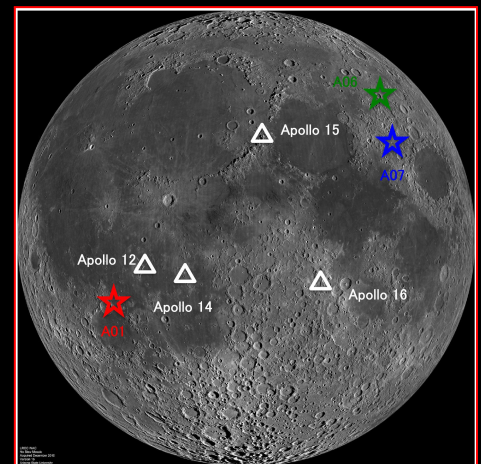




Study about moonquakes and its consequences on human buildings.

The goal of this project is to study the consequences that can have moonquakes on human buildings

Laboratory: EESD
Number of students: 1 (Semester project)
Section: GC, SIE, AR
Status: Available (Spring 2023)



Description of the project

Since 1972 humans have not been on the moon but in the year of 2022 NASA have planned to send humans again to the moon. Lunar exploration became popular again but we do not know much about moonquakes.

As the moon cools, the crust breaks up and the faults are pushed together creating a moonquake. On the surface, these faults and earthquakes result in staircase-like cliffs of a few dozen meters and several kilometers in length. A lunar seismograph is an important tool to detect them and to prepare for eventual casualties that can occur.

The first part of this project would be to analyze the moonquakes and see if it can have an impact on human habitations (first semester). If the result say that the moonquakes can have an impact on human habitations, the second part will focus on creating habitations that are resistant to moonquakes.

Name of Supervisor: Katrin Beyer
Name of Asclepios' contact: Arnault Monoyer, arnault.monoyer@epfl.ch