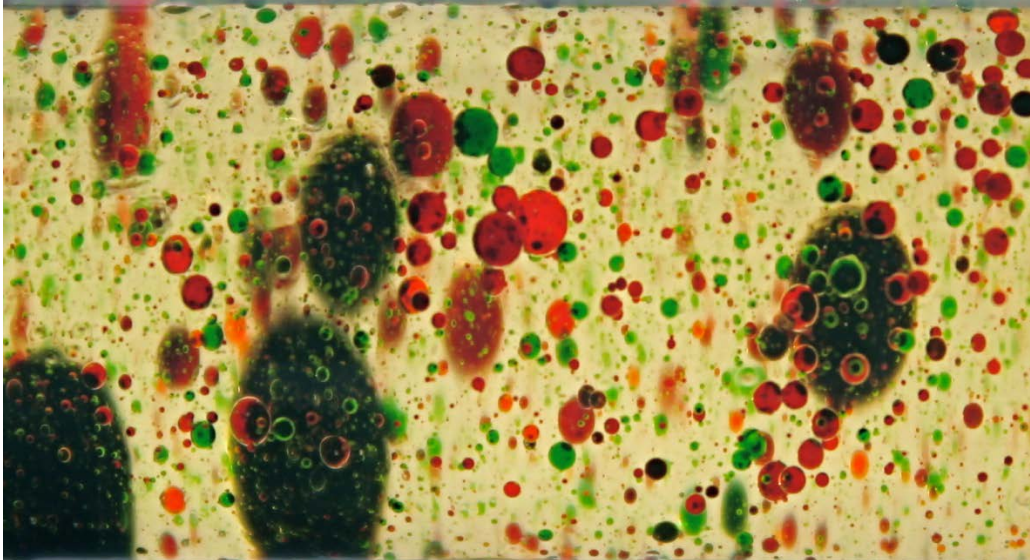


Peter Davis
Group Assignment 3
Flow Visualization



I worked on my own for the third group project. For this picture I wanted to make something with good color in it. I was using a plastic syringe to mix food coloring and oil to put it into another set up when I noticed that I liked how the small drops of food coloring looked in the syringe. It was very colorful and seemed like something I could make a good picture out of.

The set up for this picture was very simple. I first took my syringe and sucked up some vegetable oil. Then I sucked up a couple different colors of food dye. As the dye was sucked up it broke into many small drops, and the faster it was sucked in the smaller the drops it formed. I played around with different colors of food dye and different sized drops. The ended creating a mix of red and green drops, with a couple larger drops to add some variety. Since the oil is non-polar and the food dye is polar they do not mix, and the drops float around separate.

I took the picture with a Canon DSLR. I held the syringe up against a white background, and got the camera as close as possible. I did not have a macro lens, so I was not able to get as close or capture as much detail as I would have liked. In Photoshop I cropped the image quite a bit so only show the oil and food coloring shows. The whole picture is about two inches across. I also played with the coloring to accentuate the color of the green and red dyes.

I feel like the picture looks like something microscopic, and possibly cellular. In particular I like the small drops of food dye in front of the large ones because it gives a bit more depth to the image. I don't think the background color is great. I would have liked something that really made the drops stand out more.