Program Introduction
We will present an overview of TexMesonet and its challenges as a statewide environmental monitoring network in the second largest state in the U.S.

TexMesonet Modernization
As technology has advanced mesonets have been slow to catch up; for just cause. Relying on proven technology allows for data continuity and comparison. TexMesonet attempts to bridge the gap while improving ease of install, use, and maintenance. Although this will be conducted in a presentation style, it will be conducted in an informal manner to allow open discussion.

Power Budget & Communications
We will discuss what are the power requirements for a mesonet, what it entails, how much is enough, and determining what is the appropriate degree of back-up. The second
half of the discussion will cover radio and cellular data transmission, and factors affecting your choice of communication.

**Hands-on**
The hands-on session will cover wiring TexMesonet sensors to a datalogger; programming sensors; changing and setting SDI-12 sensor addresses; and writing, modifying, uploading and downloading a datalogger code. This will be followed by case study problems and troubleshooting.