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E E Eischen*, Mathematics Department, Fenton Hall, Eugene, OR 974031222. *Automorphic forms, congruences, and p -adic L -functions.*

The study of p -adic properties of values of L -functions dates back (at least) to Kummer's study of congruences between values of the Riemann zeta function at negative odd integers. The study of p -adic L -functions really took off, though, a century later with Serre's discovery of p -adic modular forms. With a viewpoint that encompasses several settings, including modular forms (GL_2) and automorphic forms on higher rank (namely, unitary and symplectic) groups, I will discuss a recipe for constructing p -adic L -functions that relies strongly on the behavior of automorphic forms. Recent developments will be put in the context of more familiar constructions of Serre, Katz, and Hida. (Received December 31, 2018)