Title: An introduction to the mod p Langlands Program

Abstract: One of the crowning achievements of 20th century mathematics is Class Field Theory, which has its origins in Gauss' Law of Quadratic Reciprocity, and which (among other things) gives a description of all abelian field extensions of the rational numbers. This turns out to be the beginning of the Langlands Program, a wide-ranging web of conjectures that connects the areas of Number Theory, Representation Theory, and Algebraic Geometry. I'll give an introduction to this circle of ideas, and discuss a fairly recent development: the mod p, "local" version of these conjectures. I'll also indicate how this variant can be used to shed light on some questions arising from geometry.