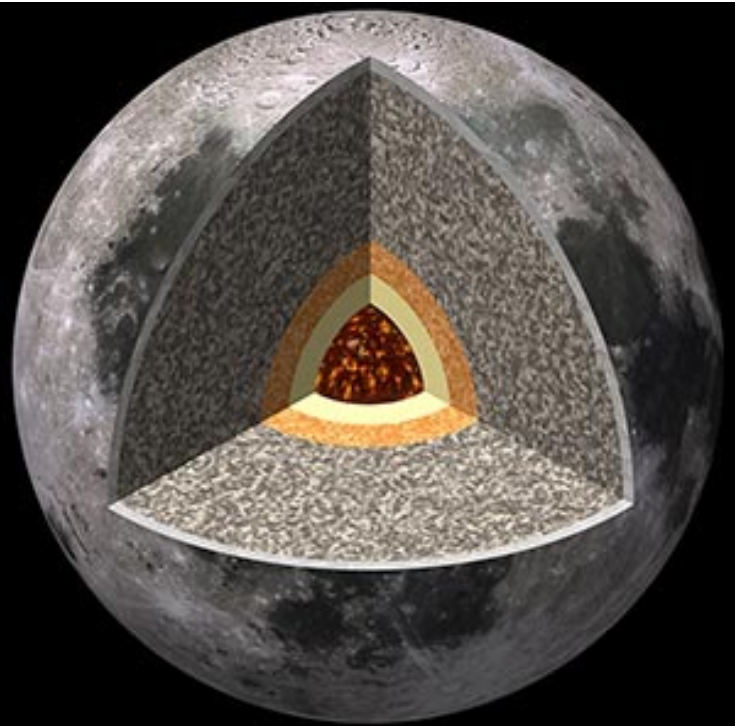
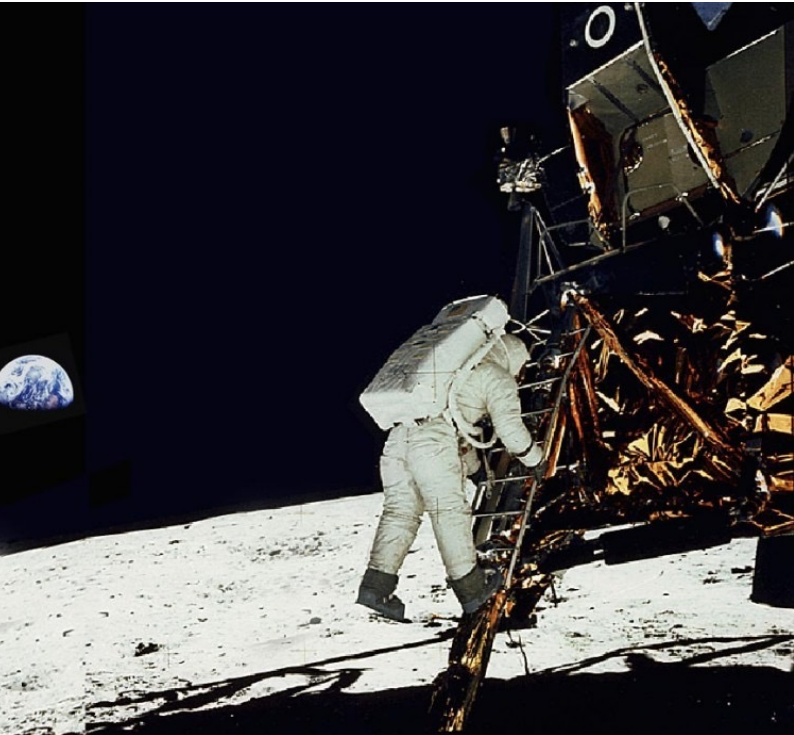


# SEG - Seismology and Geodynamics Master Thesis



## The internal structure of the Moon

The aim of this Master thesis project will be to invert seismic data from the Moon acquired during the Apollo missions. The data set that will be considered has been significantly improved and expanded upon relative to what available during the Apollo era and thereafter.

The internal structure and composition of a planet or satellite are important constraints on theories for how such bodies formed and evolved.

Of all geophysical methods used to study a planet's structure, seismology is uniquely suited to determine many of the parameters that are critically important to understand the dynamic behaviour of the planet.

For this reason seismology has played a leading role in the study of the internal structure of the Earth. The only other solar system body from which we have seismic observations pertinent to its interior properties is the Moon, thus giving us an opportunity to examine planetary formation in general without being tied to the Earth.

**contact**

Amir Khan  
[amir.khan@erdw.ethz.ch](mailto:amir.khan@erdw.ethz.ch)  
[www.seg.ethz.ch](http://www.seg.ethz.ch)