

# NASA JOHNSON SPACE CENTER ORAL HISTORY PROJECT

## BIOGRAPHICAL DATA SHEET

**NAME:** Wilmot Norton Hess

**ORAL HISTORY:** 22 April 2002

### **EDUCATIONAL BACKGROUND:**

B.S. in Electrical Engineering, Columbia University, New York City, New York, 1946

M.A. in Physics, Oberlin College, Oberlin, Ohio, 1949

Ph.D. in Physics, University of California, Berkeley, California, 1954

### **PRE-NASA EXPERIENCE:**

United States Naval Reserve (1944-1946)

Instructor, Physics, Mohawk Valley Community College, Utica, New York (1946-1947)

Instructor, Physics, Oberlin College, Oberlin, Ohio (1949-1950)

Physicist, Lawrence Radiation Laboratory, University of California, Berkeley and Livermore, California (1954-1959)

Director, Plowshare Division, Lawrence Radiation Laboratory, University of California, Livermore, California (1959-1961)

### **NASA EXPERIENCE:**

NASA Goddard Space Flight Center, Greenbelt, Maryland

Director, Theoretical Division (1961-1967)

NASA Manned Spacecraft Center, Houston, Texas

Director, Science and Applications Directorate (1967-1969)

### **POST-NASA EXPERIENCE:**

Director, Environmental Research Labs, Environmental Science Service Administration, U.S. Department of Commerce, Boulder, Colorado (1969-1971)

Adjunct Professor, University of Colorado, Boulder, Colorado (1970-1978)

Director, National Oceanic and Atmospheric Administration (NOAA) Research Labs, U.S. Department of Commerce, Boulder, Colorado (1971-1980)

Director, National Center for Atmospheric Research, National Science Foundation, Boulder, Colorado (1980-1986)

Director, High Energy and Nuclear Physics Division, Office of Energy Research, U.S. Department of Energy, Germantown, Maryland (1986-1993)

Associate Director, Office of Energy Research, U.S. Department of Energy, Germantown, Maryland (1993-1996)

### **AWARDS & CITATIONS:**

- Arthur S. Flemming Award, 1965
- NASA Group Achievement Award, 1969
- American Institute of Aeronautics and Astronautics G. Edward Pendray Award, 1969

- Honorary D.Sc., Oberlin College, Oberlin, Ohio, 1970

**SELECT PUBLICATIONS:**

Hess, Wilmot N. "Energetic Particles in the Inner Van Allen Belt." Space Science Reviews 1 (October 1962): 278-312.

Hess, Wilmot N. "The Manmade Radiation Belts." NASA-TM-X-50561. Greenbelt, MD: NASA Goddard Space Flight Center, 1 January 1963.

Hess, Wilmot N. "Neutrons in Space." NASA-TN-D-1696. Greenbelt, MD: NASA Goddard Space Flight Center, 1 February 1963.

Hess, Wilmot N. and John A. Poirier. "Energy Spectrum of electrons in the Outer Radiation Belt." NASA-TN-D-1717. Greenbelt, MD: NASA Goddard Space Flight Center, 1 March 1963.

Hess, Wilmot N. "The Artificial Radiation Belt Made on July 9, 1962." NASA-TN-D-1687. Greenbelt, MD: NASA Goddard Space Flight Center, 1 April 1963.

Hess, Wilmot N. "Lifetime and Time Histories of Trapped Radiation Belt Particles." Committee on Space Research 4<sup>th</sup> Annual International Space Science Symposium in Warsaw, Poland, 3-11 June 1963. Hague, Netherlands: Committee on Space Research.

Hess, Wilmot N. "Man Made Radiation Belts." International Science and Technology 21(September 1963): 40-48.

Goddard Space Flight Center. Introduction to Space Science. Edited by Wilmot N. Hess. New York: Gordon and Breach, 1965.

Hess, Wilmot N., Donald H. Menzel and John A. O'Keefe, eds. The Nature of the Lunar Surface: Proceedings of the 1965 IAU-NASA Symposium. Baltimore, MD: Johns Hopkins Press, 1966.

Hess, Wilmot N. The Radiation Belt and Magnetosphere. Waltham, Massachusetts: Blaisdell Publishing Co., 1968.

Hess, Wilmot N., ed. Weather and Climate Modification. New York: Wiley, 1974.

Hess, Wilmot N., ed. U. S. Department of Commerce. National Oceanic and Atmospheric Administration. The Amoco Cadiz Oil Spill: A Preliminary Scientific Report. Washington, DC: GPO, 1978

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American Men & Women of Science, vol. 3, *G-I*, 20<sup>th</sup> ed. (New Providence, New Jersey: R. R. Bowker Co., 1998), s.v. "Hess, Wilmot Norton."

Barbara A. Tinucci, ed., Who's Who in Technology Today, 4<sup>th</sup> ed. (Lake Bluff, Illinois: J. Dick Publishing, 1984), s.v. "Hess, Wilmot N. (Dr.)."

Gordon Davis, ed., Who's Who in Engineering, 9<sup>th</sup> ed. (Washington, DC: American Association of Engineering Societies, 1995), s.v. "Hess, Wilmot N."

Who's Who in America, vol. I, A-K, 51<sup>st</sup> ed. (New Providence, New Jersey: Marquis Who's Who, 1997), s.v. "Hess, Wilmot Norton."

Who's Who in Government, 3<sup>rd</sup> ed. (Chicago, Illinois: Marquis Who's Who, 1977), s.v. "Hess, Wilmot Norton."

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