Meeting: 1004, Bowling Green, Kentucky, SS 2A, Special Session on Graph Theory

1004-05-232 **Alison M. Marr*** (amarr@siu.edu), Department of Mathematics, Mail Code 4408, Southern Illinois University, Carbondale, IL 62901-4408, and **John P. McSorley**, **Thomas D. Porter** and **W. D. Wallis**. *Closed neighborhood anti-Sperner graphs.* Preliminary report.

A simple graph G is closed neighborhood anti-Sperner (CNAS) if the set of closed neighborhoods of G, $\mathcal{F}(G) = \{N_G[u] \mid u \in V(G)\}$, is anti-Sperner, *i.e.*, every member of $\mathcal{F}$ is contained in another member of $\mathcal{F}$. In this talk we examine various properties of CNAS graphs. (Received January 25, 2005)