

NASA JOHNSON SPACE CENTER ORAL HISTORY PROJECT

BIOGRAPHICAL DATA SHEET

NAME: James W. "Jim" Head III

ORAL HISTORY: 2 June 2002

EDUCATIONAL BACKGROUND:

B.S., Washington and Lee University, Lexington, VA, 1964

Ph.D. in Geology, Brown University, Providence, RI, 1969

NASA EXPERIENCE:

Bellcomm, Inc., Washington, D.C. (1968-1972)

- Science team member, Apollo Lunar Exploration Program, Advisors to the NASA Apollo Program Director at NASA Headquarters (1968-1972)

POST-NASA EXPERIENCE:

Lunar Science Institute, Houston, TX (1973-74)

- Interim Director

Brown University, Providence, RI (January 1973-present)

- Assistant Professor, Research (January 1973-July 1974)
- Associate Professor, Research (July 1974-July 1975)
- Associate Professor (July 1975-1980)
- Professor, (1980-present)

AWARDS & CITATIONS:

- NASA Medal for Exceptional Scientific Achievement, 1971
- Geology Society of America Special Commendation, 1973
- Council for Advancement and Support of Education Professor of the Year, Rhode Island, 1990
- Omicron Delta Kappa Honor Society, 1990
- NASA Public Service Medal for "exceptional contribution to the Magellan Mission to Venus throughout all phases," 1992
- Fellow, American Association for the Advancement of Science, 1994
- Fellow, The Meteoritical Society, 1994

SELECT PUBLICATIONS & PATENTS:

D. Smith et al., "The Global Topography of Mars and Implications for Surface Evolution," Science, 284, 1495-1503, 1999.

Chevrel, S. D., P. C. Pinet, and J. W. Head, Gruithuisen Domes Region: A Candidate for an Extended Non-Mare Volcanism Unit on the Moon, Jour. Geophys. Res. Planets, 104, 16515-16529, 1999.

C. M. Weitz, M. J. Rutherford, J. W. Head, and D. S. McKay, "Ascent and Eruption of a Lunar High-Titanium Magma as Inferred from the Petrology of the 74001/2 Drill Core," Meteoritics and Planetary Science, 34, 527-540, 1999.

A. Yingst and J. Head, "Geology of Mare Deposits in South-Pole Aitken Basin as Seen by Clementine UVVIS Data," Jour. Geophys. Res. Planets, 104, 18957-18979, 1999.

C. Weitz and J. Head, "Spectral Properties of the Marius Hills Volcanic Complex and Implications for the Formation of Lunar Domes and Cones," Jour. Geophys. Res. Planets, 104, 18933-18956, 1999.

M. Kreslavsky and J. Head, "Morphometry of Small Shield Volcanoes on Venus: Implications for the Thickness of Regional Plains," Jour. Geophys. Res. Planets, 18925-18932, 1999.

M. A. Ivanov and J. W. Head, "The Stratigraphic and Geographic Distribution of Steep-sided Domes on Venus: Preliminary Results from Regional Geologic Mapping and Implications for Their Origin," Jour. Geophys. Res. Planets, 18907-18924, 1999.

A. Basilevsky, J. Head, M. Ivanov, and V. Kryuchkov, "Impact Craters on Geologic Units of Northern Venus: Implications for the Duration of the Transition from Tessera to Regional Plains," Geophysical Research Letters, 26, no. 16, 2593-2596, 1999.

A. Basilevsky and J. Head, "The Geologic History of Venus: A Stratigraphic View," Jour. Geophys. Res. Planets, 103, E4, 8531-8544, 1998.

A. Yingst and J. Head, "Characteristics of Lunar Mare Deposits in Smythii and Marginis Basins: Implications for Magma Transport Mechanisms," Jour. Geophys. Res., 105, 11135-11158, 1998.

A. Basilevsky and J. Head, "Onset Time and Duration of Corona Activity on Venus: Stratigraphy and History from Photogeologic Study of Stereo Images," Earth, Moon and Planets, 76, 67-115, 1997-1998.

C. Weitz, J. Head, and C. Pieters, "Lunar Regional Dark Mantle Deposits: Geologic, Multispectral, and Modeling Studies," Jour. Geophys. Res., 103, 22725-22759, 1998.

G. C. Collins, J. W. Head, and R. T. Pappalardo, "Formation of Ganymede Grooved Terrain by Sequential Extensional Episodes: Implications of Galileo Observations for Regional Stratigraphy," Icarus, 135, 345-359, 1998.

J. Head et al., "Oceans in the Past History of Mars: Tests for Their Presence Using Mars Orbiter Laser Altimeter (MOLA) Data," Geophysical Research Letters, 25, 4401-4404, 1998.

N.A. Spaun, J. W. Head, G. C. Collins, L. M. Prockter, and R. T. Pappalardo, "Conamara Chaos Region, Europa: Reconstruction of Mobile Ice Polygons," Geophysical Research Letters, 25, 4277-4280, 1998.

REFERENCES:

"Faculty and Research Staff, Faculty, James W. Head III," Brown Planetary: Faculty and Staff Homepage, Online, http://www.planetary.brown.edu/planetary/faculty_and_staff.html (Last Updated n.d.; Accessed 20 May 2002).

"James William Head III," Personal Page for James William Head, III, Online, <http://www.planetary.brown.edu/planetary/head/head.html> (Last Updated n.d.; Accessed 20 May 2002).

"James W. Head," International Lunar Exploration Working Group Homepage, Online, <http://ilewg.jsc.nasa.gov/ILEWG/register/head.html> (Last Updated 8 November 2000; Accessed 20 May 2002).

James W. Head, interview by Kirk Wolfinger, 7 December 1998, Transcript, Center Series, History Collection, Scientific and Technical Information Center, NASA Lyndon B. Johnson Space Center, Houston, TX.

"James W. Head, Publications," International Lunar Exploration Working Group Homepage, Online, http://ilewg.jsc.nasa.gov/ILEWG/register/head_papers.html (Last Updated 8 November 2000; Accessed 20 May 2002).

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