

The Advanced Study Program (ASP), at The National Center for Atmospheric Research (NCAR) announces:



# EXPLORING THE ATMOSPHERE

## OBSERVATIONAL INSTRUMENTS AND TECHNIQUES

A joint ASP summer colloquium with the NCAR Earth Observing Laboratory (EOL), University of Wyoming (UWyo), Department of Atmospheric Science and Colorado State University (CSU), Department of Atmospheric Science

### ORGANIZERS:

Wen-Chau Lee, Jorgen Jensen and Steve Oncley (NCAR/EOL), Alfred Rodi (UWyo), Steven Rutledge (CSU)

## May 31-June 12, 2009, Boulder, Colorado, USA

### PURPOSE

Observations of the atmosphere underpin even the most sophisticated atmospheric computer models. The NCAR/ASP Summer Colloquium aims to give graduate students an introduction to the instrumentation and techniques used to observe the lower atmosphere. The primary target audience are advanced graduate students that have completed at least one year of coursework. The Summer Colloquium is designed around three main goals:

To introduce graduate students to principles and operation of the National Science Foundation (NSF) Lower Atmosphere Observational Facilities (NCAR C-130 aircraft, and the University of Wyoming King Air research aircraft; CSU National Weather Radar Facility (CSU-CHILL), and NCAR S-band Dual Polarization Doppler Radar (S-POL) ground-based radars; University of Wyoming airborne radar; NCAR/EOL surface flux, sounding and wind-profiling instruments; and selected NCAR/EOL and NCAR Atmospheric Chemistry Division (ACD) chemical tracer instruments).

To teach graduate students how to plan and conduct limited experiments using the aircraft, radars, surface station and related instruments. All the participants will design and execute a 2-day measurement campaign using the above facilities, as selected by smaller groups of students.

To guide the participants in the analysis of the observations they collect. EOL, CSU and UWyo staff will instruct the students to use standard tools used for observational research from the above platforms, and the students will work in groups on small, well-defined research projects to be presented at the end of the second week of the colloquium. Invited guest lecturers will give talks each morning on the three main topic areas. ASP will fund travel and living expenses for about 25 student participants during the Summer Colloquium. For more information and how to apply, please see the NCAR Advanced Study Program website:

[www.asp.ucar.edu/colloquium/2009/EOL/index.php](http://www.asp.ucar.edu/colloquium/2009/EOL/index.php)

**Applications are due to the ASP by March 9, 2009**

After the Colloquium, participants are encouraged to participate in the 2nd NSF Facility Users' Workshop in Boulder, CO., from 6/15-6/17 (information can be found at: [www.eol.ucar.edu/nsfw2009](http://www.eol.ucar.edu/nsfw2009)). Funded ASP Summer Colloquium students can expect to be further funded by EOL to participate in the NSF Facilities Users' Workshop.

This workshop is a natural extension of the ASP summer colloquium where a variety of topics ranging from requesting NSF Observing Facilities to the changing scope of executing and managing global field campaigns will be discussed. Colloquium participants will have opportunities to interact with experienced users of NSF observing facilities.



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Advanced Study Program

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