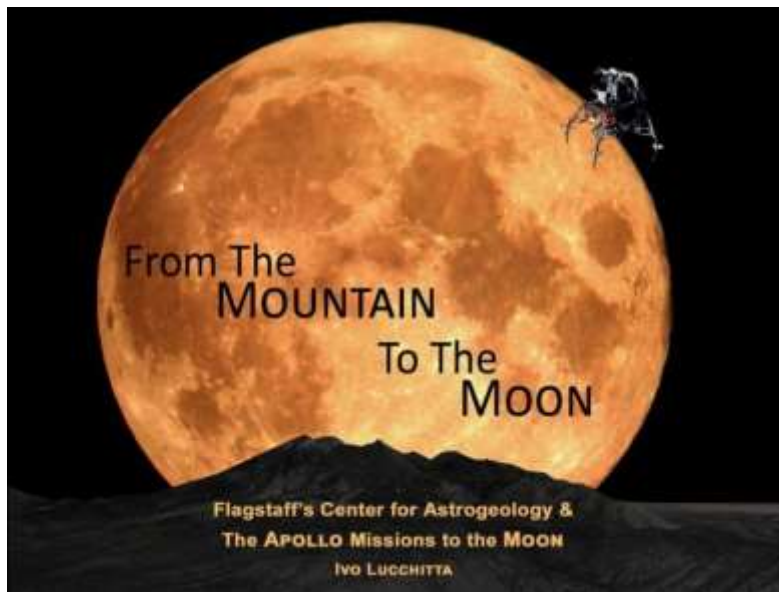


Limited to 200 attendees
**In Celebration the 50th Anniversary
Of Man Landing on the Moon**
The Geologists of Jackson Hole
proudly present:

"From the Mountain to the Moon", Presented by **Dr. Ivo Lucchitta** – U.S. Geological Survey; Flagstaff, Arizona, July 18th (Thursday), 6 p.m., **at the Wildlife Art Museum Auditorium**



FROM THE MOUNTAIN TO THE MOON

The Astrogeology Center of the U.S. Geological Survey in Flagstaff played a vital role in the geologic exploration of the Moon during the Apollo missions. This came about because of two main factors: first, the realization that the Soviet Union was vastly ahead of the U.S. in space technology, which was very dangerous during the cold war. This gave rise to the Apollo program. And second, because of the persuasive insight of Gene Shoemaker, who saw that it would be folly to set foot on another planet for the first time in human history without learning something about its geology.



USGS testing a mockup of the LM

The U.S.G.S. Center played two major roles in conjunction with this exploration: The first role was to do various kinds of geologic studies of the Moon, as well as making geologic maps of its surface; this determined what should be studied once on the Moon.

Making Craters

Second role was making it possible to do those studies using astronauts as field geologists and doing it for the first time ever in the extreme environment of space; this was the "How to do it".



Astronauts playing "geologists"

Working out how to do field geology on the Moon involved these tasks:

- Developing tools to be used by space-suited astronauts
- Developing a way of increasing their mobility on the Moon

Geologists ???

Working out how to do field geology on the Moon involved this task as well:

- Working out protocols for lucid and effective communication between the astronauts on the Moon and the science back room in Houston



Test Sessions in the lab

More tasks:

- Working out protocols for systematic and effective geologic work on the Moon
- Training the astronauts in geology and geologic techniques

Field testing with the latest gear

Creating crater fields that were exact duplicates of landing sites on the Moon for the purpose of training the astronauts on those specific sites



Travel back in time and see 60's technology

Achieving these goals required a very large number of tests, most in the field.

Nice Cart!

These tests were carried out during the entire Apollo program.



Tool development

Tool we developed being used on the Moon



Success!

For this special presentation GJH has reserved the auditorium at the National Museum of Wildlife Art from 5 to 8 PM. The auditorium has 200 seats, so unlike most of our events,

THIS ONE IS BY RESERVATION ONLY!! ON A FIRST COME BASIS!!

To make a reservation, *you must be a member of the Geologists of Jackson Hole*. Individual members can reserve one ticket, family members may reserve two tickets and sustaining members may bring up to four friends or family members.

