

**Meeting:** 1006, Lubbock, Texas, SS 12A, Special Session on Graph Theory

1006-05-246      **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**. *Properties of 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 February 15, 2005)