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Lawrence Radiation Laboratory
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LIST OF UNCLASSIFIED REPORTS RECEIVED AND ISSUED BY THE UCRL INFORMATION DIVISION DURING THE PERIOD OF APRIL 1 - 15, 1959

April 16, 1959

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Number	Title	Author	Date
	BIOSCIENCES		
AEC-tr-3494	Isotopes in Microbiology. Transactions of the Conference on the Application of Tracer Atoms in Microbiology, by A. A. Imshenetskii, ed. Trans. of a monograph issued by Akademiia Nauk S.S.S.R. Institut Mikrobiologii, 1955.		
AERE-C/M-371 (Rev.)	Removal of Radio-Active Iodine from Milk.	E. Glueckauf, P. Cosslett, R. Watts	1-59
AERE-EL/R-2590	The Phosphate Glass Dosimeter.	D. H. Peirson	5-58
AERE-HP/R-2790	The Deposition of Long-Lived Fission Products from Nuclear Test Explosions. Results Up to the Middle of 1958.	N. G. Stewart, R. G. D. Osmond, R. N. Crooks, et al.	1-59
AERE-HP/R-2795	A Preliminary Survey of Radiostrontium and Radiocaesium in Drinking Water in the United Kingdom.	N. G. Stewart, R. N. Crooks, R. G. D. Osmond, et al.	1-59
AERE-Med/R-2781	The Determination of Alpha and Beta Activity in Rain Water with Pulse Analyser Type 1414 A and Flow Counter Type 3-7/11559 Respectively.	W. P. Hutchinson	12-58
AERE-NP/R-2768	Radioactivity of Synchrocyclotron Cooling Water.	B. A. Goddard, B. A. Loveridge, B. Rose, et al.	10-58

AF-SAM-57-59	Latent Effects of Chronic Whole-Body Irradiation of Monkeys with Mixed Source Radiation.	R. T. Davis, C. B. Elam, A. A. McDowell Texas. Univ., Austin and School of Aviation Medicine, Randolph AFB, Tex.	2-58
AF SAM-58-47	The Effect of Whole-Body Radiation Upon Association of Peripheral Cues.	W. L. Brown, R. M. Carr, J. E. Overall Texas. Univ., Austin	11-5-57
*AF-SAM-58-51	Lethality in the Rat as a Function of Dose Pattern.	Q. L. Hartwig, G. S. Melville, T. P. Leffingwell Texas. Univ., Austin. Radiobiological Lab.	11-18-57
*AF-SAM-58-58	Some Effects of Nuclear Radiation Exposure on the Rhesus Monkey.	A. A. McDowell, W. L. Brown Same	12-4-57
*AF-SAM-58-59	Iron-59 Metabolism as an Index of Hematopoietic Damage and Recovery in Monkeys Exposed to Nuclear Radiation.	Q. L. Hartwig, G. S. Melville, T. P. Leffingwell, et al. Same	12-4-57
*AF-SAM-58-72	The Relative Biologic Effectiveness of X-Rays, and Fast Neutrons int he Production of Weight Loss of the Small Intestine of the Mouse.	M. A. Patetta-Quairolo, M. L. Randolph, J. A. Sproul Oak Ridge Nat'l Lab., Tenn.; and School of Aviation Medicine, Randolph AFB, Tex.	1-17-58
*AF-SAM-58-73	A Comparison of Normal and Irradiated Monkeys on an Oddity-Reversal Problem.	A. A. McDowell, W. L. Brown, Texas. Univ., Austin and School of Aviation Medicine, Randolph AFB, Tex.	1-17-58

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AF-SAM-58-96	Iron Metabolism in the Polycythemia of High Altitudes.	C. Reynafarje, Rodolfo Lozano, J. Valdivieso Institute of Andean Biology, Lima and School of Aviation Medicine, Randolph AFB, Texas	9-58
AF-SAM-58-97	Basal Metabolic Rate, Body Composition, and Creatinine Excretion at High Altitudes.	E. Picón-Reátegui Same	11-58
AF-SAM-58-114	The Propagation of Duck Hepatitis Virus in Tissue Culture.	M. Pollard, T. J. Starr Texas. Univ., Galveston. [Tissue Culture Lab], and School of Aviation Medicine, Randolph AFB, Texas	1-59
AF-SAM-58-122	Harmonic Distortion in Cochlear Models.	J. Tonndorf Iowa. State Univ., Iowa City. University Hospitals. and School of Aviation Medicine, Randolph AFB, Texas	11-58
AF-SAM-58-124	A Photosynthetic Gas Exchanger Capable of Providing for the Respiratory Requirement of Small Animals.	R. D. Gafford, C. E. Craft School of Aviation Medicine, Randolph AFB, Texas	1-59
AF-SAM-58-129	Localization of Aural Harmonics Along the Basilar Membrane of Guinea Pigs.	J. Tonndorf Iowa. State Univ., Iowa City. Univ. Hospitals and School of Aviation Medicine, Randolph AFB, Texas	11-58
AF-SAM-58-134	Some Considerations in AGAR Column Diffusion Analyses.	W. G. Glenn School of Aviation Medicine Randolph AFB, Texas	2-59

AF-SAM-58-140	The Effect of Thyroid Hormones and Temperature on the Kinetics of Contraction and Relaxation of Ventricular Heart Muscle.	W. R. Brewster, Jr., James P. Isaacs, P. F. Osgood, et al. Harvard Univ., Boston. Medical School. Anesthesia Lab. and Copper Notch Research Inst., Leavenworth, Wash. and School of Aviation Medicine, Randolph AFB, Texas	11-58
AF-SAM-58-142	The Effects of Ionizing Radiation Upon the Transposition of Discrimination Habits of Rhesus Monkeys.	G. Gentry, W. L. Brown, J. E. Overall Texas. Univ., Austin and School of Aviation Medicine, Randolph AFB, Texas	11-58
AF-SAM-58-146	Learning of Sequential Response Alternations by Albino Rats.	J. E. Wicker, J. E. Overall, W. L. Brown Same	12-58
AF-SAM-58-149	Visual Acuity Performance of Normal and Chronic Irradiated Monkeys.	W. L. Brown, A. A. McDowell Same	11-58
AF-SAM-58-154	The Concepts of Weight and Stress in Human Flight.	O. L. Ritter, S. J. Gerathewohl School of Aviation Medicine, Randolph AFB, Texas	1-59
AF-SAM-59-1	Toxicologic Studies with Didymium Nitrate as Modified By Site of Injection and Whole-Body Irradiation.	G. S. Melville, Jr., T. P. Leffingwell, Q. L. Hartwig Same	11-58

AF-SAM-59-5	Visual Acuity Performance of Normal and Chronic Focal-head Irradiated Monkeys.	A. A. McDowell, W. L. Brown Texas. Univ., Austin and School of Aviation Medicine, Randolph AFB, Texas	12-58
AF-SAM-59-11	Transposition of Response to the Intermediate-Size Stimulus in Rhesus Monkeys.	G. Gentry, J. E. Overall, W. L. Brown Same	1-59
AF-SAM-59-12	"Absolute" Versus "Relational" Discrimination of Intermediate Size in the Rhesus Monkey.	W. L. Brown, J. E. Overall, G. Gentry Same	1-59
AF-SAM-59-13	Influence of Long-Term Exposure to Adverse Environments on Organ Weights and Histology.	H. B. Hale, R. B. Mefferd, Jr., G. Vawter, et al. School of Aviation Medicine, Randolph AFB, Texas and Texas. Univ., Austin. Clayton Foundation Biochemical Inst.	1-59
AF-SAM-59-15	Plasma Corticosteroid Levels in Aircrewmen After Long Flights.	H. B. Hale, C. H. Kratochvil, J. P. Ellis, Jr. School of Aviation Medicine, Randolph AFB, Texas	12-58
AF-SAM-59-17	Studies on the Mechanism of Leukemogenesis by Ionizing Radiation.	A. C. Upton ORNL, Tenn. and School of Aviation Medicine, Randolph AFB, Texas	1-59
AF-SAM-59-24	Modifications of the Reddy Method for the Estimation of 17-Hydroxycorticoids in Blood.	J. R. Prigmore, I. L. Shannon, R. P. Feller School of Aviation Medicine, Randolph AFB, Texas	1-59

*F-SAM-59-32	Detection of Certain Serologic Imbalances in Human Sera by AGAR Column Analyses.	W. G. Glenn, A. H. King, I. W. Marable School of Aviation Medicine, Randolph AFB, Texas	2-59
*F-SAM-59-52	Effect of Repeated Whole-Body X-Irradiation on the Peripheral White Blood Cell Count on Rabbits.	H. B. Gerstner, H. A. Gorman Same	2-59
AFSWC-TN-57-22	The Internal Dose to Various Organs as a Function of Isotopic Composition of the Fission Products in a Reactor with a Specific History of Operation.	J. O. Alderman, K. C. Humpherys Air Force Special Weapons Center, Kirtland AFB, N. Mex.	5-57
*AFSWC-TN-57-30	Limits for Radiation Control and Release of Air Force Material Contaminated with Fission Products.	J. L. Dick, W. R. Hurdlow Same	4-58
CEA-825	Experimental Apparatus for Protection Study. Reprinted from Industries Atomiques 1958, no. 3/4, 1-4. (In French)	J. Bourgeois, P. Lafore France. Commissariat à l'Énergie Atomique, Paris	1958
CEA-841	Study of Iodine Metabolism by an "Isotopic Equilibrium" Method; Determination of the Iodized Fractions in Different Physiological States. Reprinted from Société de Biologie et de ses Filiales, Paris. Comptes Rendus des Séances 151, 1311-4 (1957). (In French)	C. Simon, F. Morel Same	1958
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*IGR-TN/W-658	A Biological Investigation of the Fate of Strontium 90 in a Disused Filter Bed.	E. E. Foreman, K. W. E. Bidwell Same	10-57
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*NP-6925	Radioactive Contamination, Decontamination and Waste Disposal: Water Supplies: Liquid Wastes. Library Information Bulletin No. 40.	Australia. Commonwealth X-Ray and Radium Lab., Melbourne	7-58
NP-7103	Measurements of Radioactive Fall-Out and Airborne Radioactivity in Warsaw and Cracow During the Year 1957.	Poland. Drajowy Komitet Ochrony Radiologicznej, Warsaw	1958
ONRL-15-59	Medical Education and Aspects of Biological Research in Egypt.	H. E. Page Office of Naval Research, (London)	2-12-59
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ORO-183	Semi-Annual Progress Report for July 1, 1958 to December 31, 1958.	Tenn. Univ., Knoxville, Agricultural Res., Lab.	3-59
RDB(W)TN-74	A Portable Gamma Radiation Beacon.	J. A. Mounsey U.K.A.E.A. Industrial Group. Windscale Works, Sellafield, Cumb., England	5-53
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RDB(W)TN-113	The Effect of Ultrasonic Agitation on Surface Decontamination Rates.	J. L. Linsley-Hood U.K.A.E.A. Industrial Group. Windscale Works, Sellafield, Cumb., England	12-53
RDB(W)TN-146	Further Experiments on the Rapid Detection of Plutonium Dusts in Air.	G. M. Wells, Same	6-54
RDB(W)TN-187	The Uptake of Zirconium^{95} and Niobium^{95} By Porphyra SP.	E. E. Foreman, W. L. Templeton Same	2-55
RISLEY-5006/90	Industrial Toxicology Review. Vanadium and Its Compounds.	A. Butterworth U.K.A.E.A. Industrial Group H. Q., Risley, Lancs, England	8-7-54
UCLA-436	Lipid Synthesis by Ascites Tumor Cells.	D. L. Fillerup, J. F. Mead	3-23-59
USNRDL-TR-293	The Effects of Total Body Irradiation of Dogs with Simulated Fission Neutrons.	E. L. Alpen, O. S. Shill, E. Tochilin	12-16-58
USNRDL-TR-296	Lethal Graft Versus Host Reaction Induced in X-Irradiated F_1 Hybrids by Parental Strain Leukocytes.	L. J. Cole, R. M. Garver, J. P. OKunewick	2-10-59
USNRDL-TR-297	Studies on Transfer of Antibody Formation by Iso- and Hetero-Transplants.	P. H. Chin, M. S. Silverman	2-9-59
USNRDL-TR-298	The Relation of the Metabolism of Sulfobromophthalein Sodium to its Blood Clearance in the Rat.	J. S. Krebs	2-18-59
USNRDL-TR-299	Gastrointestinal Function During Exposure to X-Rays.	D. C. Jones, D. J. Kimeldorf	2-18-59

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USNRDL-TR-301	Liver Lymph Formation, Fluid Compartment in the Liver and Ascites Formation.	R. W. Brauer	2-10-59
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AERE-C/R-2721	Preliminary Polarographic Studies on the Nature and Stability of the Complexes of Neptunium-IV and Neptunium-III with Ethylene Diamine Tetra Acetic Acid.	E. N. Jenkins	12-58

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AERE-C/R-2776	Isotopic Analysis of Plutonium and Uranium by Mass Spectrometer.	A. H. Turnbull, D. F. Dance	12-58
AERE-C/R-2791	The Determination of Uranium by Square Wave Polarography.	G. W. C. Milner, J. H. Nunn	12-58
AERE-I/R-2693	The Separation and Purification of Krypton 85 at the Multi-Curie Level.	E. J. Wilson, K. J. Taylor	12-58
AERE-I/R-2773	The Choice of Counting Equipment	B. H. Parks	12-58
AERE-Lib/Trans-804	Water and Steam Contents in Surface Boiling of Water, by P. G. Poletavkin and N. A. Shapkin. Trans. from Teploenergetika 5, no. 4, 54-8 (1958).		
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AERE-R/R-2762	Measurement of the Density of "Santowax R", Para-, Meta-, and Ortho-Terphenyl, Diphenyl and Dowtherm A.	R. W. Bowring, D. A. Garton	12-58
*AFOSR-TN-58-97	Theoretical and Experimental Investigations of the Atomic Phenomena Occurring on and Near the Surfaces of Solids. Technical Report No. 6 [on] an Ultra-High Vacuum Mass Spectrometer for the Study of the Surfaces of Solids.	R. C. Bradley Cornell Univ., Ithaca, N. Y.	3-1-58
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*AFOSR-TN-58-515	Some Studies of the Interaction of Cobalt and Nickel with Titanium Diboride. Report No. 81.	T. A. Willmore, D. G. Bennett Illinois. Univ., Urbana	4-58
*AFOSR-TN-58-543	The Parmagnetic Resonance Spectrum of Gadolinium in Hydrated Lanthanum Trichloride. Technical Note No. 2.	M. Weger, W. Low Hebrew Univ., Jerusalem	5-58
*AFOSR-TR-58-1095	Rare Earth Oxides. III. The Heat Capacities of Yttrium Oxide (Y_2O_3), Lanthanum Oxide (La_2O_3) and Neodymium Oxide (Nd_2O_3) from 16 to 300° K. Technical Report No. 3.	H. W. Goldstein, E. F. Neilson, P. N. Walsh, et al. Ohio State Univ. Research Foundation, Columbus	10-58
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CEA-829	Determination of Certain Elements in Minerals by Paper Partition Chromatography. Reprinted from Société Française de Minéralogie et de Cristallographie, Paris. Bulletin 80, 181-93 and 275-92 (1957). (In French)	H. Agrinier France. Commissariat à l'Énergie Atomique, Paris	1958
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*CRCE-743	Study of the Process Variables in the Anion Exchange Plutonium Separation Process.	D. T. Nishimura Atomic Energy of Canada Ltd. Chalk River Project, Chalk River, Ont.	11-57
CRDC-818	The Chemistry of the Anion Exchange Process for the Recovery of Plutonium.	R. G. Hart, J. A. Brothers, I. W. Allam Same	12-58
DL(S)TN-2010	The Removal of Peroxides from Ether.	J. A. Dukes U.K.A.E.A. Industrial Group. Springfields Works, Springfields, Lancs, England	12-13-51
DP-316	Analysis for Np^{237} in Nitric Acid Solutions.	B. B. Murray	9-58
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DP-342	A Gamma Monitor for Liquid Streams.	E. C. Wingfield	12-58
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UCRL-8403	A Comparison to Theory of Observed Stability Failures of Thin Spherical Shells.	G. E. Cook	8-8-58
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UCRL-8558	Bubbling from Perforated Plates. (Thesis)	R. S. Brown	12-58
UCRL-8573	A Study of the Effects of Elevated Temperatures on the Growth and Inheritance of Saccharomyces Cerevisiae. (Thesis)	F. Sherman	11-58
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