

Mars Exploration Rover Mission

**Spirit
and
Opportunity**



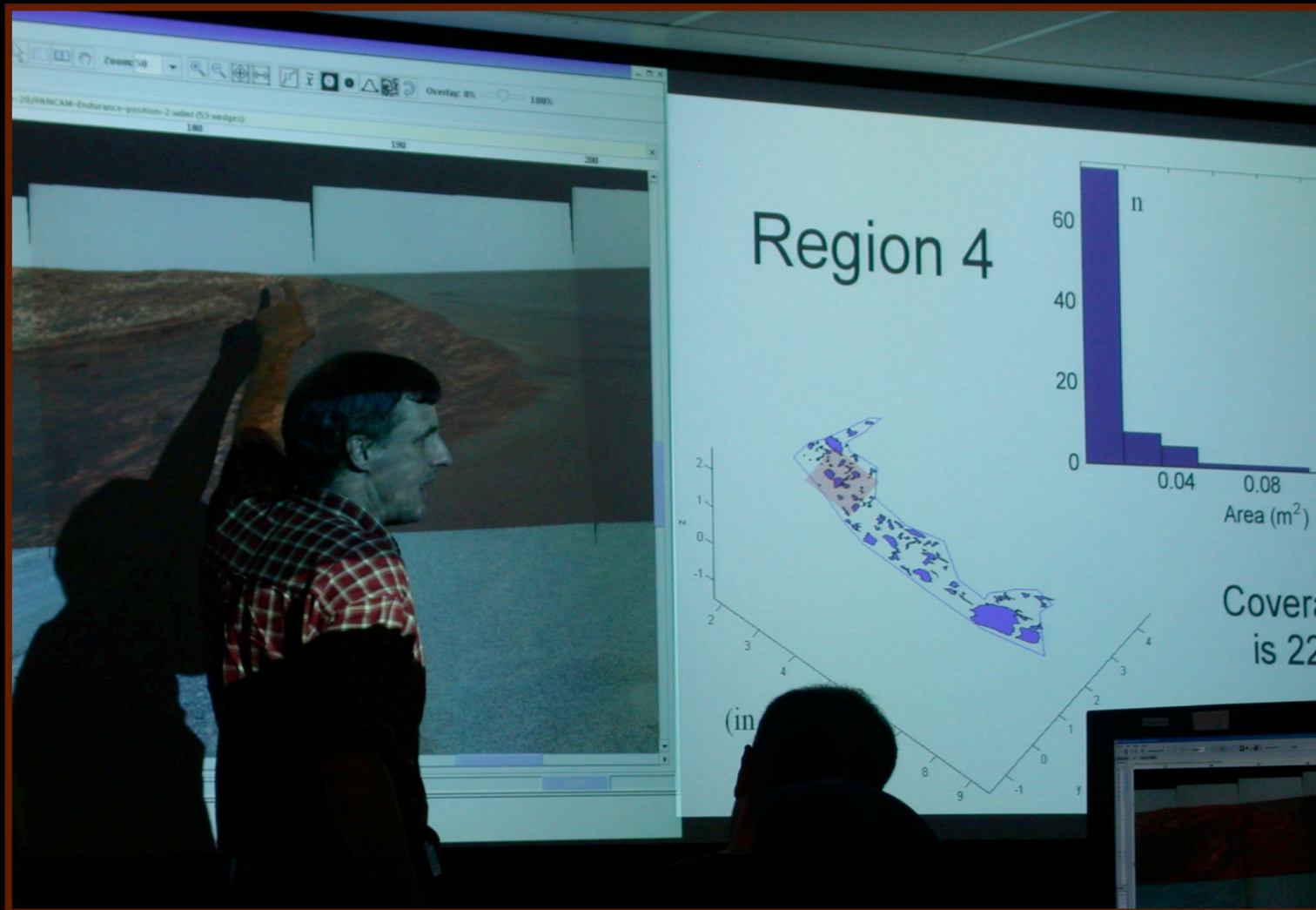
**Week in Review
May 22 - May 28**

Opportunity continues to cruise around the rocky rim of Endurance Crater, which is about 430 feet (130 meters) in diameter.



Navigation camera mosaic taken on May 21, 2004.

Team members are analyzing images and searching for the safest route, if any, to enter and exit Endurance Crater.



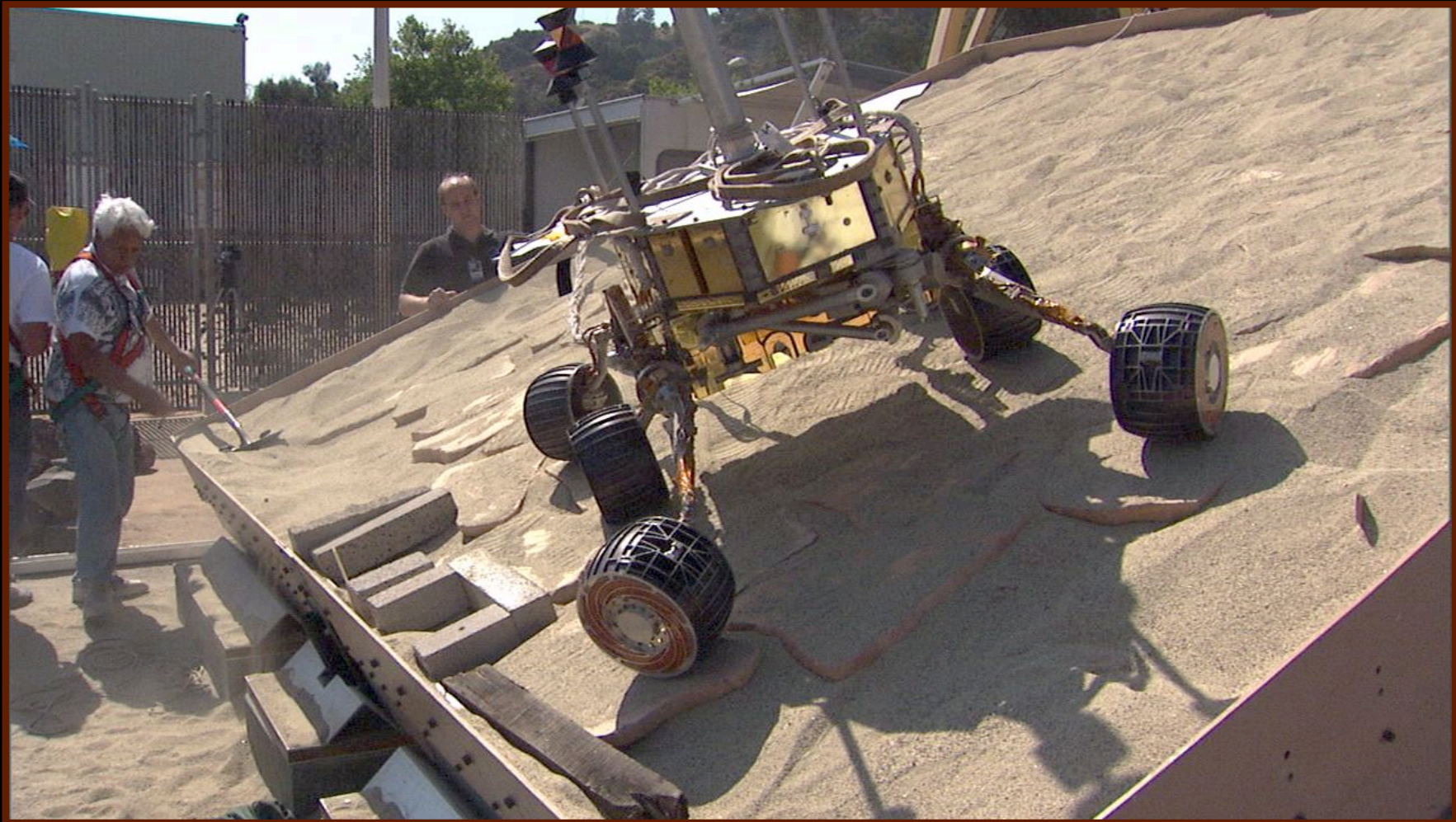
Principal Investigator, Steve Squyres, in a mobility meeting at Jet Propulsion Laboratory May 28, 2004.

Scientists and engineers are trying to find a location with more stable rock than loose sand.



Possible area to enter Endurance Crater: Karatepe.

Simultaneously, mobility experts, scientists, and engineers are testing the rover's slip limits on simulated martian soil and rock at a 25-degree tilt.



Engineering model of the rover during the sandbox test outside of the "Mars Yard" at Jet Propulsion Laboratory May 27, 2004.

Meanwhile, Spirit took a break from its daily long drives and spent May 21st observing the martian soil.



Front hazard avoidance camera image received on Earth May 26, 2004.

Spirit used its wheel to dig a trench, and then used its instruments to investigate the newly exposed surface.

**Spirit's odometer
now reads 1.6 miles
(2,585 meters).**

**The rover still has to go
0.42 miles (680 meters)
before reaching the base
of the Columbia Hills by
around sol 150 or 160.**



Navigation camera image taken on sol 135 at 3:33:58 p.m. Mars local solar time.



*Close-up view of soil
from Spirit's
microscopic imager.*



**Spirit will continue to make
regular stops along the way
to the Columbia Hills
to study the soil and rocks.**



**Opportunity's team
will continue testing,
researching, and
meeting to figure out
how to enter
Endurance Crater.**

May 28, 2004