

**2017 HARI SHANKAR MEMORIAL LECTURE**  
*Presented by the University of Northern Iowa Department of Mathematics*

# Fluid Adventures: Where Mathematics Meets Art

## Dr. Rachel Levy

Harvey Mudd College



Artists have long used water and other fluids as a subject for their work. Fluid mechanists also create visualizations to explain or understand natural phenomena. Some images are created not only to provide scientific insight, but also to engage the viewer. With photographer Ken Fandell at Harvey Mudd College, I taught a course called Fluidity that introduced students to fundamental properties of fluids in the context of both art and mathematics. Our students created photographs and videos to communicate quantitative and aesthetic information about fluids. In this lecture-demo I will use student work from the Fluidity course to introduce my own applied mathematics research on the dynamics of surface tension.

**FRIDAY, MARCH 31, 2017**

**Lantz Auditorium,  
McCullum Science Hall**

**7:30 PM**

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IMAGE:  
Emma Meersman  
(Harvey Mudd College  
Class of 2016)

