

Hosted by Xinzhao Chu and Joe She
24 June 2010 @ Boulder



CEDAR Mini LIDAR School

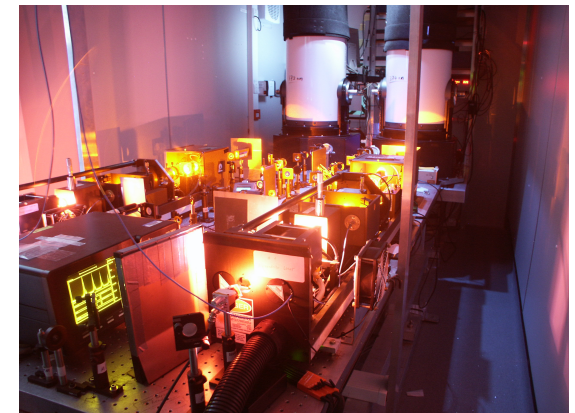
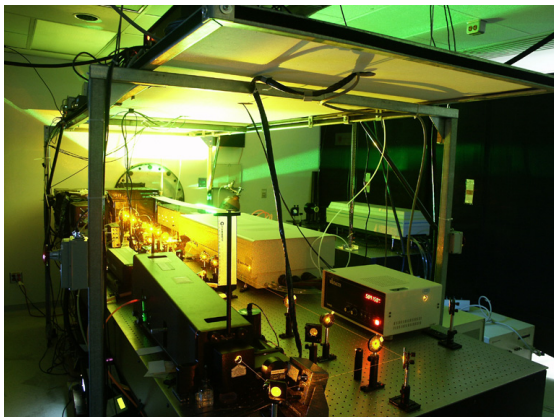
Tutorials: 1:30–3:30pm @ Benson 180

- Lidar Overview (Xinzhao Chu)
- Na wind and temperature lidar (Chiao-Yao She)
- Rayleigh lidar and its applications (Andrew Gerrard)
- Resonance fluorescence lidar for species study (Shikha Raizada)

Posters: 23–24 June 2010 @ Math-100 and Benson 180

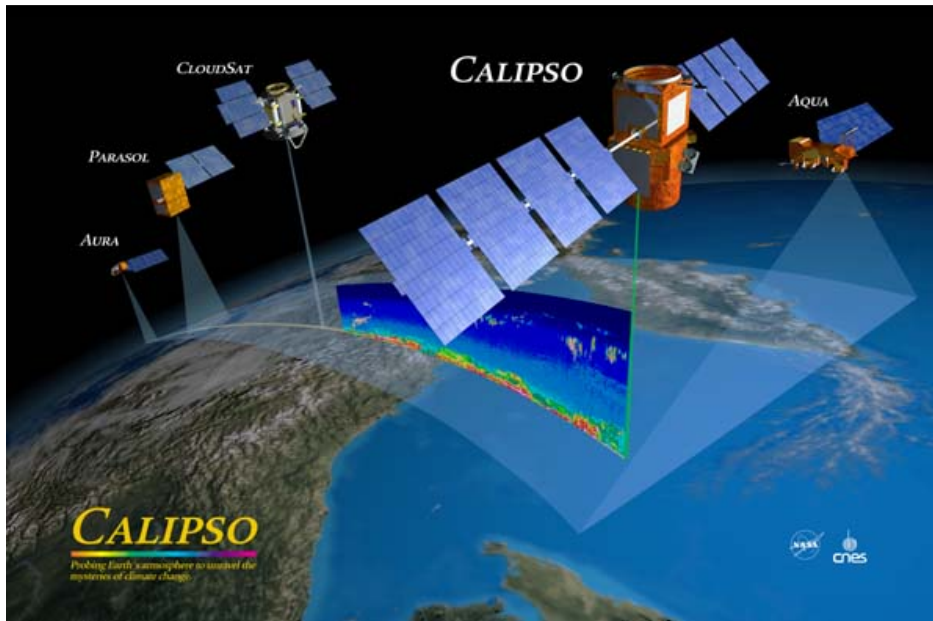
Field Trip to Table Mountain Lidar Observatory: 3:45–5:45pm

Lidar Run: 9:00pm @ Table Mountain Lidar Observatory

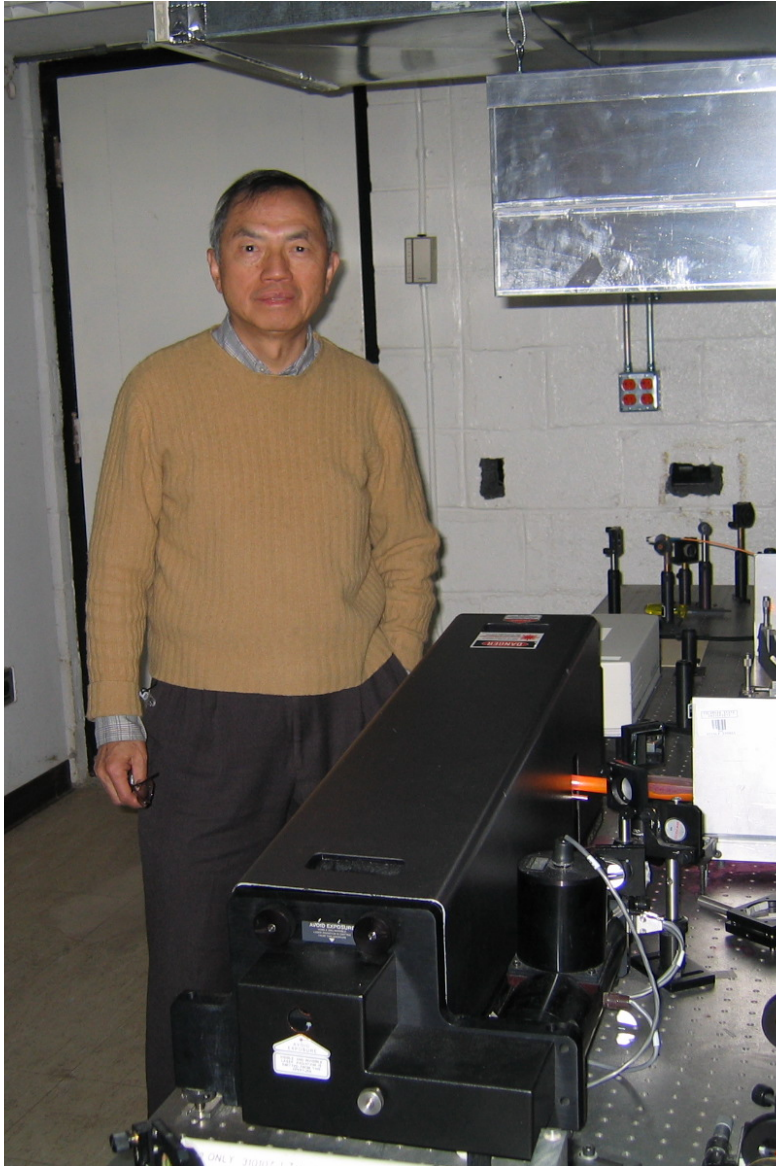


Motivations

As one of the most powerful tools in the CEDAR community, lidar intrigues many students and researchers, even though its reputation has been “very difficult and sophisticated to build and operate”. How to convert a column of photon counts into meaningful physical parameters also remains a mystery to many people who want to use lidars or lidar data. Hosted by the CRRL/CTC, this “mini” lidar school is to provide tutorials and field tours to bring people into the lidar world -- “opening” the gate to reveal the beauty of lidar for CEDAR science.

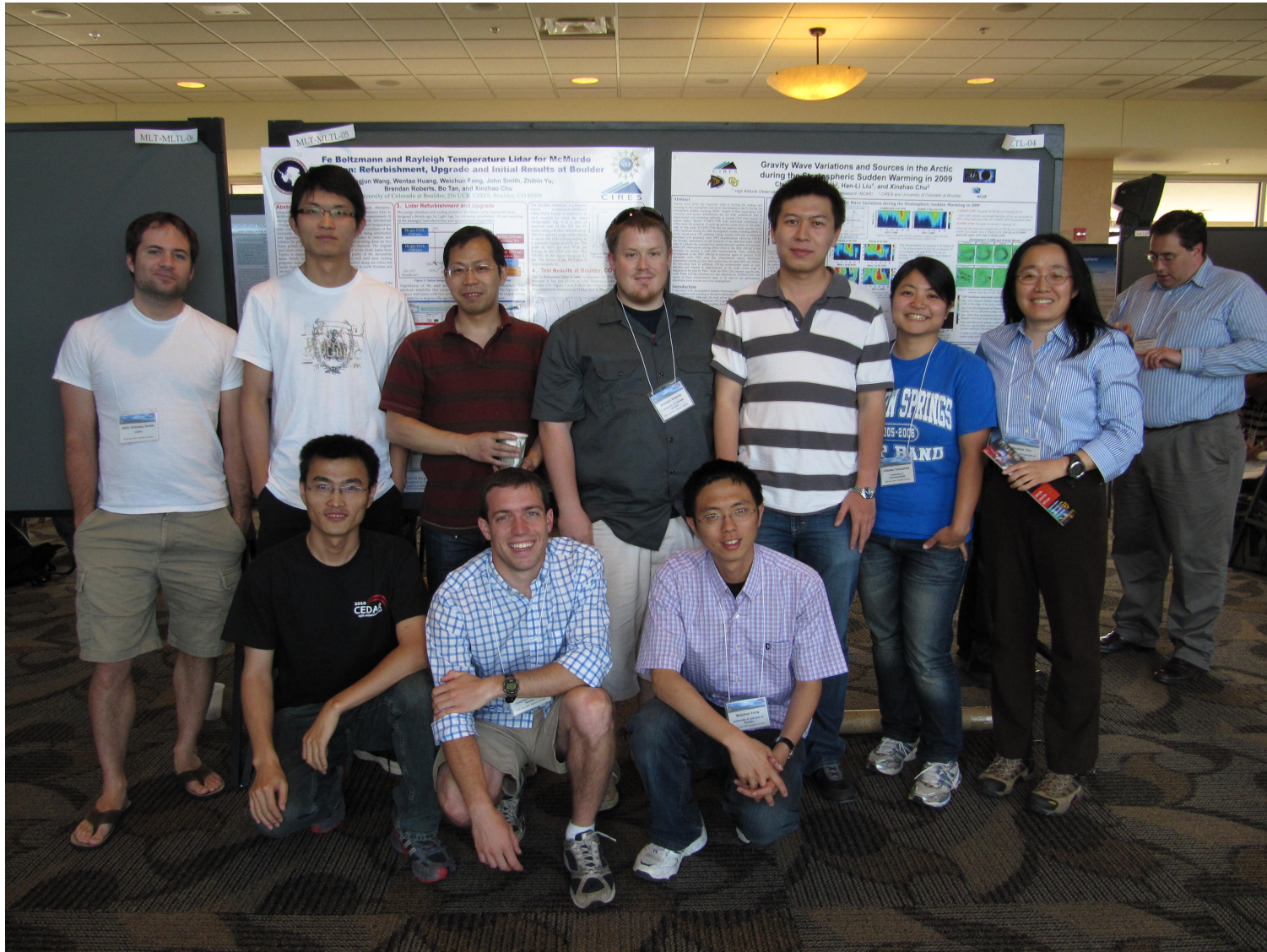


Pioneers: Dr. C.-Y. She & Dr. C. S. Gardner





Contributions from



Lidar References

Lidar Class:

A 6000-level graduate class on **Lidar Remote Sensing** is offered by Professor Xinzhao Chu at University of Colorado. The class is accessible from the web:

<http://cires.colorado.edu/science/groups/chu/classes/lidar2008/>

Lidar Books:

- 1). Laser Remote Sensing (2005)
- 2). Lidar (2005)
- 3). Laser Remote Sensing (1984)
- 4). Lidar Applications in Remote Sensing (paper collection)
- 5). Laser Distance Measurements (paper collection)

Lidar Conference:

International Laser Radar Conference (ILRC) -- biennial