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**Publications of LASL Research
1972**

**los alamos
scientific laboratory**

of the University of California

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Publications of LASL Research

1972

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 thermo-nuclear 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: a newly formed Energy Division to look especially into new technology to bring to both old energy activities and new energy sources such as solar and geothermal; the Laboratory's involvement, as one of the major participants, in Project Sherwood, the AEC's program of research in the control of thermonuclear reactions; a new accelerator facility, called LAMPF, for medium-energy nuclear physics research; low-energy and

intermediate-energy nuclear physics research using a variety of particle accelerators and neutron sources including underground nuclear explosions; and a program of medical and biological effects of radiation and basic work in molecular and cellular biology. Besides LAMPF, the experimental and test facilities of 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 flash radiography; and a computing center consisting of three CDC 6600's, two 7600's, and the locally designed and built MANIAC II.

LAMPF is a \$55-million, 800-MeV, 1-mA-beam linear accelerator to be used to produce beams of protons, mesons, and other nuclear particles with intensities up to 10,000 times greater than those available from present machines. Also under construction is Scyllac, an \$8.5-million toroidal theta-pinch device 15 meters in circumference, for producing thermonuclear reactions in deuterium plasmas.

LASL, as of 1972, employed about 4,000 people. About one 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 the AEC-owned buildings and equipment at Los Alamos is more than \$275 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 1971. This bibliography lists unclassified 1972 publications of work done at the Los Alamos Scientific Laboratory and those earlier publications that were received too late for inclusion in earlier compilations. Papers published in 1972 are included regardless of when they were actually written. 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 Libraries 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.

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 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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Los Alamos, New Mexico 87544

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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.

1. AEROSPACE STUDIES

1-1
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ARCTIC ATMOSPHERE. FINAL REPORT FOR
FEBRUARY 1971 TO FEBRUARY 1972.

LASL, 1972. 44P. (LA-4877-PR)
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GUTHALS, PAUL R. (CNC-11)
WOLCOTT, JOHN H. (J-16)

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NIELSEN, HANS C. S.
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ABSTRACT PUBLISHED IN:
EOS, V.53, P.470. 1972.
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1-4
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ATMOSPHERES.

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(LA-DC-13371)*

COLLINS, DAVID G.
BLATTNER, WOLFRAM G.
WELLS, MICHAEL B.
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1-5
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WIND PLASMA.

REV. GEOPHYS. SPACE PHYS., V.8,
P.729-811. 1970. (LA-DC-11068)*

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SOLAR TERRESTRIAL PHYSICS. 1970.
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HUNDHAUSEN, ARTHUR J. (T-12)

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J. GEOPHYS. RES., V.77, P.5542-54.
1972.

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1-7
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1-8
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PLANETARY SPACE SCI., V.20, P.1909-14.
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DTIE, 1972. 26P. MN (LA-DC-12711)

ALSO PUBLISHED IN:

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1-30

SUBSTORM PHENOMENA IN THE DISTANT MAGNETOSPHERE.

DTIE, 1972. 28P. MN (LA-DC-72-1165)

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ABSTRACT PUBLISHED IN:

EOS, V.53, P.493. 1972.

REASONER, DAVID L.

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J. GEOPHYS. RES., V.77, P.2982-6. 1972.

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1-34

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J. GEOPHYS. RES., V.77, P.6665-70.

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FEHLAU, PAUL E. (A-2)

CHAMBERS, WILLIAM H. (A-2)

KUNZ, WALTER E. (A-2)

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1-36

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J. GEOPHYS. RES., V.77, P.3583-8. 1972.

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EOS, V.53, P.504. 1972.

HIRSHBERG, JOAN

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ROBBINS, DONALD E.

2. ANALYTICAL TECHNOLOGY

2-1

ACOUSTIC EMISSION TESTING PROGRAM:
PROGRESS REPORT ON TENSILE TESTING
THROUGH OCTOBER 1970.

LASL, 1972. 39P. (LA-4724-MS)

SCHUYLER, DONALD R., II (GMX-1)
FEIERTAG, THOMAS H. (GMX-1)

2-2

ADVANCED CHARACTERIZATION OF (URANIUM,
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FUEL PIN IRRADIATION TESTS.

ABSTRACT PUBLISHED IN:

BULL. AM. CERAM. SOC., V.51, P.393.
1972.

FRENCH, P. M.
JACOBY, W. R.
SHALEK, P. D.
JOHNSON, KAYE ALLAN (CMB-11)

2-3

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SPECTROMETRY FOR THE MEASUREMENT OF THE
ISOTOPIC DISTRIBUTIONS OF URANIUM AND
PLUTONIUM AND APPLICATION TO NUCLEAR FUEL
BURN-UP.

ANALYTICAL CHEMISTRY OF NUCLEAR FUELS.
1970. PANEL MEETING, VIENNA. PROC.,

P.135-42. IAEA, 1972. (626:A532C)

REIN, JAMES E. (CMB-1)

METZ, CHARLES F. (CMB-1)

2-4

ANALYSIS OF NUCLEAR FUELS. A REVIEW.

DTIE, 1972. 28P. MN (LA-DC-12804)

ALSO PUBLISHED IN:

ANALYTICAL METHODS IN THE NUCLEAR FUEL
CYCLE. 1971. SYMPOSIUM, VIENNA. PROC.,
P.155-74. IAEA, 1972. (IAEA-SM-149/32)
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METZ, CHARLES F. (CMB-1)

WATERBURY, GLENN R. (CMB-1)

2-5

ANALYTICAL METHODS FOR FISSIONABLE
MATERIALS IN THE NUCLEAR FUEL CYCLE.
PROGRAM STATUS REPORT JUNE 1971 TO JUNE
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WATERBURY, GLENN R. (CMB-1) COMP.

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APPLICATION OF ISOTOPE DILUTION MASS
SPECTROMETRY TO THE DETERMINATION OF
URANIUM AND PLUTONIUM IN NUCLEAR FUELS.
ANALYTICAL CHEMISTRY OF NUCLEAR FUELS.

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P.97-109. IAEA, 1972. (626:532C)

REIN, JAMES E. (CMB-1)

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2-7

APPLICATION OF PRECISE METHODS IN
DETERMINING PLUTONIUM AND URANIUM IN
UNIRRADIATED SINTERED MIXED OXIDE NUCLEAR
FUEL.

ANALYTICAL CHEMISTRY OF NUCLEAR FUELS.

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P.85-90. IAEA, 1972. (626:A532C)

METZ, CHARLES F. (CMB-1)

WATERBURY, GLENN R. (CMB-1)

2-8

CURRENT STATUS OF THE ANALYSIS OF THE
OPTICAL SPECTRA OF URANIUM.

RESEARCH ON URANIUM PLASMAS AND THEIR
TECHNOLOGICAL APPLICATIONS. 1970.

SYMPOSIUM, GAINESVILLE, FL. PROC.,

P.151-63. NASA, 1971. (NASA SP-236)

ABSTRACT PUBLISHED IN:

RESEARCH ON URANIUM PLASMAS AND THEIR
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STEINHAUS, DAVID W. (CMB-1)

RADZIEMSKI, LEON J., JR. (CMB-1)

COWAN, ROBERT D. (T-DOT)

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DETERMINATION OF NON-METALLIC
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OXIDE REACTOR FUEL.

DTIE, 1972. 18P. MN (LA-DC-12805)

ALSO PUBLISHED IN:

ANALYTICAL METHODS IN THE NUCLEAR FUEL
CYCLE. 1971. SYMPOSIUM, VIENNA. PROC.,

P.395-407. IAEA, 1972. (IAEA-SM-149/34)

(626:A532M)

METZ, CHARLES F. (CMB-1)

WATERBURY, GLENN R. (CMB-1)

2-10

DETERMINATION OF NUCLEAR FUEL BURN-UP
BASED ON ISOTOPE DILUTION MASS
SPECTROMETRIC MEASUREMENTS.

ANALYTICAL CHEMISTRY OF NUCLEAR FUELS.

1970. PANEL MEETING, VIENNA. PROC.,

P.143-55. IAEA, 1972. (626:A532C)

REIN, JAMES E. (CMB-1)

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2-11

DETERMINATION OF OXYGEN -18/OXYGEN -16
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IN OXYGEN -16.

LASL, 1972. 9P. (LA-4849)

MAC DOUGALL, CAROLYN SUE (CMB-1)

SMITH, MAYNARD E. (CMB-1)

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- 2-12
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REACTOR FUELS AND CLADDING MATERIALS.
LASL, 1972. 8P. (LA-4971)
MAC DOUGALL, CAROLYN SUE (CMB-1)
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ELEMENTAL ANALYSIS OF BIOLOGICAL SAMPLES.
ABSTRACT PUBLISHED IN:
BULL. AM. PHYS. SOC., SER.2, V.17,
P.548. 1972.
MALANIFY, JOHN J. (A-1)
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IDENTIFICATION OF 1,2,3- TRIAMINO -2,4,6-
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Chemical Physics Letters - 6
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 Journal of Spacecraft and Rockets - 1
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 Journal of Vacuum Science and Technology - 2
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 Life Sciences and Space Research - 1
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ABOUT	APPLY	CLOSE	DETERMINING
ABOVE	APPLYING	CLOSELY	DEVELOP
ABSENCE	APPROPRIATE	CLOSER	DEVELOPED
ACCELERATED	APPROVED	COMMENT	DEVELOPING
ACCELERATING	ARE	COMPLETE	DEVELOPMENT
ACCOMPANY	ARISING	COMPLETED	DEVELOPMENTAL
ACCOMPLISH	ARRANGEMENTS	CONCERNED	DEVELOPMENTS
ACCORDANCE	AS	CONCERNING	DIFFERENT
ACHIEVED	ASSIGNED	CONDITION	DIFFICULTIES
ACHIEVEMENT	ASSOCIATED	CONDITIONS	DIRECTLY
ACHIEVING	ASSOCIATION	CONDUCTING	DISCERNIBLE
ACROSS	AT	CONFIDENTIAL	DISCLOSED
ACTUAL	AUTHORIZED	CONSIDERATION	DO
ACTUALLY	BASED	CONSIDERED	DOCUMENTS
AD	BASIS	CONSTITUTE	DOES
ADDITIONAL	BE	CONTAIN	DUE
ADVANCE	BECAUSE	CONTAINED	DURING
ADVANCED	BEEN	CONTAINING	EACH
AFFECT	BEING	CONTEMPLATED	EARLY
AFFECTING	BELOW	CONTEXT	ED
AFTER	BETWEEN	COVERED	EITHER
AGAINST	BEYOND	DAY TO DAY	ELABORATION
AIRES	BORNE	DAYS	EMPHASIS
ALAMOS	BOTH	DE	ENDED
ALL	BRIEF	DECLASSIFICATION	ENDING
ALLIED	BY	DECLASSIFIED	EQUAL
ALMOST	CA	DEDUCIBLE	EQUALS
ALSO	CALIBRATED	DEFINED	EQUIVALENT
ALTERNATE	CAN	DEGREE	ESTABLISHED
AMONG	CANNOT	DEGREES	ETC.
AMOUNT	CAPABILITY	DESCRIBED	EVALUATE
AN	CARLO	DESCRIPTION	EVALUATED
AND	CARRIED	DESCRIPTIVE	EVALUATING
ANOTHER	CAUSED	DESIGNED	EVALUATION
ANTICIPATED	CENT	DESIRED	EVEN
ANY	CERTAIN	DETAILED	EXAMPLE
APPLICABLE	CHARACTERISTICS	DETAILS	EXCEPT
APPLICATION	CIRCUMSTANCES	DETERMINATION	EXISTENCE
APPLICATIONS	CLASSIFIED	DETERMINATIONS	EXISTING
			EXPECTED

EXPECTED	IMPROVED	MEANS	OVERALL
EXPLICITLY	IMPROVES	MEASURES	OVERRIDE
FACT	IMPROVING	MEET	PAPERS
FACTOR	IN	MEETING	PARALLEL
FACTORS	INCHES	MENTION	PART
FALLS	INCLUDE	MENTIONED	PARTIALLY
FAR	INCLUDED	MERE	PARTICIPATING
FEATURE	INCLUDES	MIGHT	PARTICIPATION
FEATURES	INCLUDING	MILES	PARTICULAR
FEET	INDICATED	MILLION	PARTICULARLY
FOLLOWED	INDICATES	MINUTE	PARTS
FOLLOWING	INDICATING	MISCELLANEOUS	PAST
FOLLOWS	INDIRECTLY	MODERN	PER
FOR	INDIVIDUAL	MORE	PERCENT
FOUR	INTENDED	MOVING	PLACE
FOURTH	INTEREST	MUST	PLANNED
FRD	INTERESTED	NAMELY	PLANNING
FROM	INTERIM	NATURE	PLUS
FURTHER	INTO	NEAR	POOR
FY	INTRODUCED	NEAREST	POSSIBLE
GATHER	INVESTIGATION	NEARLY	POUNDS
GATHERING	INVESTIGATIONS	NECESSARY	PPM
GAVE	INVOLVED	NEEDED	PRACTICAL
GENERAL	INVOLVING	NM	PRECISE
GIVE	IS	NO	PREDICTED
GIVES	ISSUED	NORMALLY	PRELIMINARY
GOOD	IT	NOT	PREPARED
GRAAFF	ITEM	NOTE	PRESENCE
GREATER	ITEMS	NOTED	PRESENT
HANDLED	ITS	NOTICE	PRIOR
HARD	IV	NOVEL	PROBLEMS
HAS	IX	NOW	PROVIDE
HAVE	JUDGMENT	NV	PROVIDED
HAVING	KELVIN	OBSERVATION	PROVIDING
HEATED	KNOWN	OBSERVED	PURPOSE
HELD	LARGE	OBTAINED	PURPOSES
HIGHLY	LAST	OCCURRED	REASON
HOC	LATE	OCCURRENCE	RECENT
HOT	LATER	OF	REFER
HOWEVER	LESS	OFFERED	REFERS
I	LIKE	OFFICERS	REGARDING
IDENTIFIABLE	LISTED	OFFICIAL	RELATED
IDENTIFICATION	LOCAL	OFTEN	RELATING
IDENTIFIED	LOCALIZED	ON	RELATIONSHIP
IDENTIFY	LOOSE	ONLY	REQUIRE
IF	LOOSELY	OR	REQUIRED
II	LOT	ORGANIZATION	REQUIREMENT
III	MADE	ORGANIZATIONS	REQUIREMENTS
IL	MAINTAIN	OTHER	RESOLVE
IMPLY	MAINTAINED	OTHERWISE	RESULTING
IMPLYING	MAINTAINING	OUT	RESULTS
IMPORTANCE	MAKES	OUTSIDE	REVEAL
IMPORTANT	MAKING	OVER	REVEALED

REVEALING	THIS
REVEALS	THOSE
REVISED	THREE
SAME	THROUGH
SATISFACTORY	TO
SECRET	TOPIC
SECTION	TOPICS
SECTIONS	TRANS-1
SEE	TWELVE
SEEN	TYPE
SELECTED	TYPES
SHOULD	UNCLASSIFIED
SIMILAR	UNDER
SIMILARITY	UNLESS
SIMPLE	UP
SIMULTANEOUS	USE
SIX	USED
SIXTEEN	USEFUL
SLOW	USING
SLOWLY	V
SO	VARIOUS
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TERA	WHETHER
TERM	WHICH
TERMS	WHOSE
THAN	WHY
THAT	WILL
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THEIR	WITHIN
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