

1086-VG-581 **Liliana Maritza Alvarez*** (lalvarez2@my.apsu.edu), **Anne Maree French** and **Ramanjit K Sahi**. *Stochastic Applications of Knots and Literature*. Preliminary report.

Our presentation demonstrates the various usages of Markov chains. Branching out, Markov chains and stochastic processes have been found to have applications in knot theory. We will study different types of knots created from n-length words in association to Markov chains. Using graph theory as an instrument, we will see the linkage between the world of literature and knot theory. (Received September 07, 2012)