



*"Let's keep our lake great"*

# WIND SWEEP

*The Lake Manitou Area Association Newsletter*

June 2014

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## Ice out on Manitou by Betty Heis

The ice was thick on Lake Manitou this winter, and for those of you who haven't seen LMAA member Betty & Doug Heis's submission to the Expositor, it is worth checking out.

Betty writes ... "We are home, we arrived home on March 12 after spending the winter in Florida. The ice was the most amazing thing to watch, Mother Nature at work. All of this happened so quickly once the ice started moving there was no stopping it. It was raining hard and the wind was blowing hard. Today we still have not been able to assess all the damage as our motor for the marine railway and the bunkers that the boat sits on are buried in ice, it has taken out several cedar trees in front and about 4 more over in the uncleared portion of our property."



According to Betty, the ice flow only lasted 15 minutes. This is the video that is posted on Manitoulin Expositor website <http://www.manitoulin.ca/lawneating-ice-monster-blows-in-off-lake-manitou/>



## Musings from Kingfisher Cove by Anne Moffat

Wasn't that a WINTER!!

I have never seen snow banks so high. All my "senior" friends say that this is the winter of our childhood. From December on Paul has burned more fuel in the four-wheeler, tractor, & snow blower than we have used in both of our cars. He was out plowing nearly every day trying to stay ahead of the snow. Every morning we usually look out and see Sandfield across the lake, but this winter it has been a rare sight to be





able to see even the nearest fish huts dotting the ice. The winds have been so strong.

There are waves of snow banks down our front yard that are nearly 10 feet high. They remind me of the huge waves that come crashing in on MacDougall's point on a windy day in summer. Paul climbed to the top of one drift and was higher than trees in the yard. He has used the snow blower to keep a path open to the composter behind the garage and another to let the dogs and my access the front lawn. He finally gave up clearing a path through the drift off the deck when it reached over 6 ft. Instead he cut steps in it to give the dogs and I a way over. The dogs jump up on the bank and Toby loves to lie on top and look down on us. Paul has managed to keep the road open for some of our cottage neighbours, but lately he has had to use the bucket on the tractor to lift the snow over the banks.

The snowmobilers are happy, as the trails are in great shape. Paul & Jason have kept our walking trails packed down with their snowmobiles, so even though it has been bitterly cold, we have not missed a day walking our two dogs Toby the Airedale & Fand the Irish Wolfhound. Sadly we lost Pippin our English Cocker who died suddenly before Christmas.



We all enjoy the walks, but if you step off the trail you are almost waist deep. We have not had deer come for almost two months, but the bunnies and fox can stay on top of the snow and travel all over. There is a huge wolf, “Judging by the size of his tracks “using our trails as well.

We have a pair of Cardinals as well as the usual winter birds but no redpolls only finches and no downy woodpeckers. There are more partridge tracks though, which is a good sign.

The snow is so deep on the lake that only snowmobiles are able to travel on it. Lots of ice nearly 3 feet. Lots of fish huts, and the fishing has been really great with many catching their limit regularly. Speaking of "ice" on Georgian Bay and Lake Huron there is ice as far as you can see. Looking out from South Bay Mouth the ice formations are impressive.



Another sight that will not escape your view will be the wind mills and cell towers dotted along the highway.

Well! Skating wraps up this week and heaven knows when we'll get out on the golf course, but I hope to eventually see you there. Anne.

## Manitoulin Streams Awarded

Manitoulin Streams would like to thank Brent Kennedy, Regional Director of the Economic Development Branch at Ministry of Agriculture, Food and Rural Affairs, for awarding us the Regional Premier’s Award for Agri-Food Innovation Excellence!

We would like to share this acknowledgement in partnership with our agricultural producers on Manitoulin Island that are true stewards of the land and water. We received \$5000, a gate sign and the use of the Premier’s Award wordmark for advertising our stream restoration program.



Seija Deschenes, Ted Williamson and Brent Kennedy

## Historical Tidbit – submitted by Pat Costigan



## Lake Manitou Phosphorus & Secchi Disk Readings by Michael R. Costigan

Thanks to **Alex Lohead**, our annual phosphorus and secchi disk readings were taken and submitted to the Ministry of the Environment’s “Lake Partner Program”. Follow the link [www.ontario.ca/lakepartner](http://www.ontario.ca/lakepartner) to view the history of Lake Manitou readings. The goal of the Lake Partner Program is to create a valuable, long term data base to evaluate the nutrient status of Ontario’s inland lakes. The program has grown to the point that in 2011, 793 sites were sampled in 491 Ontario lakes.

Total phosphorus concentrations are ideally used to interpret nutrient status since phosphorus is the element that controls the growth of algae in most Ontario lakes. Increases in phosphorus will decrease water clarity by stimulating algal growth. By sampling the total phosphorus each year it is possible to detect a change in the nutrient status of your lake. **Water samples are taken in the two (2) deepest areas of Lake Manitou....the Sandfield Basin and the West Basin annually.**

**Lakes are generally placed into three broad categories with respect to nutrient status.**

Lake Nutrient Status	Total Phosphorus	Secchi Depth
Oligotrophic (few nutrients)	10 micrograms / litre or less	Over 5 metres
Mesotrophic (moderately enriched)	10 – 20 micrograms / litre	3 -5 metres
Eutrophic (enriched –high nutrient)	20 micrograms / litre or more	Less than 3 metres

### Lake Manitou Total Phosphorus Readings 2012

	ug/L	May	June	July	August	September	October
Lake Manitou - West Basin	TP1	6.4	6	8.4	8.6	8.2	10.9
TP Readings 2013	TP2	7.8	8.2	5.4	12.8	8.6	9.0
	Avg. TP	7.1	7.1	6.9	10.7	8.4	9.95
Lake Manitou - Sandfield Basin	TP1	7.8	9.6	4.8	7.4	5.4	6.8
TP Readings 2013	TP2	9.6	6.4	4.6	10.2	5.8	7.4
	Avg. TP	8.7	8	4.7	8.8	5.6	7.1

❖ ug/L = micrograms per litre. A microgram is equivalent to .001 mg/

### Lake Manitou Annual Average Ice-Free Secchi Depth 2012-2008

Sandfield Basin			West Basin – Moody Bay	
Year	Secchi Depth (m)		Year	Secchi Depth (m)
2013	5.5		2013	5.0
2012	6.0		2012	5.6
2011	6.1		2011	6.1
2010	6.1		2010	7.2
2009	5.5		2009	5.7



## Information Night 2013 by Dave Anderson



Our 18<sup>th</sup> annual “**Information Night**” was held on August 13, 2013 with roughly 80 people in attendance.

Our feature speaker was **Calvin Crispo** who was working on the Island for the **Ontario Federation of Anglers and Hunters** as part of the **Invading Species Awareness Program**. He gave an excellent talk on the aquatic invading species in and around Lake Manitou.

Lake Manitou currently has two invading species present in its waters, the spiny water flea and the smelt. However, there are a number of species in other lakes on the Island and in Lake Huron surrounding the Island,

such as **zebra** and **Quagga mussels, round goby, rusty crayfish, and Eurasian water milfoil**. Calvin stressed the importance of being educated as to the types of invaders, and taking every precaution to prevent their entry into Lake Manitou.

### Some of the main tips are:

1. Don't empty your bait bucket into Lake Manitou.
2. Make sure to clean your boat after boating in other waters and before launching into Lake Manitou.
3. Whenever possible allow your boat to dry for several days after boating in other waters and before launching into Lake Manitou.
4. Don't transfer water from other lakes into Lake Manitou.



Paul Methner gave his annual review of the Blue Jay Creek Fish Culture Station activities. Lake Manitou is a very important lake for the provincial fish culture operations. Not only is it a source of wild lake trout eggs, but it is now a source of wild walleye eggs. Paul indicated that both lake trout and walleye are doing well in Lake Manitou and natural reproduction in the lake is keeping both populations healthy, as a result they have decreased the number of lake trout being stocked in the lake. It doesn't take many fishing days in the fall to reach their quota of eggs. They are collecting fewer lake trout eggs from Lake Manitou compared to a decade earlier because of changes in the provincial fish culture demands.

## “What the Frig is Fracking” by President Mike Costigan

FRACKING is a process of drilling sideways underground, then injecting fluid at high pressure to fracture shale (a kind of sedimentary rock) or coal formations to release the natural gas or oil trapped within. "Fracking" is short for horizontal high-volume-slickwater hydraulic fracturing. In the past, such fracturing was only done on vertical wells.

A single frack-pad can drill up to 16 wells horizontally in different directions underground. Each drilling site is the size of a football field and dotted with drilling rigs. A 1,000-site spread is not uncommon. The gas released by fracking can be either gas stored in shale or gas from permeable rock such as sandstone or limestone.

A well is fracked by a huge rotary drill to depths of 1-5 to 3 kilometres. When it hits gas or coal bearing shale, it continues to drill for another kilometre or more. The next step is to flush millions of litres of frack fluid - a slurry of water, sand, and chemicals - under great pressure into the bore to make cracks in the rock. The sand, keeps the cracks propped open.

Each fracking well uses somewhere between 9 and 29 million litres of freshwater over its lifetime. A typical 1,000-well fracking field requires two million litres per day during its peak, equivalent to the water use of 13,000 people. In communities already facing water shortages, this water loss from fracking can escalate the shortage to the crisis stage.

The more than 600 chemicals contained in the fracking fluid include many known toxins, acids, rust and scale inhibitors, gelling agents and solvents. If, say, 10 million litres of water are used to frack one well, that includes 50,000 litres of chemicals. When the frack fluid is retrieved from underground, it is now mixed with heavy metals such as lead and arsenic, and sometimes with radioactive substances leached from the rocks.

Disposal of the recovered frack fluid is difficult. Best practice is to reuse it, but often it is offloaded on ill-equipped municipal treatment plants, or even surreptitiously dumped. Much of the wastewater retrieved, evaporates before it can be disposed of, releasing toxic volatile compounds into the atmosphere. Lung-damaging ozone pollution is intensified when the evaporating frack fluid mingles with exhaust fumes from trucks at the fracking sites. As many as 400 tanker trucks carry water and supplies to each fracking site.

Although drilling rigs have casings of steel and cement, they are not impermeable. Up to now, casing failures have been rare, but critics point out that eventually all casings will fail. A punctured casing allows fluid to burst through, potentially contaminating aquifers with toxic chemicals and methane gas. Without leaks, between 40% and 70% of the fluid remains in the wells, effectively removing billions of litres of water from the freshwater supply.

SOURCES: Nature, World Energy Outlook, Energy Watch Group, Climate Justice, The [UK]Guardian, New Internationalist. (For more on fracking, see the article by Dinyar Godrej starting on p.12) CCPA Monitor (Canadian Centre for Policy Alternatives) February 2014

CCPA ONTARIO OFFICE  
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Note: This has been a topic of conversation on the Island this past winter.

## LMAA AGM 2013 Minutes

### Twentieth Annual General Meeting: July 13, 2013 10:00 a.m. Sandfield Schoolhouse

**Call to Order:** President, Mike Costigan, called the meeting to order.

**Consideration of the Agenda:** It was moved by Dave Rutherford and Ted Williamson to accept the agenda as presented. Motion carried.

First time new member attendees were welcomed and local community events announced. Hazardous Waste Disposal at Mindemoya Roads Building. Strawberry Social at Tehkummah.

**Directors and Committee Chairpersons attending were introduced:** Mike Costigan, Mark Harvey, Steve Mann, Paul Moffatt, Alex Lohead, Don Payne, Effie Williamson, Pat Costigan and Mary Lohead.

**Minutes of July, 2012 Annual Meeting** moved by Paul Smith and seconded by Nancy Foreman to be accepted as presented. Motion carried.

#### **Reports of the Officers:**

##### **Vice-President's Report: Paul Moffatt**

Paul represents our Association at Manitoulin Streams who seek to improve fishing and water quality and do stream restoration. Bickel's Creek at Gore Bay will have the second phase done in August with 3,000 trees and bushes and some in stream work. This is an important creek that runs into Gore Bay. Municipality of Central Manitoulin and Fed North are doing some structuring of the mouth of the Mindemoya River and putting in a large viewing platform and also a fishing platform. It is just out for bids next Tuesday. There was a large project at the Skippen's farm in the Green Bay area of Lake Manitou with two frost free nose pumps put in along with many trees and shrubs being planted. A few other small projects are in the works for Lake Manitou.

##### **Treasurer's Report: Don Payne**

Don's report showed a small net operating loss but finances are in good shape. Don submitted his report. LMAA books were audited by Marlene Dewar and Betty Heis. Moved by John de Chastelain and seconded by Paul Smith to accept the financial statement. Motion carried.

##### **Director and Newsletter Editor's Report from Michael R. Costigan**

(Report given by Mike Costigan Sr.) Michael wanted to thank everyone who made contributions to the newsletter as those contribution enrich the reading experience. We currently have 211 members who receive the newsletter electronically and 45 who receive the hard copy version. Please advise Michael R. Costigan if your E-mail address changes. We plan to send those who receive the newsletter by E-mail an electronic notice advising that the newsletter has been posted on the web site with a link to the web site included. Members who receive a hard copy will continue to do so.

##### **Web site Developer Report from Stan Salisbury**

(Report given by Mike Costigan Sr.) In October 2012, the LMAA Board approved his recommendation for the new web site. In November our web site went online. The web site can be accessed at [www.lakemanitouarea.ca](http://www.lakemanitouarea.ca) but unfortunately very few members have joined. There is information in the October 2012 and the March 2013 newsletters and instruction on how to join the site. Motion to move forward to upload LMAA membership data. Moved by Don Payne and Linda Edington. Motion carried. Stan Salisbury's E-mail is: [sasalisbury@cox.net](mailto:sasalisbury@cox.net) and his cottage phone number is 705-377-4982.

**Education Committee** (John Harvey, Mary Lohead, Pat Costigan) Report given by Pat Costigan. Lake Manitou maps and the Historical Tidbits have been very successful projects. We are into our second printing of both of these.

Information Night 2012 was also very successful with standing room only. Dan Burns, topic was “Water Management Choices”. Dave Anderson spoke on “Solar Energy - an Alternative?” Paul Methner gave us an



update of the status of fish stocks in Lake Manitou. Mary Lohead was thanked for her involvement and many years of tireless effort to maintain the quality of our lake.

Information Night 2013 date has been set for Tuesday, August 13 at the Sandfield School House.

Dave Anderson was introduced as a new director with the Education Committee.

Alex Lohead reported that water samplings for Lake Manitou were done by him and David Kains and the readings are close to what they were last year. Alex Lohead gave a 20 year review of our Association, which was originally called Lake Manitou and Sandfield Lake Association. He thanked Peter Edward and Mike Costigan for their great leadership. Mike thanked him.

#### **President's Report: Mike Costigan Sr.**

Mike keeps this general meeting to less than one hour and fifteen minutes. We have been able to keep the fees at \$20.00 as a result of good management by the executive. He thanked the members for encouraging others to join LMAA and keeping our membership strong and members involved. Some of the Executive attend FOCA meetings twice a year. We take water sampling, do buoy replacement, newsletters and communicate with the members as well as attending numerous meetings on Manitoulin pertaining to environmental concerns. LMAA has objected to the Davis McLay subdivision to be built near Red Lodge, as have the MOE and MNR. We are concerned about phosphorus load and the effect on oxygen levels in Green Bay which will affect the fish habitat. The OMB hearings are still in progress. Ontario Government is requiring nonprofit organizations to rewrite and update bylaws over a 3 year period starting in January 2014 with FOCA involved to help. FOCA fees will increase.

#### **New Business and Discussion Period**

Some concerns were expressed about the phosphorous and oxygen levels in the west area of our Lake. Thanks was given to the LMAA for the support that they give to Manitoulin Streams.

#### **Nominations and Elections**

SECRETARY: Effie's term is up. Mike Costigan nominated Effie Williamson for Secretary, seconded by Nancy Foreman. There were no other nominations and nominations declared closed by Pat Costigan. Effie accepted.

TREASURER: Don's term is up. Nancy Foreman nominated Don Payne for Treasurer and seconded by Anne Moffatt. There were no other nominations and nominations declared closed by John Harvey. Don accepted.


DIRECTORS: Alex's term is up. Jean de Chastelain nominated Alex Lohead for Director and seconded by Ann Moffatt.

Joel Dwyer's term is up. Jean de Chastelain nominated Joel for Director and seconded by Pat Costigan. All nominees accepted. Paul Moffatt declared the nominations closed.


**Door prizes** - Names were drawn and prizes awarded.


**Adjournment** Moved by Jerry Zelle and Mickey McKinny that the meeting be adjourned. All in favour. Meeting adjourned at 11:10 a.m.

## Member Notice Board

 The **2014 Annual General Meeting** is being held at 10:00 am. on July 12, 2014 at the Sandfield School house.

 **Information Night 2014: Tuesday August 12 @ 7:30 – Sandfield School house.**

 Thanks to Director Steve Mann who is now managing the sales of LMAA Apparel. If you are interested in ordering an apparel item please contact him..... [stephen.mann@sympatico.ca](mailto:stephen.mann@sympatico.ca)

 Thanks to the Betty & Doug Heis, Anne Moffat, Dave Anderson, & Mike & Pat Costigan for their contributions to this newsletter!

 **Death Notices** – The LMAA would like to acknowledge the passing of two long time members:

**Keith Carlson** passed away in October, 2013. Keith and Karen have been members of the LMAA for many years enjoying their cottage on Old Mill Road.

**Hazel Rowe** passed away on January 28, 2014 at the age of 87. Hazel and her husband Bill spent 30 summers at their cottage in Manitou Birches on Lake Manitou. She will be missed by her Manitoulin Island family!

 **Please keep your contact information up to date! If you have a change in mailing address or email address please forward to one of the following:**

Don Payne at [payne@interlog.com](mailto:payne@interlog.com) or Michael R. Costigan at [mikecostigan@hotmail.com](mailto:mikecostigan@hotmail.com)

 A reminder to members that submissions for any newsletter are always welcomed! Send submissions to [mikecostigan@hotmail.com](mailto:mikecostigan@hotmail.com) **Deadline for submissions for October 2014 newsletter is September 30, 2014!**

## **LMAA - Directors, Officers, and Project Coordinators**

<b>Title</b>	<b>Winter Address</b>	<b>Summer Address</b>
<b>President:</b> Mike Costigan, Silver Bay Road Area	20 Muskoka Court Kitchener ON N2B 3M2 519-576-1912 <a href="mailto:patriciawilliamson39@gmail.com">patriciawilliamson39@gmail.com</a>	186 Franks Rd W. RR1 Site15 Comp3 Mindemoya ON P0P 1S0 705-377-6640
<b>Past President:</b> Peter Edward		
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<b>Director:</b> Jim Booth Eagle's Nest Area	32 Gloucester Court Sudbury ON P3E 5N5 705-673-6684 <a href="mailto:boothj@vianet.ca">boothj@vianet.ca</a>	327 Wilton Trail Manitowaning ON P0P 1N0 705-561-5919
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<b>Director:</b> John Coulter Rockville Area	3380 Military St Port Huron MI 48060 810-987-7527 <a href="mailto:coulterslanding@comcast.net">coulterslanding@comcast.net</a>	54 Manitou Haven Trail RR1 Mindemoya ON P0P 1S0 705-377-4709
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<b>Director:</b> Mark Harvey Silver Bay Road Area	16 Varsity Ave. Sault Ste. Marie ON P6A 5T8 705-949-1515 <a href="mailto:mharvey102@hotmail.com">mharvey102@hotmail.com</a>	156 Johnston Rd RR1 Mindemoya ON P0P 1S0 705-377-5269
<b>Director:</b> Alex Lohead Sandfield –Tehkummah Area	38 - 9 Cadeau Court London ON N6K 4T5 519-473-0597 <a href="mailto:jaloche@hotmail.com">jaloche@hotmail.com</a>	15 Lyons Lane Box 9 RR3 Tehkummah ON P0P 2C0 705-859-3505
<b>Director:</b> Steve Mann Rockville Area	51 Donnybrook Rd London ON N5X 3C7 519-661-0004 <a href="mailto:stephen.mann@sympatico.ca">stephen.mann@sympatico.ca</a>	220A Demmys Road Mindemoya ON P0P 1S0 705-377-7950
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<b>Education Committee:</b> Dave Anderson Mary Lohead (Advisor) John Harvey	See above <a href="mailto:renee.anderson@sympatico.ca">renee.anderson@sympatico.ca</a> <a href="mailto:jaloche@hotmail.com">jaloche@hotmail.com</a> <a href="mailto:thorajohn1@rogers.com">thorajohn1@rogers.com</a>	Phone:  705-859-3505, 519-473-0597 705-377-5269, 519-537-2996
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