

CHARLES T. BOURLAND

BIOGRAPHICAL DATA SHEET

NAME: Charles T. Bourland

ORAL HISTORY: 7 APRIL 2006

EDUCATIONAL BACKGROUND:

- Bachelors of Science in Agriculture, University of Missouri, Columbia, MO, 1959
- Masters of Science in Dairy Husbandry, University of Missouri, Columbia, MO, 1967
- Doctorate of Philosophy in Food Science and Nutrition, University of Missouri, Columbia, MO, 1970

PRE-NASA EXPERIENCE:

U.S. Army (1960-1962)

- Platoon Leader, U.S. Army, Air Defense Artillery (1960-1962)

NASA EXPERIENCE:

NASA Manned Spacecraft Center/Lyndon B. Johnson Space Center, Houston, TX (1969-1999)

- Assistant Project Leader, Technology Incorporated (1969-1972)
- Deputy Manager, Food Science Section, Technology Incorporated (1972-1973)
- Project Leader, Food Depot, Technology Incorporated (1973-1975)
- Project Leader, Space Food Development Group, Technology Incorporated (1975-1985)
- Section Manager, Food Programs, Technology Incorporated (1985-1987)
- Acting Section Manager, Biomedical Laboratories, Technology Incorporated (1987)
- Research Scientist, Lockheed Engineering and Management Services Company (1987)
- Subsystem Manager, Space Station Food, Systems Development Section, Flight Systems Branch, Man-Systems Division, Space and Life Sciences Directorate (1987-1993)
- Aerospace Technician, Life Support Studies, Systems Development Section, Flight Systems Branch, Flight Crew Support Division, Space and Life Sciences Directorate (1993-2000)

POST-NASA EXPERIENCE:

- Aerospace Consultant, NASA Food Technology Commercial Space Center, Iowa State University, Ames, IA (1999-2005)
- Aerospace Consultant, National Space Biomedical Research Institute, Houston, Texas (1999-2004)
- Adjunct Instructor, University of Houston, Texas (2001-2004)

Awards & Citations:

- NASA Group Achievement Award, 1985
- NASA Superior Performance Award, 1988
- NASA Special Achievement Award, 1989
- NASA Performance Award, 1991
- NASA Performance Award, 1993
- NASA Performance Award, 1994
- NASA Performance Award, 1995
- NASA Group Achievement Award, 1996
- NASA Performance Award, 1996
- NASA Performance Award, 1997
- NASA Group Achievement Award, 1998
- NASA Performance Award, 1998
- NASA Silver Snoopy Award, 2000

SELECT PUBLICATIONS:

Charles T. Bourland, "Skylab Food Test and Integration," NASA-CR-128910 (Houston: NASA Lyndon B. Johnson Space Center, 1973): 1-201.

Charles T. Bourland, et al., "Hazard Analysis of Clostridium Perfringens in the Skylab Food System," Journal of Milk and Food Technology 37 (December 1974): 624-628.

Charles T. Bourland, "Food Depot: Apollo-Soyuz Test Project," NASA-CR-147858 (Houston: NASA Lyndon B. Johnson Space Center, 1975): 1-67.

Charles T. Bourland, "Food System for the Space Shuttle Columbia," Journal of the American Dietetic Association 80 (February 1982): 108-114.

Charles T. Bourland, et al., "Space Station Food System," in *Aerospace Environmental Systems: Proceedings of the Sixteenth Intersociety Conference on Environmental Systems Held in San Diego, California, 14-16 July 1986* (Warrendale, PA: Society of Automotive Engineers, Inc., 1986), 179-183.

Charles T. Bourland, et al., "Space Shuttle Food System Summary, 1981-1986," NASA-TM-100469 (Houston: NASA Lyndon B. Johnson Space Center, 1988): 1-335.

Charles T. Bourland and Malcolm C. Smith "Selection of Human Consumables for Future Space Missions," Waste Management and Research: The Journal of the International Solid Waste and Public Cleansing Association 9 (October 1991): 339-344.

Charles T. Bourland and Kimberly Glaus-Late, "Modified Packaged Tortillas Have Long Shelf Life," in *NASA Tech Briefs* (Wheeling, WV: National Technology Transfer Center, 1995): 78.

Charles T. Bourland, et al., "Nutrition and Foods as Related to Space Flight," NASA-20000084328 (Houston: NASA Lyndon B. Johnson Space Center, 1999): 1-23.

Charles T. Bourland, et al., "Quantification and Characteristics of Volatiles Evolved during Extrusion of Rice and Soy Flour," Biotechnology Progress 16 (March/April 2000): 299-301.

Charles T. Bourland and Michele Perchonok, "NASA Food Systems: Past, Present, and Future," Nutrition 18 (October 2002): 913-920.

REFERENCES:

Charles T. Bourland Resume.

Charles T. Bourland Service Record Card, Charles T. Bourland Personnel File, Human Resources Office, NASA Lyndon B. Johnson Space Center, Houston, Texas.

"Charles T. Bourland," University of Missouri Alumni Association Homepage, Online, <http://www.mizzou.com/awardwinners/bourland.htm> (Last Updated: n.d., Accessed: 27 March 2006).

NASA Johnson Space Center Telephone Directories (1973-1998), Organization Files, Center Series, JSC History Collection, University of Houston-Clear Lake, University Archives, Houston, TX.

NASA Manned Spacecraft Center Telephone Directories (1973), Organization Files, Center Series, JSC History Collection, University of Houston-Clear Lake, University Archives, Houston, TX.

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