



2009 Summer Workshop on Atmospheric, Earth and Space Sciences for High School Students

This workshop features an exciting five-day agenda in meteorology, astronomy, land remote sensing and geology. Participating students stay on campus in college dorms and experience education, research and technology through hands-on activities working directly with scientists, graduate students and professors.

Purpose

- Acquaint high school students with the earth and atmospheric science professions
- Demonstrate modern satellite and computer-based tools used in scientific research, education and operational settings such as a TV Weather Studio and the National Weather Service
- Demonstrate the relationship between different Earth Science disciplines

Topics

Earth Science	Plate tectonics, glaciology, earthquakes and tsunamis
Atmospheric Science	Weather satellites, map analysis and forecasting, global climate change, and an in-depth case study of a local weather event
Remote Sensing	Natural resource monitoring, digital image processing, GIS (geographic information systems) computer lab sessions
Astronomy	Learning about summer constellations & current space missions

Activities

- Study satellite imagery and aircraft photographs of Wisconsin; learn to interpret remote sensing data
- Create satellite images and weather graphics using a state-of-the-art computer system
- Participate in discussions about Earth's weather and Global Climate Change
- Take a field trip to Devils Lake State Park to see the effects of the most recent glacial period and walk through a "billion years of geologic history"
- Visit a TV Weather Studio and the National Weather Service
- Visit the UW planetarium and UW Space Place

Dates

Sunday, 26 July, to Thursday, 30 July 2009. Check-in time is 4-5 p.m. on Sunday. The students return from a field trip at 4:30 p.m. on Thursday. CIMSS staff will work with parents to accommodate air travel and airport transportation. Additional fees may be required for early arrivals or Friday departures.

Requirements

- Students must send a completed application form, including a signature from their science teacher, with \$75 deposit and an essay describing why they want to attend the workshop. Deadline for applications is 30 April 2009. Fees may be paid to SSEC by check or credit card.
- The remaining \$400 workshop fee is due by 5 June 2009. All participants must provide transportation to and from UW-Madison. We can accommodate 20 students.

Information

Contact Maria Vasys at (608) 263-7435. For a complete description and pictures of last year's program, visit our Web site at <http://cimss.ssec.wisc.edu/studentworkshop/>



hosted by
Space Science and Engineering Center
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Department of Geology and Geophysics
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