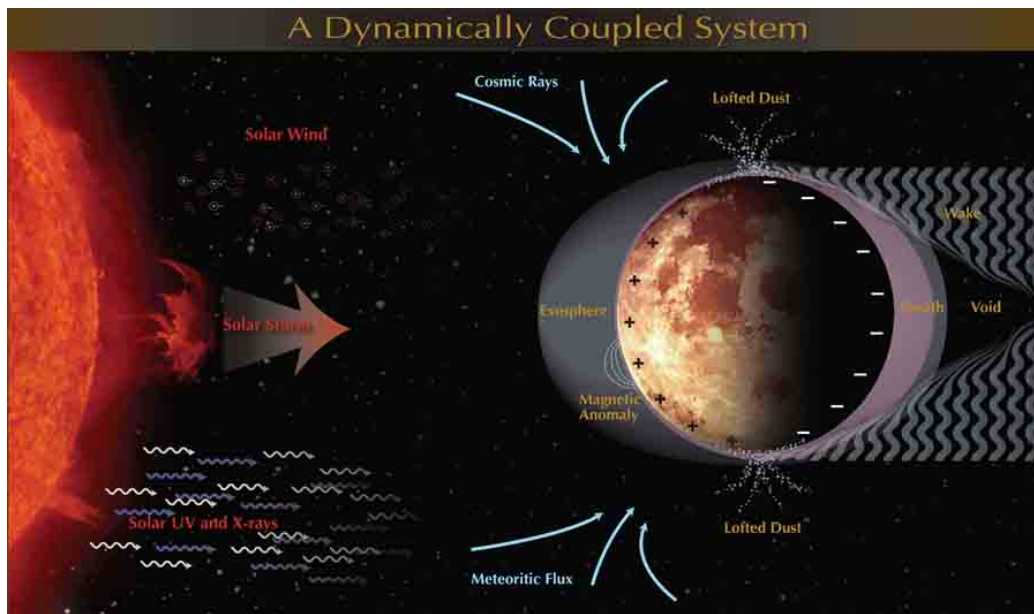


Announcement of Opportunity DREAM - Lunar Extreme Program

What is DREAM?

Dynamic Response of the Environment At the Moon (DREAM) is one of several teams comprising the NASA Lunar Science Institute (<http://lunarscience.nasa.gov>). Based at NASA Goddard Space Flight Center in Greenbelt, MD, but including team members from over 10 locations around the country, DREAM's efforts support the entire lunar science and exploration community (<http://ssed.gsfc.nasa.gov/dream/>). The purpose of DREAM is to investigate the response of the lunar environment to the harsh and ever-changing conditions in space, including extreme events such as solar storms and impacts.



NASA/GSFC

We want you!

Beginning in early 2011, DREAM will be educating high school students and teachers about its science goals in order to prepare them for participation and interaction with DREAM scientists at a Lunar Extreme Workshop (LEW) to be held at Goddard Space Flight Center from June 20-24, 2011. The LEW will bring DREAM scientists together with teachers and students (scientists-in-training) to investigate the effects of solar storms on the lunar surface.

We are looking for 2 teams of high school teachers and students (approximately 4-6 students per teacher) who would like to participate in the Lunar Extreme Program from January-June 2011, culminating in participation at the LEW from June 20-24, 2011 at Goddard Space Flight Center. The target audience for involvement in the Lunar Extreme Program is students who have already been exposed to physics, Earth science, chemistry, computer modeling, or preferably a combination of the above and the teachers of those subjects.

Teachers will be provided with small stipends for their time and participation.

What will the Lunar Extreme Program include?

Beginning in January, teacher/student teams will be provided weekly with resources and activities pertaining to DREAM's science goals. Students will be encouraged to read and study the resources on their own and then to meet with their teacher and other team members at least once a week for teacher-led activities that will reinforce the concepts from their reading. Teams will have the flexibility to meet whenever and where ever they wish, such as after school. At least once or twice per month, students will have the opportunity to meet and hear from DREAM scientists, who will put the student's new understanding in context as it relates to DREAM's science goals.

What will the Lunar Extreme Workshop include?

From June 20-24, 2011 teacher/student teams will be expected to participate in a Lunar Extreme Workshop at Goddard Space Flight Center. During the workshop, teams will interact with DREAM scientists, observe the process of science in action, and learn more about NASA careers and opportunities. The direct interaction with scientists, both prior to and at the LEW, offers opportunities for students to learn more about available careers – and meeting and interacting with the passionate people who perform these careers every day may inspire these students to enter the science, engineering, or NASA workforce.

How will teacher/student teams be selected?

Teachers are encouraged to advertise this opportunity to their students in order to form a team of 4-6 participants. Once the team members have been established, teachers should compile and submit the following items. We request that the teacher compile and submit student team member application materials along with their own, such that the entire team's application materials are together. **The application deadline is November 10, 2010.** Selected applicants will be notified by December 10, 2010.

The application submission requirements include:

Teacher:

- A completed application form.
- A current resume or curriculum vitae.
- A written letter of commitment from your school to express willingness to support you in these efforts from January through June 2011.
- A two-page essay describing how you will utilize the information you acquire during the Lunar Extreme Program and Lunar Extreme Workshop.

Students:

- A completed application form, including a list of the science classes you have completed and those you are currently taking.
- A signed permission slip from a parent or guardian stating that they approve of your participation in the Lunar Extreme Program and understand that you will be expected to attend the Lunar Extreme Workshop from June 20-24, 2011.
- A one-page essay describing how participation in the Lunar Extreme Program and Workshop will benefit your education and/or career goals.