

This image was created for the first group project. In this image I was trying to illustrate the odd temperature gradient looking forms that were created when I mixed hot water with corn syrup.

The flow apparatus used in this project was very simple. I placed corn syrup into a shot glass on top of it I put a few drops of rubbing alcohol diluted food coloring. After observing this for a while I decided to put hot tap water roughly 120°F and placed saran wrap over the surface so I could mix up the liquids without them spilling. After the liquids started to separate again the corn syrup began to form clear cloud like formations.

For this assignment I used corn syrup, hot tap water, and alcohol diluted food coloring. I had two main sources of lighting, all incandescents. I back lit the subject and placed it on a white box so the light would reflect back and through the entire shot glass.

Camera Specs:

Size of the field of view is roughly 3 inches.

The distance from the object to the lens was about 3 inches.

The lens focal length was 105 mm and the lens used was a 105 mm f/2.8 Macro lens

Original File size

Exposure specs: Aperture f/4.8 and shutter speed 1/20 sec. ISO 200

Image Size 4288 pixels x 2848 pixels

Not too much was done post processing wise in this photo. I simply removed dust particles from the outside of the glass and adjusted the levels of the image to better bring out detail. I also applied an unsharpened mask in order to show the edges of the “clouds”

I think this image reveals what I saw when I decided to take the picture. It was somewhat difficult to get the camera to see exactly what I saw. I like how the image resembles fire. I'd like to know what this effect is. I've seen it before when I'm mixing sugar into hot water but I wasn't able to find any information on this phenomena.