

## Visual Delights II: Interactive Bubbles in a Mondrian's Painting



**Objective:** Demonstrate Bubble Motion in Viscous Fluid

**What:** Thin enclosure contains dyed glycerin in three separate sections with small volumes of air in each. Designed primarily as a decorative device, I added a fluid dynamics twist, air bubbles, to a Piet Mondrian painting (Dutch painter, 1872-1944). Mondrian's most well-known paintings are abstract compositions of black-bordered rectangles with colors of white, red, blue and yellow within the rectangles.

**How:** Pick up the enclosure from its stand and turn it upside down. Observe the motion of bubbles as they rise through glycerin. Because the spacing between front and back is only 1.6 mm, air bubbles are flattened and clearly seen. Bubbles break into smaller ones after the enclosure has been turned several times, providing for more visual engagement.