CENTER FOR LUNAR ROBOTIC EXPLORATION

(science, technology and history)

LOCATION: University of Maryland Baltimore County, Catonsville, MD

ENTERING GRADES: 8 - 9

TYPE: Non-residential

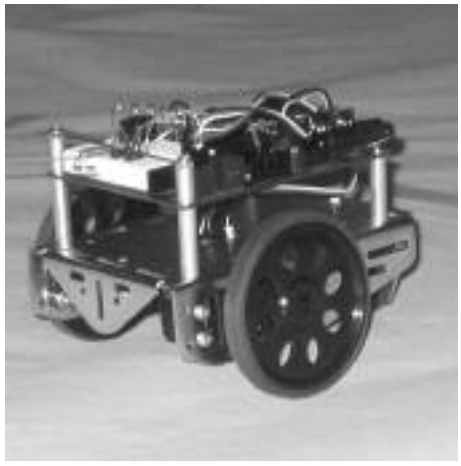
DATES OF OPERATION:
June 22 - July 3
9 A.M. - 3 p.m.

TUITION: $300 for a 10-day non-residential program

Learn how NASA plans to explore the Moon with robotic rovers, searching for lunar ice deposits! We will build robots to conduct simulated lunar exploration missions and engage in all of the fundamental steps of a real NASA mission to the Moon, including studying the intended target using remote sensing, carefully mapping the target to determine suitable landing sites, and mission planning and development. The Center will culminate with the opportunity to build robots and carefully calibrate them so that they are able to execute the missions in a simulated lunar environment.

To accomplish our mission, we will use various technologies including image analysis, remote sensing and imaging, ultra-sound for topographic mapping, and of course the computer interface with our autonomous robots.

Learn about the upcoming NASA mission to the Moon, the Lunar Reconnaissance Orbiter (LRO), which is scheduled to launch in October 2008. You will also get an insider's look at the instruments that fly on LRO, and hear from NASA scientists about what they hope to accomplish with this mission to the Moon. With background knowledge from learning about previous excursions to the Moon, from both scientific and historical perspectives, we will become familiar with the missions that are now being planned by several countries around the world, and gain an understanding of how new missions will contribute to the general understanding of solar system science.



Mail completed application to:

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