April 9: Alan Roche (University of Oklahoma),"Hecke algebras and representations of reductive p-adic groups." The first part of this talk will review some results of Bernstein which relate the representation theory of a reductive p-adic group to the module theory of certain endomorphism algebras. I will then present some of the overwhelming evidence that these algebras are closely related to affine Hecke algebras. In the final part of the talk, I will discuss some work in progress, joint with Phil Kutzko, which seeks seeks to explain this phenomenom.