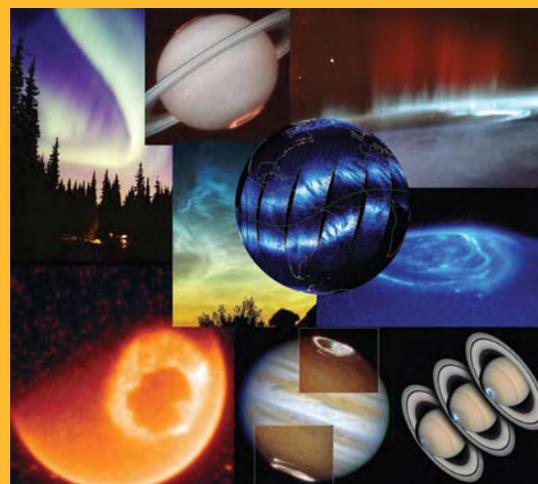




LWS-IHY HELIOPHYSICS Summer School 2007

July 30 – August 7 · Boulder, CO

The first of a three-year NASA-sponsored Heliophysics Summer School will be hosted by UCAR in Boulder, CO, July 30 through August 7, 2007. The summer school is sponsored by NASA's Living With a Star (LWS) program and supported by the International Heliophysical Year (IHY) program. It has three principal goals: 1) To deepen the appreciation of the basic science of heliophysics for a select group of students as teachers take them through highly interactive seminars and hands-on working groups and lab exercises, 2) To analyze new measurements with the goal of identifying global processes and drivers of the Sun-heliopause system outward to the heliopause, and the responses of planetary magnetospheres, ionospheres and atmospheres, and 3) To produce a series of textbooks from which heliophysics may be taught at universities worldwide. The three-year program comprises three thematic clusters that together cover the scientific basis of the physical processes that play a role in coupling the Sun's interior to the planetary environments and atmospheres through the vast heliosphere.



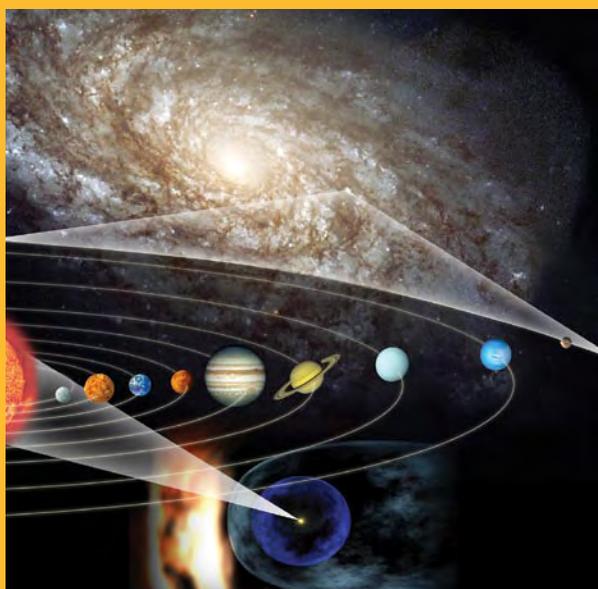
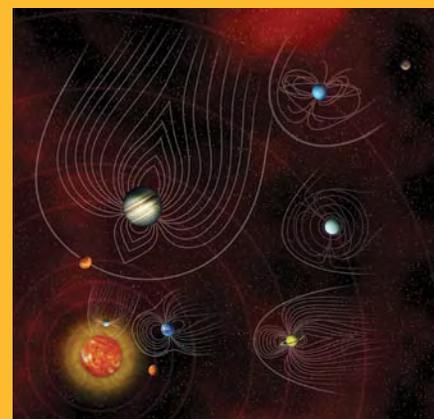
The first 8-day summer school in 2007 covers "the plasma physics of the local cosmos," i.e., the science that is uniquely enabled by our existence within an environment of ionized gases. The three-year "heliophysics school" will encompass the entire scientific discipline now called heliophysics, which was borne of the need for interdisciplinary and global research in the context of the LWS and IHY programs. The IHY is participating in 2007 with extra lectures on the final day that introduce the second and third year themes of explosive energy conversion/energetic particles and long-term variations of solar activity/Earth's climate, respectively, and with labs devoted to the IHY observing programs and data analysis and modeling tools.

Approximately 30 (international) students (including senior undergraduate students and graduate students with a strong background in physics, and beginning postdocs in a field of heliophysics) will be selected each year through a competitive process to participate in the summer school. Each participant will receive air travel, lodging and a per diem.

The UCAR Visiting Scientist Programs office will administer the summer school. The deadline for application submission by students is **15 May 2007**; late applications will be considered until all available student positions are filled. Note that the application deadline has been extended due to the recent partnering between LWS and IHY. Please see www.vsp.ucar.edu, call 303-497-8649 or email vsp@ucar.edu for additional information.

Application materials should include:

- A cover letter briefly stating motivation for application.
- Curriculum Vitae with a list of publications, technical reports and professional presentations.
- Names and addresses of three references (one must be advisor).
- Graduate school transcripts.
- One to two page statement of interest and relevance to summer school goals.



Send e-mail or electronic applications to: vsp@ucar.edu
If you are unable to submit electronically, please mail your application materials to:

University Corporation for Atmospheric Research
Visiting Scientist Programs · Heliophysics Summer School
P.O. Box 3000
Boulder, CO 80307-3000 USA



Images courtesy of NASA
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