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Lawrence Radiation Laboratory
Berkeley, California

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LIST OF UNCLASSIFIED REPORTS RECEIVED AND ISSUED BY THE UCRL INFORMATION DIVISION DURING THE PERIOD OF FEBRUARY 1 - 15, 1959

February 16, 1959

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Lawrence Radiation Laboratory
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Berkeley, California

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Number	Title	Author	Date
	BIOSCIENCES		
[illegible]-tr-1979	Reaction of Skin After Long Wave X-Rays and After Cathode Rays, by Ernest Wilhelmy. Trans. from Strahlentherapie 55, 498-523 (1936).		
[illegible]-tr-2121	Irradiation Injury by Ionizing Radiations, by Hermann Muth. Trans. from Strahlentherapie 94, 527-38 (1954).		
[illegible]-2394	Estimation of Absorbed Radiation in Vivo, by Jan Müller and Marie Houšková. Trans. from Pracovní Lékařství 5, 191-8 (1953).		
[illegible]-tr-2464	Experimental Bases for the Therapy of Poisoning with Radioactive Substances, by Alexander Catsch. Trans. from Strahlentherapie 99, 290-300 (1956).		
[illegible]-2477	Microsynthesis of Various I^{131} Labeled Iodothyronines, by J. Roche, R. Michel, P. Jouan, and W. Wolf. Trans. from Société de Chimie Biologique, Paris. Bulletin 37, 819-29 (1955).		
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-2530	Staining of Acid Muco-Polysaccharides Separated by Paper Electrophoresis with Alcian 8 G. N., by C. Rissoli and M. A. Gliozzi. Trans. from Società Italiano di Biologia Sperimentale, Naples. Bolletina 31, 426-8 (1955).		
-3152	A Method for the Separation of Bone Marrow Cells by Means of Multilayer Centrifugation, by Eiichi Kimura, Yoshikata Nishikawa, and Iwao Enomoto. Trans. from Ôsaka Shiritsu Daigaku Igaku Zasshi 6, 234-40 (1957).		
-5934	Environmental Radioactivity at Argonne National Laboratory. Report for the Year 1957.	J. Sedlet	10-58
-767	Study of the Kinetics of Strontium Elimination in the Rat. (In French)	M. J. Guilloux, G. Michon France. Commissariat à l'Énergie Atomique, Paris	2-58
-58.1	Experimental Evaluation of the Radiation Protection Afforded by Residential Structures Against Distributed Sources.	J. A. Auxier, J. O. Buchanan, C. Eisenhauer, et al. Oak Ridge Nat'l Lab., Tenn. and Div. of Biol. and Medicine, AEC.	9-58
-1460	Test and Evaluation of Antiblast Valves for Protective Ventilating Systems. Project 31.5 of Operation Plumbob Preliminary Report.	F. C. Allen, A. M. Hatch, D. E. Keyt, et al. Federal Civil Defense Admin., Wash., D. C.	8-58
-2249	The Trichloroethylene-Saturated Water and the Tetra-Chloroethylene Chemical Dosimeter Systems. Preparation and Response to Gamma Radiation.	D. G. Ott	1-21-59

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[illegible]	The Haematological Basis for the Estimation of Radiation Shielding Precautions. Three Years of Radiation Haematological Research at the Czerny Hospital, Heidelberg University, by Rudolf Stodtmeister, Theodor M. Fliedner, and S. Sandkühler. Trans. from Strahlentherapie 101, 296-307 (1956).		
[illegible]-30	Enzyme Damage Caused by X-Rays, by Hedi Fritz-Niggli. Trans. from Radiologia Clinica 25, 358-70 (1956).		
[illegible]-431	Semi-Annual Progress Report for the Period Ending December 31, 1958.		
[illegible]A-432	A Granular Collector for Sampling Fallout Debris from Nuclear Detonations.	E. M. Romney, J. W. Neel, G. M. Le Roy, et al.	1-30-59
[illegible]DC-TN-55-427	A Device for the Indirect Recording of Blood Pressure.	G. D. Zuidema, R. Edelberg, E. W. Salzman Wright Air Development Center, Aero Med. Lab., Wright-Patterson AFB, Ohio	9-55
[illegible]DC-TN-55-427-[illegible] 2	A Device for the Indirect Recording of Blood Pressure. II. Research Uses.	G. D. Zuidema, R. Edelberg Same	12-56
[illegible]527	Temperatures from Underground Detonation, Shot Rainier. Project 26.3 [of] Operation Plumbob. Report to the Test Director.	T. C. Goodale, B. Ragent, A. H. Samuel, et al. Broadview Res. and Development, Burlingame, Calif. and California. Univ., Livermore. Radiation Lab.	7-58

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C-tr-2062 The Equilibriums of Uranium Oxides Between UO_2 and U_3O_8, by H. Hering and P. Perio. Trans. from Société Chimique de France, Paris. Bulletin 1952, 351-7.

C-tr-2065 Recent Work on the Chemistry of Uranium Oxides, by M. J. S. Anderson. Trans. from Société Chimique de France, Paris. Bulletin 1953, 781-8.

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[illegible]-57485	A Spot Test Procedure for Iron and Copper Inclusions in Aluminum Cans.	W. E. Stavig	11-17-58
[illegible]DO-14451	Continuous Dissolver Theory. II. Application of Tube-Flow Dissolver Theory to Data from a 2-Inch, Continuous Flooded Dissolver.	E. E. Erickson Phillips Pet. Co. Atomic Energy Div., Idaho Falls, Idaho	1-14-59
[illegible]DO-14454	The Partition of Uranium (VI) Between Tributyl Phosphate and Basic Aluminum Nitrate Solutions.	J. W. Codding, Jr. Sams	12-12-58
[illegible]O-1068	Preparation of Low Oxygen Content Yttrium Flouride.	M. Smutz, G. Burnet, J. Walker, et al. Ames Lab., Ames, Iowa	9-58
[illegible]240	Acoustic Gas Analyzer Development and Manufacture.	B. J. Gegardus, R. C. Titter Oak Ridge Gaseous Diffusion Plant, Tenn.	2-4-59

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[illegible]-2245	U^{233} Purification and Metal Production.	J. P. Bertino, J. A. Kircher	1-29-59
[illegible]-SR-3090	A Mechanism Study of the Oxide-Drossing of Cerium From Molten Uranium with Uranium Dioxide.	T. Smith	12-15-58
[illegible]A-SR-Memo-[illegible]389	Efficiency of NaK Bubblers in Reducing the Oxygen Contamination of Helium.	W. Bradshaw, M. Tarpinian	6-3-55
[illegible]CA-TN-4209	Experimental Thermal Conductivities of the $N_2O_4 \rightleftarrows 2NO_2$ System.	K. P. Coffin, C. O'Neal, Jr. Lewis Flight Propulsion Lab., Cleveland	2-58
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[illegible]S-5446	A Review of the Properties of Deuterium and Tritium Compounds.	V. R. Johnson	10-30-57
[illegible]A-38(Del.)	Determination of Nitrogen in Lithium.	N. I. Sax, N. Y. Chu, R. H. Miles, et al. Nuclear Development Corp. of America, White Plains, N. Y.	6-14-57
[illegible]CO-762	Laboratory and Pilot Plant Evaluation of Stanrock Uranium Concentrate.	N. R. Leist, C. T. Hicks, J. R. Nelli	1-26-59
[illegible]LCO-763	Laboratory and Pilot Plant Evaluation of Rayrock Uranium Concentrate.	N. R. Leist, C. T. Hicks, J. H. Krekeler, et al.	1-6-59
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[illegible]-770	Investigation of Hastings Flowmeter for Measuring the Flow Rate of Uranium Hexafluoride.	D. J. Stoneking, F. M. Teetzel	1-26-59
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NP-6716	Research on Growing of Cadmium Sulfide Crystals for Dosimeter Purposes. Quarterly Report No. 3 for Period October 14, 1957 to January 17, 1958.	J. E. Powderly, K. E. Bean Eagle-Picher Res. Labs. Mining and Smelting Div., Miami, Okla.	
NP-6723	Determination of the Relations Between Structure and Radiation Stability of Various Classes of Alkyl Aromatic Fluids.	D. Gray, Denver. Univ. Denver Research Inst.	4-58
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BNT-1310	Prototype Gages to Measure Plate Spacing in Flat Fuel-Plate Subassemblies.	N. E. Miller, C. V. Weaver, W. H. Goldthwaite	1-2-59
CRDC-718	Irradiation of Compacted and Sintered Uranium Oxide in the X-2 Loop Tests X-2-f and X-2-i.	R. F. S. Robertson, G. M. Allison Atomic Energy of Canada Ltd. Chalk River Project, Chalk River, Ont.	5-58
MISC-1959-25	The Effect of Nuclear Radiation on Magnetic Materials. Technical Memorandum No. 12.	J. F. Reid, J. W. Moody Battelle Memorial Inst. Radiation Effects Info. Center, Columbus, Ohio	12-31-58
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NAA-SR-74(Del.)	Cyclotron Irradiation of Type 347 Stainless Steel Welds in NaK at Elevated Temperatures.	A. A. Epp, Jr., R. D. Moeller, H. Pearlman North American Aviation, Inc., Downey, Calif.	1-7-53
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A-SR-Memo-1903	Graphite Experiments in the SRE.	W. K. McCarty, J. J. Gill	5-14-57
CA-TN-3786	Handbook of Structural Stability. Part VI. Strength of Stiffened Curved Plates and Shells.	H. Becker New York Univ., N. Y.	7-58
ACA-TN-3792	A Theoretical Analysis of Heat Transfer in Regions of Separated Flow.	D. R. Chapman Ames Aeronautical Lab., Moffett Field, Calif.	10-56
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CA-TN-4206	Measurements of Total Hemispherical Emissivity of Various Oxidized Metals at High Temperature.	W. R. Wade Langley Aeronautical Lab., Langley Field, Va.	3-58
CA-TN-4267	Preliminary Survey of Propulsion Using Chemical Energy Stored in the Upper Atmosphere.	L. V. Baldwin, P. L. Blackshear Lewis Flight Propulsion Lab., Cleveland	5-58
CA-TN-4276	An Approximate Analytical Method for Studying Entry Into Planetary Atmospheres.	D. R. Chapman Ames Aeronautical Lab., Moffett Field, Calif.	5-58

crocards

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RF-58-1T(Add.2)	Results of System Panels Test Number 2. Addendum 2.	Convair, Fort Worth, Tex.	1-6-58
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NAVDOCKS-P-290	Studies in Atomic Defense Engineering.	Bureau of Yards and Docks	1-57
NOA-2057.4-2	An Electrolytic Analog for Reactor Heat Transfer Problems.	P. Anthony, G. Friedensohn Nuclear Dev. Corp. of America, White Plain, N. Y.	3-1-57
NGTE/R-143	The Component Pressure Losses in Combustion Chambers.	H. A. Knight, R. B. Walker Gt. Brit. Nat'l Gas Turbine Establishment, Farnborough, Hants, England	11-53
NP-6691	Seaplane Hull Bottom Neutron Activation Study.	M. Zizza Grumman Aircraft Eng. Corp., Bethpage, N. Y.	3-58
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DC-TN-58-348	Experiments on Porous-Wall Cooling and Flow-Separation Control in a Supersonic Nozzle.	L. Green, Jr., K. L. Nall Same	12-58
DC-TR-58-610	Experimental Studies on Heat Transfer and Fluid Flow.	E. L. Geery, L. Green, Jr., W. R. Thompson Same	11-58

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DL-34	Uranium Dioxide.	W. B. Lewis, Atomic Energy of Canada Ltd., Chalk River, Ont.	12-58
DMIC-107	Tensile Properties of Titanium Alloys at Low Temperatures.	F. C. Holden, F. R. Schwartzberg, H. R. Ogden Battelle Memorial Inst. Defense Metals Info. Center, Columbus, Ohio	1-15-59
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NAA-SR-3170	Diffusion of Beryllium in Beryllium Oxide.	S. B. Austerman	12-15-58
*NACA-TN-4329	Influence of Heat Treatment on Microstructure and High-Temperature Properties of a Nickel-Base Precipitation-Hardening Alloy.	R. F. Decker, J. P. Rowe, W. C. Bigelow, et al. Michigan. Univ., Ann Arbor	7-58
*NAVORD-1183	The Behavior of Metal Under High and Rapidly Applied Stresses of Short Duration.	J. S. Rinehart Naval Ordnance Test Sta., Inyokern (China Lake), Calif.	9-27-49
*NBS-5899	Oxidation of Experimental Alloys. Part XI. Nickel-Molybdenum Alloy.		5-58
*NMI-1157	Oxidation Resistance of Niobium-Base Alloys.	H. J. Cleary	7-13-56
*NMI-1203	Final Report on the Fabrication of Fuel Test Rabbits for Phillips Petroleum Company.	T. Tarpey, P. Loewenstein	5-6-58
*NMI-1204	Textures in Extruded Uranium.	R. B. Russell	5-27-58
*NP-6707	Research on the Lubrication of Titanium. Quarterly Progress Report No. 6 [for] December 15, 1957 to March 14, 1958.	N. Fatica Clevite Res. Center, Cleveland	4-1-58
*NP-6712	A Study of Theories of Fracture Under Combined Stresses.	I. Cornet, R. C. Grassi Calif. Univ., Berkeley. Inst. of Eng. Research	2-58
*NP-6718	Investigation of High Temperature Resistant Materials. Quarterly Report No. 11 [for] February 1, 1958 to April 30, 1958.	J. D. Walton, C. R. Mason Georgia Inst. of Tech., Atlanta. Eng. Exper. Sta.	

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*NP-6727	Research and Development of Procedures for the Joining of Similar and Dissimilar Heat-Resisting Alloys by Ultrasonic Welding.	N. E. Ware, R. E. Monroe, J. N. Antonevich, et al. Battelle Memorial Inst. Columbus, Ohio	4-15-58
*NP-6729	Corrosion of Titanium and Titanium-Base Alloys in Liquid and Gaseous Fluorine.	G. L. Ericson, W. K. Boyd, P. D. Miller Same	4-30-58
*NP-6733	Analysis for Diffusion During Plastic Deformation. Technical Report No. 1.	J. Simmons, J. E. Dorn Calif. Univ., Berkeley. Minerals Res. Lab.	1-24-58
*NP-6759	Brittleness in Metals. Preprints of Papers for a Conference to be Held at Culcheth Laboratories on 1st November, 1957.	U.K.A.E.A. Industrial Group. Culcheth Labs., Culcheth, Lancs, England	10-57
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ORNL-54-11-125	Proposal for a 48-inch Heavy-Particle Cyclotron.	ORNL, Tenn.	2-55
ORRP-765	The Thermal Neutron Temperature in NRX Self-Serve Positions S-3-5- and S-6-3.	C. B. Bigham Atomic Energy of Canada Ltd. Chalk River Project, Chalk River, Ont.	9-58
LA-2256	Numerical Study of the Motions of Variously-Shaped Slabs Accelerated by a Hot Gas.	F. H. Harlow, D. O. Dickman	1-26-59
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