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I. Introduction

A moon landing is the arrival of a spacecraft on the surface of a planet's natural satellite, and in this case, refers specifically to landings on the lunar surface of Earth's Moon. This includes both manned and unmanned (robotic) missions. Since the Soviet Union first succeeded in implementing the concept in 1966, this term referred to 18 spacecraft landings on the Moon through 1976. Nine of these missions returned to Earth bearing samples of moon rocks. United States and India are the other countries to make unmanned moon landings. The United States space agency NASA achieved the first manned landing on Earth's Moon as part of the Apollo 11 mission commanded by Neil Armstrong. On July 20, 1969, Armstrong landed the lunar module Eagle on the surface of the Moon with a companion, while the third astronaut orbited above. Armstrong was the first human to set foot on the moon, with Buzz Aldrin being the second. Armstrong and Aldrin spent a day on the surface of the Moon before returning to Earth. NASA carried out six manned moon landings between 1969 and 1972.

I put this topic in my presentation because this topic is unique and interesting. Nowadays, there are many conspiracy theories who say that moon landing was faked. So, was the Apollo moon landing fake or it's only the great moon landing hoax? We will see in this paper some of conspiracy theories and the evidences with the sciences approach.

II. The Conspiracy Theories

Some conspiracy theorists have insisted that the Apollo moon landings were a hoax. These accusations flourish in part because predictions by enthusiasts that Moon landings would become commonplace have not yet come to pass. The US government has some motives to manipulate the moon landing.

Several motives have been suggested for the U.S. government to fake the moon landings - some of the recurrent elements are:

Distraction - The U.S. government benefited from a popular distraction to take attention away from the Vietnam war. Lunar activities did abruptly stop, with planned missions cancelled, around the same time that the US ceased its involvement in the Vietnam War.

Cold War Prestige - The U.S. government considered it vital that the U.S. win the space race with the USSR. Going to the Moon, if it was possible, would have been risky and expensive. It would have been much easier to fake the landing, thereby ensuring success.

Money - NASA raised approximately 30 billion dollars pretending to go to the moon. This could have been used to pay off a large number of people, providing significant motivation for complicity. In variations of this theory, the space industry is characterized as a political economy, much like the military industrial complex, creating fertile ground for its own survival.

Risk - The available technology at the time was such that there was a good chance that the landing might fail if genuinely attempted.

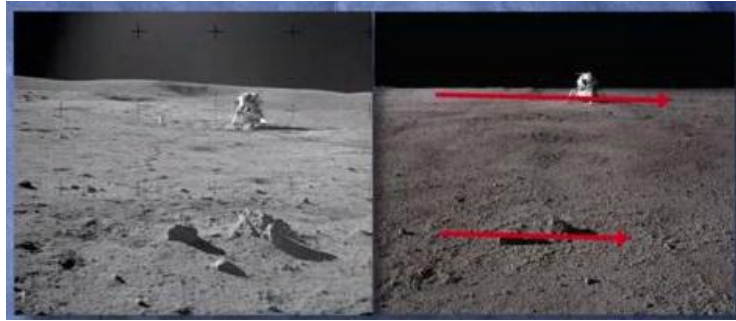
A. The Fake Photographs

The photographs and film footage are the only proof that the human being ever landed. The astronauts took thousands of pictures, each one perfectly exposed and sharply focused. Not one was badly composed or even blurred. We will see two strange photographs. The conspiracy theorists say that the photos were fake. The shadows could only have been created with multiple light sources and in particular powerful spotlights. But the only light source on the Moon was the sun.

Unparallel Shadows



In this photo we will see that the shadows are unparallel. This photo was not taken on the moon because with the only one light source is the sun, the shadows should be parallel.



If we take a photo in a studio with only light source, the shadows are parallel. So the photo was taken in a studio or some place on the earth surface.

Clear Photograph of the Astronaut



This photo was not taken on the moon surface. We can see the astronaut very clear when he was standing under the shadow of spacecraft. The conspiracy theorist says that photo was fake, it was taken in some place on the earth maybe in the studio.



With only one light source the photo should be like this photo, the astronaut was totally black.

B. The Footprint



If you want to make this footprint you need a mixture of a compound, and water, to make such defined footprint. Only wet sand can make very clear footprint. The analogy is simple, when you walk in the beach you can make footprint easily. Because of no water and moisture in moon, so the footprint must be faked.

C. The Flapping Flag



In the pictures above, the Apollo astronauts erecting a US flag on the Moon show the flag bending and flapping. Because no air and no wind in the vacuum the flag should not flap. It's requiring the wind to flap the flag.

III. The Evidences

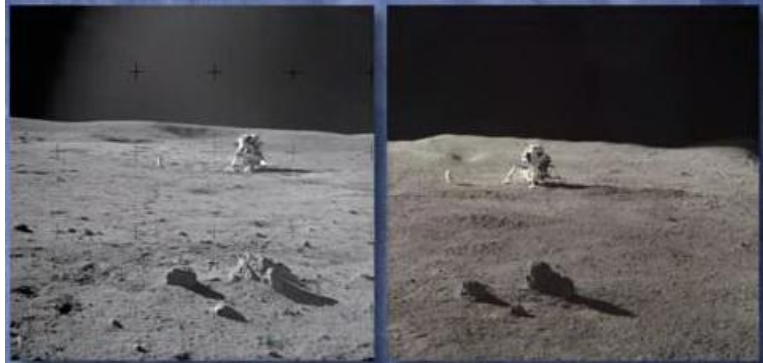
Here is it the some evidences to answer the conspiracy theories. With these evidences we can busted the conspiracy theories.

A. The Possible Photographs

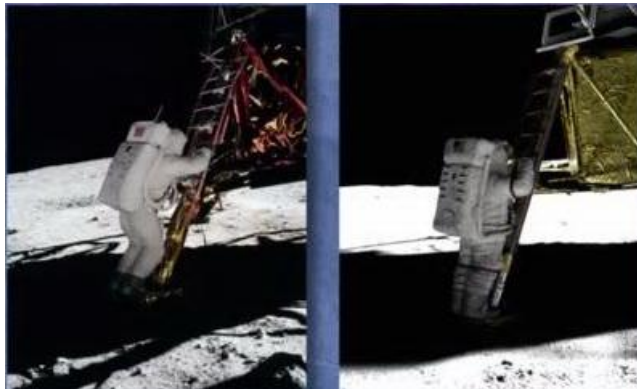
In fact we can make unparallel shadows and clear photograph with only one light source. It has been tested in studio, they made scene similiar and very close to the moon surface with the same intensity of light from the sun.

In the first argument from the conspiracy theorist the shadows should be parallel and it has been tested with the same result. But it has been tested on the

plain surface. If we make the surface very similar to the moon, with the different topography of the object, the result is the shadows are unparallel.



Has the same result, with one light source the astronaut will be cleared enough in the photo. Look at the picture below!



B. The Foot Should Print

In fact we can make definite footprint in the moon. We don't need a water and wet sand. The lunar dust is very fine and adheres to boots and anything else despite its lack of water. It clumps together in the form of any pattern imprinted

on it. No need for water to make it do this. Try imprinting a coarse object into a pile of dry flour or dry dirt. You will find that it tends to work similarly despite its being dry. Similarly, you can easily see shoe prints, tire tracks, animal tracks, etc., in dry dirt here on Earth - without any water to help. It has been tested in the vacuum chamber and the result the foot will print in the vacuum (the picture below shows it).



C. The Flag Would Flap

Not every waving flag needs a breeze, at least not in space. When astronauts were planting the flagpole they rotated it back and forth to better penetrate the lunar soil (anyone who's set a blunt tent-post will know how this works). So of course the flag waved! Unfurling a piece of rolled-up cloth with stored angular momentum will naturally result in waves and ripples. The conclusion is no breeze and wind required!

Summary

- ❖ In my humble opinion the human moon landing is true based on the evidences
- ❖ As a scientist we must always search the truth

Source

http://en.wikipedia.org/wiki/Moon_landing

http://science.nasa.gov/ast23Feb_2.htm

[http://pirlwww.lpl.arizona.edu/~7Ejscotti/The Moon Landings Were NOT Faked.htm](http://pirlwww.lpl.arizona.edu/~7Ejscotti/The_Moon_Landings_Were_NOT_Faked.htm)

Movie Mythbuster, Nasa Moon Landing

