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UNIVERSITY OF CALIFORNIA

Radiation Laboratory

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LIST OF UNCLASSIFIED REPORTS RECEIVED AND ISSUED IN THE UCRL  
INFORMATION DIVISION DURING THE PERIOD OF APRIL 1-15, 1954

April 23, 1954

Berkeley, California

LIST OF CODES FOR REPORT NUMBERS <sup>57</sup> 2114

ACCO	- American Cyanamid Co.	NAA	- North American Aviation, Inc.
AERE	- Atomic Energy Research Establishment, Harwell, England	NBS	- National Bureau of Standards
ANL	- Argonne National Lab.	NM	- Naval Medical Research Institute
ANP	- Aircraft Nuclear Propulsion Project	NRL	- Naval Research Lab.
APEX	- Armed Services Technical Information Agency	NYO	- New York Operations Office
ASTIA	- Battelle Memorial Institute	ONRL	- Office of Naval Research, London
BMI	- Brookhaven National Lab.	ORNL	- Carbide and Carbon Chemicals Co. (ORNL)
BNL	- Chicago Operations Office	ORO	- Oak Ridge Operations Office
CO	- Chalk River Project, Canada	RMO	- Division of Raw Materials
CRC		SEP	- Sylvania Electric Products, Inc.
CRE		SO	- Schenectady Operations Office
CRP		TEI(M)	- U. S. Geological Survey
CU	- Columbia University	TID	- Technical Information Service
DOW	- Dow Chemical Company	UCLA	- University of California Medical Research Lab.
DP	- du Pont, Wilmington	UR	- University of Rochester
FMPC	- Feed Materials Production Center at Fernald	USNRDL	- U. S. Naval Radiological Defense Lab.
GEL	- General Electric Co., General Engineering Lab.	WAPD	- Westinghouse Electric Corp., Atomic Power Division
HW	- Hanford Works, Richland	WASH	- Atomic Energy Commission, Washington
IDO	- Idaho Operations Office	Y	- Carbide and Carbon Chemicals Co. (Y-12 Plant)
ISC	- Iowa State College		
JENER	- Joint Establishment for Nuclear Energy Research, Norway		
K	- Carbide and Carbon Chemicals Co. (K-25 Plant)		
KAPL	- Knolls Atomic Power Lab.		
KLX	- Vitro Corp. of America		
LAMS	- Los Alamos Scientific Lab.		
LA			
LRL	- California Research and Development Do.		
LWS	- Massachusetts Institute of Technology		
MIT	- Mound Laboratory		
MLM	- California Research and Development Co.		
MTA			

The Technical Information Service assigns NP ("Non-Project") numbers to university research and development reports received from outside sources, e. g., government agencies, universities, industry and foreign countries.

LIST OF UNCLASSIFIED REPORTS RECEIVED AND ISSUED IN THE UCRL  
INFORMATION DIVISION DURING THE PERIOD OF APRIL 1 - 15, 1954

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

April 23, 1954

Index Number	Title	Author	Date
BIOSCIENCES			
AERE E/R 1291	Remote Handling Equipment	A. Apperly	11/2/53
BNL-1565	A Comparison of X-Ray Induced Dominant and Recessive Lethals in First Meiotic Metaphase Eggs and in Sperm of Habrobracon	G. Heidnthal	
CEA-240	Preparation, Extraction et Dosage de Cholesterol Marque (D et C <sup>14</sup> )	L. Bugnard F. Chevallier J. Coursaget	12/53
KAPL-1052	Analysis of Ru-106 in Vegetation	M. Kennedy J. Fitzgerald	3/25/54
LA-1634	The Chronic Toxicity of Uranium <sup>233</sup> and Uranium <sup>238</sup> : Delayed Effects in Rats Following a Single Injection	J. Storer W. Langham L. Ellinwood	6/53
IRL-99	Radiological Monitoring During a Water Boiler-Type Reactor Startup	R. Sulit	3/54
MLM-952	Biological Research Quarterly Progress Report Through December 17, 1953	D. Anthony	3/10/54
NM -000- 018.06.27	Reversible Association Process of Globular Proteins V. the Study of Associating Systems by the Methods of Macromolecular Physics	R. Steiner	7/16/53

NM-006- 012.05.05	Separation, Concentration and Transfusion of Platelets	G. Dillard G. Brecher E. Cronkite	7/23/53
*NP-1625	Physiological Responses to Hypoxia Induced in Man by Inspiration of a Low Oxygen-Nitrogen Mixture. (Report No. 2)	R. Smith Naval Med. Res. Inst.	5/3/48
*NP-1722	The Toxicity of Beryllium; Information Circular 15.	C. Taylor Defense Res. Labs. (Australia)	10/49
*NP-1735	Evaluation of Present Day Knowledge of Cosmic Radiation at Extreme Altitude in Terms of the Hazard to Health	H. Schaefer Naval Sch. of Aviation Medicine and Research	6/30/50
*NP-1778	Quarterly Progress Report; January-March, 1950; Neutron and Gamma Ray Shielding Group and Electronic Nuclear Instrumentation Group.	G. Norton	1950
*NP-1847	Periodic Status Report No. 10; January 1, 1950 to April 1, 1950; Neutron and Gamma Ray Shielding Group.	M. I. T.	1950
*NP-1832	Occurrence of the Citric Acid Cycle in Tumors	S. Weinhouse R. Milington C. Wenner Lankenau Hospital Res. Inst. and Temple Univ.	1950
*NP-1883	The Antibody Response of Animals Exposed to X-Radiation	R. Mitchell G. Keyes D. Anderson A. Kimball	1950

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ORC-110	Agricultural Research Program: Semi-Annual Report for July 1 to December 31, 1953.	Univ. of Tenn.	4/54
UR-316	The Empirical Relation Between Time and Intensity of Applied Thermal Energy in Production of 2+ Burns in Pigs	G. Mixer	3/2/54
UR-317	The Effect of Single Vs. Divided Doses of X-Irradiation on Survival of Rats	J. Hursh F. Van Slyke G. Casarett	3/16/54
UR-318	Use of a Test Dose to Estimate Life Shortening Produced in Rats by a Single Dose of X-Irradiation	J. Hursh F. Van Slyke	3/16/54
UR-320	Influence of Diet on Survival of Rats Following Whole Body X-Irradiation or Polonium Injection	T. Noonan J. Stannard	3/23/54

CHEMISTRY

AEC-tr-1734	Gmelin's Handbook of Inorganic Chemistry System No. 40 Actinium and its Isotopes (MsTh <sub>2</sub> )		4/54
AEC-tr-1812	Dimorphism of Uranium Sulfide, US <sub>2</sub>	M. Picon J. Flahaut	3/54
AECD-3501	The Electromagnetic Concentration of the Stable Isotopes of Mercury	L. Love W. Leyshon	8/23/51
AECD-3502	The Electromagnetic Concentration of Samarium	L. Love W. Bell	10/4/50
AERE C/R 1311	The Determination of Niobium in Stainless Steel	G. Milner A. Smales	12/21/53
BNL-1584	Chemical Effects of Electron Capture by Solutes in Hydrocarbons During Gamma Irradiation	R. Williams W. Hamill	1953

CEA-231	Etude dans le Systeme Mercure Solution Acide des Courbes I=f(E) relatives au depot et a la redissolution de traces de: Cu, Tl, Cd, Zn, Ni, Co, Fe	H. Coriou J. Hure N. Meunier	4/23/53
CEA-232	Considerations sur les Oxydes d'Uranium Compris entre UO <sub>2</sub> et U <sub>3</sub> O <sub>8</sub>	M. Perio	1953
CEA-242	Le Role de l'Industrie Chimique dans les Realisations Atomiques Francaises	B. Goldschmidt	1953
CEA-243	No. 156: Varietes Cristallines de UO <sub>3</sub>	P. Perio	1953
CEA-250	Dosage Colorimetrique de Faibles Quantites de Cerium dans l'Uranium	J. Hure R. Saint James-Schonberg	1953
ISC-355	Conductances, Transference Numbers, and Activity Coefficients of some Rare Earth Chlorides in Aqueous Solutions	J. Dye F. Spedding	6/53
ISC-462	The Decay of UX <sub>1</sub> , UX <sub>2</sub> , and UZ	S. Johansson	2/17/54
ISC-470	Titration of Bismuth with Ethylenediaminetetraacetic Acid	J. Fritz	3/22/54
LRL-112	Reproducibility of 480 F Static Aqueous Corrosion of Pure Aluminum	P. Strom L. Litz M. Boyer	3/54
MISC-1954-23	A Study of Fission-Yield Fine Structure	D. Wiles	11/53
MISC-1954-24	The Natural Distribution of Tritium	S. Kaufman W. Libby	12/23/53
MISC-1954-25	A Spectrographic Method for Thorium - Final Report	F. Lindstrom	8/53
MLM-833	Separation of Radium and Barium by Ion-Exchange Elution	W. Power H. Kirby, et al	4/15/53



*NP-1628	Heterogeneity of Surfaces; Dual Surface Studies; Adsorption of Gases on Metals. (Technical Report No. 2)	Lehigh Univ.	6/26/50
*NP-1711	Reducing Properties of Aqueous Solutions of Sodium Borohydride	A. Stewart U. of Chicago	3/48
*NP-1745	Report for Period June 1, 1949 to March 31, 1950: Part II	U. of Chicago	
*NP-1800	Observations on the Rare Earths; 8-Quinolinol and Substituted 8-Quinolinol Chelates of Certain Rare Earth Elements	D. Jackson U. of Illinois	9/1/50
*NP-1824	Annotated Bibliography on the Use of Organolithium Compounds in Organic Synthesis; Supplement No. 1	Metalloy Corp.	1/50
*NP-1835	Vapor Pressure of Inorganic Substances; III. Chromium Between 1283° and 1561° K.	R. Speiser H. Johnston P. Blackburn Cryogenic Lab., Ohio State U.	7/20/50
*NP-1899	The Reactions of Metals with Gases at High Temperatures; the Melting Point-Composition Diagram of the Zirconium-Oxygen System; Technical Report No. 6	D. Cubicciotti Ill. Inst. Tech.	
*NP-1933	Vapor Pressure of Inorganic Substances; V. Tantalum Between 2624° and 2943° K: Technical Report No. 6	J. Edwards H. Johnston P. Blackburn Cryogenic Lab., Ohio State U.	7/15/50
*NP-4262	The Heat of Reaction of Diborane with Pyridine: Technical Report of the Office of Naval Research	L. Domash H. Brown Purdue Univ.	12/15/52
NRL-C-3147	Hydrides and Borohydrides of Light Elements	E. Schlesinger A. Finholt	8/47

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ONR-Nonr-375 (02)	The Action of Polar Organic Inhibitors in the Acid Dissolution of Metals	N. Hackerman A. Makrides	10/1/53
ONR-N6onr- 23809	Exchange and Aquation Studies with Thiocyanate Complexes	A. Adamson R. Wilkins	11/53
ONR-N5ori-76	The Microwave Spectrum, Structure, and Dipole Moment of Thionyl Fluoride <sup>1</sup>	R. Ferguson	
ONR-N6ori-181	The Molar Refraction of Carbon Dioxide and its Dependence on Density and Age	C. Bennett V. Coffin	8/31/53
METALLURGY AND CERAMICS			
AECD-3610	Constitution Diagram of the Antimony-Zirconium Alloy System	R. Russi, Jr. H. Wilhelm	8/51
AECU-2763	An Investigation of Scaling of Zirconium at Elevated Temperatures. Quarterly Status Report No. 2 for Sept. 2 to Dec. 2, 1953	W. Baldwin, Jr. D. Garibotti E. Evans	12/17/53
BNL-MP/JKD-1	Tests on Philips Ferrite L-519	M. Plotkin J. Kiesling	11/23/53
ISC-460	Electrostatic Energy Calculations for Sodium Tungsten Bronze (Na <sub>x</sub> WO <sub>3</sub> )	J. Smith	2/15/54
KAPL-1066	The Effect of Short Time Moderate Flux Neutron Irradiations on the Mechanical Properties of some Metals	F. Kunz A. Holden	2/19/54
MISC-1954-19	Thirty-first Quarterly and Eighth Annual Report to Sponsors of the Institute for the Study of Metals		12/53
NAA-SR-261	Electron Microscope Study of Slip Bands in Radiation Damaged Aluminum Crystals	E. Kelly	7/30/53

*NP-1605	Phase Relationships Between Metals and Ceramic Oxides at High Temperatures; Periodic Status Report No. 9	V. Frechette N.Y. State Coll. of Ceramics	10/12/48
*NP-1700	Effect of Repeated Welding on the Physical and Metallurgical Properties of A-212 Plate; Part I and Part II; Project Baby (Report No. 3363; ES-401-12)	R. Hargrove M. MacKusick Babcock & Wilcox Co.	5/26/50
*NP-1705	Progress during Period June 1 to July 31, 1950; (Periodic Status Report No. 21; N6ori-143)	W. Crandall W. Lawrence Alfred U.	7/31/50
*NP-1725	Quarterly Progress Report on Alloys for High-Temperature Service to Office of Naval Research	E. Fletcher A. Elsea, et al Batelle Mem. Inst.	6/16/50
	The Influence of Dislocations and Impurities on the Damping and the Elastic Constants of Metal Single Crystals (Enlarged Version Including Strain Amplitude)	Carnegie Inst. of Tech.	
*NP-1740	...Technical Report No. 5	J. Koehler Carnegie Inst. of Tech.	8/50
*NP-1741	...Final Report	J. Koehler	9/50
*NP-1763	Mechanism of Cermet Oxidation at High Temperatures	W. Crandall H. Levine, et al Alfred U.	10/1/50
*NP-1786	Metallurgical Investigations for Selection of Materials Subjected to an Environment of Liquid Lead-Bismuth Alloy	R. Grassi D. Bainbridge	1949
*NP-1796	Zirconium Alloy Investigations	Bur. of Mines Northwest Electrodevelopment Lab.	
*NP-1821	Third Annual Report to ONR on High Pressure Research; July, 1949 to July, 1950	Inst. for Study of Metals	

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*NP-1823	Fundamental Properties of Metal-Ceramic Mixtures at High Temperatures	W. Crandall W. Lawrence Alfred U.	11/30/50
*NP-1861	Final Report on Cladding of Molybdenum to the Rand Corporation  Zirconium Alloy Project. Bureau of Mines	W. Bruckart S. Whalen, et al Batelle Mem. Inst.	4/25/50
**NP-3287	...Report No. 1	S. Shelton	1947
*NP-3289	...Report No. 5	S. Shelton	1948
*NP-3303	...Summary Report (for) Fiscal Year 1948	S. Shelton	
*NP-3305	...Report No. 6	S. Shelton	1948
*NP-3306	...January 1 to February 28, 1949	S. Shelton	1949
*NP-3307	...Zirconium-Manganese System. USBM Technical Progress Report No. 5 for January 1, 1951 to March 1, 1951	S. Shelton	1951
NP-5079	Fourth Annual Report Arc-Cast Molybdenum-Base Alloys	M. Semchyshen R. Barr Climax Molybdenum Co.	1953
NYO-3737	Preliminary Investigation of "Anti-Whirl" Bearings for Operation in an Acidic Solution Containing Abrasive Particles: Progress Report for the Period November 1, 1952 to December 15, 1953.	C. Kayan G. Boiker, et al	12/15/53
NYO-3963	The Study of Diffusionless Phase Changes in Solid Metals and Alloys. Progress Report for the Period June 1 to August 31, 1953	T. Read D. Lieberman, et al	1/54

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NYO-6292	Study of Metal-Ceramic Interactions at Elevated Temperatures; Quarterly Progress Report for the Period Ending January 1, 1954	F. Norton W. Kingery	1/1/54
ONR-N6ori-47/IV	Effect of Alloying Elements on the Mechanism of Sulfur Transfer Across a Slag-Metal Interface Silicon-Manganese-Phosphorus-Aluminum-Carbon-Nickel-Copper	K. Goldman G. Derge W. Philbrook	10/16/53
U-15383	Production of Titanium in an Arc Furnace	L. Jaffe R. Pitler	6/30/50
GEOSCIENCES			
CEA-236	Composition Chimique et Age Geologique de Pechblendes Francaises et de l'Uraninite de Cote de'Ivoire	MM. Chervet Guillemin, et al	11/53
*NP-1528	Use of a High-Pressure Ionization Chamber in Assaying Uncrushed Ore Samples	J. Horwood C. McMahon Dept. of Mines and Tech. Survey (Canada)	1/50
*NP-1529	The Determination of $U_3O_8$ in Ores and Solutions; Cellulose Column Method; Memorandum Series No. 105	F. Rabbitts R. Guest, et al Dept. of Mines and Tech. Survey (Canada)	9/2/49
*NP-1530	Determination of Uranium in Ores; Modified Mercury Cathode-Cupferron Method; Memorandum Series No. 103	F. Rabbitts Dept. of Mines and Resources (Canada)	8/49
*NP-1590	Methods of Detecting Radioactive Minerals; Radioactivity Section. (Topical Report No. 4)	S. Kaiman Dept. of Mines and Resources (Canada)	7/10/48
*NP-1597	Flotation of Acid Consuming Minerals from Ore 101-B	W. Gow Dept. of Mines and Tech. Survey (Canada)	3/50
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*NP-1599	Concentration and Extraction of Uranium from Several Types of Canadian Ores	Staff of Radioactivity Division (Canada)	
*NP-1601	Analysis of Uranium in Ores by Geiger Methods	Staff of Radioactivity Division (Canada)	
*NP-1783	Equilibrium Determinations on Low Grade Ores (Special Report No. 25/50)	C. Lapointe Dept. of Mines and Tech. Surveys, Mines Branch (Ottawa)	5/10/50
*NP-1890	Determination of Uranium in Ores; Review of Chemical Methods; Memorandum Series no. 109	F. Rabbitts Dept. of Mines and Tech. Surveys, Mines Branch (Ottawa)	9/50
ONR-N6onr 269, Tech. Report #55	An Evaluation of some Methods for the Analysis of Clay Materials. Part I: Evaluation of Methods for the Quantitative Analysis of Halloysite-Kaolinite Clays Part II: Base-Exchange: An Analytical Tool for Mixed-Layer Aggregates	W. Ormsby L. Sand	11/53
RME-47	Preliminary Report on Uranium Mineralization in the Dakota Sandstone Zuni Uplift, New Mexico	A. Mirsky	7/53
RME-4038	Reconnaissance of the Uranium Deposits of the Lockhart Canyon - Indian Creek Area, San Juan County, Utah	G. Dix	5/15/53
TEI-317-A	Reconnaissance for Radioactive Materials in Northeastern United States During 1952	F. McKeown, H. Klemic	6/53

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PHYSICS AND MATHEMATICS

AEC-tr-1705	Mass Spectrography and Spectrometry	E. Roth	1949
AERE ED/R 1302	A Design of Pressure/Vacuum Valve	F. Speed	6/53
AERE EL/M 85	Causes of Instability in the Probe Unit Type 1014a	C. Florida C. Davey	12/21/53
AERE GP/M 161	Notes on the Stabilization of a 500 Kilovolt Supply for a Pulsed Proton Beam	E. Harrison I. Lewis	12/9/53
BNL-JGC-1	Electromechanical Model of Alternating-Gradient Synchrotron	J. Cottingham	11/23/53
CEA-230	Contribution a l'Etude de la Diffusion $\alpha$ -Proton pour des Particules $\alpha$ d'Energie Comprise entre 3,1 et 5,3 Mev	C. Ruhla	11/53
CEA-237	Quelques Etudes sur la Fission de l'Uranium a l'Aide d'une Chambre de Wilson Autocommandee	H. deLaboulaye C. Tzara J. Olkowsky	11/53
CEA-239	Compteurs de Geiger a Rayons Gamma a Cathode de Bismuth	R. Meunier J. Legrand	12/53
CEA-241	Ensemble de Comptage $\alpha$ a Chambre d'Ionisation a Impulsion	J. Engelman H. Guillon	12/53
CEA-251	Dectecteurs Electroniques de Rayonnements Nucleaires	J. Labeyrie J. Weill A. Benoit	1953
ISC-293	Mass Spectrometric Determination of Latent Heats of Metals	R. Johnson D. Hudson F. Spedding	12/52
ISC-428	Temperature Distribution in a Metal Cylinder Containing a Heat Source	L. Pletke G. Murphy	8/53

ISC-471	Time Dependent Variational Principle	S. Altshuler J. Carlson	3/22/54
JENER-6	Measurements of the Distribution of Thermal Neutrons and and Rh-Resonance Neutrons in Isotope Channel 5-11.	K. Steenberg	1951
JENER-10	The Jener Beta-Spectrometer	G. Trumpy	1952
KAPL-1004	Solution of Large Equation Systems and Eigenvalue Problems by Langzos Matrix Iteration Method	G. Horvay	10/14/53
LRL-103	High Speed Counting Using the EIT Decade Counter Tube	R. Nather	3/54
IRL-105	Development of a Toroid and Integrator for Monitoring High Current, Pulsed, Ion and Electron Beams	W. Shoemaker	3/54
MISC-1954-20	Recent Observations on the Motion of Small Angle Dislocation Boundaries	D. Bainbridge Cho Hsien Li, et al	8/53
MISC-1954-21	Technical Report 1952-1953 Part Two: Laboratory of Molecular Structure and Spectra	U. of Chicago Dept. of Physics	
MISC-1954-22	The "Closed" Fountain Effect in Liquid Helium II	C. Reynolds	
MLM-876	A Recalculation of the Absolute Velocity of the Po <sup>214</sup> Alpha Particle (Information Report)	R. Clark	7/16/53
MLM-911	A Direct-Current Constant-Power Supply (Information Report)	T. Zinn J. Heyd, et al	9/5/53
MTR-L-247	Radiation Door for HG-4 Facility Nuclear Calculations	G. Hanson	12/16/53
NAA-SR-879	Formation Energies of Vacancies in Copper and Gold	C. Meechan R. Eggleston	1/25/54



NBS-3101	A General Method for High Speed Machine Computation of Ideal Gas Thermal Properties. I. The Isotopic Water Molecules	A. Friedman L. Haar	2/28/54
NBS-3124	Technical Memorandum No. 24 on Research and Development - Cold Valves	R. Richards	2/23/54

Projects and Publications of the National Applied Mathematics Laboratories; a Quarterly Report

*NP-1425	...April through June 1948	J. Curtiss Nat'l Bur. of Standards	8/15/48
*NP-1511	...January through March 1950	J. Curtiss	6/15/50
*NP-1603	An Unsteady-State Method for Measuring Thermal Diffusivity at High Temperatures	H. Levine Alfred Univ.	6/15/50
*NP-1606	Introductions to Reactions in the Solid State	Alfred Univ.	3/31/50
*NP-1618	Back-Ionization in Electrostatic Precipitation	G. Penney G. Hewitt Westinghouse Res. Labs.	
*NP-1673	The Effect of Wall Boundary Layer on the Diffraction of Shock Waves around Cylindrical and Rectangular Obstacles (Report No. 50-2).	R. Hollyer R. Duff Univ. of Mich.	
*NP-1710	Projects and Publications...; A Quarterly Report; April through June 1950	J. Curtiss	7/15/50
*NP-1714	An Automatic Operator for Cyclotrons. (Technical Report No. 2; N6ori-71)	A. Saunders U. of Ill.	6/13/50
*NP-1723	3/4 Scale Model Oscillator Report. (Synchro-Cyclotron Technical Report No. 6; N7-onr-30301)	E. Williams L. Johnson H. Collins Carnegie Inst. of Tech.	8/1/50

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*NP-1733	Research on Crystal Detectors of Ionizing Radiation; Final Progress Report; 1 June 1949 - 31 August 1950	Princeton U.	8/50
	Heat Transfer in Sweat-Cooled Porous Metals;		
*NP-1748	...Progress Report No. 1-58.	S. Weinbaum H. Wheeler, Jr. Cal. Inst. of Tech.	4/8/47
*NP-1749	...Progress Report No. 1-62.	S. Weinbaum H. Wheeler, Jr. Cal. Inst. of Tech.	7/3/47
*NP-1753	Heat-Transfer Measurements in Nitrogen Sweat-Cooled Cylinder exposed to Radiation; Progress Report No. 4-105.	F. Myers Cal. Inst. of Tech.	6/24/49
*NP-1751	Analysis of Heat Transfer to Hydrogen Gas Flowing through Tubes having Constant Wall Temperature; Progress Report No. 1-63.	W. Powell Cal. Inst. of Tech.	
*NP-1755	Measurement of Droplet Sizes by the Diffraction Ring Method; Progress Report No. 3-18.	J. Schmidt Cal. Inst. of Tech.	7/27/50
*NP-1759	The Effect of Superposition of Stress-Raisers on Members Subjected to Static or Repeated Loads; Technical Report No. 18 on the Behavior of Materials under Repeated Stress	A. Mowbray, Jr. U. of Ill.	8/50
*NP-1765	An Internally, Electrically-Heated, Sintered Glass Filtration Disc, and a Sintered Glass Support for Fine Wire Heaters or Electrodes	A. Mack Naval Med. Res. Inst.	8/8/50
*NP-1780	The Mean Free Path of the N Component of the Cosmic Radiation	G. Salvini Princeton U.	

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*NP-1781	Final Report; The Ohio State Van de Graaff Generator Program	J. Cooper Ohio State Res. Found.	9/30/50
*NP-1785	Statement of Progress for the Month of September, 1950	J. Clark M.I.T. Dept. of Mech. Eng.	10/1/50
*NP-1794	A Study of an Analogous Model Giving the Non-Linear Characteristics in the Buckling Theory of Sandwich Cylinders	Chi-Teh Wang G. Rao N.Y. Univ.	
*NP-1795	A Numerical Method for the Solution of Plate Buckling Problems	W. Austin N. Newmark U. of Illinois	8/1/50
*NP-1825	Research in Nuclear Reactions with Fast Alpha Particles, Deuterons, and Neutrons and a Study of the Structure of Complex Nuclei; Final Report (Technical Report No. IV)	Purdue U.	10/1/50
*NP-1848	The Thickness of a Shock Front; Periodic Status Report No. 4; Summary for Period 1 December 1949 - 1 May 1950.	D. Hornig Brown U.	5/1/50
*NP-1852	Calculations Relative to the Thermal Entry Length for Fluids of Low Prandtl Number	R. Seban T. Shimazaki Div. of Eng. Res. U. of Calif.	1/10/50
*NP-1855	National Bureau of Standards Report of the Office of Basic Instrumentation for the Quarter ending September 30, 1950. (Report No. 2)	W. Wildhack Nat'l Bur. of Standards	9/50
*NP-1885	Geiger Counters; Time Lags; Project No. 141; Report No. 141-01.	S. Kitchen N. Y. Univ.	10/25/50

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*NP-1886	The Diffraction of Shock Waves through Obstacles with Various Openings in their Front and Back Surfaces (Report 50-3)	R. Duff R. Hollyer, Jr. Mich. U.	11/7/50
*NP-1891	The Influence of a Transverse Magnetic Field on the Conductivity of Thin Metallic Films; Technical Report No. 161	E. Sondheimer M.I.T. Res. Lab. of Electronics	5/31/50
*NP-1940	A Circular Slide Rule for High-Pressure Ionization Chamber Calculations	P. Normand Dept. of Mines and Tech. Surveys (Canada)	9/25/50
*NP-1941	Water Tunnel Vaned-Turn Studies	Penn. State Coll.	9/10/47
	Investigations for Design of Digital Calculating Machinery;		
*NP-3008	...Progress Report No. 3 Covering Period November 10, 1948 - February 10, 1949	H. Aiken, Dir. Computation Lab. Harvard U.	
*NP-3009	...Progress Report No. 4 Covering Period February 10, 1949 - May 10, 1949	H. Aiken	
*NP-3005	...Progress Report No. 5 Covering Period May 10, 1949 - August 10, 1949	H. Aiken	
*NP-3001	...Progress Report No. 7 Covering Period November 10, 1949 - February 10, 1950	R. Hofheimer J. Crawford	
	Quarterly Report;		
*NP-3016	...Second Quarterly Report for the Fiscal Year 1947-1948	Columbia Rad. Lab.	12/31/47
*NP-3011	...Period ending March 31, 1948	Columbia Rad. Lab.	3/31/48
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*NP-3013	...First Quarterly Report for the Fiscal Year 1948-1949	Columbia Rad. Lab.	9/30/48
*NP-3014	...Period ending December 31, 1948	Columbia Rad. Lab.	12/31/48
*NP-1738	...Fourth Quarterly Report for 1949-1950 (W-36-039-sc-32003)	Columbia Rad. Lab.	6/30/50
*NP-1858	...First Quarterly Progress Report for the Fiscal Year	Columbia Rad. Lab.	1/1/51
*NP-3017	On the Axisymmetric Problem of the Theory of Elasticity for an Infinite Region Containing Two Spherical Cavities	E. Sternberg M. Sadowsky Ill. Inst. of Tech.	1/1/51
*NP-3023	Proceedings of the International Conference on the Physics of Very Low Temperatures	Mass. Inst. of Tech.	
*NP-4939	Atomic Theory of Liquid Helium. Notas de Fisica No. 12	R. Feynman	7/21/53
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NAA-SR-246	Graphical Representation of the Activities from Pile- Irradiated Uranium	R. Koontz A. Jarrett	4/1/54
NP-1812	Pile-Produced Isotopes	Atomic Energy Proj. (Canada)	

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AERE CE/R 1314	The Shape of Ground Petroleum Coke Particles Part I.- Preliminary Investigations	T. Beirne J. Hutcheon	12/30/53
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UCRL-2495	A Linear, Transparent Beam Integrator	S. Kitchen	2/12/54
UCRL-2534	List of Unclassified Reports Received and Issued in the UCRL Information Division during the period of March 16-31, 1954		4/7/54
UCRL-2538	Polarization of Elastically Scattered Nucleons from Nuclei in the Born Approximation	W. Heckrotte	4/6/54