

Lawrence Berkeley National Laboratory

Recent Work

Title

LIST OF UNCLASSIFIED REPORTS RECEIVED AND ISSUED IN THE UCRL INFORMATION DIVISION DURING THE PERIOD OF AUGUST 16-31, 1955

Permalink

<https://escholarship.org/uc/item/39z1x43s>

Author

Lawrence Berkeley National Laboratory

Publication Date

1955-09-23

UNIVERSITY OF
CALIFORNIA

*Radiation
Laboratory*

TWO-WEEK LOAN COPY

*This is a Library Circulating Copy
which may be borrowed for two weeks.
For a personal retention copy, call
Tech. Info. Division, Ext. 5545*

BERKELEY, CALIFORNIA

DISCLAIMER

This document was prepared as an account of work sponsored by the United States Government. While this document is believed to contain correct information, neither the United States Government nor any agency thereof, nor the Regents of the University of California, nor any of their employees, makes any warranty, express or implied, or assumes any legal responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by its trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof, or the Regents of the University of California. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof or the Regents of the University of California.

0

UCRL-3134
Internal Distribution

UNIVERSITY OF CALIFORNIA

Radiation Laboratory
Berkeley, California

Contract No. W-7405-eng-48

LIST OF UNCLASSIFIED REPORTS RECEIVED AND ISSUED IN THE UCRL
INFORMATION DIVISION DURING THE PERIOD OF AUGUST 16-31, 1955

September 2, 1955

LIST OF CODES FOR REPORT NUMBERS

ACCO	-American Cyanimid Company
AEP	-Monsanto Chemical Company
ALCO	-American Locomotive Company
AMF	-American Machine & Foundry Co.
ANL	-Argonne National Laboratory
ANP	-Aircraft Nuclear Propulsion Project
APEX	-General Electric Company, ANP Project
BAW	-Babcock & Wilcox
BDX	-Bendix Aviation Corp., Detroit
BMI	-Battelle Memorial Institute
BNL	-Brookhaven National Lab.
BRB	-Bridgeport Brass Company
BSC	-Bethlehem Steel Company
CENP	-Combustion Engineering, Inc.
COO	-Chicago Operations Office
CU	-Columbia University
DCDE	-Atomic Power Development Associates
DLWK	-Duquense Light Co-Walter Kidde
DOW	-Dow Chemical Company
DP	-E.I. duPont de Nemour & Co.
FWE	-Foreign Weapons Effects
GAT	-Goodyear Atomic Corporation
GEAP	-General Electric Company
GEL	-General Electric Co., General Engineering Laboratory
HEC	-Hooker Electrochemical Co.
HO	-Hanford Operations Office
HW	-Hanford Works, Richland
IDO	-Idaho Operations Office
ISC	-Iowa State College
K	-Carbide and Carbon Chemicals Co. (K-25 Plant)
KAPL	-Knolls Atomic Power Laboratory
KLX	-The Vitro Corporation of America
KLXS	-Vitro Corporation of America (Study Group)
KY	-Carbide and Carbon Chemicals Co. (C-31 Plant)
LA&LAMS	-Los Alamos Scientific Lab.
MCW	-Mallinckrodt Chemical Works
MIT	-Massachusetts Inst. of Tech.
MLM	-Mound Laboratory
NAA-SR	-North American Aviation, Inc.
NBL	-New Brunswick Laboratory
NBS	-National Bureau of Standards
NEA	-Foster Wheeler-Pioneer Service
NLCO	-National Lead Company of Ohio
NMI	-Nuclear Metals Inc.
NNSD	-Newport News Shipbuilding and Dry Dock Co.
NPG	-Commonwealth Edison Co. (Nuclear Power Group)
NYO	-New York Operations Office
ORINS	-Oak Ridge Institute of Nuclear Studies

ORNL	-Carbide & Carbon Chemicals Co. (ORNL)
ORO	-Oak Ridge Operations Office
PWAC	-Pratt & Whitney Aircraft Division of the United Aircraft Corp.
RFP	-Rocky Flats Plant
RME	-Grand Junction Operations Office
RMO	-Division of Raw Materials
SAN	-San Francisco Operations Office
SC	-Sandia Corporation
SEP	-Sylvania Electric Products, Inc.
SFO	-Santa Fe Operations Office
SRO	-Savannah River Operations Office
SO	-Schenectady Operations Office
TEI(M)	-U. S. Geological Survey Trace Elements Reports
TID	-Technical Information Service
TVA	-Tennessee Valley Authority
UCLA	-University of California Medical Research Laboratory
UCRL	-University of California Radiation Laboratory
UR	-University of Rochester
UWFL	-University of Washington Applied Fisheries Laboratory
WAPD	-Bettis Plant
WASH	-AEC, Washington
WEC	-Westinghouse Electric Company Industrial Atomic Power Group
WIN	-National Lead Co., Inc. Winchester
WT	-Weapon Test Reports
Y	-Carbide and Carbon Chemicals Company (Y-12 Plant)

Many prefixes used for research and development reports cover a number of installations. NP("Non-Project") numbers are assigned by the Technical Information Service at Oak Ridge to those reports which it receives from sources not under contract to the Atomic Energy Commission. The UCRL Information Division gives "Misc" numbers to any others received here that do not bear an identifying number. Many reports are grouped together under numbers corresponding to an AEC division or operations office. Some of these are as follows:

CO, COO	-Chicago Operations Office
IDO	-Idaho Operations Office
NYO, NYOO	-New York Operations Office
ORO	-Oak Ridge Operations Office
RMO	-Raw Materials Division
WASH	-Atomic Energy Commission, Washington

In our semimonthly "List of Reports Received" the originating installation will be placed in the author column whenever the report code number does not indicate a specific laboratory, or is obsolete or not given in this list.

Two series of translations are currently received, one sponsored by the AEC (AEC-tr), the other by the National Science Foundation (NSF-tr).

LIST OF UNCLASSIFIED REPORTS RECEIVED AND ISSUED IN THE UCRL
INFORMATION DIVISION DURING THE PERIOD OF AUGUST 16-31, 1955

Radiation Laboratory, Department of Physics
University of California, Berkeley, California

September 2, 1955

<u>Index Number</u>	<u>Title</u>	<u>Author</u>	<u>Date</u>
<u>BIOSCIENCES</u>			
AECU-3028	Operation of the Fission Products Laboratory - Quarterly Progress Report No. 1 for the Period January 1, 1955, to March 30, 1955	L. E. Brownell J. V. Nehemias J. J. Bolmer Michigan Univ., Ann Arbor	5-55
BNL-344 (T-61)	Area Survey Manual; Area Radiation Detection Instrumentation, Maintenance, and Results	M. M. Weiss	6-15-55
BNL-351 (T-62)	Neutron Monitoring with Indium Foils	F. B. Oleson	7-55
HW-33681	The Uptake of Iodine by Higher Plants	A. A. Selders J. H. Rediske	9-30-54
*OANAR-25-50	Effect of Antibacterial Drugs on Haemophilus Influenza Bacillus; Technical Report	D. H. Moore Office of Naval Research (London)	3-16-50
*OANAR-40-49	Some Recent Biological Investigations at the Pasteur Institute, Paris	D. H. Moore Office of Naval Research (London)	11-21-49
*OANAR-53-49	Biophysical and Biochemical Researches in Some Euro- pean Laboratories	D. H. Moore Office of Naval Research (London)	12-20-49
*Microcards			

UCLA-339	The Metabolism of the Essential Fatty Acids IV. Incorporation of Linoleate into Arachidonic Acid	G. Steinberg W. H. Slaton, Jr. D. R. Howton, et al.	7-18-55
USNRDL-TR-52	Mechanism of Erythrocyte Destruction in the Burned Rat	A. K. Davis E. L. Alpen Naval Radiological Defense Lab., San Francisco	5-24-55

CHEMISTRY

ACCO-64	Process Development Studies for Lukachukai Ores	D. C. McLean	4-18-55
AECU-3052	The Fixation of Nitrogen: The Power Factor	Utah Univ., Salt Lake City Inst. of Rate Processes	3-10-55
ANL-5397	Thermal Neutron Fission Cross Section of Pu ²⁴¹	A. H. Jaffey M. H. Studier P. R. Fields, et al.	3-31-55
BNL-353 (T-63)	LMFR - 12; Estimates of the Solubility and Diffusion Constant of Xenon in Liquid Bismuth	W. G. McMillan	6-55
IDO-14318	Manual of Mass and Emission Spectroscopy Methods Used at the Chemical Processing Plant	W. E. Duffy G. V. Wheeler T. D. Morgan	6-30-55
IDO-14329	Manual of Preparation of Analytical Reagents at the Chemical Processing Plant	M. J. Shepherd, Jr. G. J. Harrison J. E. Rein	7-15-55
ISC-566	Some Isotopic Exchange Reactions of Manganese	J. A. Happe D. S. Martin, Jr.	1-27-55
ISC-620	The Infrared Spectra of Aromatic Compounds. III. The 1045-1185 Cm ⁻¹ Vibration in Monosubstituted Benzenes	R. D. Kross V. A. Fassel	7-7-55

ISC-621	An Infrared Study of Picric Acid Molecular Complexes	R. D. Kross V. A. Fassel	7-13-55
ISC-623	Emission Spectrometer Determination of Low Percentages of Zirconium in Hafnium	L. S. Gray, Jr. V. A. Fassel	7-15-55
ISC-625	The Infrared Spectra of Aromatic Compounds. II. Evidence Concerning the Interaction of π -Electrons and σ -Bond Orbitals in C-H Out-of-Plane Bending Vibrations	R. D. Kross V. A. Fassel M. Margoshes	7-21-55
ISC-633	A Correlation of Bond Length with Stretching Frequency for Carbon-Oxygen and Carbon-Nitrogen Systems	E. M. Layton, Jr. R. D. Kross V. A. Fassel	8-11-55
KAPL-1350	The Uranyl Cupferrates	W. S. Horton	6-10-55
LA-1926 UNM	The Exchange Reaction Between Substituted Benzyl Iodides and Potassium Iodide III. p-Cyanobenzyl Iodide	M. Kahn J. L. Riebsomer New Mexico Univ., Albuquerque	6-55
MISC-1955-125 (Trans)	An Attempt to Detect H^4 Nuclei Among Fission Products of Carbon by 300 Mev Protons. By A. A. Reut, S. M. Korenchenko, V. B. Yur'ev and B. M. Pontecorvo. Akademiia Nauk, SSSR. Doklady <u>102</u> , no. 4, 723-5 (1955)		
MISC-1955-127 (Trans)	Application of Mass Spectrometers with Inhomogeneous Magnetic Field for Determining Atomic Masses. By A. V. Dubrovin and G. V. Balabin, Akademiia Nauk, SSSR. Doklady <u>102</u> , no. 4, pp 719-21 (1955)		
Monograph 2358	Superconductivity and Valence Electrons per Atom	B. T. Matthias Bell Telephone Lab., Inc., New York	1-1-55
Monograph 2377	Some New Intermetallic Compounds with the " β -Wolfram" Structure	S. Geller B. T. Matthias R. Goldstein Bell Telephone Labs., Inc., New York	3-20-55

Monograph 2378	Spectrochemical Procedure of General Applicability	E. K. Jaycox Bell Telephone Labs., Inc., New York	3-55
Monograph 2386	Evaporation of Barium and Strontium	L. A. Wooten A. E. Ruehle G. E. Moore Bell Telephone Labs., Inc., New York	2-8-54
Monograph 2388	Continuous Multistage Separation by Zone-Melting	W. G. Pfann Bell Telephone Labs., Inc., New York	2-55
Monograph 2398	Elastic Constants of Single Crystal Cobalt	H. J. McSkimin Bell Telephone Labs., Inc., New York	6-14-54
Monograph 2441	The Crystal Structure of Co_2Si	S. Geller Bell Telephone Labs., Inc., New York	7-23-54
Monograph 2449	Impurity Centers in Ge and Si	J. A. Burton Bell Telephone Labs., Inc., New York	7-1-54
NYO-6519	The Ion Exchange Characteristics of Phosphorylated Fabrics	R. E. Kameros W. A. Selke	4-1-55
ORO-140	The Performance Contactors for Liquid-Liquid Extraction; Preliminary Progress Report No. 3 covering the specific topic of the Application of Statistical Procedures to a Study of the Flooding Capacity of a Pulse Column	F. P. Pike	2-2-54
ORO-141	The Performance of Contactors for Liquid-Liquid Extraction; Progress Report No. 4 covering the specific topic of the Flooding Capacity of a Pulse Column on the Benzene-Water System	F. P. Pike	4-18-54

ORO-142	The Performance Contactors for Liquid-Liquid Extraction; Progress Report No. 7 covering the specific topic of Pressure-Drop Behavior for Single-Phase Flow through a Perforated-Plate Assembly	F. P. Pike	5-6-54
OSR-TN-54-204	The Line Width Parameter of HDO at Low Frequencies Report No. 289.2	Y. Beers G. Herrmann F. Sterzer New York Univ., New York. Coll. of Engineering	8-12-54
*PA-10	A General Purpose Photoelectric Tricolorimeter	H. F. Pollard Australia. National Standards Lab., Chippendale, New South Wales	11-50
*PA-14	The Design of a Precision Double Monochromator	W. H. Steel Australia. National Standards Lab., Chippendale, New South Wales	1-51
*PD-286	Work on Electron Multipliers Between May, 1945 and January, 1946	S. G. Cohen Nat'l Research Council of Canada. Chalk River Lab., Chalk River, Ont.	5-1-46
*PRL-5.14	Fluids, Lubricants, Fuels, and Related Materials. Quarterly Report for January, February, and March 1955	Penn. State Univ., State College. Coll. of Chemistry and Physics. Petroleum Refining Lab.	3-31-55
RMO-2007	Nitric Acid Digestion of Leached Zone	W. R. Bowen R. F. McCullough J. G. Brown	3-31-52

*Microcards

RMO-2034	Leached Zone - Phosphate Recovery	J. H. Gross J. B. Adams R. Bart	2-28-55
RMO-2036	Ammonium Sulfate Decomposition	G. L. Dugger J. B. Adams R. Bart	2-28-55
TID-5260	Fundamental Chemistry for Nuclear Reactor Engineers	S. Peterson R. W. Stoughton W. F. Kieffer, et al.	5-55
UCRL Translation 236	The Mechanism of the Photoreduction of Certain Dyes Sensitized by Chlorophyll and Related Compounds. by V. A. Gavrilova and V. B. Evstigneev. Akademiia Nauk, SSSR. Doklady <u>98</u> , no. 6, pp 1017-1020 (1954)		

ENGINEERING

AECU-2994	Two-Phase Pressure Drops	H. S. Isbin R. H. Moen D. R. Mosher Minnesota Univ., Minneapolis	11-54
Monograph 2375	Interpretation of Engineering Data	H. F. Dodge Bell Telephone Labs., Inc., New York	6-16-54
*OAR-TR-8	Heat Propagation Past and Future	D. G. Samaras Office of Air Research, Wright-Patterson AFB, Ohio	3-51
ORNL-1888	Free Convection Theory and Experiment in Fluids Having a Volume Heat Source	D. C. Hamilton F. E. Lynch	8-19-55
*PIBAL-216	Bibliography on Thermal Elasticity	W. I. Berks A. Chwick Brooklyn Polytechnic Inst.	1-53

*Microcards

*PWAC-101	The Effect of Internal Pressure on the Flexibility of Large-Radium Pipe Bends	W. W. Barton A. W. Starbird	6-1-54
<u>METALLURGY AND CERAMICS</u>			
ANL-5262	Attack on Metals by Bismuth-Lead-Tin Alloy at Elevated Temperatures	W. D. Wilkinson	1-15-54
BMI-1017	Investigation of Wrought Iron-Chromium-Aluminum Alloys Containing Platinum and Palladium	H. A. Saller J. T. Stacy S. W. Porembka	7-12-55
BMI-1019	Welding of Molybdenum Heat Exchangers	R. E. Monroe D. C. Martin	7-20-55
BMI-1020	Preparation of Dense Beryllium Oxide	C. Hyde J. F. Quirk W. H. Duckworth	7-21-55
COO-304	Studies on the Reduction of Beryllium Fluoride with Magnesium	F. A. Vinci B. Lympny	6-1-55
Monograph 2367	Aging of Properties of Ferroelectric Ceramics	W. P. Mason Bell Telephone Labs., Inc., New York	1-55
Monograph 2427	Experimental Extrusion of Aluminum Cable Sheath	G. M. Bouton J. H. Heiss G. S. Phipps Bell Telephone Labs., Inc., New York	5-55
NYO-3277	Second Annual Report on Distribution Studies Between Melts and Solid Phases Using Radioactive Tracers	R. Ward W. C. Orr J. Looby, et al.	5-31-53
*OSR-TN-54-359	Creep-Rupture by Vacancy Condensation	E. S. Machlin Columbia Univ., New York. School of En- gineering	11-54

T& AM-87	Influence of Strain Aging on the Shape of the S-N Diagram	F. C. Rally G. M. Sinclair Illinois. Univ., Urbana	6-55
T& AM-88	Factors Influencing Fretting Fatigue Strength	H. T. Corten Illinois. Univ., Urbana	6-55

PHYSICS

ISC-535	Photodisintegration of Light Elements in Nuclear Emulsions	R. D. Cooper D. J. Zaffarano	7-54
K-1232	Feasibility of Large-Scale Nitrogen-15 Production for Nuclear Reactors	D. A. Hayford W. N. Johnson S. A. Levin, et al.	8-17-55
MISC-1955-125 (Trans)	An Attempt to Detect H^4 Nuclei Among Fission Products of Carbon by 300 Mev Protons. By A. A. Reut, S. M. Korenchenko, V. B. Yur'ev and B. M. Pontecorvo. Akademiia Nauk, SSSR. Doklady <u>102</u> , no. 4, 723-5 (1955)		
MISC-1955-128 (Trans)	Photoproduction of Negative π -Mesons from Deuterium. by M. I. Adamovich, G. V. Kuzmicheva, V. G. Larionova and S. P. Kharlamov. Akademiia Nauk, SSSR. Doklady <u>102</u> , no. 4, pp 715-8 (1955)		
MISC-1955-129 (Trans)	Antiproton Annihilation Cross Sections. by I. Yu. Kobzarev. Akademiia Nauk, SSSR. Doklady <u>102</u> , no. 6, p. 1101 (1955)		
MIT-AL-QPR-4-6-55	Quarterly Report April-June 1955	Massachusetts Inst. of Tech., Cambridge. Acoustics Lab.	
Monograph 2356	Low Temperature Acoustic Relaxation in Ni-Fe Ferrites	M. E. Fine N. T. Kenney Bell Telephone Labs., Inc., New York	12-15-54

Monograph 2366	A New Telegraph Serviceboard Using Electronic Circuits	J. R. Davey F. H. Hanley M. R. Purvis Bell Telephone Labs., Inc., New York	10-21-54
Monograph 2395	Performance of Tradiç Transistor Digical Computer	J. H. Felker Bell Telephone Labs., Inc., New York	12-54
Monograph 2397	Trandsucer Design for Ultrasonic Delay Lines	H. J. McSkimin Bell Telephone Labs., Inc., New York	3-55
Monograph 2399	Hyperfine Splitting of Donor States in Silicon	W. Kohn J. M. Luttinger Bell Telephone Labs., Inc., New York	2-15-55
Monograph 2401	A Simple Circuit for Frequency Standards Employing Overtone Crystals	E. P. Felch J. O. Israel Bell Telephone Labs., Inc., New York	1-25-55
Monograph 2402	Transmission through Periodically Operated Switches	W. R. Bennett Bell Telephone Labs., Inc., New York	3-55
Monograph 2407	Pulse-Switching Circuits using Magnetic Cores	M. Karnaugh Bell Telephone Labs., Inc., New York	5-55
Monograph 2423	Control Features of a Magnetic-Drum Telephone Office	W. A. Malthaner H. E. Vaughan Bell Telephone Labs., Inc., New York	3-55

Monograph 2411	Injected Current Carriers in a Semiconductor	W. vanRoosbroeck Bell Telephone Labs., Inc., New York	4-55
Monograph 2417	Shielded Electrical Connection into Vacuum	G. A. Harrower F. S. Best A. A. Machalett Bell Telephone Labs., Inc., New York	4-55
Monograph 2422	Power Flow in Electron Beam Devices	W. H. Louisell J. R. Pierce Bell Telephone Labs., Inc., New York	4-55
Monograph 2424	A Revised Telephone Transmission Rating Plan	P. W. Blye O. H. Coolidge H. R. Huntley Bell Telephone Labs., Inc., New York	1-25-55
Monograph 2425	Protection of Service in the TD-2 Radio Relay System	I. Welber H. W. Evans G. A. Pullis Bell Telephone Labs., Inc., New York	12-3-54
Monograph 2426	Transmission of Digital Information over Telephone Circuits	A. W. Horton, Jr. H. E. Vaughan Bell Telephone Labs., Inc., New York	1-14-55
Monograph 2428	A-Millimeter Wave Reflex Klystron	E. D. Reed Bell Telephone Labs., Inc., New York	1-19-55

Monograph 2429	Interchannel Interference in FM and PM Systems	W. R. Bennett H. E. Curtis S. O. Rice Bell Telephone Labs., Inc., New York	1-5-55
Monograph 2430	Optimum Design of Directive Antenna Arrays	E. N. Gilbert S. P. Morgan Bell Telephone Labs., Inc., New York	1-18-55
Monograph 2435	Theory of Dislocations in Semiconductors	W. T. Read, Jr. Bell Telephone Labs., Inc., New York	8-54
Monograph 2442	Magnetic Domains	H. J. Williams Bell Telephone Labs., Inc., New York	10-52
Monograph 2464	The Ultra-Bandwidth Finline Coupler	S. D. Robertson Bell Telephone Labs., Inc., New York	3-16-55
NAA-SR-Memo- 685	U. P. R. Control Rod Latch	J. L. Hedgecock	4-29-53
NBS-2390a	A Barium-Titanate Accelerometer with Wide Frequency and Acceleration Ranges; Data Obtained Since April 1953	T. A. Perls C. W. Kissinger	6-55
NYO-7136	An Amplitude-Stabilized Bridged-Tee Oscillator	K. Enslein	6-23-55
NYO-7137	P-P Interactions at 3 Bev	R. Cester T. F. Hoang A. Kernan	5-5-55
NYO-7138	Report on the Section on "Heavy Unstable Particles" of the "International Conference on Elementary Particles" held in Pisa, Italy June 12-18, 1955	R. E. Marshak	8-4-55

*OANAR-24-50	Semiconductor- Ferroelectric and Phosphor Research at Zurich and Paris	P. W. Forsbergh, Jr. 3-1-50 Office of Naval Research (London)
*OANAR-26-50	The Low Temperature Laboratory at the Technical Institute in Braunschweig; Technical Report	P. M. Marcus 1-30-50 Office of Naval Research (London)
*OANAR-30-48	Symposium on Electron Emission and Electron Optics, Aldermaston, England, 1948; Technical Report	M. E. Bell 10-5-48 Office of Naval Research (London)
*OANAR-33-49	The Physical Institute of the Liebig Hochschule Giessen, Germany	T. Coor 11-3-49 Office of Naval Research (London)
*OANAR-35-49	Some Observations on Physics in Germany; Technical Report	T. Coor 11-3-49 Office of Naval Research (London)
*OANAR-43-49	The Edsac Computing Machine, Cambridge University	S. C. Lowell 11-25-49 Office of Naval Research (London)
*OANAR-51-49	Research in the Electrical Engineering Department at Imperial College of Science and Technology - London; Technical Report	P. W. Forsbergh, Jr. 12-12-49 Office of Naval Research (London)
*OANAR-56-49	Nuclear Physics Research at the University of Basel	P. M. Marcus 12-23-49 Office of Naval Research (London)
*PD-223	Research in Neutron Physics at Chalk River	B. W. Sargent 3-27-47 Nat'l Research Council of Canada. Atomic Energy Project, Chalk River, Ont.

*Microcards

TID-5262	Reactor Physics Laboratory Manual	Oak Ridge School of Reactor Technology, Tenn.	7-55
----------	-----------------------------------	---	------

UCRL Translation 237 (L) Multiphoton Annihilation of Large Energy Positrons with Electrons. by A. A. Abrikosov. Akademiia Nauk, SSSR. Doklady 102, no. 5, pp. 915-17 (1955)

REACTOR SCIENCES

ANL-5403	Design Evaluation of In-Reactor Tube for Argonne Water Loop at MTR (ANL-2)	L. W. Fromm	3-55
DL-17	Possibilities of Generating Atomic Electric Power at Competitive Rates	W. B. Lewis Atomic Energy of Canada, Ltd., Chalk River Project, Chalk River, Ont.	4-12-55
*PD-224	The Low Power Pile at Chalk River	B. W. Sargent Nat'l Research Council of Canada. Atomic Energy Project, Chalk River, Ont.	3-25-47
TID-5261	Course Outlines and Engineering Problems	Oak Ridge School of Reactor Technology, Tenn.	7-55

MISCELLANEOUS

ANL-5473	Additions to the Library Report for the Period August 1-15, 1955 - Technical Reports and Books	P. A. Schulze	
MISC-1955-123	Eighteenth Semiannual Report of the Atomic Energy Commission	Atomic Energy Commission (Washington, D. C.)	7-55
MISC-1955-124	NRL Quarterly on Nuclear Science and Technology Progress Report for the Period April-June 1955	Naval Research Lab.	7-1-55

*Microcards

NACA-Abstract- No. 88	National Advisory Committee for Aeronautics Research Abstracts No. 88	National Advisory Committee for Aero- nautics	8-24-55
NBS-4262	Tests of Victoreen Model 592 Survey Meters	P. Barrans R. E. Brueckmann	8-1-55
*OANAR-4-49	The Reflecting Microscope; Technical Report	T. Coor Office of Naval Research (London)	1-21-49
*PI-323	A Method for Bonding Optical Glass Parts to Metal Mounts. Final Report	A. Somerville General Motors Corp. Research Labs. Div., Detroit	5-13-54
TID-3075	Nuclear Technology - A Selected List of References	S. B. Schwind	4-55

LIST OF UNCLASSIFIED REPORTS ISSUED IN THE UCRL INFORMATION DIVISION

UCRL-1889 Rev	A Report on the Three-Dee, Three-Phase, 20-Inch Cy- clotron	M. Heusinkveld M. Jakobson L. Ruby B. T. Wright	3-55
UCRL-2994	The Use of a Bismuth Wire Fluxmeter for Metering the Magnetic Field of the Consolidated Mass Spectrometer Model 21-103	A. S. Newton H. X. DiGrazia	5-17-55
UCRL-3051	Bonding and Spectra of Metal Chelates: Ultraviolet, Visible, Infrared, and Electron Resonance Absorption Near-Infrared Spectra of Alcohols	R. L. Belford (Thesis)	6-55
UCRL-3056	Asymptotic Perturbation of Differential Equations	J. Killeen (Thesis)	7-55
UCRL-3061	A Table of Dispersion Corrections for X-Ray Scattering of Atoms	C. H. Dauben D. H. Templeton	6-2-55

*Microcards

UCRL-3075	List of Reprints Available in the Information Division (Received January through June, 1955)		7-14-55
UCRL-3078	Aging: A Theory Based on Free Radical and Radiation Chemistry	D. Harman	7-14-55
UCRL-3087	The Scattering of 22-Mev Positive Pions on Protons	S. L. Whetstone, Jr. (Thesis)	7-26-55
UCRL-3089	Kinetic Energy in Nonlinear Meson Theory	D. H. Holland	7-29-55
UCRL-3093	Systematics of Excitation Functions with Application to Lead	W. John, Jr. (Thesis)	8-4-55
UCRL-3095	Interactions of 380-Mev Alpha Particles in Nuclear Track Emulsion	D. S. Willoughby	8-3-55
UCRL-3097	Elastic Scattering of 48-Mev Alpha Particles	R. E. Ellis L. Schecter	8-4-55
UCRL-3108	List of Unclassified Reports Received and Issued in the UCRL Information Division During the Period of August 1-15, 1955		8-18-55