Carol S. Schumacher* (schumacherc@kenyon.edu), Department of Mathematics, Kenyon College, Gambier, OH 43022. Infinite Polite Speeches, König’s Lemma, and Aperiodicity.

The talk will begin with a whimsical discussion of an island where residents don’t care what you say as long as you say it politely. (They also have a very limited vocabulary!) I will use this amusing tale to prove a version of König’s lemma and to establish the aperiodicity of the Morse-Thue Sequence. I will end the talk by connecting all of this to aperiodic tilings of the plane. (Received September 30, 2004)