



Ever since I read an article on desertification, in my college astronomy class, I have been keen on the potential of earth system models to give us insight into biospheric function, and to help us better manage our environment

- B.A. in Astronomy at Vassar College ('75)
- M.S. Environmental Studies at Duke Forestry & Environ. Studies ('79)
- Worked in air pollution modeling and in climate modeling projects at:
  - Computer Sciences Corp. ('84 '91); and University of Arizona ('91-'93)
- Ph.D.in Civil Engineering at WSU (2000).
  - Doctoral research-- Columbia Plateau PM<sub>10</sub> Program:
    - Shadowband Radiometric measurement for AOD
    - Satellite imagery analysis for AOD
- Postdoc at LAR/CEE -- development of AIRPACT and ClearSky AQ EDSS
- Research Assistant Professor at LAR/CEE 2004 -- present.

## Ongoing, Recent and Current Projects:

- NW-AIRQUEST -- ongoing development and support of AIRPACT daily AQ and ClearSky agriculture burning plume forecasting systems for the Pacific and Inland Northwest.
- Forest Service -- Extraction of AIRPACT nitrogen deposition results, both matching high-elevation forest site resin tube samples and domain-wide, monthly totals.
- Park Service -- Vulnerability of Minidoka (Japanese-American WWII Internment Camp) National Monument to CAFO emissions.
- NASA ROSES -- Application of satellite data for air quality modeling (AIRPACT)