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Flow Visualization

09/25/07

Get Wet

The purpose of our photograph is to construct an image that illustrates the flow visualization phenomena for our first 'Get Wet' assignment. Our overall goal is to create ball like figures out of different mixture of liquids. We went through many different creations before we finally decided on what liquids we would use for my final piece. We wanted to get a very clean and clear picture with the smallest amount of blur in it so we used liquids that would hold in place for a while. The ingredients used in our final image consisted of vegetable oil, food coloring, and heavy whipping cream.

The purpose of this image is to show what happened when oil is poured into a cup of heavy whipping cream. We filled a small cup, about 5 inches wide, with heavy whipping cream. We mixed in a purple food coloring into the cream. We then quickly poured the vegetable oil into the cup on top of the cream. We poured it in quickly so it would disturb the cream more than if we slowly dropped it in. When the vegetable oil mixed with the cream, the oil rose to the top while the cream rolled up into little balls that mostly stayed toward the bottom of the cup, but some small began to float upwards.

The only three materials used to create this image were whipping cream, any type of food dye, and any kind of oil. This particular image was taken indoors, with a flash. In the original picture, there was a spot that was de-

saturated of color because of the bright flash, but we eventually fixed it using Photoshop.

For this project we used a 30 mm Canon EOS Digital Rebel XT. When shooting the image, we held the camera about 3 inches away from the top of the cup. It was a manual exposure with the shutter speed 1/200. The aperture in this picture is f 5.6, with the ISO speed at 400. The focal length in this image is 51.0 mm. The size of this photo is 2.9 MB. The width is 3456 pixels while the length is 2298 pixels. The only adjustments we made on the image in Photoshop were covering up the flash reflection using the clone stamp tool. We also increased the contrast to a +24. Other than that the image is exactly how it originally was when taken.

The image reveals what happened when oils and thick milk products are combined. We like the overall look of the piece, there are just a few sections that could be more clear and sharp. The lighting could use a little work; maybe we would try it with out a flash in the daylight. Overall we believe the photo illustrates our ultimate outcome very well. If we were to do it again, I would like to try more colors and get an image that was just the balls in it, maybe more floating up wards, to show the depth of the cup.