1. Think of an example of turbulent flow that either we did not discuss in class or barely touched on. Describe the flow and why it is turbulent. How can you tell it is turbulent? Can you reduce the turbulence? Do you want to reduce it? What happens if the turbulent fluid suddenly becomes less viscous? Do you still have turbulence? Is it stronger, weaker, or the same as before?

2. What other exhibits at the Fleet are turbulent or could be turbulent? Explain.

3. You are at a water park and you are going down a water slide in a plastic tube. For the last 2m the tube is entirely filled with water so you hold your breath. Is this turbulent flow? Density of water = 1000kg/m³, η of water = 2.82x10⁻⁴Pa-s. You may need to make approximations to solve the problem. If you do make approximations, explain and justify your reasoning. Remember R = 2vrp/η.