

2nd International Conference on

3D Printing Technology and Innovations

March 19-20, 2018 | London, UK

How our noses could change if we lived on Mars transhumanist speculations

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In 2017, NASA published the results of the Human Research Program study which involved conducting a comparison of two organisms which are as similar to each other as possible — those of Scott and Mark Kelly, identical twins. The whole project was to address the question of how very long space travel, similar to that required for humans to get to Mars, will affect the human body. There is a multitude of examples showing that mankind is preparing to travel to Mars. The recent test flight of the Falcon Heavy, developed by SpaceX, bears witness to the fact that this moment is right around the corner. These events thus encourage us to view ourselves from a different perspective. The human body will have to change if we are to adapt to new physical conditions, such as lower temperature. The average temperature would be -63°C but it may drop as low as -140°C . The lowest temperature on Earth was -89.2°C , recorded in Antarctica. The atmosphere of Mars consists mainly of carbon dioxide, the gravitational acceleration on Mars equals just over a third of that on Earth. Research conducted in 2017 by the University of Pennsylvania indicates that the human body has been evolving over the centuries in order to genetically adapt to existing climatic conditions. The record of this process can be physically observed based on the example of our noses. It has been ascertained that the width of our nostrils correlates with the temperatures and humidity of the local climate in which our ancestors lived. For the 3D printing conferences, I have prepared speculative designs of noses. How the nose could change in order to adapt to the conditions present on Mars. Flexible prints made of liquid photopolymer solidified using UV light. The various shapes of noses refer to the process of adaptation to the conditions which man will have to face if the Earth's environment were to change. Perhaps speculations on this issue will become an inspiration for science and will allow us to make breathing easier here on Earth — even before we set out to conquer Mars.



Figure 1: *How our noses could change if we lived on Mars. Transhumanist speculations visualization.*

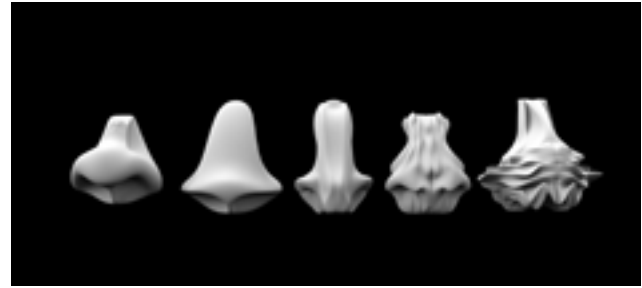


Figure 2: *How our noses could change if we lived on Mars. Transhumanist speculation examples of noses visualization.*

Biography

Marta Flisykowska is an independent Designer, Lecturer, Researcher. She is currently working at the Academy of Fine Arts, Faculty of Architecture and Design in the Experimental Design Unit, Gdansk, Poland. Her interests revolve around various aspects of designing, particularly in the social context. She uses her passion for the Universe, Anthropology and Futurology in her projects, exhibitions, and publications. She approaches design holistically as the meeting of local and global cultural spaces. She actively participates in various project undertakings; she's been a curator at numerous exhibitions and workshops, her works were displayed at international fairs and exhibitions such as Milan, Paris, Munich, Las Vegas, or Beijing.

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