

# LUHS 1958 GRADS

Eleven members of the 1958 graduating class at Lakeland Union High School, LUHS's first graduating class, gathered on Saturday, Aug. 13 for a reunion at The Cafe Holiday in Woodruff. Those attending the gathering are, from left, John Margitan, Betty Juneck (Kettner), Irene Kohl (Steele), Renny Ohlsson, Cookie Richardson, Mary Arts, Majel Ison, Bob Howard, Jim Dirnstl, Joyce Marquardt and Jim Bellar.

CONTRIBUTED PHOTO



## Vilas Land and Water Conservation committee looks at Michigan DNR wake boat recommendations

By **Beckie Gaskill**  
OF THE LAKELAND TIMES

At this month's Vilas County Land and Water Conservation committee meeting, Cathy Higley of the land

and water department made the committee aware that the Michigan Department of Natural Resources (MDNR) had released a paper regarding wake boats and their recommendations and concerns about

those vessels as they relate to natural resource management. She also sent the paper out to all of those who had signed up to be on the department's email list.

The MDNR's paper was released September of 2022 by the fisheries division. These boats, the paper said, can create waves with 1.7-17 times the energy of "other comparable-sized powerboats." Their waves also take between 225 and 950 feet to dissipate to heights and energies observed 100-200 feet from similar boats operating at cruising speed.

The paper also spoke about the ability of wake boats to transmit invasive species. The ballast tanks, the executive summary stated, result in a "dramatic increase" in risk of transporting aquatic invasive species such as Dreissenid mussels.

As can be said for Wisconsin's laws as well, current boating laws in Michigan are intended to not only promote safety but to also prevent damage to aquatic resources. The current 100-foot operating buffers in place in Michigan are not sufficient to protect those resources, the MDNR said.

Wake boats are defined, in short, as boats designed to increase wave height for water sports. Wake boarding generally takes place at speeds of 20-23 miles per hour. Wake surfing, at speeds of 9-11 miles per hour. Many studies have looked at the effects of wake boats including Asplund and Cook 1997, Yousef et al. 1980, and Gouday and Girod 2015: National Marine Manufacturers Association. The environmental effects, according to the Asplund and Cook study include increased shoreline erosion, decreased water clarity and plant abundance and increased phosphorus in the water column.

Another study in 2018 found energy from ballasted wake boats to be 5-17 times higher than a benchmark speed boat. The paper cites many studies showing the increased wave energy and hence, possible ecological damage to lakes on which these boats are used.

In 2021, Water Environmental Consultants showed waves produced in wake surfing were 581% stronger 100 feet away than those made by the same vessel operating at cruising speed. For wake boarding, the number was 68%.

A 2014 study estimated the distance it would take for a wake from a wake boat to dissipate completely is approximately 984 feet. Water Environmental Consultants saw similar results with wakes from wake surfing dissipating completely after 950 feet and wakes from wake boarding dissipating after 225 feet.

Water Environmental Consult-

ants also looked at erosion from recreational boating. They compared the average wave energy from wake boats to the monthly maximum wave energy from wind for two locations on Lake Rabun in Georgia. When a wake boat passed 100 feet from shore, they found that wake boarding wave energy was 553%, higher and wakes from wake surfing are 2,546% higher than energy from wind-driven waves. The MDNR has seen frequent applications that have listed erosion from wake boats as a rationale for shoreline armoring.

"This reactive response to hardening of shorelines, as opposed to proactively reducing the erosive forces at the shoreline caused by wake boats, will only lead to greater environmental degradation from armored shorelines due to wave reflection off these structures," the paper stated. The paper stated shoreline armoring degrades up to 54% of the lake shore in some highly populated areas. This armoring, which has largely been done in response to wake boat traffic, increases wave energy and actually works to exacerbate the effects of wake boat wave energy on aquatic resources.

The paper goes on to speak about sediment resuspension issues from wake boat traffic. Many studies were cited here as well. Sediment resuspension reduces the ability of fish to find food. It also is a driving force in the depths at which aquatic plants can grow. Dissolved oxygen content in the water is also decreased. A 2014 study cited in the paper found sediment resuspension to be "significantly higher" up to 492 feet from wake boats operating in wake-surf mode and 656 from wake boats operating in wake-board mode. The highest disturbance occurred when the boats were operating at a speed of 10 miles per hour. In 2017, a study found wake boats had the ability to create turbulence at depths of 10 feet. A 2015 study found turbulence at 15 feet and a more recent study, done in 2020 estimated a modern wake boat could cause sediment redistribution in water up to 33 feet deep.

The paper also stated the reduction in aquatic plants caused by waves from wake boats also had the ability to affect fish populations. Areas of aquatic vegetation provide rearing areas of juvenile fish. These areas provide places for young fish to grow and help to increase the overall fish biomass in a lake. There are no studies specifically looking at wake boats and the effects on aquatic plants at this time, the MDNR said, however those effects

See DNR . . . page 17

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# DNR

From page 7

could be extrapolated from previous studies involving power boats. A 1997 study of power boats at that time showed 20% reductions in aquatic vegetation coverage due to power boats. Results, they said, showed power boats affected aquatic plant life through scouring of the bottom substrate as well as direct cutting of the plants. Because wake boats cause greater turbidity and wave energy, MDNR said, "it follows that wake boats could significantly disrupt native aquatic vegetation in inland lakes."

The paper also looked at wake boats and aquatic invasive species (AIS). The State of Michigan prioritizes the need for prevention of accidental AIS introductions, as does the State of Wisconsin. The large ballasts of wake boats that can be filled or emptied directly into the water body on which they are operating has the propensity to greatly increase these accidental introductions. A 2018 study found ballasts of wake boats carried an average of

247 zebra mussel veligers per sample. In contrast, stern drive boats averaged 13 veligers per sample and outboard lower units one veliger per sample on a lake infested with zebra mussels.

Although wake boat ballasts are typically emptied before traveling to another lake, the paper stated, they are rarely ever completely dry. This increases the survival rate for aquatic invasive species that may be trapped in the ballast. A 2018 study found 5% of zebra mussel veligers remained alive in ballast water tanks after 48 hours. Fish pathogens, too, can be moved from place to place in water that may be contained in ballasts of these boats.

### Conclusion

The MDNR concluded a minimum lake size could be considered for operation of wake boats if no-wake near shore areas were increased. They recommended any boats operating in wake-surfing or wake-boarding mode be at least 500 feet from docks or the shoreline, regardless of the depth of the water.

Another recommendation called for boats operating in either wake-

boarding or wake-surfing mode to operate in water at least 15 feet deep.

Ballast water, the MDNR said, should always be drained proper to transporting the watercraft over land.

MDNR called for education and awareness campaigns as well, stating they would be an important component of a "comprehensive approach" to protecting inland lakes from damage caused by wake boats. They would look to provide operational recommendations in their boating handbook and to incorporate educational materials on responsible wake boating in their boating safety classes. Similar practices have been put in place in other regions, they said, pointing to the State of Oregon, where boaters must complete a safety course before wake boarding or wake boating on certain sections of the Willamette River.

### Local recommendations

The lake size and depth recommendations are less than those recommended by other studies, however. One recommendation by a

Carroll University study, was that wake boats be allowed only on lakes over 1,500 acres. Higley said her research showed that would eliminate all but five lakes in Vilas County. Two of those were on reservation land, she said. Higley said she has had contact with both the Lac Du Flambeau and Lac Vieux Desert tribes in regards to Fence Lake and Lac Vieux Desert, which are two of those lakes over 1,500 acres, and was involved in a citizen resolution to the Wisconsin Conservation Congress. Lac du Flambeau, she said was hoping to have something in place regarding the issue by spring. Her contact at Lac Vieux Desert, however, said they were not aware of any work being done yet by that tribe in the area of wake boats.

Land and Water committee chair Holly Tomlanovich said perhaps the tribes would be able to take the lead as far as enforceable regulation because they operate under a different scope. She felt this might work to enhance the work with the legislature.

Beckie Gaskill may be reached via email at [bgaskill@lakeland-times.com](mailto:bgaskill@lakeland-times.com).

# EMPLOYMENT

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# LEGAL NOTICES

### ARBOR VITAE-WOODRUFF SCHOOL DISTRICT J1 NOTICE OF BUDGET HEARING [SECTION 65.90(4)]

Notice is hereby given to the qualified electors of the Arbor Vitae-Woodruff School District J1 that the budget hearing will be held at the Arbor Vitae-Woodruff School's EL Center, on the 24th day of October, 2022 at 5:00 pm. Detailed copies of the budget are available for inspection in the District Office at 11065 Old Hwy 51N, Arbor Vitae, WI 54568. The Annual Meeting will follow immediately.

Dated this 10th day of October, 2022.  
Katie Massey, District Clerk

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### NOTICE OF BUDGET HEARING (SECTION 65.90 (4)) AND ANNUAL DISTRICT MEETING (SECTION 120.08 (1)) OF THE MINOCQUA J1 SCHOOL DISTRICT

NOTICE IS HEREBY GIVEN to the qualified electors of Minocqua J1 School District that the regular Budget Hearing of said district will be held on the 25th day of October, 2022, at 5:30 pm, to be followed immediately by the regular Annual Meeting of said district; both meetings to be conducted in the School Library. It is anticipated a majority of the School Board of Education will be in attendance.

Dated this 14th of July, 2022

Mary Whitman, Clerk

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### LAC DU FLAMBEAU BAND OF LAKE SUPERIOR CHIPPEWA INDIANS REQUEST FOR PROPOSALS

#### FOR PROVISION AND DELIVERY OF COMPACT TRACK LOADER

NOTICE IS HEREBY GIVEN that the Lac du Flambeau Band of Lake Superior Chippewa Indians will receive sealed proposals from qualified vendors for the provision and delivery of a new Compact Track Loader, 70-80 Horsepower range preferred, with a heavy duty bucket and snowblower, for use by the Maintenance Department of the Peter Christensen Health Center. The equipment must meet the minimum specifications set forth in the comprehensive Request for Proposals.

Bidder must be a manufacturer, a factory branch, or a dealer engaged in the business of selling, dealing and servicing the equipment offered in bidder's proposal and must maintain a full stock of parts and provide full maintenance and repair service to and for the subject equipment. Any service required for repair, warranty work or otherwise must be completed at an authorized service location.

A comprehensive Request for Proposals (RFP) setting forth vehicle specifications may be obtained from the Tribal Receptionist, William Wildcat, Sr. Community Center, 418 Little Pines Road, P.O. Box 67, Lac du Flambeau, Wisconsin 54538 (715-588-3303), or viewed on the Tribal website.

For response to questions, please contact PCHC Maintenance Department Representative Duane DeVerney via email at: [ddeverney@pchclinic.com](mailto:ddeverney@pchclinic.com).

Proposals must comply with the requirements set forth in the RFP and be submitted, with copies, in a sealed envelope bearing the name and address of the bidder and the name of the project on the outside. The Tribe will not assume responsibility for proposals mailed in through public or private mailing services.

The Tribe reserves the right to accept or reject any or all proposals, to waive technical defects and make the award to the bidder most competent to serve the Tribe's requirements.

Deadline for submission of sealed proposals is 4:00 P.M. Local Time, Wednesday, November 9, 2022. Bids will be opened thereafter.

Mail Proposals to: Tribal Secretary, P.O. Box 67, Lac du Flambeau, Wisconsin 54538.

Hand-Deliver Proposals to: Tribal Secretary, William Wildcat, Sr. Community Center, 418 Little Pines Road, Lac du Flambeau, Wisconsin 54538.

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**ARBOR VITAE-WOODRUFF  
J1 SCHOOL DISTRICT**  
2022-2023 School Year

AV-W School is taking applications for **Substitute Teachers** and **Substitute Special Education Aides** for the 2022-2023 school year. All candidates must be licensed or be willing to obtain appropriate Wisconsin DPI certification. Sub Teachers earn \$150 per day and Sub Aides earn \$15/hour (If certified as a teacher, they earn \$20/hour).

Please call or stop by the District Office to obtain information or complete an application:  
**Arbor Vitae-Woodruff School**  
11065 Old Hwy 51  
Arbor Vitae, WI 54568  
715-356-3282 ext. 4451

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**Are you looking for  
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We look forward to hearing from you.



**Front Desk Associate**

This is a part-time, year-round position. Strong customer service skills a must, Proficiency with computer skills a plus. Must possess strong organizational and multitasking skills.

All applicants must be reliable. Fun, fast-paced environment. Position may require working evenings, weekends, holidays and varied shifts. **Flexible schedules.**

**Housekeeping Staff**

The Housekeeping Department at The Beacons is now hiring part-time, year-round housekeeping staff, Cleaning experience not necessary. All applicants must be able to work in a fast paced, team environment, paying close attention to detail. **Flexible schedules and not every weekend is required.**

Apply in person or mail resume to:  
8250 Northern Road  
Minocqua, WI 54548  
Please call 715-356-5515 for your digital application

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Please submit application and Application Disclosure (available at [www.ldfschool.org](http://www.ldfschool.org)) to:

**Dr. Josh Ernst  
District Administrator  
Lac du Flambeau Public School  
2899 Highway 47  
Lac du Flambeau, WI 54538**

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**POSITION AVAILABLE  
LAC DU FLAMBEAU PUBLIC SCHOOL  
COMPUTER SUPPORT TECHNICIAN**  
Full-Time Position

The Lac du Flambeau School District is interested in an innovative Computer Support Technician to assist with the day-to-day operations of the school computer network; including computer set-up, troubleshooting, and network problems. The Computer Support Technician will install, configure, troubleshoot, and maintain Chromebooks, iPads, Windows laptops and desktops, other peripherals, software, network services, and campus technology systems, including printers and AV equipment.

The ideal candidate will have a Bachelor's Degree and/or job-related experience in a technology-related field; experience working with a Mobile Device Management System (MDM) for device provisioning; highly proficient with Google Apps for Education, Windows 10, iOS, and Microsoft Office; experience with Virtual Meeting Software setups; demonstrate field experience working with end-user technical support in a responsive, helpful, courteous, and tactful manner leading to timely and appropriate problem resolution or escalation; wide range of computer hardware and software experience in a networked environment and a willingness to learn new and emerging technologies as they are introduced to the school; demonstrate field experience working with confidential and time-sensitive matters; demonstrate organization skills, with attention to detail.

Please apply online at <https://wecan.education.wisc.edu/#/> or Submit application (available at [www.ldfschool.org](http://www.ldfschool.org) or at the Lac du Flambeau School office), resume, letters of recommendation, and letter of interest to:  
Dr. Joshua Ernst, District Administrator  
Lac du Flambeau Public School 2899 Highway 47  
Lac du Flambeau, WI 54538

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- Scan the Roadsides
- Stay Alert
- Watch Other Drivers
- Drive Safely