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BIBLIOGRAPHY OF EXTRATERRESTRIAL RESEARCH

by

Robert W. Henny
Lt USAF

June 1963

TECHNICAL DOCUMENTARY REPORT NO. AFWL-RTD-TDR-63-3025

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Air Force Systems Command
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FOREWORD

Although there are a number of bibliographies on extraterrestrial research in existence, most are limited in scope either by being slanted toward a specific area of interest or restricted to research occurring during a particular time period. The purpose of this bibliography is to provide a reference source on all extraterrestrial research pertinent to planetary exploration, scientific investigation, and base construction, and to include all known references in these and related subject areas. (Categories II, V, IX, XI, and XIII, however, include only those articles of a general or summary nature.)

To handle such a momentous task, all the listings are punched on IBM cards and are then automatically categorized, alphabetized, and printed, utilizing AFSWC's CDC 1604 Digital Computer. It is intended that this first edition provide a foundation for succeeding editions. This edition is therefore a preliminary compilation of references; it is neither complete nor specialized for any of the categories or for any particular time interval.

This bibliography contains no government contract reports; however, a classified bibliography containing such entries is now in the compilation stage, while unclassified contract reports will be included in the next edition. Further, it will be noted that no single entry appears in more than one category; this will be partially modified in the next edition.

Entries in each category are alphabetized and cross-indexed. Where more than one article appears for any one author, such are listed in order of dates published. Astia Document numbers are indicated by prefixing the letters "AD".

The author wishes to gratefully acknowledge the assistance of Betty Lou Cantrall for the many tedious hours spent in typing the final mats.
ABSTRACT

This bibliography on extraterrestrial research is subdivided into the following categories: Astrobiology; Astronomy and Cosmology; Cratering Phenomena; Extraterrestrial Matter; Materials; Meteoritic Cratering; Moon (Atlases & Photography, Configuration, Experimental Research, Exploration and Basing Concepts, Lunar -- Earth Phenomena, Lunar Trajectories, Surface Materials, and Topographical Features); Planets; Power Systems; Space Vehicles & Probes; Tektites; and Vacuum Environmental Simulation. Each category is separately alphabetized and cross-indexed. Where more than one article appears for any one author, such are listed in order of dates published.

PUBLICATION REVIEW

This report has been reviewed and is approved.

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KIRTLAND AFB ORGANIZATIONS

1
AFSWC (SWEH), Kirtland AFB, NM
AFWL, Kirtland AFB, NM

20
(WLRS)

25
(WLL)

OTHER AIR FORCE AGENCIES

Director, USAF Project RAND, via: Air Force Liaison Office, The RAND Corporation, 1700 Main Street, Santa Monica, Calif
1
(RAND Physics Div)
1
(RAND Library)
1
USAF Aerospace Medical Center, Brooks AFB, Tex

ARMY ACTIVITIES

1
Chief of Research and Development, Department of the Army (Special Weapons and Air Defense Division), Wash 25, DC
1
Research Analysis Corp., (Document Control Office), 6935 Arlington Road, Bethesda, Md., Wash 14, DC
1
Chief of Engineers, Department of the Army (ENGMC-EM), Wash 25, DC
1
Director, Army Research Office, Arlington Hall Sta, Arlington, Va
1
Director, US Army Waterways Experiment Sta (WESRL), P.O. Box 60, Vicksburg, Miss
1
Director, US Army Engineer Research & Development Laboratories, (Tech Document Center), Ft Belvoir, Va

NAVY ACTIVITIES

1
Chief of Naval Research, Department of the Navy, Wash 25, DC
1
Commanding Officer, Naval Research Laboratory, Wash 25, DC
1
Commanding Officer and Director, Naval Civil Engineering Laboratory, Port Hueneme, Calif
1
Commander, Naval Air Missile Test Center, Point Mugu, Calif
1
Commander, Naval Ordnance Laboratory (Dr. Rudlin), White Oak, Silver Spring, Md
1
US Naval Weapons Evaluation Facility (NWEF) (Code 404), Kirtland AFB, NM
1
Office of Naval Research, Wash 25, DC
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<td>Chief, Defense Atomic Support Agency (Document Library), Wash 25, DC</td>
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<td>Commander, Field Command, Defense Atomic Support Agency (FCAG3, Special Weapons Publication Distribution), Sandia Base, NM</td>
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<td>Director, Advanced Research Projects Agency, Department of Defense, The Pentagon, Wash 25, DC</td>
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<td>Director, Defense Research &amp; Engineering, The Pentagon, Wash 25, DC</td>
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<td>Hq Defense Documentation Center for Scientific and Technical Information (DDC), Arlington Hall Sta, Arlington 12, Va</td>
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AEC ACTIVITIES

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<td>Sandia Corporation (Technical Library), P.O. Box 969, Livermore, Calif</td>
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<td>University of California Lawrence Radiation Laboratory (Technical Inf Div), P.O. Box 808, Livermore, Calif</td>
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<td>University of California Lawrence Radiation Laboratory, (Technical Info Div, ATTN: Dr. R. K. Wakerling), Berkeley 4, Calif</td>
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<td>Director, Los Alamos Scientific Laboratory (Helen Redman, Report Library), P.O. Box 1663, Los Alamos, NM</td>
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<td>Brookhaven National Laboratory, Upton, Long Island, NY</td>
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<td>Argonne National Laboratory (Tech Library), Argonne, Ill</td>
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<td>Administrator, National Aeronautics and Space Administration, 400 Maryland Ave., SW, Wash 25, DC</td>
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<td>Space Technology Labs, Inc., ATTN: Information Center, Document Procurement, P.O. Box 95001, Los Angeles 45, Calif</td>
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<td>Battelle Memorial Institute, 505 King Avenue, Columbus, Ohio</td>
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<td>University of Illinois, Talbot Laboratory, Room 207, Urbana, Ill</td>
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<td>1</td>
<td>Massachusetts Institute of Technology, Division of Industrial Cooperation, 77 Massachusetts Avenue, Cambridge, Mass</td>
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<td>University of Massachusetts, Civil Engineering Dept (Head of Civil Engineering Dept), Amherst, Mass</td>
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<td>1</td>
<td>The University of Michigan, University Research Security Office, Lobby 1, East Engineering Bldg., Ann Arbor, Mich</td>
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<td>Institute of the Aerospace Sciences, Inc., 2 East 64th Street, New York 21, NY</td>
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<td>Convair, A Division of General Dynamics Corporation, P.O. Box 1950, San Diego 12, Calif</td>
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<td>General Electric Company - MSD, ATTN: Dr. F. A. Lucy, P.O. Box 8555, Philadelphia 1, Pa</td>
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<td>Aerospace Corporation, P.O. Box 95085, Los Angeles 45, Calif</td>
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<td>Armour Research Foundation, ATTN: Dr. Vey, So. Dearborn Street, Chicago 15, Ill</td>
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<td>University of Notre Dame, Dept. of Civil Engineering, ATTN: Dr. H. Saxe, South Bend, Ind</td>
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<td>Michigan State University, Dept. of Geology, ATTN: Dr. Hinze, East Lansing, Mich</td>
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<td>Bendix Systems Division, ATTN: Mr. W. Dobar, Ann Arbor, Mich</td>
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<td>(Capt S. T. Johnson, Dept. of Civil Engineering)</td>
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<td>(Professor A. P. Boresi, Dept. of Theoretical and Applied Mechanics)</td>
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<td>North Carolina State College, School of Engineering, ATTN: Dean Ralph Fadum, Raleigh, NC</td>
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<td>Portland Cement Association, Research and Development Laboratories, ATTN: Mr. Eivind Hognestad, Manager, Structural Development Section, 5420 Old Orchard Road, Skokie, Ill</td>
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<td>Agbabian-Jacobsen &amp; Associates, ATTN: Dr. Lydik S. Jacobsen, 8939 South Sepulveda Blvd., Los Angeles 45, Calif</td>
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<td>1</td>
<td>Michigan College of Mining and Technology, ATTN: Professor Frank Kerekes, Dean of the Faculty, Houghton, Mich</td>
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<td>1</td>
<td>St. Louis University, Institute of Technology, Dept. of Geophysics and Geophysical Engineering, ATTN: Professor Carl Kisslinger, 3621 Olive Street, St. Louis 8, Mo</td>
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<td>University of Michigan, School of Civil Engineering, ATTN: Professor Frank E. Richart, Jr., Ann Arbor, Mich</td>
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<td>Massachusetts Institute of Technology, Dept. of Civil Engineering, ATTN: Professor Robert V. Whitman, Cambridge 39, Mass</td>
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<td>University of New Mexico, School of Civil Engineering, ATTN: Professor George A. Young, Albuquerque, NM</td>
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This bibliography on extraterrestrial research is subdivided into the following categories:

- Astrobiology; Astronomy and Cosmology; Cratering Phenomena; Extraterrestrial Matter; Materials; Meteoritic Cratering; Moon (Atlases & Photography Configuration, Experimental Research, Exploration and Basing Concepts, Lunar -- Earth Phenomena, Lunar Trajectories, Surface Materials, and Topographical Features); Planets; Power Systems; Space Vehicles & Probes; Textiles; and Vacuum Environmental Simulation. Each category is separately alphabetized and cross-indexed. Where more than one article appears for any one author,
such are listed in order of dates published.

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