Ben Phillips* (benjamin.phillips@wmich.edu). The Bruck Functor. Preliminary report. In this talk we shall re-examine a result due to Bruck, which describes a method for studying loops via their multiplication groups. We'll show that the process outlined by Bruck is actually best described in modern terms with Category Theory, by showing the existence of a covariant functor from the category of loops and loop homomorphisms to the category of groups and group homomorphisms. Time permitting, we'll also delve into some interesting properties and consequences relating to this functor. (Received August 30, 2010)