

NASA JOHNSON SPACE CENTER ORAL HISTORY PROJECT

BIOGRAPHICAL DATA SHEET

NAME: Francis E. "Frank" Hughes

ORAL HISTORY: August 29, 2013
September 9, 2013
September 17, 2013
September 25, 2013
September 30, 2013
October 8, 2013
October 29, 2013
November 18, 2013
November 21, 2013

EDUCATIONAL BACKGROUND:

B.S. in Physics, St. Mary's College, Moraga, CA, 1965

M.S. in Environmental Management, University of Houston-Clear Lake, Houston, TX, 1977.

NASA EXPERIENCE:

NASA Kennedy Space Center, FL (1966-1971)

- Simulator Instructor (1966-1971)

NASA Manned Spacecraft Center/Johnson Space Center, Houston, TX (1971-1999)

- Flight Planner, Skylab (1971-1974)
- Flight Activities Office, Skylab (1971-1974)
- Flight Planner, Space Shuttle Approach and Landing Flight Tests (1974-1976)
- Future Operations Planning Group (1976-1977)
- Flight Simulation Operations, Space Shuttle Program (1977-1979)
- Head, Ascent/Entry Training Section (1979-1983)
- Chief, Flight Training Branch (1983-1988)
- Chief, Space Station Operations and Training Office (1988-1990)
- Chief, Space Station Operations and Training Office (1990-1993)
- Chief, Space Flight Training Division (1993-1999)

POST-NASA EXPERIENCE:

Tietronix Software, Inc., Houston, TX (9/2001 to present)

- Vice President, Training Products

Hernandez Engineering, Inc., Houston, TX (5/99 to 8/2001)

- Director, Training Services Division

Science National Honor Society, Houston, TX (2000 to present)

- Chairman of the Board

SELECT PUBLICATIONS & PATENTS:

- F. Hughes and C. Floyd, "Navigation Training in Current Spaceflight," (Washington, D.C.: Institute of Navigation, 1 January 1970).
- F. Hughes and C. Floyd, "Navigation Training for Current Space Flights," Institute of Navigation 25th Annual Meeting on Navigation Training for Current Space Flights, Colorado Springs, CO, 1-2 July 1970.
- F. E. Hughes, et al., "The CNOCOM/MIS Pilot System Study Final Report, 1 May 1970-30 April 1971," AD-722803 (Westlake Village, CA: Bunker Ramo Corporation, 1971).
- F.E. Hughes, "Simulation for STS Flight Crew Training," American Institute of Aeronautics and Astronautics Aerospace Sciences Meeting, Orlando, FL, 11-14 January 1982.
- F. E. Hughes, "Flight Training for Space Shuttle Missions," Society for Computer Simulation, Multiconference, San Diego, CA, 23-24 January 1986.
- Frank E. Hughes and Robert K. Holkan, "Training for 21st Century Space Missions," NASA American Institute of Aeronautics and Astronautics Symposium on Lunar Bases and Space Activities in the 21st Century, Houston, TX, 5-7 April 1988.
- Frank E. Hughes, "Spaceflight Training Issues-Shuttle Versus Station," American Institute of Aeronautics and Astronautics Space Programs and Technologies Conference, Huntsville, AL, 24-27 March 1992.
- Frank E. Hughes, et. al., "Surgical Competence: Challenges of Assessment in Training and Practice," The Royal College of Surgeons of England, The Smith and Nephew Foundation, London, 1999.

REFERENCES:

- "Briefings, Panels, Parties Recall Skylab Years," Space News Roundup (NASA Lyndon B. Johnson Space Center), 1.
- Charles L. Dumis, interview by Kevin M. Rusnak, 1 March 2002, CD, transcript, JSC Oral History Project, JSC History Collection, University of Houston-Clear Lake, University Archives, Houston, TX.
- "Computer-Aided Training Experts Meet: JSC Hosting Discussion of Advances, Possibilities," Space News Roundup (NASA Lyndon B. Johnson Space Center), 1.
- "Cooperation Key to Success of New Shuttle Training Facility," Space News Roundup (NASA Lyndon B. Johnson Space Center), 3.
- "Crew Training Countdown: Pre-launch Sims Underway in FOD," Roundup (NASA Lyndon B. Johnson Space Center), 1.

Frank E. Hughes NASA Biographical Data Sheet (May 1988), Frank E. Hughes Biographical File, Public Affairs Office, NASA Lyndon B. Johnson Space Center, Houston, TX.

Frederick D. Hauck, interview by Jennifer Ross-Nazzal, 17 March 2004, CD, transcript, JSC Oral History Project, JSC History Collection, University of Houston-Clear Lake, University Archives, Houston, TX.

Jay F. Honeycutt, interview by Rebecca Wright, 22 March 2000, CD, transcript, JSC Oral History Project, JSC History Collection, University of Houston-Clear Lake, University Archives, Houston, TX.

Lyndon B. Johnson Space Center Telephone Directories (1968-1969; 1971-1978; 1980; 1985-1987; 1989; 1991-1994; 1996; 1998), Organization Files, Center Series, JSC History Collection, University of Houston-Clear Lake, University Archives, Houston, TX.

Marlowe D. Casseti, interview by Carol L. Butler, 10 May 1999, CD, transcript, JSC Oral History Project, JSC History Collection, University of Houston-Clear Lake, University Archives, Houston, TX.

NASA Lyndon B. Johnson Space Center News Release, "Schooling of Astronauts, 35 New Candidates is Varied, Exciting," 79-20, 8 April 1979, Public Affairs Office, NASA Lyndon B. Johnson Space Center, Houston, TX.

NASA Lyndon B. Johnson Space Center News Release, "Skylab Hometown Release-Frank E. Hughes," 74-17, 21 February 1974, Public Affairs Office, NASA Lyndon B. Johnson Space Center, Houston, TX.

"People on the Move," Space Center Roundup (NASA Lyndon B. Johnson Space Center), 4 June 1999, 8.

"Science National Honor Society Board of Directors: Frank E. Hughes," SNHS, Online, <http://www.sciencenhhs.org/hughes.html> (Last Updated: n.d.; Accessed: 19 January 2005).

"Tietronix Software, Inc. Management Team," Tietronix Software, Inc., Online, http://www.tietronix.com/aboutUs/aboutUs_management_hughes.asp (Last Updated: n.d.; Accessed: 19 January 2005).

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