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## Abstract

Philosophers have long believed that humankind’s ability to secure its survival and the advancement of its civilization is based on their innate instincts of reason, common sense, and the will to live. Nobel Peace Prize recipient Ralph Bunch recognized three instincts are all precipitated from the creative capacity of human beings. Further, that this innate creative ability is an imperative for civilizations not only to survive, but thrive. Ever more progressively in the 20th century, the creative processes and skills involved in producing art have been identified as elements that can enhance science innovation. This rather surprising revelation has placed space artists into the limelight as never before. They have stepped up to the plate as experts in the arena of creativity and imagination to teach their peers in science, partnering with commerce, education, science and technology in transdisciplinary collaborations. Interdisciplinary collaboration is considered by many thought leaders as the way forward in global affairs of culture, technology and commerce. Additionally, multi-disciplinary skills have engendered an entire new class of polymathic creatives. This paper recommends exploiting the creative imperative to further develop the space arts and space sciences as change-agents for civilizations fed by the arts/sciences/technology/educational sectors. Artists should fly in space as Mission Specialists, doing what no one else can: interpreting space and relating its importance to humanity. Innovation, polymathic ability, a disruptive NewSpace movement, an inclusionary and robust social agenda, an intergenerational STEAM educated workforce, artists embedded as science researchers, and direction from the UN’s Sustainable Development Goals, have laid the groundwork for Space 4.0’s sustainable foray to the Moon, Mars and Beyond.

## A short bio

A short bio: Barbara Amelia King is a visual artist in traditional and digital genres. She studied visual arts at the Otis Art Institute and obtained an MA in Arts Administration from the Goddard Graduate School in Los Angeles in 1983. She has recently returned to the US from South Africa after nearly three decades of producing cultural and historical documentary films. Combining her interest in both space art and space science, Barbara was awarded a Masters of Philosophy specializing in Space Studies from the University of Cape Town, South Africa in 2020. A space researcher and writer, Barbara focuses on designing satellite missions to include ‘smart’ art, and a robust agenda of social/cultural benefits. She is a member of the International Association of Astronomical Artists, and the IAF’s Task force for the Cultural Uses of Space, and has been published in Leonardo, Springer and the South African National Space Agency site.