

FOR ALL MOONKIND™

ForAllMoonkind.org

Preserving Human History in Space – a Path
to Sustainable Development and Peace

7 November 2017

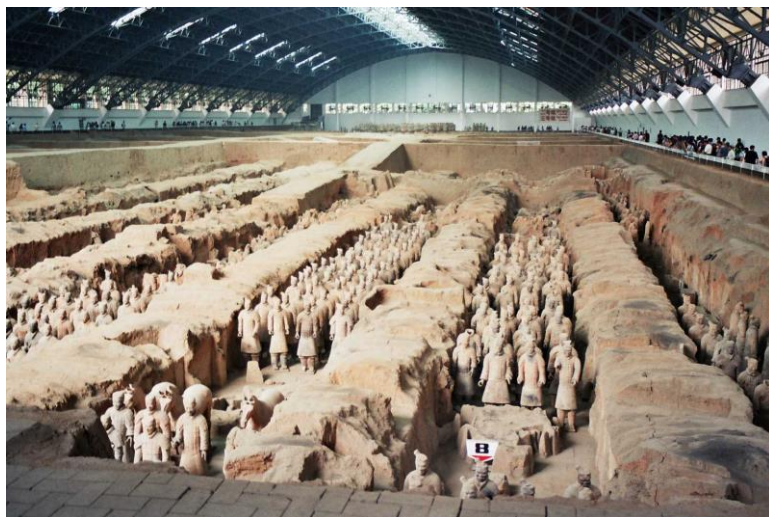
Michelle L. D. Hanlon
Co-Founder

What is Sustainability?



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Preserve and Learn



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World Heritage Sites



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One Giant Leap for (Hu)mankind



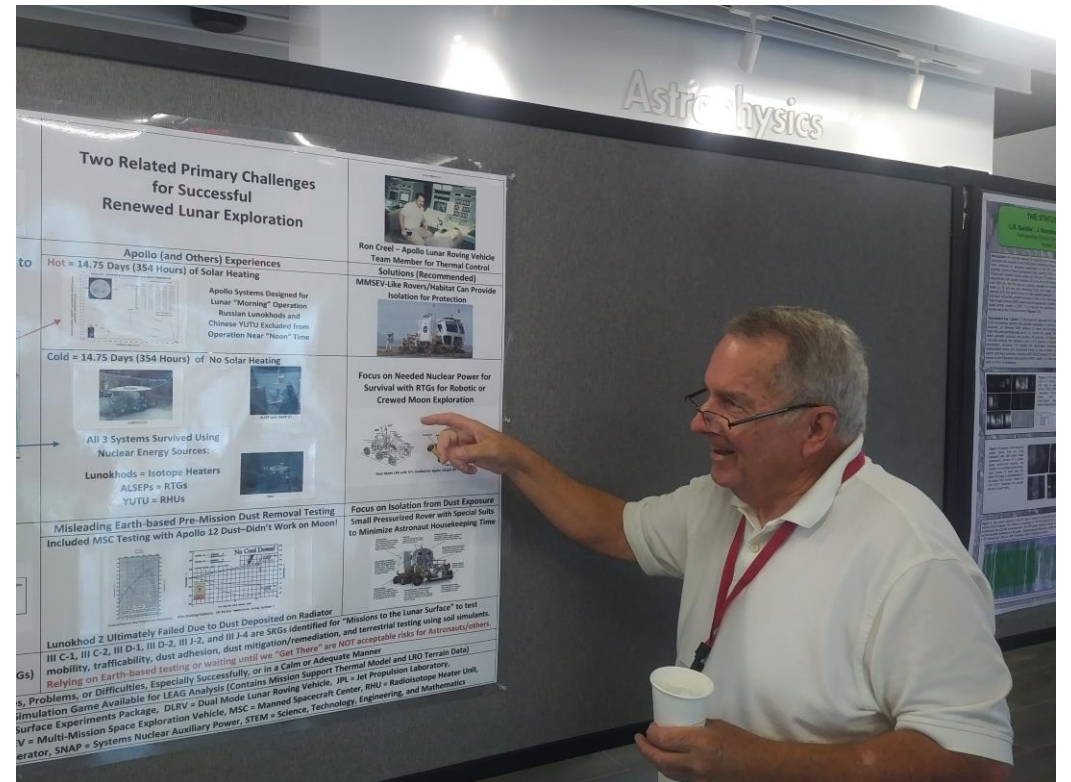
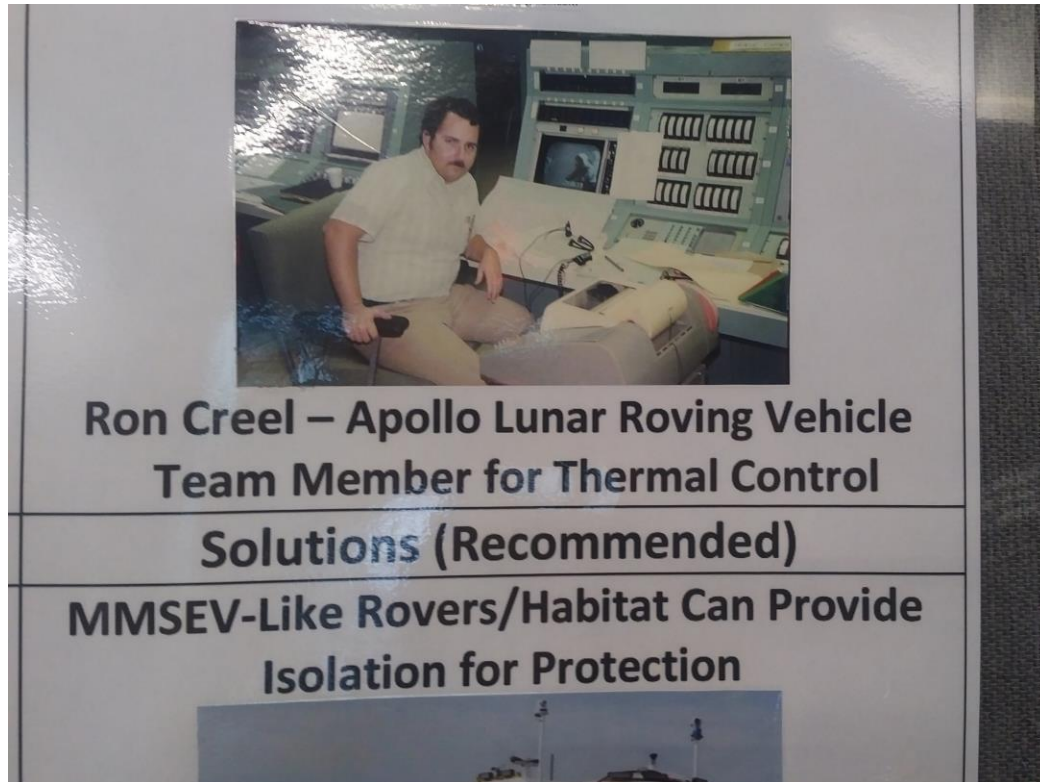
- July 20, 1969: humanity's first footsteps off our planet Earth and to the stars.
- They mark an achievement unparalleled in history, and one that is common to all humankind.

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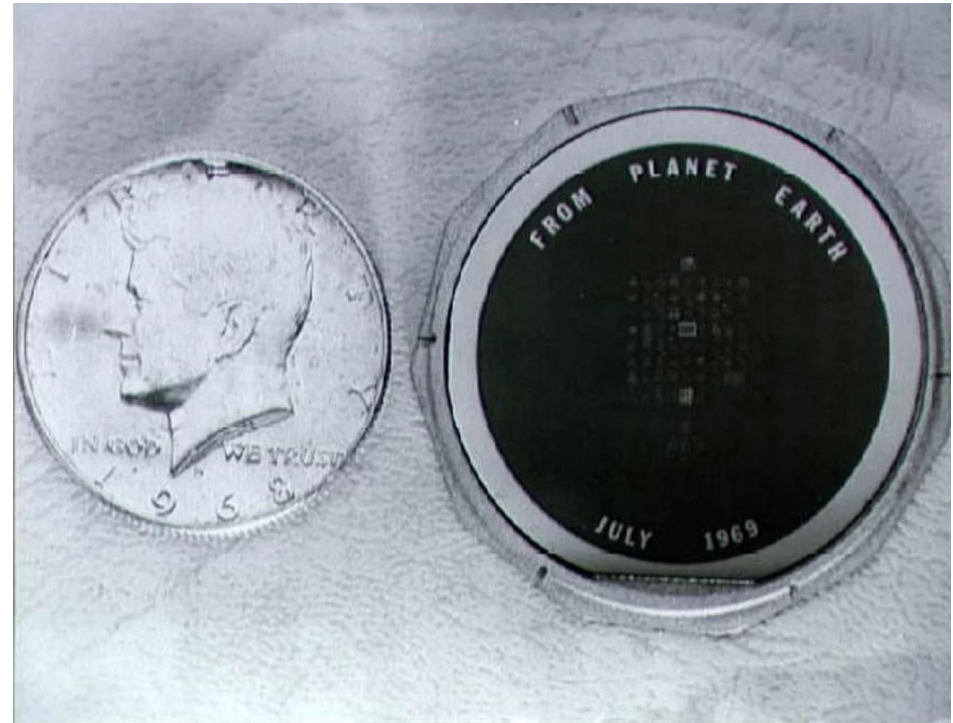
Centuries of Science From Around the World

- Eratosthenes (Greece) – used the sun to measure the (round) Earth.
- Abd al-Rahman al-Sufi (Persia) – made the first known observation of the Andromeda galaxy.
- Copernicus (Poland) – proposed that the Earth revolved around the Sun. A theory supported by Galileo (Italy).
- Zu Chongzhi (China) - accurately measured an Earth year and successfully predicted the number of times the Sun and the Moon overlap.

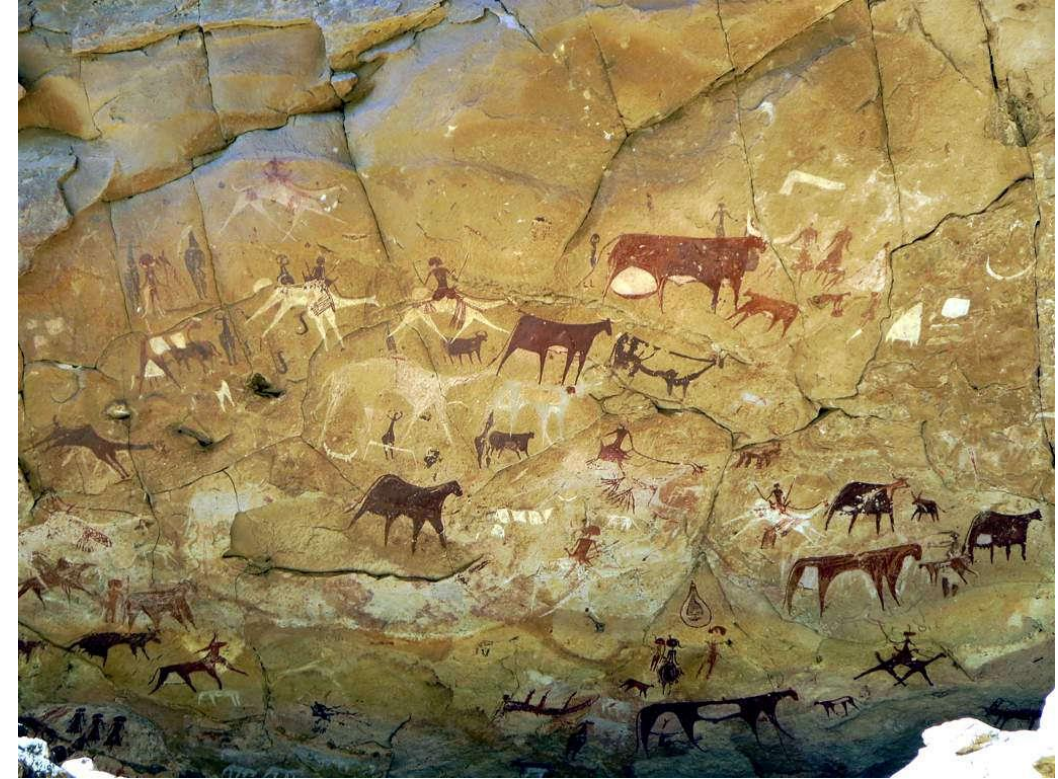
The Sites Memorialize the Work of Thousands, if Not More



They Came in Peace for All



Human Milestones



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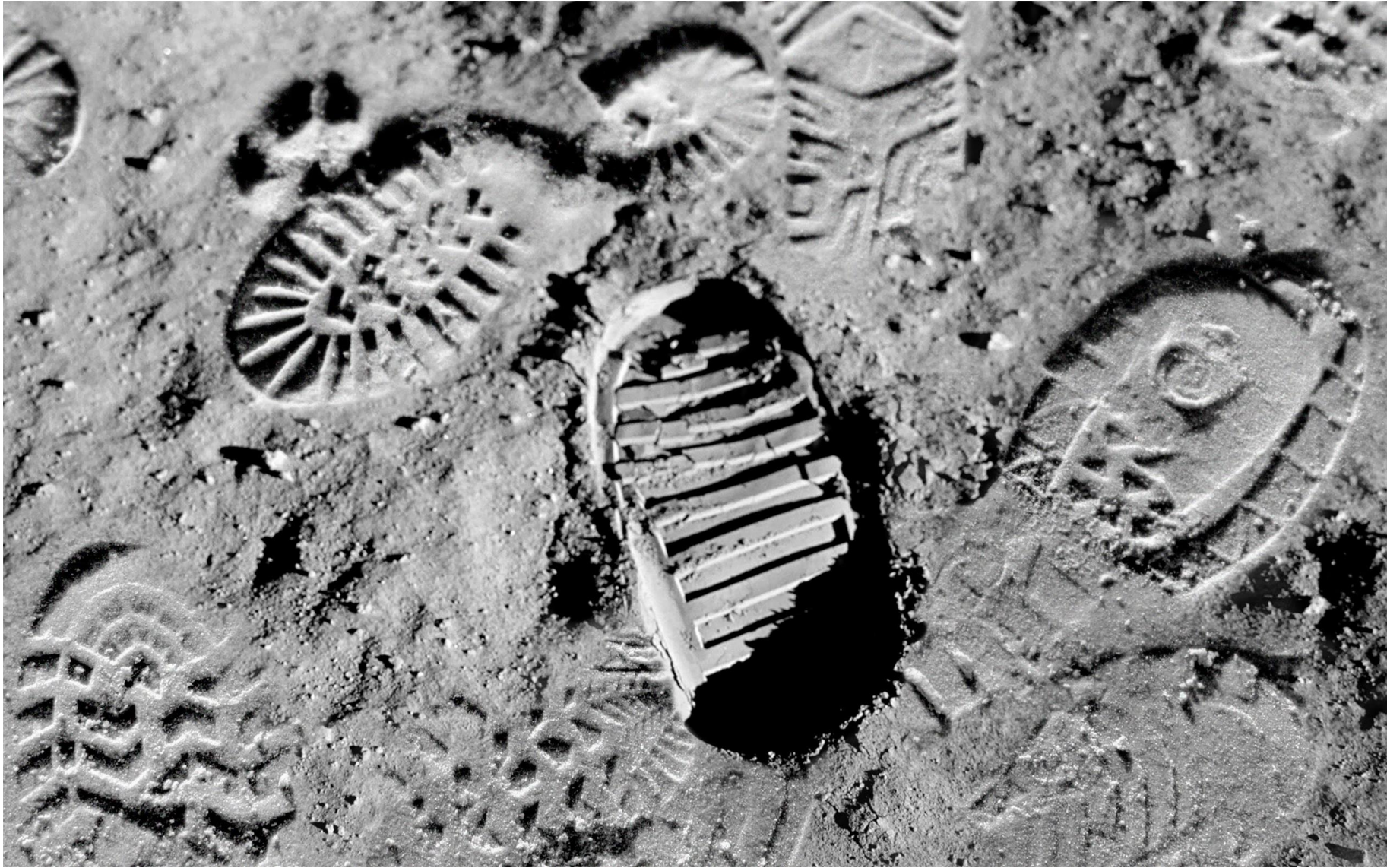


An Archaeologist's Dream

- Confirmation of humans as “an exploratory, migratory animal.”*
- The Lunar Landing Sites are the first archaeological sites with human activity that are not on Earth.
- The Sites are frozen in time. Undisturbed by wind or rain. Untouched by any other human – or any living organism – since.
- They represent one of the most important technological developments in human history.**

*Ben Finney, *From Sea to Space*.

** Lisa Westwood, *Archaeology and Heritage of the Human Movement into Space*.



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Protections Under International Law.



- Outer Space Treaty
- Liability Convention
- Registration Convention
- Rescue and Return Agreement
 - All are silent with respect to the preservation and protection of human cultural heritage.
 - But they do affirm the concept that no nation may claim sovereignty over any territory in space.

But What About the Sites?

- Recall Article II of the Outer Space Treaty: "outer space, including the Moon and other celestial bodies, is not subject to national appropriation by claim of sovereignty, by means of use or occupation, or by any other means."
- Under UNESCO, nations can only nominate sites within their territory.
- The Moon cannot, pursuant to international law, be considered the territory of any nation.





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Convention on the Preservation and Management of Human Heritage in Outer Space

- Precedent is available for a multilateral solution:
 - UNESCO World Heritage
 - Underwater Heritage Convention
 - Annex V to the Protocol on Environmental Protection to the Antarctic Treaty

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- Nonprofit organization.
- Leadership and administration are entirely volunteer.
- Three Advisory Councils/Three part solution
 - Legal: draft Convention and MOU with private organizations
 - Education and Awareness: multimillion dollar experiential campaign targeting children and encouraging STEM education
 - Archaeological and Heritage: recognized experts in space archaeology

We are all volunteers

Passionate about space, passionate about history, but most important, passionate about community and creating a future in space that is spurred by healthy competition, yes, but built on a foundation of collaboration

Our Challenge: Recognize Preservation as a Sustainable Goal

- Sustainability is preservation.
- Sites offer materials that we can study, recycle and maybe even reuse.
- Preservation is the foundation of a sustainable community, in this case, a community of humans taking its first tentative steps off Earth.
- Preservation creates cooperation. Understanding and celebration of our shared past will help build stronger partnerships in the future.
- We will do the groundwork.

Our Future Depends on History



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