

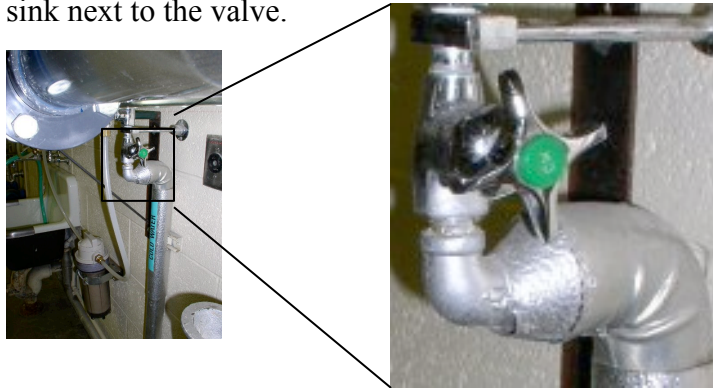
# REYNOLD'S NUMBER EXPERIMENT

ver06.8

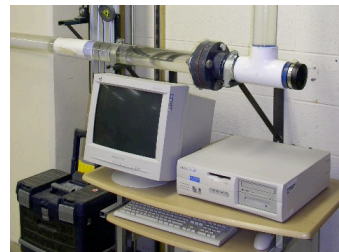
## Written Directions:

### Startup:

- First we will go through the start up and how to achieve water flow so that you can begin taking data.
- You will want to make sure that it is plugged in so that there is power; normally, it should be plugged in.
- Turn on the cooling valve, it is located behind the experiment. Make sure you open it all the way and you should hear water begin to flow. The water drains in a sink next to the valve.



- Now, you can move to a bailey terminal. (Click [here](#) to learn how to run the Bailey controls).
- Bring up the group displays and display the Reynold's Number.
- Display the main power switch and turn on the main power.
- Select the flow rate that you would like.
- Your range is from 0 to 12 L/min. Pick a flow rate of 6L/min.
- We are also recording the temperature of the water. (This data can be recorded to the Bailey if you would like to copy the information to a disk and then import it to Excel. However, the flow rate is not changed often, so it may be of little value to you.)
- Now go the computer that controls the Laser Doppler Anemometer. (There is a video you view [here](#)).



### Shutdown:

- Go back to the bailey terminal and set the flow rate to 0 and turn off the main power.
- Turn off the water, all the way clockwise.
- Leave the experiment plugged in and make sure that you have turned off all the laser components.