

Shorelines



A Publication of the Lauderdale Lakes Improvement Association (LLIA)

WWW.LLIA.ORG

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MESSAGE FROM THE LLIA PRESIDENT

Hello to all Lakers!

This past quarter has been an exciting and very busy period. We had two great events. We celebrated our 110th Anniversary of the LLIA Incorporation in November of 1906 at our Annual meeting in June. In July, we had our annual Children's Fish Jamboree at the famous Landings Restaurant. Both events were a great success. I wish to thank Brian Walsh and his team of helpers for a great event. We had over

organizations, LaGrange/ Lauderdale Fire Dept. and especially Lutherdale for their help and assistance.

I must sadly mention the passing of Al Busa. Please read the enclosed obituary written by Marilyn his wife.

Please enjoy this issue of Shorelines. We have two new contributors to the Shorelines: Jeff Bluhm, Executive Director of Lutherdale and Shannon Haydin Walworth County Land Use and Resource Management, Deputy Director/County Conservationist. Please take a look at their interesting and informative articles.



70 children participate at the jamboree. Also, I wish to thank Floyd Pochowski and his volunteer staff for putting together a great anniversary picnic at Lutherdale. There was more than 220 people attending the celebration. Thanks to all the Lauderdale

The balance of the Shorelines is packed with great articles. Take a look at our History Article on the subject our Lauderdale Dam by Kathryn Calkins or how about that picture of the cute boy in the KMLT article.

Articles Inside This Issue

<u>Articles Inside This Issue</u>	<u>Page</u>
Lauderdale –LaGrange Topics	2
Allen Busa	2
LLIA 110 Anniversary Celebration	3
Shannon Haydin Article	3
Lake District Topics	4
Sailing Club	5
Web Site Report	5
Lauderdale History Article	6
Fish Committee Report	7
Kettle Moraine Land Trust (KMLT)	8
Water Quality Report	9
Lutherdale News Article	10
Lauderdale Yacht Club Article	10
Lauderdale Aqua Skiers	11
Lake Management District Report	12
Audrey Green Article	12
Water Safety Patrol	13
New Ordinances	13
Terry Pier Status	14

So much information is packed into this Shorelines: The Yacht Club , Agua Skiers, Sailing Club and so many more organizations have contributed .

We had so much participation that we had to limit space for some great photos. Hopefully you will be able to view them on our web site or in a future publication of the Shorelines.

Dave DeAngelis

LAUDERDALE-LAGRANGE

TOPICS

By Don Henderson

LAUDERDALE-LAGRANGE FIRE DEPARTMENT

Steak Fry Fund Raising Event

This year another successful Lauderdale-LaGrange Fire Department Annual Steak Fry fund raising event was held Saturday August 13th at the Landing Restaurant on Lauderdale Lakes. This is a major fund raising event for the Department, and funds will be used to purchase new Self Contained Breathing Apparatus. Each Fire Fighter entering a burning building must wear a SCBA to assure they breathe clean fresh air even though they are in smoke filled rooms. The Department plans to purchase 16 new SCBA high pressure design units and an extra 20 high pressure backup tanks this year.

The Department Fire Fighters extend a special thank you to the Lauderdale Landing Restaurant owners, the Healy family, and their staff for hosting this special event on their Lake Shore patio and grounds. This is very special because the Lauderdale-LaGrange Fire Department was started by Lauderdale Lake residents and Town of LaGrange farmers over 50 years ago with a meeting at this location.

All Fire Fighters extend their heartfelt thanks to all the area residents for supporting this event and the many other ways that you support the Lauderdale-LaGrange Fire Department throughout the year. Our Lauderdale-LaGrange Fire Department is totally supported by volunteer members from our community. Fire Chief John "Curly" Duerst said, "Our Lauderdale-LaGrange Department is able to serve the community successfully because you support our Department needs to have modern up to date Fire Trucks, an Ambulance and the necessary equipment to allow our Fire Fighters/Emergency First Responders to safely and effectively respond to emergency needs, whether it is a fire, an accident, or a life threatening personal emergency. Thank you for being our partner in this important community service."

Fire Department Opportunities

The Lauderdale-LaGrange Fire Department is truly a Volunteer Department. Fire Department Fire Fighters and Emergency Rescue Medical Technicians totally volunteer their time. This is a major commitment to our community and we are very fortunate that some 38 to 40 members have this dedication to service.

As in every organization there is some turnover in member participation, and the Lauderdale-LaGrange Fire Department is seeking new members at this time. If you or someone you know would like to have a great experience working as a volunteer with a talented team of men and women serving this community as a Fire Fighter and/or Emergency Medical response team member please tell them about our Department. "Volunteers continue to be the vital link making this department a success," related Fire Chief John "Curly" Duerst.

Please spread the word that The Lauderdale-LaGrange Fire Department is seeking new volunteers to become Fire Fighters and Emergency Medical Technicians. For those of us living in the Town this could be a life or death situation. Quick response time by both the EMT and Fire Fighters has helped many residents and property owners.

Men and women volunteers are needed now, and if you or someone you know is interested please call Chief Curly Duerst at 262 495 8610. Especially needed are those people that could be available during the weekdays.

Will A Fire Truck Reach Your Home?

This year we have had abundant rain and lots of great growing weather. Fire Trucks need a full 12 feet of clearance both vertically and horizontally to enter your property. Take a look at your trees and plantings now and plan to have them trimmed this winter to assure Fire Trucks or Ambulances can reach your home without being damaged. Remember that Oak Trees trimmed in the months of April to October may be infected with Oak Wilt and this could kill your trees. So plan now and this fall for pruning during the winter months.

A Working Smoke Alarm Saves Lives

Whether you rent an apartment or own a home, an inexpensive smoke detector is a must. Approximately 90% of all homes in the U.S. have at least one smoke alarm. However, an alarm must be properly maintained in order to work. Safety experts state that alarms should be in every bedroom as well as other strategic locations in your home. It is recommended that you check all your smoke alarms in your home and in your lake home every month. Most can be checked by pushing a button on the unit. And even the smoke alarms that have 110v electrical supply also have a battery backup. The alarm manufacturers recommend that batteries are replaced annually. It is often good to change the battery when clocks are set back in the fall at the conclusion of daylight savings time. Take a minute and check you smoke alarms today.

ALLEN BUSA By Marilyn Busa

Lauderdale has lost one of its patriots. Allen Busa, husband of Marilyn, recently passed after succumbing to his struggle with cancer. He leaves a legacy of appreciation of our lakes and surrounding areas. Al first learned about Lauderdale Lakes when he and Marilyn began dating back in their college years and they would visit Marilyn's relatives who had resided in the area since the late '20s - Grandma and Aunt on Pleasant Lake and another Aunt & Uncle on Mill Lake. All of this was pretty good news to him as in those days as fishing was one of Al's favorite pastimes. Eventually Al and Marilyn married and a while later officially joined the Lauderdale family when they purchased a fixer upper. Al was a very handy guy who tackled some daunting remodeling tasks. Friends and family knew where to find him on weekends for years, and he rose to the challenge of helping many in the area.

As they settled into the rhythm of the lakes area, Al and Marilyn became involved in this very special community and had the good fortune to make many wonderful friends. They were married for 52 years and throughout this time, made many contributions to our lake organizations. Al was an independent insurance agent, and as such was very helpful to the LLIA, the Lake District and the Kettle Moraine Land Trust in helping them select their insurance requirements. He served as a Director of the Improvement Association and the Yacht Club as well. As such Al and Marilyn were involved in numerous activities sponsored by each organization. In addition, he served on the Town of LaGrange Plan Commission for many years.

Al was a friend to many, enjoyed a good time, loved to travel, enjoyed reading on a wide variety of topics, actively collected historic post cards (especially boats and local lakes) and cherished classic boat memorabilia. He thoroughly enjoyed sharing and discussing these collections with others who shared the same interest in the history of the area.

Even though as an adult he was diagnosed w/ Muscular Dystrophy, he tried not to let it slow him down. Even though later in his life this disease stole much of his strength, he rarely complained. He continued to participate in the social activities the area offered. There were countless Friday nights enjoyed at the Sterlingworth fish fries and the neighborly conversation shared at the bar downstairs following dinner. He also enjoyed the occasional Sunday afternoon big band concert for both the music and the gathering of friends and acquaintances.

(Continued from page 2)

It is probably safe to say that his favorite pas-time was to cruise our lakes in his '37 Chris Craft runabout w/his first mate Marilyn. Going for a boat ride was always the highest priority – especially in the Chris at sunset on a calm evening. At Al's memorial service on August 2, a friend chose the following words to describe him: Glint in his eye – impish humor – no mean words – never, for a second, lacked integrity. Thanks, Al, for the memories and for your many contributions – You will be missed!

**“WE ARE WIRED FOR 110”
By Bud Vance**

On June 11th the Lauderdale Lakes Improvement Association celebrated its 110 year anniversary of granting a “Charter of Incorporation” in November of 1906.



There were over 220 people attending the celebration. There was a “Cool Car Corral with many Corvettes, a special Ford GT and many other neat cars. There was great food, live entertainment, prizes, face painting and games for the kids. Many booths were set up representing a number of Lauderdale organizations.

If you missed the party you missed a good one.

Thanks to all the many volunteer organizations that helped to make this a success: Town of LaGrange, Lutherdale Bible Camp, Yacht Club, Sailing Club, Kettle Moraine Land Trust, LaGrange/ Lauderdale Fire Dept. and LLIA Board.

And last but not least, thanks to those that contributed to offset the expenses of this event.



The Celebration was a great success thanks to the efforts of the 110 Picnic Committee chaired by Floyd Pochowski and its members; Jim Dion, Jane Larsen, Jackie Rumer and Pauline Vance.



**CHANGES COMING TO
WALWORTH COUNTY
SHORELAND ZONING
ORDINANCE.**

**By Shannon Haydin,
Walworth County Land Use and
Resource Management
Deputy Director/County Con-
servator**

The Walworth County Land Use and Resource Management Department (LURM) is tasked with implementing regulations

CALENDAR OF EVENTS	
2016	
DATE	EVENT
9-3	Lake District Annual Mtg.
11-5	LLIA Director Mtg.
2-18-17	LLIA Director Mtg

and programs that protect the water resources we so highly value in Walworth County. Through regulatory and voluntary conservation efforts, improvements to the lakes and streams in the county continue to be made. However, we still have not achieved all of the goals in the Federal Clean Water Act that all bodies of water are drinkable, fishable and swimmable.

Walworth County gains its authority to regulate properties within the Shoreland-Floodplain District from Wisconsin State Statutes Sections 59.69, 59.692 and 281.31. The State of Wisconsin sets standards for compliance with these statutes in its Administrative Code, Natural Resources 115 (NR115). In 2010, the Department of Natural Resources made changes to NR115 and, pursuant to state statutes, required counties to adopt these changes. Subsequent allowances for postponing adoption of the 2010 standards and recent changes made to the statutes by the state legislature through Acts 55, 167 and 391, have resulted in the need for the County to make changes to the Walworth County Shoreland Zoning Code.

On September 13th, 2016, the changes to the Walworth County Code will become effective. One major change that will be implemented relates to limits on impervious surfaces (surfaces that do not allow water to pass through and infiltrate into the ground). Impervious surface excludes frozen soil but includes rooftops, sidewalks, driveways, parking lots, and streets unless specifically designed, constructed and maintained to be pervious.

(Continued on page 4)

(Continued from page 3)

Numerous studies from all over the world have shown that as impervious surfaces in a watershed increase, the water quality and the quality of the aquatic environment begin to diminish at about 12% impervious, with significant reductions in water quality at 30%. For this reason, the Department of Natural Resources wrote into NR115 limits on impervious surfaces for properties within 300 feet of the Ordinary High Water Mark of any navigable stream or lake.

So, what does this mean?

Within 300 feet of lakes and streams, landowners may:

- Keep the impervious surfaces you have.
- Expand impervious surfaces up to 15% of the area, or 30% of the area on highly developed shorelines within 300 feet of the lake or stream, with a permit.
- Expand impervious surfaces between 15% and 40% of the area (depending on whether or not the property is within an area designated as “highly developed”) within 300 feet of the lake or stream with a permit **and** the implementation of mitigation measures.

Common Questions

Example 1: My property is on a shoreline that is **not** considered to be highly developed. I want to expand my driveway and add a patio. My percent impervious is already 20% on my lot. With these improvements, my lot will have 27% impervious surfaces. What are my options?

- Do not proceed with the project.
- Develop a mitigation plan to reduce the impacts of the new impervious surface. However, the percent impervious for a property on a shoreline not designated as “highly developed” can never exceed 30% unless a variance is granted.
- Treated surface as defined in the Zoning Code.

Example 2: My property is on a shoreline that is designated as “highly developed”. My lot is 40,000 sf. I plan to tear down the existing house, add a new house, detached garage, driveway, side-

walks and patio. The total area of all of these impervious surfaces is 14,000 sf (35% impervious). What are my options?

- Reduce the scope of the project to 12,000 sf.
- Engineer and design of the impervious surfaces to pervious (e.g.- permeable pavers for driveways and walkways) to reduce the percent impervious.
- Move forward with the project and implement mitigation practices to reduce the impact of the impervious surfaces on the waterway.
- Impervious surface calculations may exceed runoff treated.

What are examples of mitigation practices? How does mitigation work?

- The County Shoreland Zoning Ordinance sets the standards and assigns a point system to each mitigation practice installed.
- In Example 1, the increase of impervious surface is 7%, which would require mitigation practices equal to 3 points. Examples of mitigation are as follows:

- ⇒ 1 point for every 5’ of permanent native shoreyard buffer from 35’ to 75’
- ⇒ 1 point for every 5’ of buffer perpendicular to the shore from 35’ to 75’
- ⇒ 1 point Reduce width of view/access corridor for every 5’
- ⇒ 1 point No shore yard lighting
- ⇒ 1 point Planting/restoration of a primary buffer 1 pt for every 7’ depth of buffer (max of 5 points)
- ⇒ 1 point Increase shoreyard setback – 1 point for every 5’ of increase
- ⇒ 1 point Permanent plantings (native forbs/shrubs) to screen existing retaining walls 1 pt/35’
- ⇒ 1 points Removal of retaining wall - for every 100 square foot of face area
- ⇒ 2 points DNR approved rip rap or vegetated shore treatment
- ⇒ 2 points Code compliant POWTS/ sewer (installed after 1980)
- ⇒ 3 points Removal of second access to shore
- ⇒ 3 points Rain garden
- ⇒ 3 points Roof runoff collection system
- ⇒ 4 points Removal of legally constructed sand beach/pea gravel

- ⇒ 2 points No grade change within 75 feet of OHWM
- ⇒ 4 points No boathouse
- ⇒ 5 points Preserve existing permanent native buffer (OHWM extended 35’ landward)
- ⇒ TBD points Other method approved by LURM based on proposal and points assessed based on impact

How do I know if my property is considered to be on a “highly developed” shoreline?

- A list of the properties considered highly developed can be found on the County’s website.

As always, if you have questions you can contact the Land Use and Resource Management Department at 262-741-4972 and talk to zoning staff.

LAKE DISTRICT TOPICS

By Peter Van Kampen

Piers

The Pier Inspector reports that we are having a good season with an average number of pier replacement applications. If you have the need to replace you pier please contact Andi at 262 903 0057.

Septic Program

The program of inspecting and pumping septic systems is running very smoothly. You may call me 742 2567 or Andi at 903-0057 if you have questions. We truly appreciate your cooperation.

Blue Spruce Fungus

I have been told by an Arborist that the Blue Spruce in my front yard have a fungus that is killing the tree. The inside and especially the lower branches are losing lots of needles. He says its treatable. Since then I have noticed a lot of them with the same look around the Lakes. If one is in your yard its not too late to save it. Note:

(Continued from page 4)

I checked some web sites and there are different types of Blue Spruce diseases some are treatable with fungicide and others are not.

Check the web: Here is one web page explaining one disease that is not treatable and another that is: <http://www.extension.iastate.edu/harrison/news/common-diseases-blue-spruce>.

Arborists are listed on line. Type in Arborist, Elkhorn WI. I have used "Care of Trees" out of Lake Geneva (248 1016) and M & E in Elkhorn. (249 6263) Good luck.

Long term planning- Recreational activities

1. Since a **walking path** around the perimeter of the golf course was a very popular item on the original survey by UWM we have been spending a good deal of time researching it. During our research we learned that the folks living on Country Club Dr. has some strong thoughts on the subject. We decided to have an informal meeting with those folks to get their input. We had a good turnout and most of the people in attendance had a chance to speak.

To keep it simple, they like the status quo a lot and are not in favor of a designated path along that part of the golf course. Reasons include safety, privacyxxx . One participant pointed out the number of walking trails that existed within a 15 mile radius of the Lake which is something we had not considered. We also discussed the current fence along that part of the golf course. Almost all were in favor of leaving it as it is. We appreciate the time people took to share their views. If anyone in the Lake District has input to share please send me an email: pvk1655@gmail.com

2. **Pickle Ball**. This is a very popular sport and growing fast. We have visited several communities in Florida to get more information about it to help determine if this is something we should consider as part of our long range plan. There is no doubt that it would become popular here but there are some issues. The sound of a pickle ball game is not like tennis. The paddles are hard and so is the ball. You

can hear a game in progress for quite a distance. We think it could be a major distraction to golfers, neighbors, and almost anyone in the vicinity of the clubhouse. The industry has introduced quieter paddles and balls but the noise remains an issue. We attempted to get the Elkhorn School board to paint lines on one of their 8 tennis courts at the high school, even if just for the summer, but so far they are resisting. Because of it's extreme popularity, we will continue to consider this in our future plans.

3. **Bocce Ball**. This is another popular and growing sport. First off, it is very quiet and relatively inexpensive to build one or more courts. It lends itself to being near the golf course and clubhouse without interfering. It is definitely in our long term plans.

As I mentioned above, please feel free to contact me with any suggestions you have or go to the Lake District Web Page Lauderdalelakedistrict.com and you can provide us feedback on any aspect of the long term plans. Also ,when on the webpage, please give us your email so we can keep you up to date with some of the more important issues on which we are working on your behalf. Thank you.

SAILING CLUB By Peter Van Kampen

Great competition going up Middle lake.



Dave Cleveland, Des Johnson, Sam Johnson, and Joe Kovarik, Des, in the yellow, boat is 91 this yr.



Michael age 18 wins his first race. He is the youngest sailor to ever win a race in our Club's 49 yr history. Proud parents are Tom and Jodi Engel

We are having a great year in the club. We have 23 boats and average 17 on the starting line each Sunday morning. Most races are at 10:00 on Green Lake but we try to have at least one on Mill and Middle Lakes during the season. Thank you, without knowing you, to the Wake Boats who use another lake during the hour or so we are sailing. You wouldn't believe how disruptive the huge wake is on a 400 pound sailboat.

WEB SITE REPORT By Kevin Henderson

Visit www.LLIA.org to find information about what is happening around the lakes, current topics of interest, editions of Shorelines, Directors' Meeting notes, links to area resources, and much more.

We are continuing to evaluate options for a new look and additional functionality. Three options are being explored to compare look & feel, ease of maintenance, functionality, and costs. Results of the evaluation will be shared at an upcoming Directors meeting.

We have a need for additional expertise on our web team. If you have skills in website management, or image/graphic management, we would enjoy having you join the website committee! Please contact Website Committee Chair Kevin Henderson for more information at 847-845-1147. Thank you!



**LAUDERDALE LAKES
HISTORY ARTICLE
By Kathryn Ingle Calkins**

*Sawmills and Hydropower
at Lauderdale's Dam*

Behind the Sterlingworth condominiums on Mill Lake, Lauderdale's dam operates without much fuss, releasing lake water into Honey Creek. The water flows through culverts under a road leading to the condos and creates a small pond before flowing over the dam and into the creek.



The current dam guides water down a slanted surface and under the old hydropower room.

By regulating the amount of water flowing through the culverts the Lauderdale Lakes



A metal plate covers the hole in the wall where a turbine extended out under the water

Management District controls the lakes' depth. However, the dam has served other purposes at certain times, powering both a mill wheel and an electric generator. This August, the last vestige of those operations will disappear. A portion of the old dam works will be razed because of safety concerns. The History Column got a look at the place to document it before the demolition.

According to *A History of the Lauderdale Lakes* (1992; Robert Brown and Patricia McCormick), Amasa Bigelow from Nova Scotia bought at the property around the present dam in 1837. He built a sawmill on the property—possibly where the culverts are now-- using the water flowing into

Honey Creek to turn a wheel that powered the saw. Later, Bigelow added a grain mill as well. To help increase power, he built a channel to direct the water and placed removable boards on the lake side of the water wheel each night to allow water to accumulate there for the next day's power. Many early area homesteaders bought lumber made at the mill to build their homes. By 1915, however, docu-

ments note that the mill wheel and equipment had been dismantled and the dam was functioning only as it does today to maintain the lake level. In 1907, the Improvement Association had come to an agreement with the owners of the dam that it would maintain the structure and keep the lakes at a certain level from May to October each year. The Association eventually bought the dam outright.

Records related to the dam kept by the Management District show that in 1928, attorneys Thorson and Seymore of Elkhorn proposed building another structure at the dam on behalf of B.W. Dennison, who owned the Sterlingworth Hotel at the time. The attorneys may have been submitting their proposal to the Railroad Commission of Wisconsin, which governed water power matters. Dennison had the Herman Andre Electrical Co. build a concrete room whose roof meets the height of the pond surface and whose floor is probably 12 feet below. One wall is therefore part of the side of the pond, while a person can walk

down the slope toward Honey Creek and into the room on the opposite side.

According to Peter Van Kampen of the Management District, the room housed a



The stone seating outside the door of the hydropower room

hydropower generator attached to a turbine that stuck out the wall on the pond side. Water from the pond flowed through a hole above the turbine, dropping down and turning it. The turbine charged the generator—or “dynamo” as Van Kampen said it was called—which sent power to the hotel through wires in the wall. The water then continued under the room to the creek. *A History* confirms that hydroelectric power did provide indoor and exterior lighting at the hotel for a few years. However, it says, the project was eventually abandoned because of high maintenance costs and debris clogging the equipment.

Nevertheless, the hydropower works was probably a point of pride for the Sterlingworth. The front of the sunken building boasts a tall window divided for large panes of glass, a bracket for a flower box and stone seats on either side of the doorway. Hotel guests may have been encouraged to stroll down for a look at the machinery and perhaps a break from the summer heat in this cool grotto below lake level.

The current dam, built in 1962, stands on the pond side of this old building. Water flows down a concrete slant from the pond and under the floor of the hydropower room to the creek beyond.

(Continued from page 6)

Herein lies the problem. On a summer day, the still pond water looks inviting, but anyone swimming there who gets washed over the current dam will end up under the floor and probably drown. The Wisconsin DNR also worries that in a flood situation, water could get held up there and break loose all at once, causing heavy downstream damage. The little hydropower room will therefore be demolished except for its side walls, so that Lauderdale water can flow freely and uncovered into Honey Creek.—

FISH COMMITTEE REPORT By Brian Walsh



As summer 2016 is rapidly winding down, I promised the Shorelines Editor I would keep my August article short. And a promise is a promise. So with this in mind, I am going to focus on recapping another successful kids fishing jamboree. Before I get into the jamboree recap, and the kids fishing contest results as well, I do have one request for all of you. As summer wraps up, please consider making a donation to the fishing committee in 2016. We will be stocking three different types of game fish later this year, installing 4 more fish cribs,



and working with the WDNR to improve



Lauderdale's fish population.

On July 16th, we had over 65 children participate in the kids fishing jamboree.

While the fishing was difficult, having a good time was easy. The jamboree was a huge success thanks to our great volunteers, including the LaGrange Volunteer Fire Department, the Water Safety patrol, the Kettle Moraine Land Trust, the Lakeland Animal Shelter, the Lauderdale Lakes Yacht Club, and all the volunteers who helped gather prizes, herd cats, and make sure everyone had a great time. Most importantly, I

would like to thank the Lauderdale Land-

ing for once again donating the lunch for the event, but also the use of a great meeting location. Thanks Landing!

This year, all participants got prizes that included water guns, fishing tackle, fishing cards, wooden pop guns, and other great prizes. Additionally, all participants received an ice cream lunch donated by the Corcoran's. Is that great or what?

Once again we held a fishing contest during the jamboree. And this year in our age group of 10 and under, the competition was fierce. Taking third place was Holten Densmore. In second place just behind the biggest fish caught was Rileigh Jacobson, who showed her grandpa a thing or two of how to catch the big ones. And taking first place with the biggest fish of the entire day was Hunter Ellis. I think Hunter may have to give his Papa and Dad a

few tips.

In the 11-16 year old category, a new champion was crowned. In his attempt at a three-peat, Connor Walsh fell a little short (pun intended) and finished in third place. In second place with an impressive catch was Molly McGuire, showing the boys how it's done. And in keeping the tradition alive, of the winning fish being caught under the guidance of Pat Belzer, Bobby Belzer took the tournament with the first place fish. Way to go Bobby.

In closing, I wanted to personally thank all the volunteers who contributed to make the kid's jamboree such a success. It's been fun, and I hope to see you on the lake.



KETTLE MORaine LAND TRUST

By Dave DeAngelis

I hope you all are having a great summer with friends and family. KMLT has had an exciting and productive 2016. That said, I want to take a moment and provide you with a quick update of KMLT successes and accomplishments over this past year.

- On the environmental education front, our May Bird Walk event was a terrific success. We are also **on** completed Student Field Days with Elkhorn, Darien Delavan, and Whitewater School Districts.
- We hosted a fabulous nature experience for the participants at this year's Fish Jamboree! Children were thrilled to see and touch water critters like frogs, crayfish and water striders. They learned from our volunteers how keeping Lauderdale Lake clean promotes wildlife.
- We received a grant from the White-water Community Foundation to support community nature based events (Nature Nourishes Body & Soul). This young participant eagerly gathered wild raspberries and added the ones he didn't eat to a shared salad.
- We've approved a project to build a new trail entrance at Petersen Island Woods Preserve with a commemorative brick structure at the trail entrance.



- We completed a successful prescribed burn at Beulah Bluff Preserve.
- Our Beulah Bog SNA volunteer partnership continues to make great progress removing invasive species.

As President of KMLT, I want to thank all of you for your support of our organization. We would not be able to do what we do without you. If you've not contributed to KMLT this year, please consider doing so. I also encourage you to consider attending one of our exciting upcoming events – please visit our website OR check us out on FACEBOOK.

Become a Kettle Moraine Land Trust Member

Join us in becoming a Kettle Moraine Land Trust member with your tax-deductible membership. In addition to supporting KMLT work, members receive newsletters and notices of special events.

Yes, I would like to become a Kettle Moraine Land Trust member!

Name: _____

Address: _____

City: _____ State: _____

Zip: _____ Phone: _____

Email: _____

Please mail this completed form with your check to:

Kettle Moraine Land Trust

**P. O. Box 176
Elkhorn, WI 53121**

KMLT is a 501(c)(3) not-for-profit organization.

Membership Levels

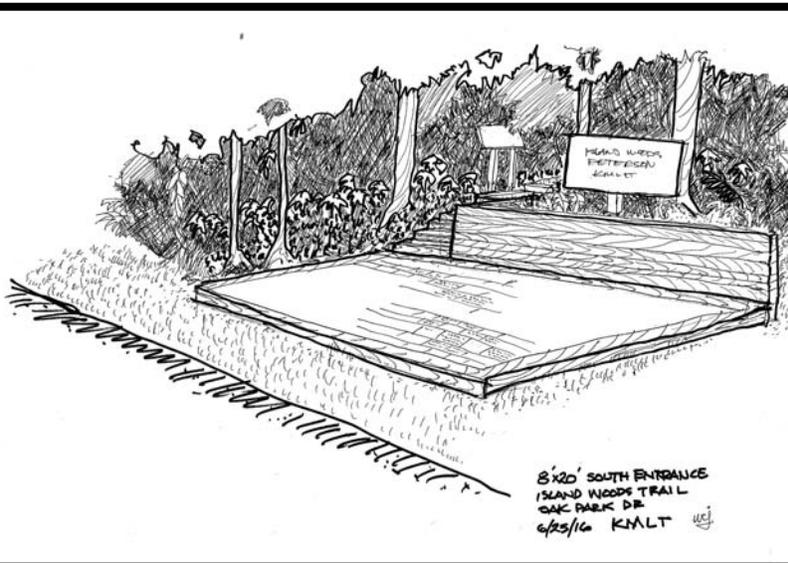
Member \$35 - \$99 _____

Conservationist \$100 - \$249 _____

Naturalist* \$250-499 _____

Visionary* \$500 - \$999 _____

Legend Builder* \$1000 and up _____



WATER QUALITY UPDATE FOR LAUDERDALE LAKES

By Dave DeAngelis

Phosphorous Levels

So far this season we've collected 10 sets of data and submitted 3 sets of water samples to the Wisconsin DNR for phosphorous and chlorophyll analysis for all three of our lakes. Year to date, all phosphorous readings are slightly below average and continue to show a very slight downward trend compared to our historical data. Lower phosphorous readings are GOOD for our lakes. The highest phosphorous reading we've seen this year is 0.016 milligrams per liter from Mill Lake on June 8th. To put this into context, the highest phosphorous reading in 2015 was 0.020 milligrams per liter from Mill Lake on August 18th. Readings above 0.05 milligrams per liter would cause potential harm to our lake ecosystem and would warrant action to find the source(s) of phosphorous entering our lakes.

So what is phosphorous? **Phosphorus** is a chemical element with symbol **P** and atomic number **15**. As an element, phosphorus exists in two major forms—white phosphorus and red phosphorus, but due to its high reactivity, phosphorus is rarely found as a free element on Earth. Instead phosphorus-containing minerals are almost always present in their oxidized state, as inorganic phosphate **rocks**.

In our lakes, maintaining low phosphorous levels is very important. Phosphorus is a common component of agricultural fertilizers, manure, and organic wastes (i.e. septic fields). It is an essential element for plant life, but when there is too much of it in water, it can cause serious reductions in dissolved oxygen levels. Think of phosphorous as junk food for algae. With too much phosphorus in a lake or river, excess algae blooms will occur. Excess surface algae prevents light penetration and ultimately will kill all lower layers of algae. The combination of bacterial decay of the surface algae and dramatically lower levels of photosynthesis (creation of oxygen) could have a deadly impact on fish, frogs, turtles, etc. As I stated earlier, we are

trending in the right direction. That said, we will be sure to compare the July and August readings to prior years to confirm these trends. The July 2016 sample were submitted on July 22nd, but the lab results have not yet been posted.

Algae and Chlorophyll

The cool temperatures in May and June contributed to a weak 2016 algae bloom. Each year we submit water samples to the WDNR to be analyzed for Chlorophyll in June, July and August. By measuring chlorophyll levels in our lake water, we get a sense of how much algae is present in our lake water. Chlorophyll readings so far this year are 50% lower than 2015 readings. My sense is that our 2016 algae levels are actually trending close to average as 2015 produced very strong algae blooms across the entire state.

What is algae? Algae are primitive, aquatic, one-celled or multicellular plant-like organisms that lack true stems, roots, and leaves but usually contain chlorophyll. There are both marine and freshwater algae, and algae are found almost everywhere on earth. Healthy lakes need algae and algae are important to the productivity of a lake or water body. Algae are **primary producers**. They use sunlight (through photosynthesis) to produce carbohydrates and are eaten by grazers such as protozoa and zooplankton (little animals like water fleas and rotifers). The zooplankton are, in turn, grazed upon by fish, which are eaten by bigger fish, and on up the food chain. A productive lake produces large fish and good fishing for humans as well as supporting food and habitat for wildlife and waterfowl. In this context, most algae are desirable for lakes. Algae grow when they have the right conditions such as adequate phosphorus, nitrogen, light levels, pH, and temperature. Generally the amount of phosphorus controls the amount of algae found in a freshwater lake. The more nutrient-enriched a lake, typically the more algae in the lake. This is the main reason we consistently monitor the phosphorous levels in our lakes.

Green Lake and Algae We Can't See

Speaking of algae, for the 2nd year in a row, we are experiencing a unique phenomenon in Green Lake. In a typical year,

the top 15-20 feet of Green Lake has dissolved oxygen readings between 8.5 and 9.5 parts per million. Once we reach 20 feet, we typically reach the thermocline – the area where dissolved oxygen levels drop off to nearly zero parts per million. In 2015 and 2016, we noticed that dissolved oxygen readings in the 20 to 35 foot depths are elevated to the 10.0 to 12.5 parts per million. This phenomenon is called a **metalimnetic chlorophyll maxima** or **heterograde**. In plain English, it means there is a thick horizontal plate of algae (not sure of the species) floating just below the lake thermocline, 20-30 feet below the surface of the lake. The algae are maximizing both nutrient and light intake by taking up the phosphorus that is released from the lake-bottom sediments, but still getting sunlight from the surface. The algae can regulate their buoyancy to stay at mid depths when it is advantageous. The algae suspended in this “plate” are creating oxygen via photosynthesis, causing the oxygen levels to be dramatically elevated. This can occur in stratified lakes with clear surface waters like Green Lake. What does this mean to our lakes? To be honest, we're not sure. Seemingly this phenomenon is a harmless algae bloom that is increasing oxygen levels in deeper water. The only obvious impact is to our fisherman in that the fish can survive very well in deeper. Hint - set your bobbers a lot lower when fishing in Green Lake!

Lastly, I'd like to extend special thanks to Mark Curcio for his excellent work supporting our water testing program. Mark has been collecting the majority of water clarity data this year and we've been teaming up to collect and prepare the WDNR water samples. Mark, and his wife, Debbie, live in Pebble Beach, so be sure to thank them for supporting this critical component to our lake support efforts.

See you on the Lake!

LUTHERDALE NEWS

By Jeff Bluhm,
Executive Director

Lutherdale has a history here on Lauderdale Lakes that goes back to 1944 when we purchased 17 acres from the Lauderdale Farm Family and started a summer camp. This past April I had the pleasure of meeting a young 87 year old lady who was one of the first people to walk the grounds on the day that the decision was made to purchase the land. She was 15 years old at the time. It was great to hear how much excitement the people had about purchasing the property for this new beginning.

The first summer that kids came to camp at Lutherdale, they stayed in Army surplus tents. There was a large tent for the girls, a large tent for the boys, and a large tent for the mess hall. The wooden bunk beds had US Army carved into the railings. It was a great start.

Only open as a summer camp the program kept growing over the years. Eventually Lutherdale became open year-round with the addition of cabins with running water and a wood stove. The highlight for many a winter time weekend camp was going down the toboggan run that shoots out onto the lake. That same toboggan run is still used today.

We are proud of our 72 year history here on Lauderdale Lakes and are glad to be a part of the lake community. We have great plans for the future with some exciting changes ahead.

If you have driven past our entrance on Highway 12, you will have noticed a new sign that stands as a beacon of welcome to all who come to these sacred grounds. It is also a sign of things to come for Lutherdale.

In September we will be kicking off a special capital appeal called **Share the Adventure** to raise funds for a new modern adult lodge. Lutherdale has had substantial growth in adult usage of the last decade, surpassing all of our youth based programs. A new facility will provide for the needs of adults with comfort and amenities.

Every year we work to make improvements to the camp. This year we added a sports field with a baseball diamond and a soccer field. We remodeled one of our oldest cabins into a new camp store. Coming soon will be an indoor growing room and hydroponics for our farm and garden program.

In keeping with the fact that Lutherdale was once a Lauderdale Family Farm, we started an organic garden program about 4 years ago. The garden teaches campers about healthy food, lowers the carbon footprint of purchasing produced shipped in from out of state, and we grow organically. Guests enjoy the taste and satisfaction of knowing where the food came from.

We are so blessed to serve the lake community and we look forward to seeing many of you again next summer.
Jeff Bluhm, Executive Director

MIDSUMMER ACTIVITIES OF THE LAUDERDALE LAKES YACHT CLUB By Commodore Reid Patterson

We started our season on June 4th at the Evergreen Golf Club and Restaurant, where we enjoyed Cocktails with the new Commodore, lovely appetizers prepared by the chef, presentations by the Lauderdale Lakes Aqua Ski Team, plus fundraisers through raffles and a live and silent auction. Many thanks to Vice Commodore, Laura Allen, and her team for a fabulous event.

Two weeks later (June 17th) LLYC Board Member Tom Short hosted a lovely evening on the beautiful beaches of neighboring Pleasant Lake, where we enjoyed great food and wine tasting. What a wonderful evening of laughs, fierce competition between our favorite libation, with Jessie and Karen Lawrence taking home the prize for the best wine.

A couple of weeks later (July 4th) we all gathered on boats and homes to watch the grand fireworks display funded by the Lauderdale Lakes Safety and Education Committee, led by Marianne Hurlburt and ably assisted by Patti Jilek. Fireworks were coordinated by former Commodore Pete Spaulding and they were spectacular again this year.

A few days later (June 6), a small group of us met on Green Lake for dinner, sharing food and stories, and watching the beautiful sunset. While the day began cloudy and windy, the evening was spectacular and enjoyed by all participants.

July 16th was a busy day, starting with the Kids Fishing Jamboree at the Landings, where kids learned to fish and competed for the best catch. The winners are shown below.



Former Commodore Pete and Nancy Spaulding sold our own First Aid Kits to the participants, while numerous other LLYC members participated in this fun annual event. Funds from our sales goes to the ski and fishing clubs.



Later that day, the Vegas Poker Run began about 2 pm, which boater traveling from the 5 designated piers around the three lakes collecting playing cards in hopes of having the best hand that evening at the Thelen's lovely home. JJ and Patti Jilek hosted a wonderful event, with many laughs and memories of the great day and party.

Now that it is already August and we hope to see everyone supporting the LaGrange Fire Department at their Annual Steak Fry on Saturday, the 13th.

(continued from page 10)

On August 20th, the LLYC hosts its Golf Outing at the Lauderdale Lakes Golf Club, with fun, games and a 9-hole golf tournament starting at 2 pm, followed cocktails at 4-6 pm, then by a great fish fry and chicken dinner by Fitzgerald's Restaurant at 6 pm. Members are encouraged to attend a brief business meeting after the event. Come join us for a great time, great food and many memories! Dinner is only \$18, while golf and dinner is \$42 per person. Many thanks for former Commodore Barry Lutz for coordinating this event.



The season ends with a mystery "Train to Dodge City". You will enjoy cocktails at Kitty's saloon in East Troy, enjoy a train ride to famous grocery store and pie factory (Elegant Farmer) in East Troy, then back to dinner in the finest restaurant in the city. Hosted by Jane Doyle and her assistants, this promises to be a fun event with many memories and laughs.

The Lauderdale Lakes Sailing Club has only 6 more outings this year, with 9 races already completed. The Initial Beisswanger Cup was won by Commodore Peter Van Kampen. Christian Zenger took first place in the Club Race on June 12th. The Melges Trophy was won by the crafty sailing of Glenn Hansen a week later. The Bud Weiser Trophy race on June 26th was won by Jack Sorensen. On July 3rd, Michael Engel took home the Bradley Trophy in Middle Lake. The Ro Jo Trophy was won by Mike Jaeger on July 10th in Mill Lake. Rob Paddor and Ray Eischenlaub took the Club Race and the LLYC Regatta, both on Green Lake, on consecutive weeks thereafter. Come join the fun, cheer your neighbors on or bring your boat and race.



LAUDERDALE AQUA SKIERS SUMMER 2016 By Jeff Auberger

What a great season it's been so far for Team LAS, thank you for making it possible!

Our annual Pig-Roast and Exhibition Ski Show was held on June 6th and it was a huge success. The Lauderdale Landing provided great food and drinks in a wonderful outdoor setting for our spectators and team members alike; be sure to come watch us there again on August 27th.

Team LAS has gained so many new members this year. It has been a blessing to have these new skiers and wonderful families growing and participating with us. And, there's still room for you! We're always looking for new members, regardless of your age or experience, consider joining us. The Lauderdale Aqua Skiers (LAS) are The Waterski Show Team of Walworth County.

We are a unique organization, focused on FUN, FAMILY and FRIENDS. We provide an opportunity for individuals, friends and generations of families to participate together in the great sport of show skiing.

We are really excited about this year's LAS Alumni Ski Show. This is the celebration event of our season, when all of our past members join us for a fun day of skiing, comradery and reminiscing. Our history is full of great skiers who went on to compete nationally and professionally, and they're still fun to watch today. We hope you'll join us as a skier or spectator on September 3rd at Babe Mann Park.

This year's most rewarding experience for the members of Team LAS came when we hosted our first "Adaptive Learn-To-Ski" event. With the help of Adaptive Adventures, we helped five disabled people experience waterskiing for the very first time! With specialty equipment and experienced coaches, everyone had an amazing day. We'll be doing it again at Lutherdale Bible Camp this September, and you can bet we'll be hosting these events again next year, it was AWESOME!

LAS has created a TEAM focused environment which nurtures sportsmanship, leadership, comradery, teamwork and water-safety through show skiing activities. We practice two to three times per week and provide free family oriented waterski shows all summer long on both Lauderdale & Elkhorn Lakes. **Watch Us – Join Us!**

Visit our website at:
www.laswaterskiteam.com

SAVE THE DATES

- 8/06/16 - Ski Show – Elkhorn Lake/Babe Mann Park – 5:30PM
- 8/13/16 - Ski Show – Elkhorn Lake/Babe Mann Park – 5:30PM
- 8/20/16 - Ski Show – Elkhorn Lake/Babe Mann Park – 5:30PM
- 8/27/16 - Ski Show – Lauderdale Lake/Lauderdale Landing – 5:30PM
- 9/03/16 - Alumni Ski Show Elkhorn Lake/Babe Mann Park – 5:30PM
- 9/17/16 - Annual Golf Outing & Fund Raiser – Evergreen Golf Course

Visit www.laswaterskiteam.com for more information and sponsorship opportunities.

LAKE MANAGEMENT DISTRICT

By: Scott Mason

The Lake District team is busy carrying out the programs our constituents have come to expect for the betterment of our community.

- The golf course is performing well in spite of poor weather in the spring. District ownership of the golf course protects over 65 acres of open space from future development and we are able to do this without any tax subsidy. The sporty course offers an outstanding venue for the golfing community. With the property paid in full, we are now able to consider improvements as cash flow permits.
- Weed harvesting has run smoothly this year with nominal harvesting quantities and no equipment issues. Greg Wisniewski has added a weed harvesting calendar to the lake district web site. The calendar allows you to look at the cutting schedule and move water toys out of the way to achieve a better cut in front of your property.
- The septic program is on schedule to complete the current quadrant by year end.
- Debbie has a separate article on the water safety patrol in this newsletter.
- Andi White continues as our pier inspector. Andi can issue permits for all grandfathered and conforming piers. As always, all non-conforming piers must go to the Town of LaGrange Board for consideration of a variance.
- Web-Site: We have a new feature on the web site which allows anyone to subscribe to new postings on the site. Subscribers will automatically receive meeting agendas and newsletters as they are posted. To date, we have fewer than 100 email addresses from constituents within our community.

To facilitate better communication with our residents we would ask that you visit the web site and provide your email address. Selecting the “subscribe” button will ensure that you receive notifications of meeting agendas and newsletters by email.

- Environmental: As in prior years, we managed a live capture of geese in June. We were able to remove two large families of geese from our lakes. Other environmental projects will be highlighted in the upcoming District Dialogue newsletter.
- 2016 Budget: I recently completed a mid-year review of our finances and budget with District treasurer Debbie Ferrari. Our projections anticipate completing the fiscal year within budget.
- 2017 Budget: The Board completed the proposed 2017 budget at our July meeting. The proposed budget reflects a reduction from 2016 in excess of 20% which will significantly reduce the corresponding tax levy. The District budget has historically increased and decreased based on the requirements of the projects we manage.

ALGAE: WHAT THEY ARE AND METHODS TO PREVENT ALGAE BLOOMS

By Audrey Green

What they are:

Algae are small, plant-like, photosynthetic organisms. They are found in every lake and stream in Wisconsin, and although algae can become problematic when populations increase to nuisance levels, they are in fact, essential components to the lake ecosystem.

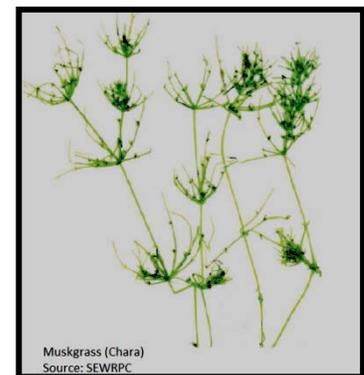
Planktonic algae are microscopic, free-floating species that are found throughout the water column, but may escape notice until high concentrations called ‘blooms’ change the water color and reduce visibility. These algae form the base of the food chain by producing carbohydrates (energy) and oxygen through photosynthesis.



This energy is then passed on when algae are consumed by zooplankton, aquatic insects, snails and small fish, which in turn are eaten by larger fish and animals. The oxygen produced through photosynthesis is of course essential to all living creatures.

Filamentous algae are single celled species which form long chains and appear as mats that resemble wet wool in the water. These mats provide habitat for aquatic invertebrates which are eaten by fish and waterfowl. The mats are usually attached to the lake bed, rocks or plants but once the mats begin to decay, gases begin to form and are trapped underneath. This causes the mats to float to the surface where they continue to decay, often turning black.

Chara and Nitella, also known as Stoneworts, are complex algae that grow in a fashion that makes them look very much like a vascular plant. The branched structure of Stoneworts provide habitat for invertebrates which are an important food source for young fish like bluegills, bass and trout. Rhizoids, rather than true roots, anchor these algae to the sediments which in turn help to stabilize the lake bottom. Generally Chara and Nitella do not grow to nuisance levels.



Muskgrass (Chara)
Source: SEWRPC

(continued from page 10)

Cyanobacteria, or Blue-green algae is not a true algae but a group of photosynthetic bacteria. Blue-green algae species are found in lakes throughout Wisconsin and may cause no problems until conditions are right for growth. Then they can quickly reproduce, causing unsightly blooms. To obtain the best information about Blue-green algae please visit the DNR website <http://dnr.wi.gov/lakes/bluegreenalgae/>

Methods to prevent algae blooms:

Phosphorous and nitrogen are the two major nutrients required for aquatic plant and algae growth. In Wisconsin, phosphorous is the key nutrient, or limiting factor, for aquatic plant growth in most lakes but the lakes in SE Wisconsin are generally not lacking in either nutrient. Nutrients from historic land use practices that have washed into the lake are likely still in the sediments. These nutrients can cycle back into the water column and contribute to algae blooms and excessive plant growth. Reducing or eliminating nutrient contributions to water bodies through watershed best management practices (BMPs) can, over time, improve water quality and reduce excess plant and algae issues.

Watershed BMPs can be as simple as not using lawn treatments that contain phosphorous unless soil testing shows a definite need. Maintaining a properly working septic system is a BMP that will protect the lake, human health and property values. Adding a native shoreline buffer at the lake edge instead of mowing the grass up to the waters edge not only helps protect the lake from nutrient laden stormwater runoff, it also deters geese from the property. Protecting the native aquatic plants growing in the lake will also help by allowing those 'good plants' to use the nutrients in the water column, which will reduce the nutrients available for algae growth. Additional information about watershed BMPs can be found on the DNR website at <http://dnr.wi.gov/topic/watersheds/>.

WATER PATROL OUT AND ABOUT IN THE LAKE COMMUNITY
by Debbie Ferrari

This is how most of you know our Water Patrol team when you are out on the water enjoying Lauderdale Lakes. You may have had close encounters of another kind ... perhaps when our team provided assistance when you ran out of gas, had

engine trouble, had a question, lost a kayak, found a floating bog, etc. And obviously our team is in place to enforce State and local laws, the vast majority of which are in place to protect everyone.



But our team also engages in community events to promote safety and provide information since each of us is responsible for ensuring safety on our lakes. You may have seen them out and about...



Officer Adam Freund is the primary instructor for the Boating Safety Courses we conduct each year.



Officer Kim Jackson participated in the Fish Jamboree in July, giving the kids the opportunity to board one of our patrol boats....AND operate the lights and sirens!



Officer Chris St. Clair attended the LLIA 110th Celebration in June to answer attendee questions.

COMING SOON...TWO NEW ORDINANCES IMPACTING OUR LAKE
by Debbie Ferrari

Two new Ordinances are in the final stages of becoming law covering Lauderdale Lakes. We have publicized both of them since last year, but once they are signed by the Town Boards of both LaGrange and Sugar Creek, they will become enforceable by our Water Patrol. They are:

- 1. Mooring is prohibited within 75 feet of the shoreline in those areas designated with No Anchoring'buoys near the Pebble Beach on Green Lake.***
Buoys have been in place for the last two years so please be sure you do not anchor between the shore and these buoys.
- 2. Tether Towables within certain Slow No Wake Areas. Towing is prohibited in channels marked Slow No Wake between Green Lake and Middle Lake, and between Mill Lake and Sterlingworth Bay. All towables including, but not limited to, tubes, ski ropes with or without skiers, or any other item that might otherwise be pulled behind the boat must be brought onboard and/or tethered directly to the boat and must be unoccupied while within the Slow No Wake zone.***

(Continued on page 14)

Shorelines

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Ron Mueller, Executive Board 847-635-5668

Bud Vance, Shorelines Publisher / Editor 847-459-8127

(Continued from page 13)

LLIA with the Town. Once these new Ordinances are signed by both Towns, they will be posted on the Town of LaGrange website at www.townoflagrangewi.com. They can be found by selecting "Government" on the menu bar, and then "Ordinances" in the drop down menu.

PIER PERMIT IN ENVIRONMENTALLY SENSITIVE AREA 3 by Debbie Ferrari

It has been quite awhile since we published an update on the status of the pier permit application filed by a property owner in the west end of Middle Lake, within Sensitive Area 3. This issue began in 2012 with an application for an individual permit directly with the WDNR and over the last several years you will find articles in *Shorelines* covering its status. The Lake District had taken the lead on the opposition to this pier, and the LLIA worked with the Lake District and separately provided input directly to

the WDNR and Town of LaGrange during formal steps in the process. Ultimately, the permit issued by the WDNR was confirmed. The pier, however, did not comply with the Town of LaGrange Pier Ordinance both in size (approx 140' vs the pier-head line of 35') and location (within a Sensitive Area). A Special Town Board Meeting was held on July 13th to consider the request for a variance to allow the pier to be installed. Several lake property owners, as well as the Lake District and LLIA, expressed continued opposition to this pier. After Closed Session to confer with legal counsel, the Board discussed the variance request and approved the variance. However, they were clear in their discussion that their intention was not to set a precedent, but that this decision related to this specific set of facts. The LLIA will continue to work with the Town and Lake District to help ensure our pristine shorelines are protected to the extent possible given the framework of the State Law. While this pier will negatively impact the ecology of our lake, we hope the many conditions required by the WDNR permit will minimize this negative impact.

PLEASE REMEMBER TO SUPPORT OUR ADVERTISERS!!

Their support is critical to the publication of our Directory and they appreciate each of us supporting their business. When you purchase goods or services from an advertiser, please try to remember to thank them for their support of the LLIA. Many advertisers have been purchasing an ad in our Directory for a very long time and we thank them for their continued support. We also welcome our new advertisers (or those we have not seen for awhile), who look forward to your business: