Moonquakes
Tuesday—March 4, 2008
4:00-5:00 pm—Dow 641

Possible extra-Solar System cause for certain lunar seismic events (moonquakes)

Reanalysis of lunar seismic data collected during the Apollo program indicates that 23 of the 28 rare events known as high-frequency teleseismic (HFT) events or shallow moonquakes occurred during one-half of the sidereal month when the seismic network on the Moon’s near side faced approximately towards right ascension of 12 h on the celestial sphere. Statistical analysis demonstrates that there is about a 1% probability that this pattern would occur by chance. An alternate possibility is that high-energy objects from a fixed source outside the Solar System trigger or even case the HFT events.

IRIS/SSA Distinguished Lectureship
Dr. Cliff Frohlich
University of Texas at Austin

For more information about this talk, please contact the Department Geological and Mining Engineering and Sciences—487-2531