Follow water movement through the 5 Great Lakes with these engaging demonstrations:

1. **In One Lake and Out Another** – Anne Collins, School of Forest Resources & Environmental Sciences, Michigan Technological University
   Watch as water moves “downhill” from Lake Superior to the Atlantic Ocean.

2. **Mix It Up!** – Dr. Marty Auer, Dept. of Civil & Environmental Engineering, Michigan Tech Univ.
   Find out how the water in lakes moves with the seasons and changing water temperatures (summer thermoclines and spring/fall mixing). Use dyes to track the upward and downward movement of cold and warm water as the water temperature changes with the seasons.

3. **What Makes Waves?** – Chris Alquist, Portage Lake Township Library
   Find out what causes waves on the Great Lakes.

4. **How Does Lake Superior Affect Our Weather** – Joan Chadde, Western U.P. Center for Science, Mathematics & Environmental Education at Michigan Technological University
   How do the Great Lakes keep us warmer in winter and cooler in summer? Does water or soil gain or lose heat faster? Slower?

5. **Lock Them Up** – Dr. Brian Barkdoll, Dept. of Civil & Environmental Engineering, Michigan Tech Univ.
   Explore a model of how a lock system works to find out how locks help ships move from high elevations to lower elevations on their path to the Atlantic Ocean. How many lock systems are there in the Great Lakes – St. Lawrence Seaway system?

   Groundwater contributes nearly 75% of the water in Lake Superior (amount varies for each Great Lake). Find out where groundwater comes from, where it goes, and how it can become polluted.

*Fourth in a Monthly Series Exploring the Great Lakes*