Dr. Kathryn Clark

Kathryn Clark is the President of Docere, a limited liability company that specializes in science and education. The science arm of the company is primarily focused on Human Factors Engineering, which combines her background in Kinesiology and muscle physiology with her experience in human space flight. Partners include Applied Dynamics, Inc., Gulfstream, Edgehealth and Redcord, Inc. In this capacity she also serves on the NASA Special Task Force on the International Space Station, which combines the expertise of Russian and US scientists and engineers.

A second arm of Docere is an education company dedicated to helping teachers engage students through the Internet and exciting educational tools. Partners in education include The Convergence Education Foundation, Dr. Quark, LLC and SAS Games, Inc., which created TiViTz, a math and strategy game for students in 4th to 8th grades. Dr. Clark is the VP for Education of SAS Games.

Dr. Clark spent four years at NASA Headquarters, two of them as NASA's Chief Scientist for the International Space Station Program and two years as NASA's Chief Scientist for the Human Exploration & Development of Space Enterprise. She was on leave from the University of Michigan Medical School. As Chief Scientist, Clark worked with scientists from all other areas of NASA to communicate research needs and look for possible collaboration among the science programs at NASA. She also assisted with education and outreach activities related to any human space flight endeavors, including the International Space Station, the shuttle, any expendable launch vehicles intended to further human endeavors in space, and future missions to the Moon and Mars. Clark's particular interest is in "Human Factors"; all the elements necessary for the health, safety, and efficiency of crews involved in long duration space flight. These include training, interfacing with machines and robotics, biological

countermeasures for the undesirable physical changes associated with space flight, and the psychological issues that may occur in response to the closed, dangerous environments while traveling in space or living on other planets.

She received a Master's and a Doctoral degree in Kinesiology from the University of Michigan, and is currently pursuing a second Master's degree in Geology.

Clark's biologic interests are focused on neuromuscular development and adaptation to altered environments. Experiments are performed at the tissue level and include immunocytochemistry and in situ hybridization of skeletal muscle and spinal cord grown both in vivo and in vitro. Clark's experience with NASA began with a neuromuscular development study (NIH.R1) that flew on STS-66 in November of 1994. These experiments were repeated and augmented (NIH.R2) on STS-70 in July of 1995. She was also involved in the Neurolab project flown on STS-90 in May of 1998 and the aforementioned ladybug experiment that flew on STS-93 with Commander Eileen Collins.

Clark's geologic interests are in geophysics and the composition of the lunar mantle. She is currently using the Apollo seismic data to model the constituents of the lunar mantle.

Clark is the Chair of the Board of Control of Michigan Tech University, a member of the Board of Trustees of Western Reserve Academy, and serves on the board of Orion's Quest, an education oriented not-for-profit organization. She received the NASA Space Flight Awareness Team Award, the women in Aerospace International Award, the NASA Customer Service Award, NASA Public Service Medal for her work on the "Return to Flight Commission" following the Columbia accident, a second Public Service Award and the Russian Medal of Service for her work on the Joint Russian-US Task force on the International Space Station. She was inducted into the National Women's Museum in 2001.

She is a past member of the Board of Directors of Women in Aerospace, is an airplane pilot and member of the 99's (the International Society of Women Pilots), and an avid cyclist, swimmer, and cross-country skier. She is an owner of a jazz club in Ann Arbor. She is married to Dr. Robert Ike, a rheumatologist at the University of Michigan Medical School.