IAF/IAA SPACE LIFE SCIENCES SYMPOSIUM (A1)
Life Support, habitats and EVA Systems (7)

Author: Dr. Shawna Pandya
Canada, shawnapandya@gmail.com

Prof. Mike Wesolowski
Canada, mike@luxsonic.ca

CAREGIVR: A VR-BASED SYSTEM FOR MEDICAL SKILLS TRAINING & EDUCATION ON EXPLORATION-CLASS MISSIONS

Abstract

As the international community looks to sending humans to the Moon and beyond, it is important to be mindful of the risks and challenges along the way. The NASA Human Research Roadmap, in particular, namely skills degradation, as well as human systems integration as key risks relating to long-duration human spaceflight. In addition, exploration-class missions will be constrained with respect to mass and volume allocations for training equipment. Virtual reality (VR) based systems offer two key solutions by way of procedural training and practice, and by way of mass and volume savings. In this paper, we present the continuation of our work with CareGiVR, a Canadian Space Agency-funded VR training module for medical skills and procedural work for exploration class missions, including testing, deployment, Earth-based applications, and next steps.