

Dr. Steven (Steve) Glenwood MacLean
Canadian Space Agency Astronaut- Retired



PERSONAL DATA:

Born December 14, 1954, in Ottawa, Ontario
Steve MacLean is married with children.

EXPERIENCE:

From 1974 until 1976, Steve MacLean worked in sports administration and public relations at York University, and competed with the Canadian National Gymnastics Team from 1976 to 1977. He taught part-time at York University from 1980 until 1983, and then became a visiting scholar at Stanford University under the renowned laser physicist and Nobel Laureate A.L. Shawlow. As a laser physicist himself, MacLean's research has included work on electro-optics, laser-induced fluorescence of particles and crystals, and multi-photon laser spectroscopy.

SPACE EXPERIENCE:

Selected as one of the first six Canadian astronauts in December 1983, MacLean began astronaut training in February 1984.

From 1987 to 1993, MacLean was the Program Manager for the Advanced Space Vision System (ASVS), a computer-based camera system designed to provide guidance data that enhances the control of both Canadarm 1 and 2. From 1988 to 1991, he also assumed the role of Astronaut Advisor to the Strategic Technologies in Automation and Robotics (STEAR) Program.

Steve MacLean was the Chief Science Advisor for the International Space Station from 1993 until 1994, when he was appointed Director General of the Canadian Astronaut Program for two years.

More recently MacLean served as CAPCOM (Capsule Communicator) for both the International Space Station (ISS) Program and the Shuttle Program, at the Johnson Space Center.

SPACE FLIGHT:

STS-52

From October 22 to November 1, 1992, MacLean flew aboard Space Shuttle Columbia as a Payload Specialist for Mission STS-52. During this mission, he performed a set of seven experiments known as CANEX-2, which included the evaluation of the Space Vision System.

In August 1996 MacLean began mission specialist training at the Johnson Space Center in Houston, Texas. After successfully completing basic training in 1998, he continued with advanced training while fulfilling technical duties in the NASA Astronaut Office Robotics Branch.

STS-115

Steve MacLean went to space for the second time on Mission STS-115, (September 9-21, 2006) and served as mission specialist on Space Shuttle Atlantis. MacLean became the first Canadian to operate Canadarm2 in space when the crew installed trusses and deployed solar array panels on the International Space Station. On this mission, Steve MacLean also became the second Canadian to walk in space. STS-115 Atlantis was the 19th mission to the International Space Station. Twice flown, Steve MacLean has logged over 21 days in space including 7 hours and 11 minutes in one EVA.

CURRENT STATUS:

Dr. MacLean retired as an active astronaut to become the President of the Canadian Space Agency (CSA).

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