

**ATS/CIRA Colloquium**

**Dave Turner**

**Visiting ATS from NOAA**

**The Land-Atmosphere Feedback Experiment**

**Hosted by Sue van den Heever**

**Friday, Feb. 2, 2018**

**ATS room 101**

**Discussion will begin at 11:15 a.m.**

**Refreshments will be served at 10:45 a.m. in the weather lab**

The Land-Atmosphere Feedback Experiment (LAFE) was conducted at the ARM Southern Great Plains (SGP) site in north-central Oklahoma from 1-31 August 2017. This experiment deployed multiple scanning wind, temperature, and humidity lidar systems, additional surface energy balance stations, an Unmanned Aerial System, and a fixed wing aircraft to characterize the role of surface inhomogeneity and its impact on the atmospheric surface layer, the convective boundary layer above it, and the entrainment zone. I will provide some of the motivation for LAFE, our observational approach, and results from an excellent land-atmosphere interaction event: the 2017 solar eclipse.

Link to colloquia page: <https://www.atmos.colostate.edu/colloquia/>