Monday, May 21, 2012
EARLY HISTORY OF THE INNER SOLAR SYSTEM
8:15 a.m. Lakeside A/B

8:15 a.m. Clifford S. M. *
Welcome and Conference Overview

8:25 a.m. Norman M. D. * Nemchin A. A. [INVITED]
An Extended Episode of Early Bombardment in the Inner Solar System: Evidence from Lunar Samples and Meteorites [#7051]
Here we summarize sample-based evidence for large, pre-cataclysm (older than 3.9 Ga) impacts on the Moon, and suggest that the basin-forming epoch likely spanned a significantly longer period of time than implied by the Cataclysm Hypothesis.

8:55 a.m. Condie K. * [INVITED]
Geological and Mineralogical Evolution of the Early Earth

9:25 a.m. Kasting J. F. * [INVITED]
Early Atmospheric Evolution of the Terrestrial Planets [#7019]
Venus, Earth, and Mars followed separate trajectories because of their different masses and different distances from the Sun. Mars’ early climate evolution is still a mystery. More complex climate models may be needed to solve it.

9:55 a.m. Coffee Break

10:10 a.m. Zahnle K. J. * [INVITED]
A Martian Paradox [#7039]
Early Mars saw Earth-like erosion, but for only a small part of the time. Neither impact springs nor warm wet greenhouses get within two orders of magnitude; the first too little, the other too much. Possible resolutions to the paradox are discussed.

10:40 a.m. Bada J. L. * [INVITED]
The Origin of Life on Earth and Mars (?) [#7091]
If the conditions and processes that resulted in the origin of life on Earth are common elsewhere, it is reasonable to expect that life could be widespread in the universe.

11:10 a.m. MODERATED OPEN DISCUSSION

11:45 a.m. Lunch