Title: Free Boundary Problems Sunhi Choi

Abstract: A free boundary problem is a PDE to be solved for an unknown domain \$\Omega\$. In other words, a domain of a solution is determined by the PDE. The boundary of \$\Omega\$ is called the free boundary. In this seminar, I will introduce the Hele Shaw problem, the Stefan problem and a problem arising from flame propagation, as examples of free boundary problems. I will also talk about my recent research on flame propagation.