1141-05-110 **James M Hammer*** (jmh0036@auburn.edu), 100 College Drive, Curtis 219, Allentown, PA 18104, and **John Asplund**, **Joe Chaffee** and **Matt Noble**. *γ'-Realizability and Other Musings on Inverse Domination.*

This talk will introduce and study γ'-realizable sequences. For a finite, simple graph G containing no isolated vertices, $I \subseteq V(G)$ is said to be an *inverse dominating set* if I dominates all of G and I is contained by the complement of some minimum dominating set D. Define a sequence of positive integers $(x_1, \ldots, x_n)$ to be *γ'-realizable* if there exists a graph G having exactly n distinct minimum dominating sets $D_1, \ldots, D_n$ where for each $i \in \{1, \ldots, n\}$, the minimum size of an inverse dominating set in $V(G) \setminus D_i$ is equal to x_i. In this work, we show which sequences having minimum entry 2 or less are γ'-realizable. We then detail a few observations and results arising during our investigations that may prove useful in future research. (Received July 22, 2018)