

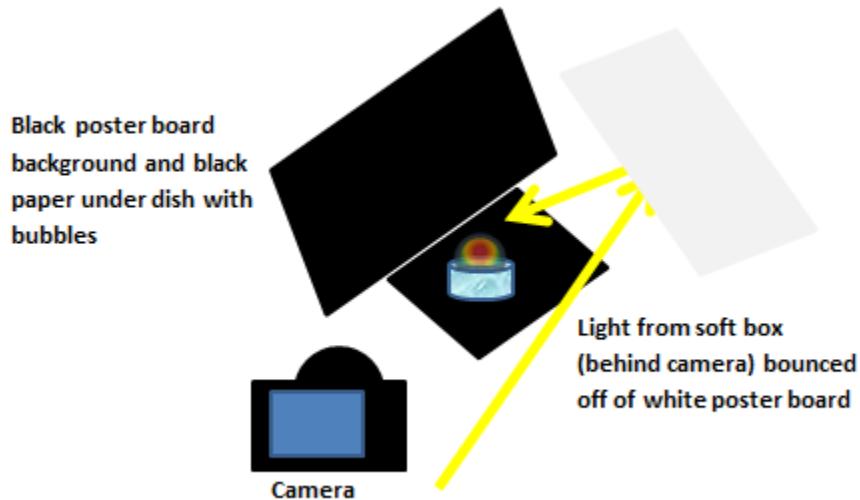
Taylor Powers  
Flow Vis  
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Team Image 1 Report  
Group: Rachel Sobke, Alexandra Banks, Jonathon Fraker

We began brainstorming for this project wanting to do something with bubbles and the colors and designs that can be refracted. After some personal trial and error we met up and got a private room in the engineering center at University of Colorado. We were striving to achieve an image that displayed the movement and design created on the surface of a bubble. To make this visible we had to have a strong light.

The different thicknesses of the bubble in different places cause different wavelengths to reflect off the bubble, creating the beautiful colors. The lines in the bubble are dried glycerin. A main, unnatural force, was the airflow that we provided through a straw into the bubble mixture.

We set up a tray filled with a glycerin and dish soap mixture in the room with the lights off and a soft box set up to illuminate only the bubbles. We then had one person blow air into the bubbles through a straw and use their tongue to block the airflow from the straw to hold the bubble we were focusing on in place. We had one white poster board which we shined the light onto, the rest of the walls of the box black. We did not use flash, only the soft light we created.



The field of view was quite large because we were so close to the object, about a foot away. We had the focal length zoomed to the max to achieve maximum focus on the designs that were so small on the bubble. We were using a Kodak DSLR 5200. The aperture was at 5.6 with a slower shutter speed of 1/5 of a second. This was due to the light that was provided, for we had the exposure set to 800 to get most of the

light that was natural. I edited the picture with light contrast and saturation, and cropping it to only get the designs that appealed to me. I was trying to achieve a space-like photo that would resemble a planet.

I had a hard time choosing an image because we had so many incredible photos. I chose the one I did because it was the most planet-like, which is what I wanted to achieve. It shows the vast array of designs and colors, including black and white which were some of my favorite captures. I would like to know more about the wavelength and how different colors are displayed. It is very interesting science and I think there is a lot of room to play and experiment with photography here.