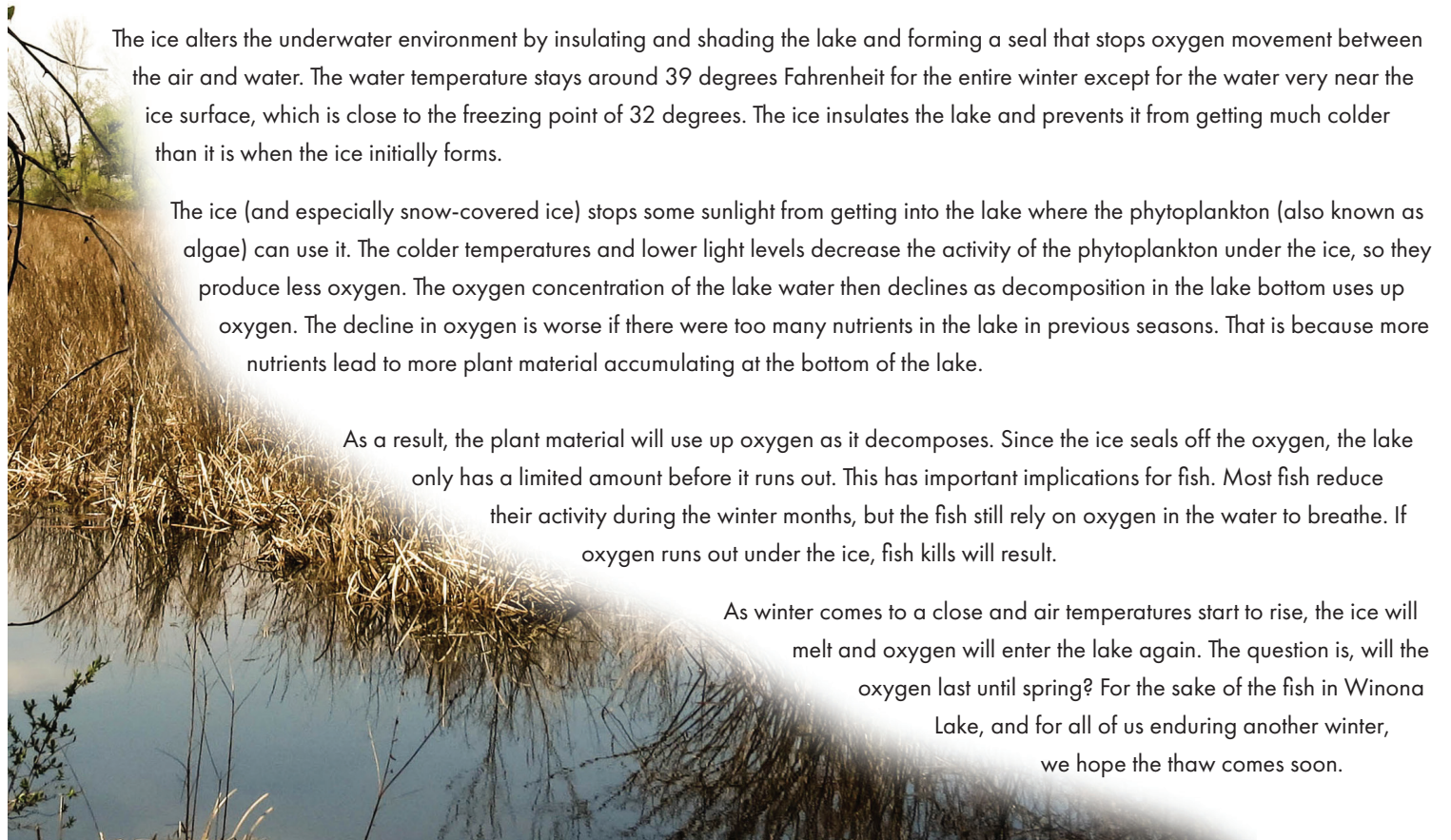
As air temperatures decrease over the winter, ice forms on the surface of the water. In northern Indiana, ice thickness is typically seven-to- eight inches but can get up to 24 to 30 inches in colder winters. But what does the presence of ice mean for the Winona Lake?

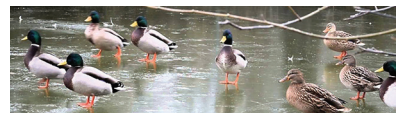
The ice alters the underwater environment by insulating and shading the lake and forming a seal that stops oxygen movement between the air and water. The water temperature stays around 39 degrees Fahrenheit for the entire winter except for the water very near the ice surface, which is close to the freezing point of 32 degrees. The ice insulates the lake and prevents it from getting much colder than it is when the ice initially forms.

The ice (and especially snow-covered ice) stops some sunlight from getting into the lake where the phytoplankton (also known as algae) can use it. The colder temperatures and lower light levels decrease the activity of the phytoplankton under the ice, so they produce less oxygen. The oxygen concentration of the lake water then declines as decomposition in the lake bottom uses up oxygen. The decline in oxygen is worse if there were too many nutrients in the lake in previous seasons. That is because more nutrients lead to more plant material accumulating at the bottom of the lake.

As a result, the plant material will use up oxygen as it decomposes. Since the ice seals off the oxygen, the lake only has a limited amount before it runs out. This has important implications for fish. Most fish reduce their activity during the winter months, but the fish still rely on oxygen in the water to breathe. If oxygen runs out under the ice, fish kills will result.

As winter comes to a close and air temperatures start to rise, the ice will melt and oxygen will enter the lake again. The question is, will the oxygen last until spring? For the sake of the fish in Winona Lake, and for all of us enduring another winter, we hope the thaw comes soon.





WINONA LAKE PRESERVATION ASSOCIATION 2018 MEMBERSHIP FORM

PO BOX 13 | WARSAW, IN 46581-0013

NAME: _____ SPOUSE: _____

LAKE ADDRESS: _____ ZIP: _____ PHONE: _____

MAILING ADDRESS
IF DIFFERENT FROM ABOVE: _____

CITY: _____ STATE: _____ ZIP: _____ PHONE: _____

EMAIL ADDRESS: _____

CONTRIBUTION LEVELS

☐ MEMBER \$50 ☐ BRONZE MEMBER \$100

☐ SILVER MEMBER \$200 ☐ GOLD MEMBER \$300 ☐ PLATINUM MEMBER \$500

Enclosed is a \$_____ check for my 2018 membership to continue the efforts of the WLPA.

Please return to: Winona Lake Preservation Association | P.O. Box 13 | Warsaw, IN 46581-0013.

OR You can go online and pay your membership fee through PayPal or simply sign on as a guest.

Visit: <http://winonalakepreservation.net>

FOR OFFICE USE ONLY:

MEMBERSHIP PAID IN THE AMOUNT OF: _____ DATE RECEIVED: _____

CHECK NUMBER: _____ TREASURER: _____

YOUR WLPA 2018 BOARD OF DIRECTORS

Chris Cummins, President, Ryan Weaver, Treasurer, Joy Lohse, Secretary, Peggy Lieffring, Chris Rankin,
Bill McCarrick, Dodge Elkins, Chris Sherrill, Art Gakstatter and Dave Higgins



Mission Statement:

*Winona Lake Preservation Association promotes aquatic conservation, lake education,
safety and recreational use of Winona Lake for our community.*



Save the Date!

WLPA Annual Meeting

Tuesday, April 24

Winona Lake Community Center

At the Beach

Refreshments at 6:30pm

Meeting at 7:00pm

WINONA LAKE PRESERVATION ASSOCIATION TREASURER'S REPORT CASH STATEMENT 2017

Beginning Balance, January 1st \$85,494.75

Cash In:

Dues and Donations	20,500.04
City of Warsaw - Parks Dept	2,500.00
Interest	<u>46.80</u>

Total Cash In:

\$23,046.84

Cash Out:

PO box fees and stamps	92.00
PayPal	65.55
Website, domain names, hosting	607.18
Newsletters, membership flyers, mailing	1,316.06
The Watershed Foundation	500.00
Lakes Festival/Center for Lakes & Streams -	
Lakes in Classroom	600.00
Boat Ramp Cards	500.00
Annual Meeting	682.30
WCDC - Fireworks	1,500.00
Weed treatment	<u>8,625.00</u>

Total Cash Out

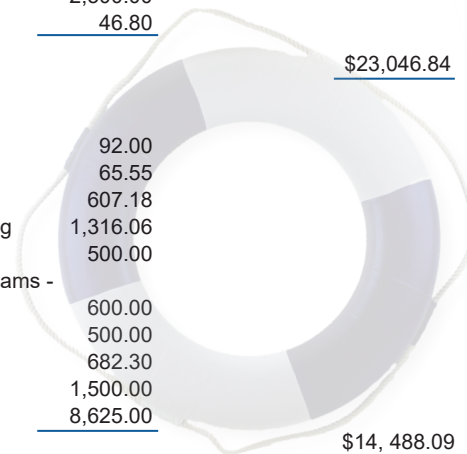
\$14,488.09

Net Cash In Flow

\$8,558.75

Ending Balance

\$94,053.50



WLPA NEWSLETTER • PO BOX 13 • WARSAW, INDIANA 46581 • 574.267.7500

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ADDRESS SERVICE REQUESTED

