Tom and Pat Manley

We have kept busy with the arrival of the *R/V Folger* (the day before classes started in the fall 2012) and its integration it into our classes. Due to the Certificate of Inspection (COI) not being in place when she arrived, we had to limit our class size to 8 students. We did some creative lab sections but still offered on-lake labs during the fall for Oceanography, Marine Geology and a First year seminar. Tom spent every day on the Folger till she was pulled in November trying to integrate the new instrumentation with the computers and smart classroom technology!

We had two seniors working with this past year on river and lake hydrodynamics. Clara St. Germain worked on the Buffalo River, NY and Emily Wei worked on the circulation of Missisquoi Bay, Lake Champlain. As always we were surprised by unexpected results that steered us into new directions for research.

In May 2013, the *R/V Folger* was in the water and up to Missisquoi Bay for an intense three week research cruise. We had three summer research assistants working on board, took lots of multibeam data and over 360 grab samples for physical property and grain size analyses. Tom also put in 10 ADCP (Acoustic Doppler Current Profilers) that will record water circulation for an entire year there. This research is part of the VT EPSCoR Research on Adaptation to Climate Change -- a 5 year grant that we are part of.

Due to a corrosion issue on the *Folger*, she was pulled in July where all the corrosion issues were addressed. By August she was in full swing again where we have hosted the Vermont Geologic Survey for a lake field trip, taught Alumni College over labor day weekend, and had Erich Osterberg’s (’99) Marine Geology class from Dartmouth doing a lab project in Town Farm Bay.

Pat continues to do workshops with the Council on Undergraduate Research, give guest lectures and departmental reviews.