

NASA JOHNSON SPACE CENTER ORAL HISTORY PROJECT

BIOGRAPHICAL DATA SHEET

NAME: Michael B. Duke

ORAL HISTORY: 13 October 1999

EDUCATIONAL BACKGROUND:

BS in Geology, California Institute of Technology, Pasadena, California, 1957
MS in Geology, California Institute of Technology, Pasadena, California, 1961
PhD in Geochemistry, California Institute of Technology, Pasadena, California, 1963

PRE-NASA CAREER:

United States Geological Survey (USGS), Washington, District of Columbia
Research Geologist, Branch of Astrogeologic Studies (1963-1970)
Project Chief, Cosmic Dust Investigations, USGS, Washington, District of Columbia
Apollo 11 Lunar Sample Principal Investigator, USGS, Houston, Texas (1969-1970)

NASA CAREER:

NASA Manned Spacecraft Center/Lyndon B. Johnson Space Center, Houston, Texas
Lunar Sample Curator (1970-1977)
Chief, Solar System Exploration Division, Space and Life Sciences Directorate
(1977-1990)
Manager for Program Science, New Initiatives Office (1990-1993)
Assistant Director for Space Science (1993-1996)

POST-NASA CAREER:

Adjunct Professor, Rice University, Houston, Texas (1979- date unknown)
Lunar and Planetary Institute, Houston, Texas
Senior Project Coordinator, Human Exploration and Development of Space –
University Partners (HEDS-UP) Program (1996-Present)

CURRENT OCCUPATION: Senior Project Coordinator, HEDS-UP Program, Lunar and
Planetary Institute, Houston, Texas

PROFESSIONAL & HONORARY SOCIETIES:

- Fellow, AIAA (American Institute of Aeronautics and Astronautics)
- Member, AAAS (American Association for the Advancement of Science)
- Member, Sigma Xi (international honor society for scientific and engineering research)
- Member, Meteoritical Society
- Member, American Geophysical Union
- Member, International Academy of Astronautics

- Member, Geological Society

AWARDS & CITATIONS:

- Ninninger Meteorite Award (Arizona State University), 1963
- NASA/JSC Special Achievement Award, 1979
- Presidential Meritorious Award, 1988
- AIAA Space Science Award, 1991
- Space Science Medal

SELECT PUBLICATIONS:

Duke, M. B., C. C. Woo, G. A. Sellers, M. L. Bird and R. B. Finkelman. "Genesis of lunar soil at Tranquillity Base." In Proceedings of the Apollo 11 Lunar Science Conference, Houston, Texas, January 5-8, 1970, edited by A. A. Levinson. Vol. 1, Mineralogy and Petrology. 347-361. New York: Pergamon Press, 1970.

Duke, Michael B. and Nancy Ann Budden. Results, proceedings and analysis of the Mars Exploration Workshop conducted at the Lunar and Planetary Institute, Houston, Texas, August 11-12, 1992. Houston, TX: Lyndon B. Johnson Space Center, 1992.

HEDS-UP Mars Exploration Forum: held at Lunar and Planetary Institute, Houston, Texas, May 4-5, 1998. Nancy Ann Budden and Michael B. Duke, eds. Houston, TX: Lunar and Planetary Institute, 1998.

Manned Mars Missions: A working group report. Michael B. Duke and Paul W. Keaton, eds., NASA-TM 89214. Washington, DC: National Aeronautics and Space Administration, 1986.

Mars Exploration Study Group: report of a workshop sponsored by NASA Lyndon B. Johnson Space Center and held at the Ames Research Center, May 24-25, 1993. Michael B. Duke and Nancy Ann Budden, eds. Washington, DC: National Aeronautics and Space Administration, 1994.

Mars Surface Mission Workshop: Held at Houston, Texas, October 4-5, 1997, Michael B. Duke, ed. Houston, TX: Lunar and Planetary Institute, 1997.

Report of the Lunar Base Working Group: April 23-27, 1984. Michael B. Duke, Wendell W. Mendell, Paul W. Keaton eds. Los Alamos, NM: Los Alamos National Laboratory, 1984.

Summer workshop on near-earth resources, James R. Arnold and Michael B. Duke eds., NASA-CP 2031. Washington, DC: National Aeronautics and Space Administration, Scientific and Technical Information Office, 1978.

U. S. National Aeronautics and Space Administration, Space resources, Mary Fae McKay, David S. McKay and Michael B. Duke, eds. NASA-SP 509. Washington, DC: National Aeronautics and Space Administration, 1992.

Workshop on Using In Situ Resources for Construction of Planetary Outposts: held at Albuquerque Hilton Hotel, Albuquerque, New Mexico, April 30-May 1, 1998, Mike Duke, ed. Houston, TX: Lunar and Planetary Institute, 1998.

BIOGRAPHICAL REFERENCES:

American Men and Women of Science, 1998-99, 20th Edition, (New Providence, NJ: R.R. Bowker, 1998). s.v. "Duke, Michael B."

NASA Biographical Data Sheet (February 1993), Michael B. Duke Key Personnel File, Awards Office, Lyndon B. Johnson Space Center, Houston, TX.

Nomination for AIAA Associate Fellow, Michael B. Duke Key Personnel File, Awards Office, Lyndon B. Johnson Space Center, Houston, TX.

Nomination for Most Outstanding, Science Award, Michael B. Duke Key Personnel File, Awards Office, Lyndon B. Johnson Space Center, Houston, TX.

Who's Who in Science and Engineering, 1998-1999, 4th Edition, (New Providence, NJ: Marquis Who's Who, 1998). s.v. "Duke Michael B."

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