

**Library of a Million Years: A Deliberate and Locally Detectable Technosignature.** M. H. Sims, Moon Express, 19-2060 North Akron Rd., NASA Research Park, Moffett Field, CA, [simsspace@gmail.com](mailto:simsspace@gmail.com).

**Introduction:** The Library of a Million Years is a concept to create a repository of human information and artifacts, which is stable and retrievable for periods comparable to geologic time. The modern equivalent of the Library of Congress, Internet Archive, seed and DNA repositories and artifact collections designed for the long-term survivability. The proposal is to place this repository underground on the Moon (in a lava-tube) where the advantages of low galactic and solar radiation, vacuum, no biological activities, minimal geologic activities and thermal stability will allow stability over a million years. The design goal is to allow these repositories to be retrievable for up to a million years either by humanity of the future or possibly by other intelligent life forms. It is a locally detectable technosignature for human civilization, whose content would be designed for easy discernibility. In that regard it is very much like the Pioneer or Voyager spacecrafts but easier to find and with a vastly richer cache of information. The question arises would other advanced civilizations left similar physical calling cards throughout the galaxy. Assuming that proper care is taken to create unambiguous surface markings for this lunar repository proximal discovery of the site should be straightforward. This will be a deliberate and biologically mediated techno-signal that will require actual physical presence to unlock its secrets.