

Biographical Data



Lyndon B. Johnson Space Center
Houston, Texas 77058

National Aeronautics and
Space Administration

NAME: Scott M. Smith, Ph.D.

TITLE: Chief Scientist for the Nutritional Biochemistry Laboratory at NASA Johnson Space Center.

EDUCATION: Dr. Smith received a B.S. in Biology from Penn State in 1985, and a Ph.D. in Nutrition in 1990, also from Penn State. His postdoctoral research work was conducted at the USDA Human Nutrition Research Center in Grand Forks, North Dakota, studying the interactions of nutrients and temperature regulation.

SPECIAL HONORS AND AWARDS:

Dr. Smith has received many awards throughout his tenure at NASA, including team and individual awards. In 2003 he received a NASA Space Flight Awareness Silver Snoopy Award for outstanding performance, contributing to flight safety and mission success. In 2004, he was a nominee for the Rotary National Award for Space Achievement (RNASA) Foundation Stellar Award.

EXPERIENCE:

Dr. Smith began working at the Johnson Space Center in 1992. He leads the Nutritional Biochemistry Laboratory at NASA/JSC. The primary goal of this group is to determine the nutritional requirements for extended-duration space flight. This involves operational (i.e., clinical/medical) studies of nutritional status for International Space Station crewmembers, as well as conducting human nutrition research experiments. Ongoing research projects include studies of the effects of weightlessness on calcium and bone metabolism and the investigation of countermeasures (or treatments) for ameliorating spaceflight-induced changes in bone. Dr. Smith is the Principal Investigator for a Calcium Kinetics experiment which was part of the STS-107 mission on the Space Shuttle Columbia.

Dr. Smith participated in the definition of the current nutritional recommendations for extended-duration space flight, and is Co-Chair of the Multilateral Medical Operations Panel - Nutrition Working Group, which includes representatives from the Canadian, European, Japanese, and Russian space agencies. He is very active in supporting NASA's Education/outreach efforts, including work on the *Space Nutrition Newsletter*, and developing a course in Nutritional Biochemistry at the University of Houston initiated in 2004.

Dr. Smith also served as Project Scientist for the NASA/Mir Program Human Life Sciences Discipline. His responsibilities included integration and implementation of 19 human research studies onboard the Mir Space Station from 1996-1998.

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