

SPACE EDUCATION AND OUTREACH SYMPOSIUM (E1)  
Space Culture – Public Engagement in Space through Culture (9)

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ENVISIONING THE MAIDEN VOYAGE TO MARS: ENHANCING WOMEN PARTICIPATION ON  
THE USE OF SPACE.

**Abstract**

Abstract Title: Envisioning the maiden voyage to Mars: Enhancing women participation on the use of space. Author: Tenda Madima The Research will explore envisaged opportunities on logistics and plans on colonizing Mars, particularly from the developing countries in which women are to be empowered on scientific matters. It will explore the role of space system manufacturing and operation, Space-related products and services, including telecommunications, television, imagery, location-based services and space tourism and advanced future role of robotic missions. In order to facilitate improved co-ordination and co-operative governance, it will be necessary to increase intra-governments and inter-agency co-operation through optimising the use of resources. A need to strengthen the space science and technology base and developing and fostering international space infrastructure exists. A robust space industry is critical for universal use and therefore it is critical to develop an industrial framework that will unlock industrial opportunities within the sector, building the industrial base to support universal requirements for space technology, public sector space projects through outsourcing programmes. The need for a conducive regulatory environment for international space activities, and potential innovation and technology transfer to and from space sector in order to maximize the benefits of technology application by those entities involved in the development and utilisation of space. International collaboration between Space Agencies, governments of the world and the private sector to boost the dream of getting to Mars will remain critical. Industrialisation in the space sector can be implemented to increase job opportunities, foreign exchange inflows, direct foreign investment, local innovation and international knowledge transfer on space travel. Methods on water management and energy utilization through renewable energy processes will remain critical. Focus will be on potential process for exploring the nearest inhabitable planet from our universe; it will assess the human readiness to colonize Mars; unpack understanding on scientific data to be collected regarding past existence of life on Mars; what to take to Mars and how to stay in Mars like we do here on earth; exploring global participation of women on Mars exploration; expected operational budget for the spacecraft and crew, including equipment and resources; exploring challenges of anxiety and fear for those who will sign up for the envisaged journey; religious and spiritual thoughts; contributions by those who have promising potential projects on space; curriculum design and upgrade for all levels of education from lower through tertiary and the international impression on return from Mars.