1135-VT-346 **Xiaonan Zhu*** (xzhu@nmsu.edu), **Baokun Li**, **Tonghui Wang** and **Arjun K. Gupta**.
Sampling distributions of skew normal populations.

The sample mean and sample variance are commonly used statistics. In this talk, sampling distributions of mean and variance from a skew normal population are derived under closed skew normal (CSN) settings. The relationship between the CSN distribution and other multivariate skew normal distributions is investigated. The noncentral closed skew chi-square distribution is defined, and the distribution of quadratic forms is discussed. Several examples are given for illustration of our results. (Received August 26, 2017)