



# The Monitor

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## The Rise of the Integrated Sampler

In the late 1990s, Jim Klosiewski was working for the Wisconsin DNR and was responsible for collecting water samples from lakes and streams. He was given a flexible, cumbersome, 30-foot-long tube to collect samples. He devised an easier tool to collect water samples, which was a series of 10-foot PVC pipes that could be attached to each other, and each would have a ball valve to release the sample contained within.

Laura Herman, Self-help Lake Monitoring Program Coordinator at the time, wondered if Jim's invention might simplify the water collection process for volunteers across the state. All volunteers were using a Van Dorn sampler at the time, which often spilled water on volunteer's laps, and required frequent maintenance when the rubber tubing inside dried and cracked. Jim and Laura came up with the current 6.5-foot PVC "Chloropolski" design that is still in use today, that we refer to as the integrated sampler.

When lowered to the black line on the sampler, the Chloropolski collects a 6-foot "integrated" sample of the water column - in other words, it is a mixture of the water from the top 6 feet of the lake. The ball valve at the bottom of the sampler allows water in as the pipe is being lowered in the lake, but the ball seals off the opening when the sampler is lifted. The ball releases again when the operator pushes it against a bar in the water collection bottle, and the sample pours out. It is a simple design that collects an accurate representation of the top 6 feet of the lake, and comes with less cost, less maintenance, and less frustration than the Van Dorn sampler.

Jim's invention saved the Self-Help Lake Monitoring Program over \$200 per sampler, and offered volunteers a way to efficiently collect water samples without making a mess. Not only that, more volunteers were able to join the program because of the lower cost of supplying equipment. We are grateful to Jim for his creativity and hard work putting the Chloropolski together!



Jim Klosiewski testing out his "Chloropolski" design

# Announcements

## Need a Quick Refresher on Water Clarity or Chemistry Monitoring?

Remember that the CLMN Water Clarity Monitoring and Water Chemistry Monitoring videos are available on YouTube to help you remember the procedure for these types of water monitoring. Simply search YouTube for “UWEX Lakes clarity” or “UWEX Lakes chemistry” to view them, or visit the clarity and chemistry pages on the CLMN website to find links to them.

<http://www.uwsp.edu/cnr-ap/UWEXLakes/Pages/programs/clmn/clarity.aspx>  
<http://www.uwsp.edu/cnr-ap/UWEXLakes/Pages/programs/clmn/chemistry.aspx>

## New Aquatic Invasive Species (AIS) Handbook Helps with Identification

The new *Wisconsin Aquatic Invasive Species Early Detector Handbook* is provided for free to AIS monitoring volunteers who complete a training session, or the handbooks can be purchased for \$10 each from UW-Extension Lakes at 715-346-2116.

An electronic version is available on our AIS monitoring webpage:

<http://www.uwsp.edu/cnr-ap/UWEXLakes/Pages/programs/clmn/AIS.aspx>

## Register for AIS Snapshot Day

UW-Extension Lakes and the River Alliance of Wisconsin are partnering this year for a statewide “AIS Snapshot Day” to detect early populations of aquatic invasive species (AIS) in Wisconsin lakes and streams. Volunteers are needed to help sample boat landings and other public access points. Sampling equipment and training are provided for free at local sites across the state. Learn more at this website:

<https://www.wisconsinrivers.org/events/display/item/snapshot-day-5>

## Send Water Samples Quickly with Ample Ice

The State Lab of Hygiene reported that many samples were received in 2016 without any ice remaining. Please make sure that you use three full trays of ice cubes (about 50 cubes) to keep your water samples cold until they are received at the State Lab. If possible, briefly cooling your finished samples in the refrigerator before shipping will extend the life of the ice in your shipping box.

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