

# BIOGRAPHICAL DATA SHEET

**NAME:** Frederick H. "Rick" Hauck

**ORAL HISTORY:** 20 November 2003

17 March 2004

## **EDUCATIONAL BACKGROUND:**

B.S. in Physics, Tufts University, Medford, MA , 1962

M.S. in Nuclear Engineering, Massachusetts Institute of Technology, Cambridge, MA, 1966

## **PRE-NASA EXPERIENCE:**

United States Navy (1962-1990)

- Communications Officer and CIC Officer, *USS Warrington* (DD-843) (1962-1963)
- Student, U.S. Naval Postgraduate School, Monterey, CA (1964)
- Student, Defense Language Institute, Monterey, CA (1965)
- Student, Massachusetts Institute of Technology, Cambridge, MA (1965-1966)
- Flight Training, Naval Air Station, Pensacola Naval Air Station, Pensacola, FL (1966-1968)
- Pilot, Attack Squadron 35, *USS Coral Sea* (CVA-43) (1968-1970)
- Visual Weapons Delivery Instructor, Attack Squadron 42 (1970)
- Test Pilot Training, U.S. Naval Test Pilot School, Patuxent River, MD (1971)
- Project Test Pilot, Naval Air Test Center, Patuxent River, MD (1971-1974)
- Operations Officer, Carrier Air Wing 14, *USS Enterprise* (CV(N)-65) (1974-1977)
- Executive Officer, Attack Squadron 145 (1977)
- Detailed to NASA (1978-1989)

## **NASA EXPERIENCE:**

NASA Johnson Space Center, Houston, TX (1978-1989)

- Astronaut, Astronaut Office (1978-1989)

NASA Headquarters, Washington, DC (1986-1987)

- NASA Associate Administrator for External Relations (1986-1987)

## **POST-NASA EXPERIENCE:**

United States Navy, Office of the Chief of Naval Operations, Washington, DC (1989-1990)

- Director, Navy Space Systems Division (1989-1990)

International Technology Underwriters, Inc., Washington, DC (1990-1998)

- President and Chief Operating Officer (1990-1993)
- President and Chief Executive Officer (1993-1998)

AXA Space, Bethesda, MD (1998-present)

- President and Chief Executive Officer (1998-present)

**MISSIONS:***STS-7 (Challenger)*

- Crew: Commander Robert L. Crippen, Pilot Frederick H. Hauck, Mission Specialist 1 John M. Fabian, Mission Specialist 2 Sally K. Ride, Mission Specialist 3 Norman E. Thagard
- Launched: 18 June 1983 at 07:33:00 A.M. EDT from Kennedy Space Center, FL
- Duration: 6 days, 2 hours, 23 minutes, 59 seconds
- Landed: 24 June 1983 at 06:56:59 A.M. PDT, Edwards AFB, California
- Mission Highlights: This mission was historic for it was the first time an American woman flew in space and was the first time the Shuttle was flown in close proximity to a satellite. The crew deployed two communications satellites, the Anik C-2 for TELESAT Canada and Palapa-B1 for Indonesia. There were a number of experiments onboard including seven Get-Away Special canisters, ten experiments on the Shuttle Pallet Satellite, and an experiment designed to investigate space sickness. Other payloads included: the Office of Space and Terrestrial Applications (OSTA-2), the Continuous Flow Electrophoresis System (CFES), the Monodisperse Latex Reactor (MLR), and one Shuttle Student Involvement Program (SSIP) experiment.

*STS 51-A (Discovery)*

- Crew: Commander Frederick H. Hauck, Pilot David M. Walker, Mission Specialist 1 Anna L. Fisher, Mission Specialist 2 Dale A. Gardner, Mission Specialist 3 Joseph P. Allen
- Launched: 8 November 1984 at 07:15:00 A.M. EST from Kennedy Space Center, FL
- Duration: 7 days, 23 hours, 44 minutes, 56 seconds
- Landed: 16 November 1984 at 06:59:56 A.M. EST, Kennedy Space Center, FL
- Mission Highlights: The crew deployed two satellites: the TELESAT-H (Anik D2) and SYCOM IV-I (Leasat 1). This was the first space salvage in history, as the crew retrieved two faulty satellites and returned them to Earth. Other payloads included: Diffusive Mixing of Organic Solutions (DMOS) and Radiation Monitoring Equipment (RME).

*STS-26 (Discovery)*

- Crew: Commander Frederick H. Hauck, Pilot Richard O. Covey, Mission Specialist 1 John M. Lounge, Mission Specialist 2 George D. Nelson, Mission Specialist 3 David C. Hilmers
- Launched: 29 September 1988 at 11:37:00 A.M. EDT from Kennedy Space Center, FL
- Duration: 4 days, 1 hours, 0 minutes, 11 seconds
- Landed: 3 October 1988 at 09:37:11 A.M. PDT, Edwards AFB, California
- Mission Highlights: This was the first flight after the *Challenger* tragedy. The crew deployed the NASA Tracking and Data Relay Satellite-3 (TDRS-3). Secondary payloads included the Physical Vapor Transport of Organic Solids (PVTOS), the Protein Crystal Growth (PCG); the Infrared Communications Flight Experiment

(IRCFE), the Aggregation of Red Blood Cells (ARC), the Isoelectric Focusing Experiment (IFE), Mesoscale Lightning Experiment (MLE), the Phase Partitioning Experiment (PPE), the Earth-Limb Radiance Experiment (ELRAD), the Automated Directional Solidification Furnace (ADSF), and two Shuttle Student Involvement Program (SSIP) experiments.

#### **AWARDS & CITATIONS:**

- Two Department of Defense Distinguished Service Medals
- NASA Distinguished Service Medal
- NASA Medal for Outstanding Leadership
- Defense Superior Service Medal
- Legion of Merit
- Distinguished Flying Cross
- Nine Air Medals
- Navy Commendation Medal with Gold Star and Combat V
- Three NASA Space Flight Medals
- Astronaut Hall of Fame
- National Associate of the National Academies
- Navy Outstanding Test Pilot Award
- Presidential Cost Saving Commendation
- AIAA Haley Space Flight Award
- Lloyd's of London Silver Medal for Meritorious Service
- Two AAS Flight Achievement Awards
- Federation Aeronautique Internationale (FAI) Yuri Gagarin Gold Medal
- Two FAI Komarov Diplomas
- Tufts University Presidential Medal
- Tufts University Light on the Hill Award
- Delta Upsilon Distinguished Alumnus Award
- Who's Who in America

#### **SELECT PUBLICATIONS & PATENTS:**

R. L. Crippen and F. H. Hauck, "Orbiter operations in close proximity to free-flying satellites or formation flying in space," (Houston: NASA Lyndon B. Johnson Space Center, 1983).

F. H. Hauck and D. A. Gardner, "Space salvage – A report on Shuttle mission STS 51-A," (Houston: NASA Lyndon B. Johnson Space Center, 1985).

U.S. Department of Transportation Commercial Space Transportation Advisory Committee Task Group, *Report on Soviet Entry into the World Space Market* (Washington, DC: Department of Transportation, 1992).

NASA External Independent Readiness Review Team for the Second Servicing Mission to the Hubble Space Telescope, *Final Report* (Washington, DC: NASA, 1996).

National Research Council Committee on Space Shuttle Meteoroid/Debris Risk Management, *Protecting the Space Shuttle from Meteoroids and Orbital Debris* (Washington, DC: National Academy Press, 1997).

National Research Council, *Safe on Mars: Precursor Measurements Necessary to Support Human Operations on the Martian Surface* (Washington, DC: National Academy Press, 2002).

**REFERENCES:**

"AXA Index Main," AXA Space Homepage, Online, <http://www.axaspace.com/IndexMain.htm> (Last Updated n.d.; Accessed 12 March 2002).

Douglas B. Hawthorne, Men and Women of Space (San Diego: Univelt, 1992), 312, 314.

Frederick H. "Rick" Hauck, interview, May 1983, Transcript, Oral History Collection, NASA History Office, NASA Headquarters, Washington, DC.

"Frederick H. 'Rick' Hauck NASA Biographical Data Sheet," Astronaut Biographies Homepage, Online, <http://www.jsc.nasa.gov/Bios/htmlbios/hauck-fh.html> (Last Updated 18 February 2002; Accessed 6 March 2002).

"STS 51-A," Kennedy Space Center Historical Archive Homepage, Online, <http://science.ksc.nasa.gov/shuttle/missions/51-a/mission-51-a.html> (Last Updated 29 June 2001; Accessed 11 March 2002).

"STS-7," Kennedy Space Center Historical Archive Homepage, Online, <http://science.ksc.nasa.gov/shuttle/missions/sts-7/mission-sts-7.html> (Last Updated 29 June 2001; Accessed 19 December 2001).

"STS-26," Kennedy Space Center Historical Archive Homepage, Online, <http://science.ksc.nasa.gov/shuttle/missions/sts-26/mission-sts-26.html> (Last Updated 29 June 2001; Accessed 11 March 2002).

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