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Laboratory
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*STORM PEAK LABORATORY (SPL) MISSION STATEMENT:
To ensure that the Storm Peak laboratory will continue to
integrate climate research and education by advancing
discovery and understanding within the field of pollution
aerosol and cloud interactions.*

***Unique, high elevation, mountain-top atmospheric research
facility readily accessible under all weather conditions!!!***

Gannet Hallar - Short CV

1999 Undergraduate - Physics Truman State University

2003 M.S./ Ph.D. - Atmospheric Sciences

University of Colorado at Boulder

Title of dissertation: *“Use of Tunable Diode Laser Closed Path Hygrometer for the Measurement of Total Water in Tropopause Cirrus”*

2004 – 2006 NRC Postdoctoral Associate

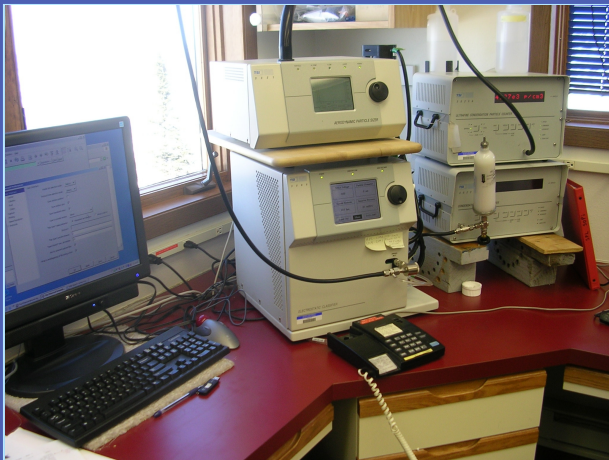
NASA Ames Research Center, Moffett Field, CA;

Advisor: Dr. Anthony Strawa

Research with Atmospheric Aerosol Optical Instrument using Cavity-Ring-Down Optical Sensing Technique



Current Equipment



- Cloud droplet size distributions
- CO₂ Measurement
- O₃ Measurement
- Radiometer
- Pyranometer
- Snow Video Spectrometer
- Cold Room with Microscopes
- Aerosol size distributions
- Cloud Condensation Nuclei (CCN)
- Meteorological Station



Links to Conference

- Currently leading plans for a joint DOE and NSF summer/winter field campaign at Storm Peak Laboratory which has been designed to help answer the following questions.....
 - What is the contribution of WSOC to hygroscopic growth under sub- and super-saturated conditions?
 - What are the chemical and physical properties of bulk OC and WSOC?
 - What is the contribution of SOA to particulate organics and WSOC?
 - How important is in-cloud processing to formation of hygroscopic organics?
 - What are the chemical and physical signatures of different aerosol sources including distant urban areas as well as local and distant biomass burning?
 - How well do different formulations and parameterizations of Köhler thermodynamic equilibrium theory account for the hygroscopic growth and CCN activity of mixed inorganic and organic aerosols?

Field Courses – Always looking for more!

- Atmospheric Science Winter Field Courses
 - Currently used by 5 Universities for atmospheric science field courses (Graduate and Undergraduate):
 - Univ of Nevada, U of Wisc., Colo State, CCNY, U of Calgary
- Summer Field Courses
 - NSF Award for Undergraduate Courses promoting diversity in geosciences

