

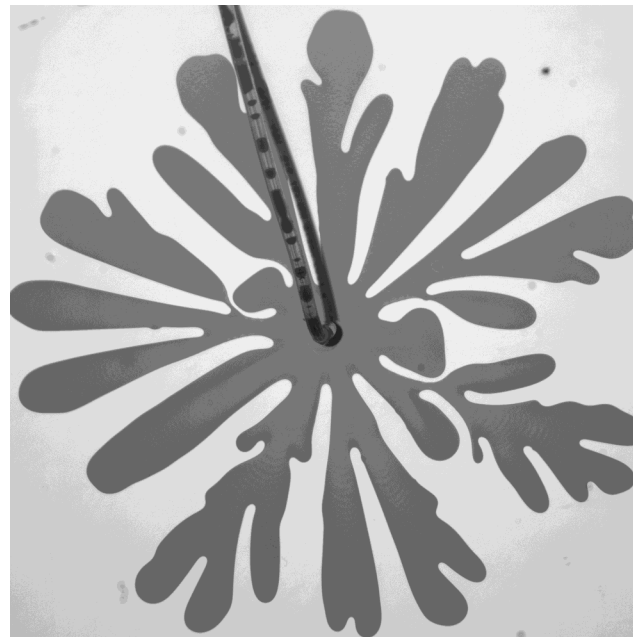
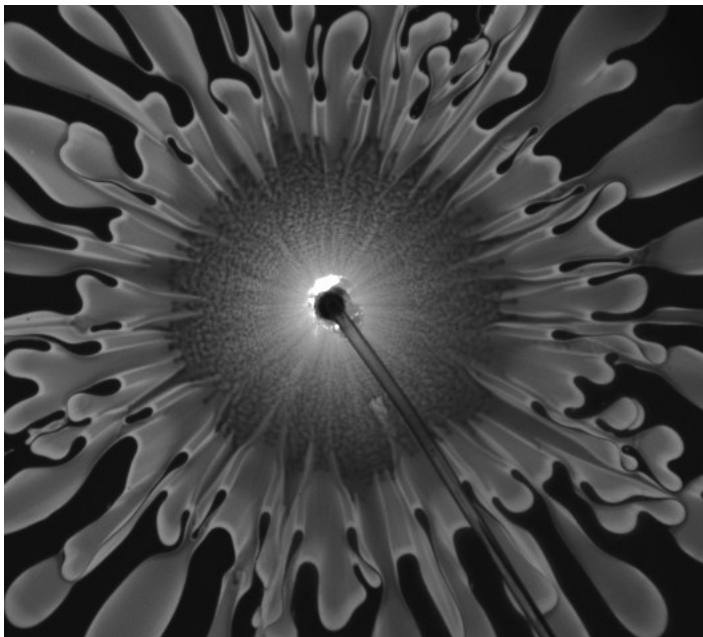
PHYSICS COLLOQUIUM

Wednesday, March 12 | 2:00 - 3:00 p.m. | RNS 210



Pattern Formation in Fluid Flows: Creating Fingers and Toes in Viscous Flows

Patterns are all around us, from the fractal like appearance of leaves and branches to the very symmetrical shape of soap bubbles and water droplets, we find them everywhere in nature. An exploration of why things appear the way they do gives us an understanding of the physical world. In this talk, we will look at how to gain insights into physical phenomenon by observing and studying the patterns that are formed as a result of these processes. In particular, I will talk about a fluid mechanics phenomenon called *viscous fingering* which shows different types of pattern formation on changing the conditions.



Radha Ramachandran

Ms. Ramachandran is a graduate student in the physics department at the University of Chicago. She experimentally studies Hele-Shaw flows in Prof. Sidney Nagel's lab at the James Franck Institute. Prior to this Ms. Ramachandran received her B.Tech degree in Chemical Engineering at the Indian Institute of Technology, Madras.