Ideas for the modeling project – Celia Trunz

A first idea could be to reproduce the **water level in a Moulin**.

The different elements of the problem would be:

* An open channel delivering water in the Moulin and could be a simulated hydrograph;
* A vertical conduit;
* An output.

The size of the conduit could vary to see the impact on the water level. First the width (for small and large moulins), and the length (for the difference in ice thickness).

The output could be either a conduit, multiple conduits with different shape.

**Water level in boreholes**. The water level in boreholes adjacent to moulin and connected to the drainage system reacts differently than in the moulin. So, instead of having a input from a open conduit, the water level in the borehole would be connected to the propagation of the pressure in the drainage system.

**The weight and mouvement of the ice in relation to water level**

The idea would be to take a block of ice, on a surface with a slope, with conduits inside and drainage system at the bottom.

The movement could maybe be simulated with the variation of the weight, connectivity of the ice to the hard surface