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Publications of LASL Research
1967 - 1971

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scientific laboratory
of the University of California
LOS ALAMOS, NEW MEXICO 87544

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Compiled by

Alison K. Kerr

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INTRODUCTION

The Los Alamos Scientific Laboratory (LASL), which is operated for the Atomic Energy Commission by the University of California, was founded in 1943 at the site of the Los Alamos Ranch School, a boys' preparatory school in the mountains of Northern New Mexico, as part of the wartime Manhattan Project. It had a single assignment—to create the world's first nuclear fission bombs. Success in that task, one of the greatest scientific and technological achievements of all time, was followed by equal success in developing the first thermonuclear weapons. Since 1952 the Laboratory has diversified its programs, and while still serving as one of the nation's two development centers for nuclear weapons, LASL now devotes about one half of its total effort to unclassified research exploring several peaceful applications of nuclear energy. The various LASL weapons and non-weapons programs are supported by extensive fundamental research in physics, mathematics, chemistry, metallurgy, biology, medicine, and other fields.

Major non-weapons research activities at Los Alamos include medium-energy physics, controlled thermonuclear reactions, low- and intermediate energy nuclear physics, cellular and molecular biology, laser research and applications, and work on nuclear safeguards and on energy-related matters. The nuclear rocket propulsion work, Project Rover, Category 31, has been terminated (early 1973).

The Los Alamos Meson Physics Facility (renamed in 1972 the Clinton P. Anderson Meson Physics Facility) is centered around an 800-MeV, 1-mA-beam, linear accelerator that produces beams of protons, mesons, and other nuclear particles with intensities up to 10,000 times greater than those available from present machines. Scyllac, an \$8.5-million toroidal theta-pinch device 25 meters in circumference, is under construction. A 5-meter linear device has been built and tested; it is now being converted into the full-scale toroidal device, for producing thermonuclear reactions in deuterium.

Other experimental and test facilities at LASL, many of which are unique, include nuclear reactors, particle accelerators, and a large number of specialized laboratories. Examples are a 25-MeV, 3-stage Van de Graaff particle accelerator; a 27-MeV electron accelerator used to produce a very intense, very short burst of x rays for high-speed radiography; and a computing center consisting of three CDC-6600's, two CDC-7600's, and the locally designed and built MANIAC II.

LASL, as of 1971, employed about 4300 people. Over a third of the total staff are scientists and engineers. The total operating costs—excluding construction—of the Laboratory are about \$100 million per year. The value of AEC-owned buildings and equipment at Los Alamos is more than \$320 million.

PREFACE

The Libraries' continuing program of locating, recording, and announcing publications of LASL-sponsored research has resulted in the previous publications: "Selected Bibliography of Publications of LASL Research, 1957-1962," (LAMS-2895 and supplement), and "Publications of LASL Research," for each of the years 1963 through 1970. This bibliography is a compilation of unclassified publications of work done at the Los Alamos Scientific Laboratory for the years 1967 through 1971. Papers published in those years are included regardless of when they were actually written. Publications received too late for inclusion in earlier compilations have also been listed. Declassification of previously classified reports is considered to constitute publication. All classified issuances are omitted—even those papers, themselves unclassified, which were published only as part of a classified document. If a paper was published more than once, all places of publication are included.

The bibliography includes Los Alamos Scientific Laboratory reports, papers released as non-Los Alamos reports, journal articles, books, chapters of books, conference papers whether published separately or as part of conference proceedings issued as books or reports, papers published in congressional hearings, theses, and U. S. patents. Publications by LASL authors which are not records of Laboratory-sponsored work are included when the Library becomes aware of them. These publications are indicated by three asterisks following the author's name in place of a group designation.

The arrangement in each bibliographical citation is title first, place(s) of publication indented, then authors, further indented. The *Chemical Abstracts* abbreviation is used for journal citations except for the capitalization. The group designations given after the authors' names indicate the groups with which the authors were associated at the time the papers were written. The asterisks at the end of LA-DC-entries indicate that the LASL Librarian ordered reprints of the papers. Parenthetical information includes report and reprint numbers, book call numbers, and patent numbers. The parentheses indicate the information by which Los Alamos borrowers may obtain the material from the LASL Libraries.

arrangement of the item within the section. In the numerical index, the LA- and LA-xxxx-MS numbers of formal reports are interfiled. An appendix gives a tabulation of the entries by type of publication.

There is a Keyword-in-Context index, plus a list of words not included in that index.

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Reprints of journal articles whose citations are followed by a report number and an asterisk are available as long as the supply lasts from the first author listed. Address requests to him at

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University of California
Post Office Box 1663
Los Alamos, New Mexico 87544.

This bibliography has been prepared by the LASL Library Services Group, ISD-4, from the records of the Technical Information Group, ISD-6, from abstracting and indexing journals, and from supplementary library files. Inquiries regarding any of the materials included should be directed to the Serials Unit of the LASL Libraries.

The entries are arranged in sections by broad subject categories. Within each section they are alphabetical by title. All types of publications are interfiled.

The author and numerical indexes refer to the item numbers, which consist of a number designating the section, followed by a dash and a number for the alphabetic

The Libraries gratefully acknowledge the assistance of members of LASL's Technical Information Group in assigning subject categories, and of members of the Computer Division for assistance with the computerized system for handling publication information.

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2. AEROSPACE STUDIES

2-1

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LASL, 1967. 32P. (LA-3754)

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1965 ARPA-AEC JOINT LIGHTNING STUDY AT LOS ALAMOS. VOLUME II. THE LIGHTNING SPECTRUM AS MEASURED BY COLLIMATED DETECTORS. ATMOSPHERIC TRANSMISSION. SPECTRAL INTENSITY RADIATED.

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ALSO PUBLISHED AS:

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(AD-665,141)

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LASL, 1969. 26P. (LA-3757)

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2-5

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LASL, 1969. 11P. (LA-3929)

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LASL, 1969. 27P. (LA-4032)

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(LA-DC-10557)*

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2-9

ANGULAR DISTRIBUTIONS OF ENERGETIC ELECTRONS IN THE EARTH'S GEOMAGNETIC TAIL AT 18 EARTH RADII.

ABSTRACT PUBLISHED IN:

TRANS. AM. GEOPHYS. UNION, V.48, P.161.

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CONNER, JERRY P. (P-4)

STOGSDILL, ELDON E. (P-4)

2-10

ANISOTROPIC ATOMIC HYDROGEN DISTRIBUTION IN INTERPLANETARY SPACE.

NATURE, V.225, P.713-4. 1970.

(LA-DC-11030)*

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KUNZ, WALTER E. (W-7)

2-11

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PARTICLES AND FIELDS IN THE MAGNETOSPHERE. 1969. SYMPOSIUM, SANTA BARBARA, CALIFORNIA. PROCEEDINGS, P.122-31.

REIDEL, 1970. (551:P274F)

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ABSTRACT PUBLISHED IN:

EOS, V.52, P.906. 1971.

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2-13

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DTIE, 1971. 14P. MN (LA-DC-12515)
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- 2-20
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BULL. AM. PHYS. SOC., SER.2, V.16,
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26. NUCLEAR SAFEGUARDS

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A	BORNE	DEVELOPMENTAL	HANDLED
ABOUT	BOTH	DEVELOPMENTS	HARD
ABOVE	BRIEF	DIFFERENT	HAS
ABSENCE	BY	DIFFICULTIES	HAVE
ACCELERATED	CA	DIRECTLY	HAVING
ACCELERATING	CALIBRATED	DISCERNIBLE	HEATED
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ACCOMPLISH	CANNOT	DO	HIGHLY
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ACHIEVEMENT	CARRIED	DUE	HOWEVER
ACHIEVING	CAUSED	DURING	I
ACROSS	CENT	EACH	IDENTIFIABLE
ACTUAL	CERTAIN	EARLY	IDENTIFICATION
ACTUALLY	CHARACTERISTICS	ED	IDENTIFIED
AD	CIRCUMSTANCES	EITHER	IDENTIFY
ADDITIONAL	CLASSIFIED	ELABORATION	IF
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ADVANCED	CLOSE	ENDED	III
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AFFECTING	CLOSER	EQUAL	IMPLY
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AGAINST	COMPLETE	EQUIVALENT	IMPORTANCE
AIRES	COMPLETED	ESTABLISHED	IMPORTANT
ALAMOS	CONCERNED	ETC.	IMPROVED
ALL	CONCERNING	EVALUATE	IMPROVES
ALLIED	CONDITION	EVALUATED	IMPROVING
ALMOST	CONDITIONS	EVALUATING	IN
ALSO	CONDUCTING	EVALUATION	INCHES
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AMONG	CONSIDERATION	EXAMPLE	INCLUDED
AMOUNT	CONSIDERED	EXCEPT	INCLUDES
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AND	CONTAIN	EXISTING	INDICATED
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ANY	CONTEMPLATED	FACT	INDIRECTLY
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APPLICATION	COVERED	FACTORS	INTENDED
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BE	DETERMINATIONS	GAVE	KELVIN
BECAUSE	DETERMINED	GENERAL	KNOWN
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ACCELERATING THE TURNOVER OF INTERNALLY DEPOSITED RADIOCESIUM.

6-2

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