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**M Kate Kearney\*** ([kearney@gonzaga.edu](mailto:kearney@gonzaga.edu)). *Stable Concordance Genus of Knots.*

The concordance genus of a knot is the least three–genus of a knot concordant to the knot. The concordance genus is bounded below by the four–genus (or slice genus), and bounded above by the three–genus. This makes the concordance genus a valuable tool to describe the difference between these invariants. In simple cases the concordance genus is not difficult to calculate, since there are a variety of algebraic tools that give bounds for the concordance genus. Unfortunately, as the crossing number increases, it becomes increasingly difficult to find concordances. The stable concordance genus, which we will discuss in this talk, describes the behavior of the concordance genus of a given knot under connect sum. We will briefly define the invariant, give some examples of calculations, and discuss applications to the study of concordance. In particular, we will observe a realization result for the stable concordance genus in relation to the stable four–genus. (Received September 16, 2015)