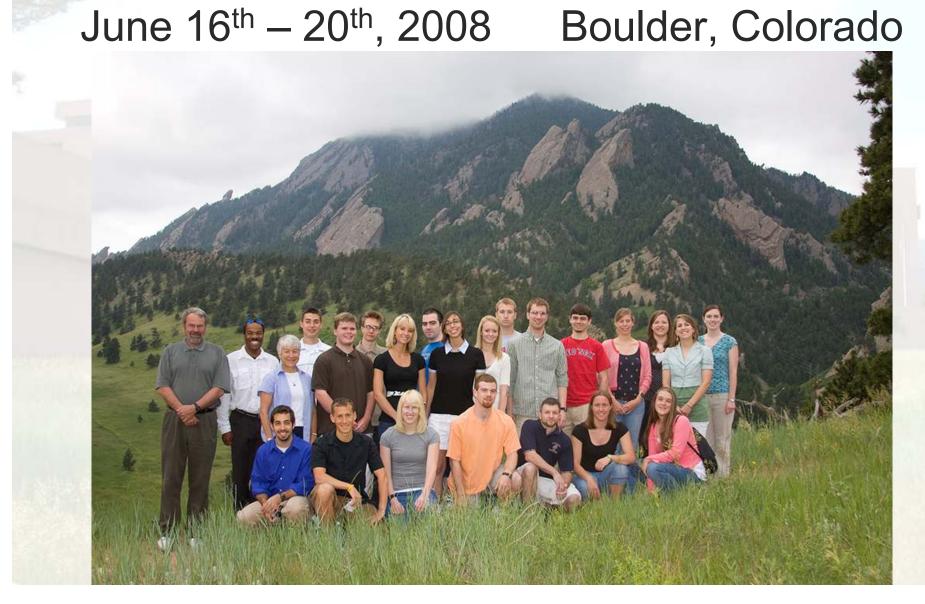
NCAR Undergraduate Leadership Workshop



NCAR and UCAR

- UCAR: University Corporation for Atmospheric Research
 - Consortium of universities (71 in NA; ISU is one of them) and committees
 - Not-for-profit
 - Funded largely by the National Science
 Foundation
 - Manages NCAR

NCAR and UCAR

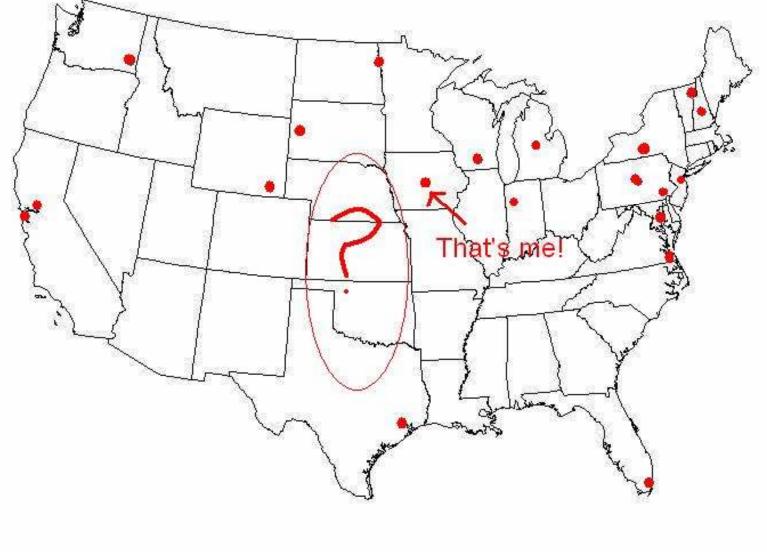
- NCAR: National Center for Atmospheric Research
 - Collection of laboratories in Boulder
 - Atmospheric AND environmental research
 - Acronyms GALORE!
 - CISL, EOL, ESSL, *RAL*, SERE, IMAGe, ACD, CGD, HAO, *MMM*, TIIMES, ASP, CCB, ISSE; Including UCAR Office of Programs: COSMIC, *COMET*, DLESE, GLOBE, JOSS, NSDL, Unidata Program Center, VSP

NCAR ULW

- Application required
- Program designed for seniors-to-be in atmospheric sciences (grad school? Yes/No)
- Introduction to the many various areas of research that occur at NCAR
- Leadership component (heavily weighted on communicating climate change)
- 2008 edition was eighth annual
- 21 attendees from all across the country
- Most were meteorology majors, but there were oceanography and engineering majors represented, too



NCAR ULW Representation

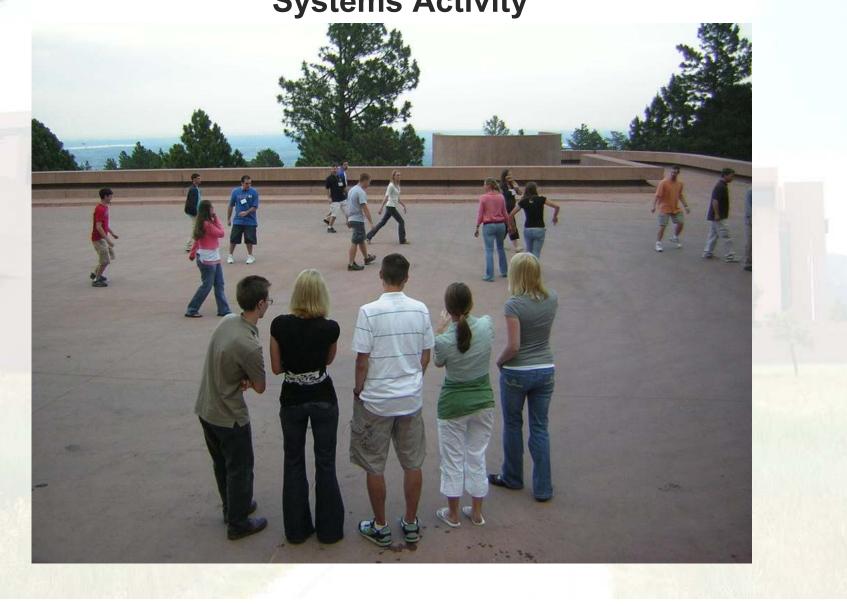


Monday: Mesa Lab

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- Building designed by I.M. Pei (MVNP)
- Introductions: NCAR, UCAR, etc.
- IPCC lead author Jerry Meehl
- Leadership seminar Climate change
- Paleoclimate
- Viz Lab
- Tours megaubercool supercomputers!

Monday: Mesa Lab Systems Activity



Tuesday: Foothills Lab #4



Tuesday: Foothills Lab #4

- Research meteorology
- Space weather HAO
- Unidata
- DOWs!
- Machine shop
- Earth System Research Laboratory NOAA, space weather, atmospheric chemistry, Science on a Sphere!

Tuesday: Foothills Lab #4

Doppler on Wheels









Tuesday: Rocky Mountain NP



Wednesday

- Technology and transfer RAL/RAP, Roger Wakimoto
- Biocomplexity & chemistry, atmospheric chemistry and plants
- Societal impacts WAS*IS
- Clouds in climate models
- Boulder Reservoir
- Aviation technology!!!

Wednesday: RAF

- Gulfstream-5: ~\$80 million research aircraft
 - Departed for research flight over northern plains the day we were at RAF
 - Got to watch live data stream while discussing mission with scientists who put instruments on the flight
- C-130 & P-3 research aircraft

Wednesday: Cool Planes









Thursday: Education and Outreach

- Career panel SORS
- Libraries NSDL & DLESE
- Journalism
- Education and outreach experiments, partnerships (SORS)
- COMET
- Lab for Atmospheric and Space Physics
- 29th St. Mall and "Green" house

The "Green" House Complete with its own \$50,000/ct. solar energy panels!



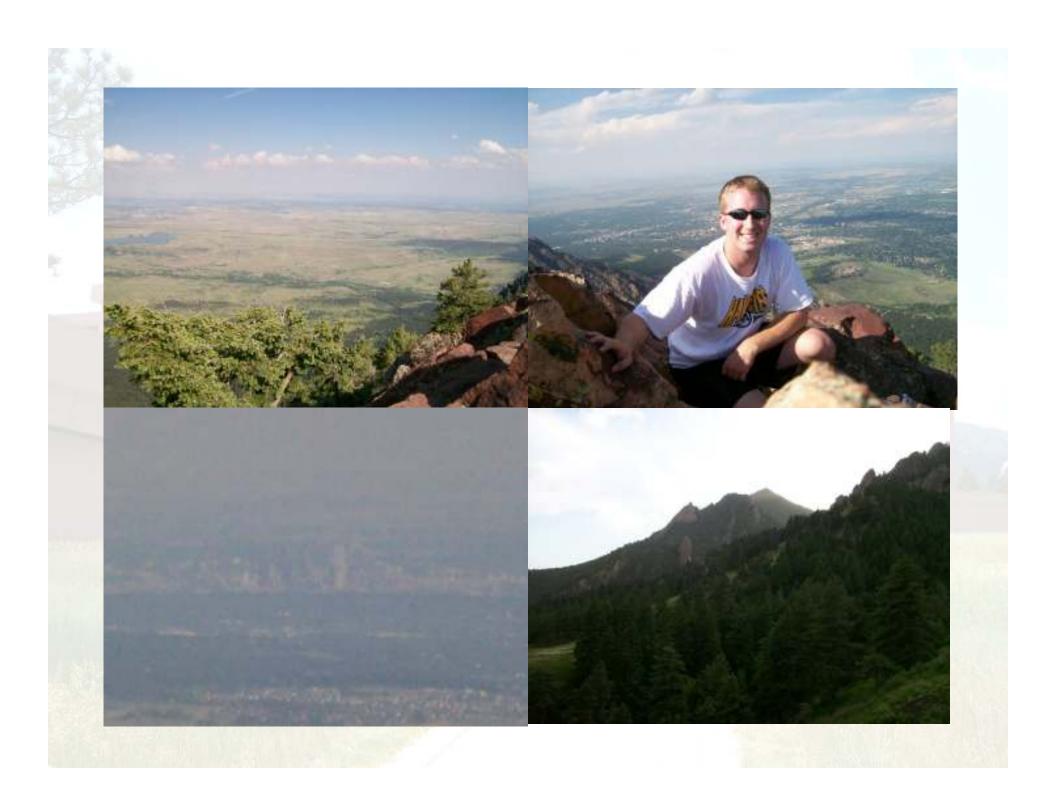
NCAR ULW Wrap-Up:

Included student presentations (gasp!) – no big deal











Thank you for listening!

Questions? Curious? E-mail me at jdduda@iastate.edu or ask me after the meeting

