

JAH RESUME

Dr. Jeffrey A. Hoffman is Professor of the Practice of Aerospace Engineering in the Department of Aeronautics and Astronautics at MIT. Dr. Hoffman received a B.A. (summa cum laude) from Amherst College in 1966 and a Ph.D. in astrophysics from Harvard University in 1971. He subsequently received a M.Sc. in Materials Science from Rice University in 1988.

Dr. Hoffman's original research interests were in high-energy astrophysics, specifically cosmic gamma ray and x-ray astronomy. His doctoral work at Harvard was the design, construction, testing, and flight of a balloon-borne, low-energy, gamma ray telescope. At the Center for Space Research at MIT, he was project scientist in charge of the orbiting HEAO-1 A4 hard x-ray and gamma ray experiment, launched in August 1977.

Dr. Hoffman was selected as a NASA astronaut in 1978 and served in the Astronaut Corps from 1978-1997, making five space flights and becoming the first astronaut to log 1000 hours of flight time aboard the Space Shuttle. During preparations for the Shuttle Orbital Flight Tests, Dr. Hoffman worked in the Flight Simulation Laboratory at Downey, California, testing guidance, navigation and flight control systems. Dr. Hoffman served as a support crewmember for STS-5 and as a CAPCOM (spacecraft communicator) for the STS-8 and STS-82 missions. Dr. Hoffman has performed four spacewalks, including the first unplanned, contingency spacewalk in NASA's history (STS 51D; April, 1985) and the initial rescue/repair mission for the Hubble Space Telescope (STS 61; December, 1993). His primary research interests are in improving the technology of space suits and designing innovative space systems for human and robotic space exploration. Dr. Hoffman is director of the Massachusetts Space Grant Consortium. His principal areas of research are advanced EVA systems, space radiation protection, and management of space science projects, human-robotic exploration strategies, and space systems architecture. He led a project to develop an Earth-based flying testbed for a planetary surface hopper exploration system.

He is currently Deputy Principal Investigator of the MOXIE experiment on the Mars 2020 rover, which will for the first time produce oxygen from Martian resources. In 2007, Dr. Hoffman was elected to the US Astronaut Hall of Fame.