## **ATS/CIRA** Colloquium

## **Daniel Murphy**

Visiting ATS from the NOAA ESRL Chemical Sciences Division

## Using data sets to constrain aerosol sources and radiative forcing: from micro to macro

**Hosted by Jeff Pierce** 

Friday, October 18, 2013

## ATS room 101; Discussion will begin at 11:15am Refreshments will be served at 10:45am in the weather lab

Aerosol radiative forcing is the difference between the radiative effect of aerosols now and during preindustrial times. Calculating that difference requires understanding the sources of the particles. I will present how data sets as diverse as single particle analysis, the IMPROVE ground-based network, and satellite data can be used to constrain the sources and radiative forcing of aerosols. I will consider the sources of lead and soil dust in the United States and move to some satellite-derived estimates of global aerosol sources and how they are changing.

Link to colloquium videos and announcement page: http://www.atmos.colostate.edu/dept/colloquia.php