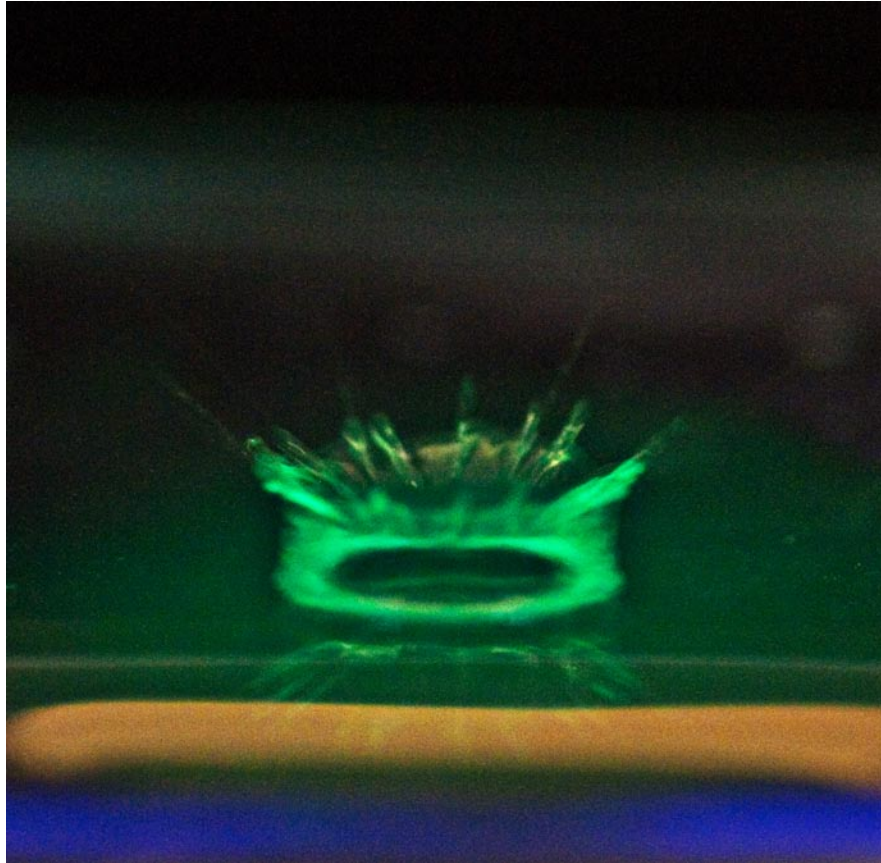


Flow Visualization: Group Project 02

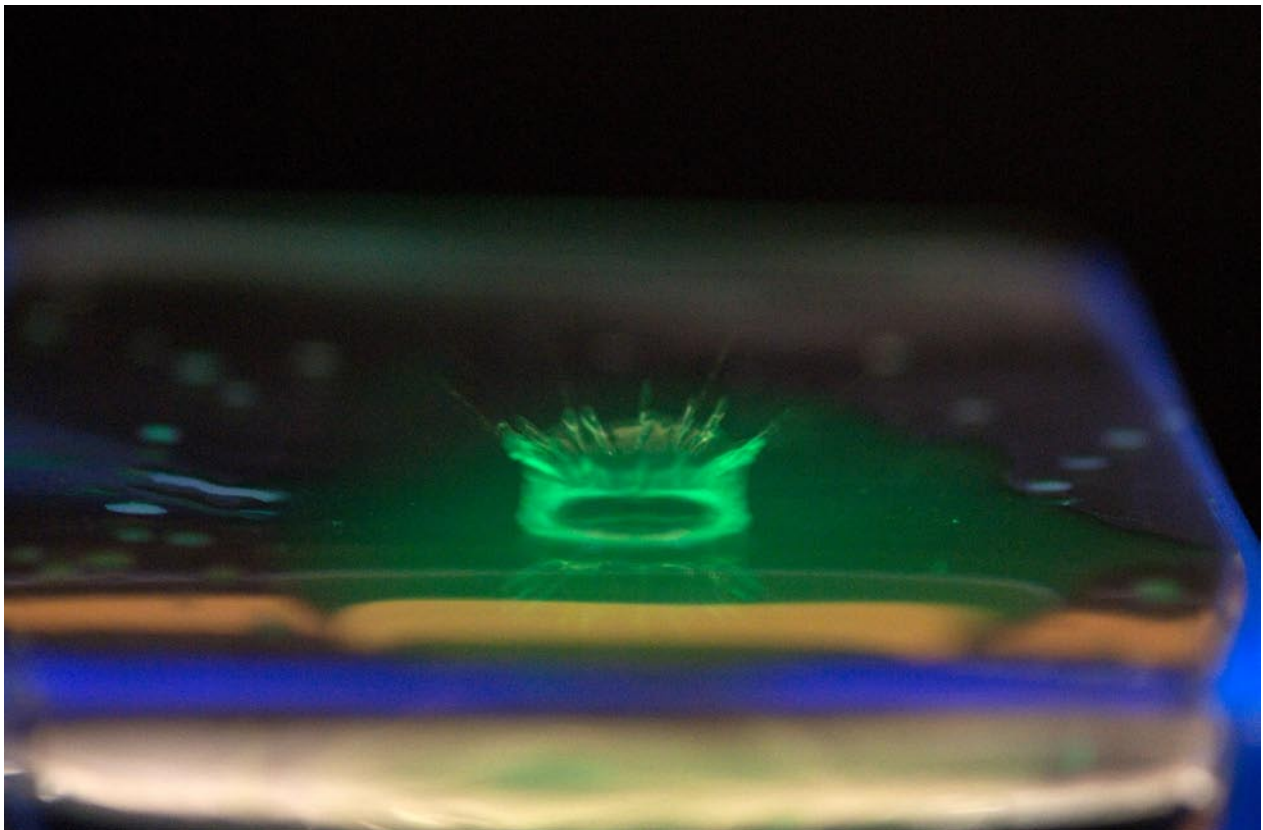


Modified final image

The group focused on capturing the crown effect of a fluorescent fluid on top on a black light. We mainly focused on the interaction between the interface of the solid and the fluid, at the moment the collision exhibits restitution. In this phenomenon, the low Reynolds number indicates that the flow is dominated by surface tension and viscous forces. The image was captured using a very short shutter speed with high camera ISO sensitivity.

I chose the final based on the sharp contrast between the physics, colors, and the reflection exhibited on the lower part of the photograph. Photoshop was used to enhance the flow

and display, in detail, the concentration gradients. A high pass filter was overlaid on top of the original image, and set to 36.8.3 pixels. Afterwards, picture cropping brought the raw image down to a manageable size. The original image size is 4288 x 2848 pixels down to 2066 x 1999 pixels. Curves option was used to create a deeper, more vivid contrast between the fluorescent color and the dark background. Other than the high pass filter, curves, and picture cropping, no other photo enhancements were done in Adobe Photoshop.



Unmodified final image