APPENDIX B

MONOGRAPHS, REPORTS, AND PAPERS ON AEROSPACE ARCHITECTURE[1]

Space Architecture Design Group[2]

Department of Architecture
and
Center for Architecture and Urban Planning Research
University of Wisconsin-Milwaukee

Research and Technical Reports

Schnarsky, A.J., Cordes, E.G., Crabb, T., & Jacobs, M. (1988). *Space architecture: Lunar base scenarios* (ed. by E.G. Cordes, G.T. Moore, & S.J. Frahm). Milwaukee: University of Wisconsin-Milwaukee, Center for Architecture and Urban Planning Research, Space Architecture Monograph Series No. 1, Report R88-1. ISBN 0938744-59-3. Pp. vi + 80; figures charts, and 8 design projects. $10.00

Cordes, E.G. (1989). *Lunar base studies.* Unpublished M.Arch. thesis, School of Architecture and Urban Planning, University of Wisconsin-Milwaukee. Pp. iv. + 42; diagrams, plans, and computer-aided design illustrations.

Cordes, E.G. (1989). *Project Newton: A variable gravity research facility* (2 vols.). Strasbourg, France: International Space University/European Space Agency Publication.

Hansmann, T. (1989). *Inflatable lunar habitat mission operations level.* Final report prepared for the NASA/USRA Advanced Design Program, Johnson Space Center, Houston, Texas.

[1] Due to interest in this work, most monographs, reports, and papers are available at the costs indicated, prepaid, from the Center for Architecture and Urban Planning Research, University of Wisconsin-Milwaukee, Milwaukee, WI 53201-0413.

[2] Supported by an Advanced Design Program Grant from the Universities Space Research Association (NASA/USRA).

Baschiera, D.J., Fieber, J.P., Moths, J.H., Paruleski, K.L., & others (1989). *Genesis* Lunar Outpost: Program/requirements documents for an early stage lunar outpost (ed. by E.G. Cordes & G.T. Moore). Milwaukee: University of Wisconsin-Milwaukee, Center for Architecture and Urban Planning Research, Space Architecture Monograph Series No. 2, Report R89-1. ISBN 0-938744-61-5. Pp. 91; figures, charts, tables. $10.00.

Hansmann, T., & Moore, G.T. (Eds.) (1990). *Genesis Lunar Outpost: Criteria and design.* Milwaukee: University of Wisconsin-Milwaukee, Center for Architecture and Urban Planning Research, Space Architecture Monograph Series No. 3, Report R90-1. ISBN 0-938744-69-0. Pp. xiv + 107; plans, illustrations, tables, references. $10.00.

Connell, R.B., Fieber, J.P., Paruleski, K.L., & Torres, H.D. (1990). *Design of an inflatable habitat for NASA's proposed lunar base.* Final report prepared for Universities Space Research Association and NASA Johnson Space Center. Pp. iv + 50.

Fieber, J.P. (1990). *An investigation of technological options in lunar construction.* Independent study report, Advanced Design Program in Space Architecture, Department of Architecture, University of Wisconsin-Milwaukee. Pp. xi + 47.

Moore, G.T., Haberman, D., & others (1990). *Inflatable habitable modular space structure* (4 vols.). Proposal to the Lawrence Livermore National Laboratory in cooperation with Astronautics Corporation of America, Marquette University, Amalga Composites, Inc., and Global Outpost, Inc. Milwaukee: University of Wisconsin-Milwaukee, Center for Architecture and Urban Planning Research. Vol. 1, Technical/Management Proposal, pp. xviii + 48; plus 3 backup volumes.

Paruleski, K.L. (1990). *A comparative analysis of analogous situations, previous space exploration, simulated situations, and future conditions.* Independent study report, Advanced Design Program in Space Architecture, Department of Architecture, University of Wisconsin-Milwaukee. Pp. vi + 56.

Rebholz, P.J. (1991). *Vertical inflatable habitat.* Final report prepared for Universities Space Research Association and NASA Johnson Space Center. Pp. i + 29.

Huebner-Moths, J. (1991). *Environmental conditions of the moon and Mars.* Independent study report, Advanced Design Program in Space Archi-

tecture, Department of Architecture, University of Wisconsin-Milwaukee. Pp. iii + 28.

Fieber, J.P., Huebner-Moths, J., & Paruleski, K.L. (1991). *Genesis II: Advanced Lunar Outpost* (ed. by G.T. Moore). Milwaukee: University of Wisconsin-Milwaukee, Center for Architecture and Urban Planning Research, Space Architecture Monograph Series No. 4, Report R91-2. ISBN 0-938744-74-7. Pp. xvi + 70; plans, illustrations, tables, references. $10.00.

Jankuski, R. (1991). *About Mars.* Independent study report, Advanced Design Program in Space Architecture, Department of Architecture, University of Wisconsin-Milwaukee. Pp. iii + 22; Moore, G.T. (1992, in preparation). Space Architecture in Russia. Special issue of Lunar Toons (UW-Milwaukee) (forthcoming).

Published Papers

Cordes, E.G. (1988). Computer-aided design and space architecture. *Academic Computing*, September, Vol. 3(2), Cover, 18-21, 49. $1.00.

Schnarsky, A.J. (1988). CAD as a tool of change: Architecture a changing profession. *Academic Computing*, September, Vol. 3(2), 22-24. $1.00.

Schnarsky, A.J. (1988). From the near side of the moon. *Wisconsin Architect*, July, 14-16. $1.00.

Moore, G.T. (1990). Environment-behavior issues in extraterrestrial space. In H. Pamir, V. Imamoglu, & N. Teymur (Eds.), *Culture, space, history: Proceedings of the 11th international conference of the International Association for the Study of People and their Physical Surroundings.* Ankara, Turkey: Middle East Technical University Press. Vol. 5, pp. 387-403. $1.00.

Moore, G.T. (1990). An evolutionary habitat for the moon. *Wisconsin Architect*, September/October, 18-19. $1.00.

Moore, G.T. (1991). *Genesis* lunar habitat. In American Institute of Aeronautics and Astronautics, *Final Report* to the Office of Aeronautics, Exploration, and Technology, National Aeronautics and Space Administration on Assessment of Technologies for the Space Exploration Initiative (SEI). Washington, DC: American Institute of Aeronautics and Astronautics. Log No. 284.

Moore, G.T. (1991b). Space architecture design studio. In G. Bizios (Ed.), *Architecture Reading Lists and Course Outlines*, Vol. 2, Architectural Design, Human Behavior, Special Topics. Durham, NC: Eno River Press. Pp. 138-144. $1.00.

Moore, G.T., Baschiera, D.J., Fieber, J.P., & Moths, J.H. (1990). *Genesis* lunar outpost: An evolutionary lunar habitat. In NASA/USRA Advanced Design Program (Ed.), *NASA/USRA University Advanced Design Program: Proceedings of the 6th Annual Summer Conference.* Houston: Lunar and Planetary Institute. Pp. 241-254. $2.00.

Moore, G.T., Fieber, J.P., Huebner-Moths, J.H., & Paruleski, K.L. (1991). *Genesis II:* Advanced lunar outpost. In NASA/USRA Advanced Design Program (Ed.), *NASA/USRA University Advanced Design Program: Proceedings of the 7th Annual Summer Conference.* Houston: Lunar and Planetary Institute. Pp. 329-334. $2.00.

Moore, G.T., Fieber, J.P., Moths, J.H., & Paruleski, K.L. (1991). *Genesis* advanced lunar outpost II: A progress report. In R.C. Blackledge, C.L. Redfield & S.B. Seida (Eds.), *Space--A Call for Action: Proceedings of the Tenth Annual International Space Development Conference.* San Diego, CA: Univelt. Pp. 55-71. $2.00.

Moore, G.T., Huebner-Moths, J., Rebholz, P.J., Fieber, J.P., & Paruleski, K.L. (1992). Lunar base requirements for human habitability. In W. Z. Sadeh, S. Stuse, & R.E. Miller (Eds:), *Engineering, construction, and operations in Space III: Space 92: Proceedings of the American Society of Civil Engineers.* Vol. 1, pp. 224-239. New York: American Society of Civil Engineers. $2.00.

Moore, G.T., & Huebner-Moths, J. (in press). *Genesis II* advanced lunar outpost: Human factors design response. In L. Bell (Ed.), *Proceedings of the First International Design for Extreme Environments Assembly.* Houston: University of Houston, College of Architecture. $2.00.

Moore, G.T. (under review). Psychological and social issues in the design of lunar habitats. Tentatively accepted by the *Journal of Architecture and Planning Research.* $2.00.

Moore, G.T., Rebholz, P.J., Fieber, J.P., Huebner-Moths, J., & Paruleski, K.L. (under review). Aerospace architecture: A comparative analysis of five lunar habitats. Submitted to the *Journal of Spacecraft and Rockets.* $4.00.

Research Papers at Scientific and Professional Meetings

Cordes, E.G., & Lovett, T.J. (1988). Lunar base designs. Video presentation. NASA/Universities Space Research Association 4th Annual Advanced Design Conference, Kennedy Space Center, Cocoa Beach, Florida, May.

Cordes, E.G., & Moore, G.T. (1988). Space architecture and computer-aided design applications. Video presentation. A/E/C Systems '88 Space Station Design and Development Conference, Chicago, May.

Cordes, E.G., & Patton, C.V. (1988). Space exploration: Feasible roles for planners. Association of Collegiate Schools of Planning Conference, Buffalo, New York, October.

Cordes, E.G. (1989). Lunar base studies. CAD-based video presentation. NASA/Universities Space Research Association 5th Annual Advanced Design Conference, Marshall Space Flight Center, Huntsville, Alabama, June.

Cordes, E.G. (1989). Technology transfer for the human environment: Space systems design and the role of architects. Midwest Space Development Conference, West Lafayette, Indiana, October.

Moore, G.T. (1989). Industry/university cooperation in space architecture. Astronautics Corporation of America, Milwaukee, Wisconsin, November.

Moore, G.T. (1989). Environment-behavior issues in extraterrestrial space. Escuela de Arquitectura, Universidad de Puerto Rico, San Juan, Puerto Rico, December.

Moore, G.T., Moths, J.H., & Baschiera, D.J. (1990). Extraterrestrial habitats and how they will effect our futures. Wisconsin Young Astronauts Aviation and Aerospace Conference, Waukesha, Wisconsin, March.

Baschiera, D.J., Gruenberger, M., Moths, J.H., Paruleski, K.L., Schroeder, C.W., & Crabb, T.M. (1990). Architects explore the final frontier. Environmental Design Research Association 21st Annual Conference, Urbana-Champaign, Illinois, April.

Baschiera, D.J., Fieber, J.P., Graff, P., Gruenberger, M., Kinde, M.R., Moss, S.E., Moths, J.H., Paruleski, K.L., Schleicher, S.A., & Schroeder, C.W. (1990). *Genesis* lunar outpost: Design project. Environmental Design Research Association 21st Annual Conference, Urbana-Champaign, Illinois, April.

Moths, J.H., Fieber, J.P., Gruenberger, M., & Paruleski, K.L. (1990). *Genesis* lunar outpost. National Aeronautics and Space Administration/Universities Space Research Association Advanced Design Program 6th annual summer conference, NASA Lewis Research Center, Cleveland, Ohio, June.

Moore, G.T. (1990). Environment-behavior issues in extraterrestrial space. 11th biennial conference of the International Association for the Study of People and their Physical Surroundings, Middle East Technical University, Ankara, Turkey, July.

Moore, G.T. (1991). Space architecture. College of Architecture, Georgia Institute of Technology, Atlanta, February.

Fieber, J.P., & Paruleski, K.L. (1991). *Genesis* lunar outpost: 1990 USRA project. Wisconsin Young Astronauts Aviation and Space Conference, Brookfield, Wisconsin, March.

Fieber, J.P., Moths, J.H., & Paruleski, K.L. (1991). *Genesis* advanced lunar outpost II: A progress report. National Space Society 10th Annual International Space Development Conference, San Antonio, Texas, May.

Gorski, G.S., Kishony, D., Maner, S., Rebholz, P., & Schroeder, C.W. (1991). *Genesis II:* Advanced lunar outpost. National Aeronautics and Space Administration/Universities Space Research Association Advanced Design Program 7th Annual Summer Conference, NASA Kennedy Space Center, Florida, June.

Fieber, J.P., & Rebholz, P.J. (1991). History of the Advanced Design Program in space architecture. Milwaukee Lunar Reclamation Society, Milwaukee, Wisconsin, November.

Moore, G.T., & Huebner-Moths, J. (1991). *Genesis* advanced lunar outpost II: Human factors design response. International Design for Extreme Environments Assembly, Houston, Texas, November.

Moore, G.T., & Rebholz, P.J., (1992). Aerospace architecture: Five proposals for lunar habitats. American Institute of Aeronautics and Astronautics Aerospace Design Conference, Irvine, California, February.

Moore, G.T. (1992). The genesis of space architecture. Moscow Architectural Institute, Moscow, Russia, February 1992.

Moore, G.T. (1992). Technical seminar on aerospace architecture. Moscow Architectural Institute, Moscow, Russia, February 1992.

Huebner-Moths, J., Paruleski, K.L., & Rebholz, P.J. (1992). Extraterrestrial space architecture: Two proposals for lunar and Martian habitats. Environmental Design Research Association 23rd Annual Conference, Boulder, Colorado, April.

Moore, G.T., Huebner-Moths, J., & Rebholz, P.J. (1992). The Wisconsin Space Grant Program: Aerospace architecture. Lynde Bradley Science Group, Allen-Bradley, A Rockwell International Company, Milwaukee, April.

Moore, G.T., Huebner-Moths, J., Rebholz, P.J., Fieber, J.P., & Paruleski, K.L. (1992). Lunar base requirements for human habitability. American Society of Civil Engineers Space 92 Conference, Denver, Colorado, May.

Huebner-Moths, J., Rebholz, P.J., Fieber, J.P., & Moore, G.T. (1992). *PAX* Martian permanent base: Human factors and environment-behavior considerations. American Society of Civil Engineers Space 92 Conference, Denver, Colorado, May.

Moore, G.T. (1992). Universcape: Extraterrestrial habitats. Invited Keynote Talk, International Association for People-Environment Studies, Thessaloniki, Greece, July.

Exhibits

Genesis: Space architecture (1990). Exhibit at the 1990 Aviation and Aerospace Conference, Brookfield and Waukesha, Wisconsin, March.

Space architecture: Laboratory and habitation modules for the moon (1990). Exhibit at the Environmental Design Research Association 21st Annual Conference, Urbana-Champaign, Illinois, April.

Genesis Lunar Outpost (1990). Exhibit at the National Aeronautics and Space Administration/Universities Space Research Association Advanced Design Program 6th Annual Summer Conference, NASA/Lewis Research Center, Cleveland, Ohio, June.

Genesis II Advanced Lunar Outpost (1991). Exhibit at the National Aeronautics and Space Administration/Universities Space Research Association Advanced Design Program 7th Annual Summer Conference, NASA/Kennedy Space Center, Cocoa Beach, Florida, June.

Genesis I Lunar Outpost and *Genesis II* Advanced Lunar Outpost (1991). Exhibit at the Wisconsin Space Grant Consortium Annual Seminar, Regents' Conference Facility, University of Wisconsin System, Madison, July.

Genesis II Advanced Lunar Outpost (1991). Exhibit After Friday Afternoon Live, School of Architecture and Urban Planning, University of Wisconsin-Milwaukee, October.

Genesis II Advanced Lunar Outpost (1992). Exhibit at North Division High School's African-American Aviation and Aerospace Career Days, North Division High School, Milwaukee, February.

Genesis II Advanced Lunar Outpost (1992). Exhibit at Gateway to Science and Technology Exposition, University of Wisconsin-Milwaukee's Student Union, Milwaukee, February.

Extraterrestrial space architecture: Two proposals for lunar and Martian habitats (1992). Environmental Design Research Association 23rd Annual Conference, Boulder, Colorado, April.

Aerospace Architecture: The UW-Milwaukee Advanced Design Program in Space Architecture (1992-ongoing). Permanent exhibit, Space-Place, University of Wisconsin-Madison, Madison, Wisconsin.

Aerospace Architecture: The UW-Milwaukee Advanced Design Program in Space Architecture (1992). Exhibit at the Wisconsin Space Grant Consortium Wisconsin Space Conference, Experimental Aircraft Association Conference Facility, Oshkosh, Wisconsin, August.