Introduction

You are asked to perform a “mini” fluids experiment in pairs of two students. Preferably one course 13 student paired with one course 2 student. You can draw inspiration from online websites such as www.efluids.com, but are expected to come up with your own ideas. The experiment should be fluids related, but can have a thermo-fluids, aerodynamics or true hydrodynamics slant to it.

Class List:

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Expectations

1) You and your partner should prepare a 1 page “proposal” by November 30. This can be sent to Prof. Techet and the TA by email. The proposal should describe your idea and outline the physics you think that this experiment will capture. You should highlight the major materials and resources you will need so that we can assess the feasibility of your experiment. You can choose to send this in sooner than 11/30 if you want to get started sooner. Feel free to discuss your ideas with the TA or Prof. Techet if you are unsure whether it is a feasible project or you are having difficulty discerning an appropriate topic.
2) A 5+/- page report is due on December 9, 2004 with the final presentations. The report should be a more formal write up outlining the background on your projects and all relevant physics and math, describing your procedure and setup and explaining your results. Discuss whether your results were what you expected to see or not, and any conclusions you reach.

3) Final presentations will be 10 minutes per group and you can demonstrate your experiment or show slides and or video of your setup.

4) HAVE FUN!!