

Heliophysics

2017 Summer School

1 - 8 August 2017 - Boulder, CO

“Long-term solar activity and the climates of space and Earth”

Deadline: 24 February 2017

Applications are invited for the 2017 Heliophysics Summer School, which will be held in beautiful Boulder, Colorado. We are seeking students to join us this coming summer for a unique professional experience. They will learn about the exciting science of heliophysics as a broad, coherent discipline that reaches in space from the Earth's troposphere to the depths of the Sun, and in time from the formation of the solar system to the distant future.

The 2017 Heliophysics Summer School focuses on the physics of the connections between the Sun, the heliosphere, the magnetospheres and the upper atmospheres of the planets. The solar system offers a wide variety of conditions under which the interaction of bodies with a plasma environment can be studied, while exoplanets and Sun-like stars offer an even wider range of perspectives with lessons about our local cosmos from distant past to distant future.

The 2017 Summer School will begin with an overview of the various components composing the Heliophysical system, and review some of the universal physical processes at work throughout the system. It will then focus on long-term processes, from the Sun's modulated activity to its influences on the climate systems of the heliosphere, Earth's atmosphere and planetary environments. The class will draw on material from all four of the Heliophysics textbooks, but especially from the third volume of the series, Heliophysics III: *“Evolving solar activity and the climates of space and Earth”*.

The school will be based on lectures, laboratories, and recitations from world experts, and will draw material from the four textbooks Heliophysics I-IV, published by Cambridge University Press.

Approximately 35 students will be selected through a competitive process organized by the UCAR Visiting Scientist Programs. The school lasts for eight days, and each participant receives full travel support for airline tickets, lodging and per diem costs.

Student Application Requirements

- Currently enrolled as a graduate student in any phase of training, or first or second year postdoctoral fellow.
- Major in physics with an emphasis on astrophysics, geophysics, plasma physics, and space physics, or experienced in at least one of these areas.
- Pursuing a career in heliophysics or astrophysics.

For additional information on this program and instructions on how to apply, please visit the Heliophysics website at: www.Heliophysics.ucar.edu

For further assistance, call (303) 497-1605 or e-mail vspapply@ucar.edu



The Living With a Star program of the Heliophysics Division in NASA's Science Mission Directorate sponsors the Summer Schools. The University Corporation for Atmospheric Research (UCAR) Visiting Scientist Programs collaborates with NASA in administering the schools. UCAR is an EE/AE who values and encourages diversity in the workplace. Images courtesy of NASA.



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