

APPENDIX B

**SPACE ARCHITECTURE READER
CONTENTS**

**Department of Architecture
University of Wisconsin-Milwaukee**

Section A

Introduction: Why Architects are Involved in Space Design

S. Sutphin (1988). Designing for the future. *Space World*, April, 17-22, 31.

T. Higgins (1989). UWM architects win funds to explore the final frontier. *UWM News*, June 21, 10 pgs.

E.G. Cordes (1988). The history of space architecture design. From E.G. Cordes, G.T. Moore, & T. Hansmann, *Space architecture: A primer for the design of extraterrestrial environments*. Manuscript in preparation, Department of Architecture and Center for Architecture and Urban Planning Research, University of Wisconsin-Milwaukee, 8 pgs.

National Space Council (nd). *Careers in space: An education and career guide for America's space program*. Minneapolis: Final Frontier, 16 pgs.

E.G. Cordes & C.V. Patton (1988). Opportunities for designers and planners. From E.G. Cordes, G.T. Moore, & T. Hansmann, *Space architecture: A primer for the design of extraterrestrial environments*. Manuscript in preparation, Department of Architecture and Center for Architecture and Urban Planning Research, University of Wisconsin-Milwaukee, 8 pgs.

Section B

The History of the Space Program

G.T. Moore (1989). Why go to space: History, science, and exploration. From E.G. Cordes, G.T. Moore, & T. Hansmann, *Space architecture: A primer for the design of extraterrestrial environments*. Manuscript in preparation, Department of Architecture and Center for Architecture and Urban Planning Research, University of Wisconsin-Milwaukee, 20 pgs.

M. Weiss & G. Freiherr (1989). Lunar 2009. *Final Frontier*, 2(4), 52-53, 60-63.

Section C

The Future of Space Design

NASA (1989). Project pathfinder: NASA plans for man's next "giant leap." *NASA Tech Briefs*, July, 16-18.

J. Murphy (1987). An outward continuum: P/A profile, Michael Kalil, New York. *Progressive Architecture*, September, 136-142.

National Space Society (1989). Homesteading the space frontier. *National Space Society*, September 5, 16 pgs.

Section D

The Environment of the Moon

T.M. Crabb (1989). Introduction to the lunar environment and lunar base development issues. Unpublished class lecture notes, Department of Architecture, University of Wisconsin-Milwaukee, September 13, 9 pgs.

J.H. Moths (1990). The moon and Mars, too. Unpublished independent study paper, December, 17 pgs.

R. Robinson (1989). Constructor/astronauts will soon carry their own housing to the moon for shelter as they begin to build a more permanent habitat. *Civil Engineering*, January, 40-43.

Section E

Space Analogies, Simulations, and Previous Space Exploration

NASA (1989). *Space Station Freedom program description*. Space Station Media Handbook. Washington, DC: Technical and Administrative Services Corporation, April, 22-47, 94-99.

L. David (1988). Living in space. *Space Station Freedom: A foothold on the future*. Washington, DC: NASA, Office of the Space Station, October, 16-19.

J. Klassi (1988). Comparisons between space facilities and earth-based analogues. *Lunar bases and space activities of the 21st century*. Houston: Lunar and Planetary Institute, 882-891.

R.W. Johnson & T. Kingsley (1988). Antarctic research and lunar exploration: Useful parallels. *Lunar bases and space activities of the 21st century*. Houston: Lunar and Planetary Institute, 892-903.

J.W. Stuster (1986). *Space Station habitability recommendations based on a systematic comparative analysis of analogous conditions*. Washington, DC: NASA Contractor Report 3943, September, 23 pgs.

I. Anderson (1989). Biosphere II: A world apart. *New Scientist*, March 18, 34-35.

Space Biospheres Ventures (1990). Biosphere II: A project to create a biosphere. *Space Biospheres Ventures*, February, No. 8, 3-10.

Section F

Human Factors: Anthropometric, Physiological, Medical, Health, and Safety Issues

Anonymous (nd). Making Skylab livable. *Industrial Design*, September, 20(7), 29-43.

Interiors Magazine (nd). *Interiors: Human dimensions*. New York: Interiors Magazine, 13 pgs.

NASA (1987). Anthropometry and biomechanics. *Man-system integration Standards—NASA-STD-3000*, Vol. 1. Washington, DC: NASA Headquarters, March, 3.0-1 to 3.0-12, 3.0-57 to 3.0-58, 4.0-1 to 4.0-8, and 8.6-1 to 8.8-5.

E.G. Cordes (1988). Safety: Problems and design issues. From E.G. Cordes, G.T. Moore, & T. Hansmann, *Space architecture: A primer for the design of extraterrestrial environments*. Manuscript in preparation, Department of Architecture and Center for Architecture and Urban Planning Research, University of Wisconsin-Milwaukee, 9 pgs.

M.M. Connors, A.A. Harrison, & F.R. Akins (1985). Behavioral and selection implications of biomedical changes. *Living aloft: Human requirements of extended space flight*. Washington, DC: NASA Scientific and Technical Information Branch, 19-56.

G.T. Moore (1988). Human factors and environment-behavior relations. From E.G. Cordes, G.T. Moore, & T. Hansmann, *Space architecture: A primer for the design of extraterrestrial environments*. Manuscript in preparation, Department of Architecture and Center for Architecture and Urban Planning Research, University of Wisconsin-Milwaukee, 39 pgs.

K. Boehler (1989). Lifeboat to safer shores. *Ad Astra*, March, 8-12.

Section G

Environment-Behavior Issues: People, Activities, Psychological, and Social Issues

Y. Clearwater (1985). A human place in outer space. *Psychology Today*, July, 34-43.

G. Cranz, A. Eichold, K. Hottes, K. Jones, & L. Weinstein (1985). Social factors in space station interiors. *Space Station Human Factors Research Review*. Washington, DC: NASA Conference Publication 2426, December, 165-189.

V. Lebedev (1989). Diary of a cosmonaut: The loneliness of the long distance space traveler—excerpts from *Diary of a cosmonaut: 211 days in space*. *Final Frontier*, February, 43-47.

M.M. Connors, A.A. Harrison, & F.R. Akins (1985). Habitability. *Living aloft: Human requirements of extended space flight*. Washington, DC: NASA Scientific and Technical Information Branch, 59-104.

G.T. Moore (1990). Psychological and social issues in the design of lunar habitats. Paper presented at the 11th biennial conference of the International Association for the Study of People and their Physical Surroundings, Ankara, Turkey, July, 24 pgs.

Section H

Energy and Natural Resources: Power, Thermal, and Hydraulic Systems

NASA (nd). *The space station power system*. Washington, DC: NASA Office of the Space Station, 10 pgs.

D. Buden & J.A. Anelo (1985). Nuclear energy: Key to lunar development. *Lunar bases and space activities of the 21st century*. Houston: Lunar and Planetary Institute, 85-98.

E.G. Cordes (1988). Natural resources and environmentally responsive design. From E.G. Cordes, G.T. Moore, & T. Hansmann, *Space architecture: A primer for the design of extraterrestrial environments*. Manuscript in preparation, Department of Architecture and Center for Architecture and Urban Planning Research, University of Wisconsin-Milwaukee, 10 pgs.

E.G. Cordes & S.J. Frahm (1988). Energy and its economics. From E.G. Cordes, G.T. Moore, & T. Hansmann, *Space architecture: A primer for the design of extraterrestrial environments*. Manuscript in preparation, Department of Architecture and Center for Architecture and Urban Planning Research, University of Wisconsin-Milwaukee, 15 pgs.

Section I

Lunar Construction Technology

L. Toups (nd). Lunar construction options. Unpublished presentation materials, Lockheed Company, NASA Contract No. NAS9-17900, 16 pgs.

P. Chow & T.Y. Lin (1988). Structures for the moon. *Lunar bases and space activities of the 21st century*. Houston: Lunar and Planetary Institute, 362-374.

A. Binder & L. Toups (1989). Astrotectonics: Construction requirements and methods in space. *SICSA Outreach*, June, 2(2), 12 pgs.

L. Bell (1988). Inflatable space structures. *SICSA Outreach*, May-June, 1(7), 16 pgs.

Section J

Space Biospheres, Controlled Ecological Life Support Systems (CELSS), and Environmentally Controlled Life Support Systems (ECLSS)

R.D. MacElroy, H.P. Klein, & M.M. Averner (1985). The evolution of CELSS for lunar bases. *Lunar bases and space activities of the 21st century*. Houston: Lunar and Planetary Institute, 621-633.

M.J. Mackowski (1988). Greening up on our act. *Space World*, October, 13-15.

P.J. Boston (1981). Life support workshop summary. *The case for Mars*. Space and Technology Series, Vol. 57. Washington, DC: American Astronautical Society, 184-188.

D.B. Reiber (1986). Life support: Flight versus surface systems. *The NASA Mars conference*. *Science and Technology Series*, Vol. 71. Washington, DC: American Astronautical Society, 487-507.

Section K

Bibliography

Space Architecture Design Group (1991). Publications, talks, and interviews on space architecture. Milwaukee: University of Wisconsin-Milwaukee, Department of Architecture and Center for Architecture and Urban Planning Research, January, 8 pgs.