NCAR Undergraduate Leadership Workshop
June 16th – 20th, 2008 Boulder, Colorado
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**, T1IMES, 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
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- 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 (SOR S)
- 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
Colorado!
Thank you for listening!

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