

## **Moon Village & Exploration Analogues Working Group**

**21<sup>st</sup> May 2020**

### **Main highlights of previous years:**

- During the International Astronautical Congress 2019, in Washington DC last October, we presented at the GNF Session “Martian and Lunar Analogs” organised by Mars Planet, where we informed the audiences of the goals of this Working Group and announced the formation of the “Moon Analogue Consortium”, a spin-off of the MVA.
- For the IAF Spring Meetings in March 2020, we had planned a face-to-face session in Paris. But, as the Spring Meetings were cancelled due to the global pandemic, our session was not conducted. We do though intend to invite everyone for a virtual session over the internet, as soon as possible.
- During 2018 and 2019 we carried out several online meetings with the following main goals:
  - Map activities and interest in the field of MVA Analogues, collect data, identify designs, specs, environments, and locations.
  - Prepare a first report as a catalogue of MVA analogue-related activities.
  - Prepare a colloquium to discuss possibilities offered by the collated research and data.

### **Outcomes of 2018 - 2019 – Summary:**

- A database of analogues stakeholders was created that includes infrastructures, research, and technologies.
- Major challenges were identified, and some solutions were proposed.

Submitting your project or infrastructure to the database of analogues stakeholders:

Please see in files area “Stakeholder Submission Form” which can be completed and submitted to [mva@space.org.cy](mailto:mva@space.org.cy)

### **Analogue Challenges – as identified during the meetings of 2018 - 2019:**

- Primarily Collaboration:
  - Identifying partners and synergies that would lead to an international collaboration
  - In effect to connect infrastructures, research, and technologies ... institutional, business, and academic.
- Access and storing of know-how – A repository of solutions and knowledge
- Availability of facilities for testing – some considerations:
  - Proximity and access to facilities to test hardware and humans
  - Development of human factors solutions
- Regulations and framework of cooperation and operation:
  - E.g. Issues with dust and preservation of Apollo sites

International cooperation is key to getting things right.

### **The Moon Analogue Consortium:**

The Moon Analogue Consortium is an MVA spin-off, an independent organization, fostered, supported, and incubated by the MVA and in close cooperation and synergy with the MVA.

Its aims:

- Fosters and facilitates communication and cooperation between stakeholders (infrastructure, research, and technologies – institutional, business, and academic);

- Facilitates the provision and collaborative creation of Analogue Facilities across regions of the globe for ease of access and proximity of use;
- Operates online and face-to-face “Brokering Tools” and “Website Listings” for Moon Village Analogues – regularly updated by the Analogue Consortium. Lists the various types of efforts (infrastructure, research, or technologies – institutional, business, or academic) that should be brokered between them for cooperation and synergies;
- Acts as a repository of know-how, technologies, challenges, and solutions, as well as regulatory and framework documents related to the Moon Analogues;

Joining:

Email [mva@space.org.cy](mailto:mva@space.org.cy) with a short letter of interest (pdf on letterhead) to join in.

### **Recent Developments – Human Factors:**

This working group the “Moon Village Analogues Working Group” has just created a sub-working group dedicated to “Human Factors”, which is integral to this working group, and will focus on exploring and developing the important topic of human factors within the greater topic of analogues.

The co-chairs of this sub-working group are Yvette Gonzalez and Benjamin Pothier.

All activities and communication of this sub-working group will be carried out also in this same online area within the analogue working group, in order to keep everybody else involved too.