

Earth Sciences

COLLOQUIUM SERIES

Dr. Erika Rader
NASA Ames Research Center
(Hosted by Catherine Neish)

TALK TITLE:

Wax lava and artificial spatter: Fighting back against the unconstrainables of planetary geology



Friday, September 23, 2016

3:30-4:30

Biological & Geological Sciences

Bldg Rm 0153

Coffee and donuts will be provided.

Abstract:

Two stories of ways we can use materials (proxy and synthetic) to simulate volcanic events on Mars and the Moon. Large flood basalt eruptions in India are similar to Mars eruptions and with wax experiments, we can start to breakdown the eruption rates during these ancient eruptions. Synthetic spatter bombs, provided by the Syracuse Lava Project, also allow us to study smaller volcanic features on the surface of the Moon, and try to help constrain heat flux and eruption style of lunar volcanic expulsions.