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Radiation Laboratory  
Berkeley, California

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LIST OF UNCLASSIFIED REPORTS RECEIVED AND ISSUED IN THE UCRL  
INFORMATION DIVISION DURING THE PERIOD OF JULY 1-15, 1955

July 18, 1955

Printed for the U. S. Atomic Energy Commission

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.

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LIST OF UNCLASSIFIED REPORTS RECEIVED AND ISSUED IN THE UCRL  
INFORMATION DIVISION DURING THE PERIOD OF JULY 1-15, 1955

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

July 18, 1955

<u>Index Number</u>	<u>Title</u>	<u>Author</u>	<u>Date</u>
<u>BIOSCIENCES</u>			
*AD-7151	Evaluation Studies of Colorimetric and Conductimetric Dosimeters. Monthly Progress Report No. 12	M.E. Johnson J.C. Swartz A.R. Hamilton Distillation Products, Inc., Rochester, N.Y.	4-15-53
*AD-7152	Evaluation Studies of Colorimetric and Conductimetric Dosimeters. Final Report	Distillation Products Inc., Rochester, N.Y.	4-15-53
*AD-41950	The Determination of Viable Particle Size Distribution. A New Application of the Conifuge. Interim Report No. 73	F.R. Olson J.F. Lee Chemical Corp. Biological Labs., Camp Detrick, Md.	6-54
*AECU-3016	Second Conference on Radiation Cataracts and Neutron Effects for the United States Atomic Energy Commission. Abstracts of Papers	National Research Council, Div. of Medical Sciences	12-8-50
*AECU-3017	Third Conference on Radiation Cataracts for the United States Atomic Energy Commission. Abstracts and Proceedings	Same	1-28-52
*AECU-3018	Fifth Conference on Radiation Cataracts for the United States Atomic Energy Commission. Abstracts and Proceedings	Same	3-26-54
*AECU-3019 *Microcards	Fourth Conference on Radiation Cataracts for the United States Atomic Energy Commission. Abstracts and Proceedings	Same	2-28-53

*AERE-HP/M-53	A Device for Testing Film-Badge Holders for Alpha and Beta-Gamma Contamination	L.W.D.Pittendrigh Gt. Brit. Atomic Energy Research Estab. Harwell, Berks, England	7-53
AMRL-182	Blood Pressure In Normotensive and Renal Hypertensive Dogs Following Hypothalamic Ablations and Neurohypophysectomy	J.Frieden A.D.Keller	11-18-54
*AMRL-175	Adaptation to Ionizing Radiation	A.T.Krebs J. B.Storer	2-2-55
*AMRL-178	Further Studies of the Effect of Partial Shielding By Grids on Survival of X-Irradiated Animals	J.G.Keriakes T.A.O'Neill	3-4-55
AMRL-181	Cooling Gradient Calorimetry IV. Further Studies on Effect of Position Change and Skin Temperature Relationship	P.B.Reaser P.D.Alena J.N.Wettlaufer	2-21-55
AMRL-185	Transport of Cortisol- $4-C^{14}$ and Progesterone- $4-C^{14}$ by Serum Albumin as Demonstrated by Paper Electrophoresis and Paper Chromatography	U.F.Westphal H.E.Pirschein E.M.Pearce	3-4-55
AMRL-186	Cooling Gradient Calorimetry V. Relationship Between Calorimeter Heat Removal and the Rate of Heat Loss by Digits	P.B.Reaser L.McNamara J.B.Scott	3-4-55
AMRL-189	The Spectral Reflectance of Human Skin in the Region 0.7-2.6 $\mu$	J.A.Jacquez J.Huss W.McKeehan, et al	3-15-55
AMRL-190	Interaction Between Cortisol- $4-C^{14}$ or Progesterone- $4-C^{14}$ Serum Albumin as Demonstrated by Ultracentrifugation and Electrophoresis	U.F.Westphal	3-17-55
AMRL-193	The Spectral Reflectance of Human Skin in the Region 235-700 mu	J.A.Jacquez H.F.Kuppenheim J.M.Dimitroff, et al	4-1-55
*BNL-2242	Atmospheric Diffusion Formulae and Practical Pollution Problems	M.E.Smith	3-2-55
*Microcards			

*BNL-2255	The Effect of Chronic Gamma Radiation on the Production of Somatic Mutations in Carnations	A.Richter W.R.Singleton	1955
*BNL-2275	Gamma Ray Initiated Polymerization of N-Vinylpyrrolidone	D.Ballantine A.Glines B.Manowitz	1955
*BNL-2284	Sampling Periods in Air Pollution Evaluations	M.E.Smith I.A.Singer	3-15-55
*BR-469	The Determination of U in Urine. A Proposed Modification and Some Notes on the Method	A.G.Jones Gt. Brit.	
HW-36478	A Doorway Monitor	D.A.Campbell L.D.Test	4-29-55
LA-1909	Instruments for the Monitoring of Tritium in the Atmosphere	B.C.Eutsler G.L.Evans R.D.Hiebert, et al	4-55
UCLA-336	The Plasma Lipids Following X-Irradiation	D.L.Fillerup W.H.Slaton, Jr. J.F.Mead	6-8-55
UR-388	Studies of Flash Burns: The Influence of Transmittance of Fabrics on Protectivity	G.Mixter, Jr. L.J.Krolak	6-10-55
UR-393	The Long Term Retention and Distribution of Polonium <sup>210</sup> in the Rat	J.N.Stannard	6-16-55
UR-395	The Effects of a Maintained Body Burden of Polonium in the Rat. III. Mortality, Life Span, and Growth	J.N.Stannard H.A.Blair R.C.Baxter	6-16-55
USNRDL-TR-44	Effects of X Irradiation on Lipid Metabolism III. Dog Serum Lipoproteins	W.H.Goldwater C.Entenman	4-7-55

CHEMISTRY

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*AD-29764	Research on a New Class of Inorganic Compounds Capable of Polymerizing into Useful Structural Materials. Final Report [for] March 1, 1953 to February 28, 1954	I.Hornstein Chicago Dev. Corp.
*AD-35353	Research and Development on High-Frequency Fields for Chemical Analysis. Technical Report No. 3 [for Period] Sept. 16, 1953 - June 15, 1954 A High and Low Frequency Conductometric Study of Some Reactions of Boron Tri-fluoride Etherate	J.A.Gibson, Jr. J.L.Hall H.O.Phillips, et.al West Virginia Univ., Morgantown
*AD-38860	Research on the Size and Shape of Large Molecules and Colloidal Particles. Technical Report No. 9. Tables of Scattering Functions for Spherical Colloidal Particles III. ( $\alpha = 8.0$ (1.0) 15.0; $M = (1.05, 1.10, 1.30)$ )	W.Heller Wayne Univ., Detroit. Computation Lab. 8-15-54
*AECU-3024	The Ammonium Carbonate Leaching of Uranium Ores Proposed as Feed to the Pilot Plant at Grand Junction, Colorado. Progress Report.	C.M.Wheeler B.G.Langston F.M.Stephens, Jr. Battelle Memorial Inst., Columbus, Ohio 4-15-55
*AERE I/M-9	The Conversion of Thallium 204 From Thallous Nitrate to An Acid Solution of Thallic Sulphate at the Curie Level of Activity	W.J.Arrol J.Chadwick J.Bakins Gt. Brit. Atomic Energy Research Estab. Harwell, Berks.England 8-20-51
*AERE M/R-1152	The Purification of Sodium by Vacuum Distillation	G.W.Horsley Same 5-12-53
*BIOS-FR-673	Production of Krypton-Xenon Mixture	C.R.Houseman British Intelligence Objectives Sub- Committee

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BMI-282	Progress Report on the Ammonium Carbonate Pressure Leaching of Uranium Ores Proposed as Feed to the Pilot Plant at Grand Junction, Colorado	C.M.Wheeler B.G.Langston F.M.Stephens, Jr.	6-15-55
BNL-340(T-59)	Chlorine-36 in Nature	R.Davis, Jr. O.A.Schaeffer	6-55
BNL-341(T-60)	Preparation of Fused Clay Radiation Sources. I. Yttrium Macrospheres	W.S.Ginell R.Doering	6-55
*BR-305	The 1000 AMP. Fluorine Cells. L.T.Mark I. April, 1942 - July 1943	W.L.Congreve Imperial Chemical Industries, Ltd. General Chemical Group., Widnes, Lancs, England	10-6-43
*BR-397A	Memorandum on American Tests on Fluorocarbon Lube Oils	J.R.Park Imperial Chemical Industries, Ltd. Billingham Div., Billingham, England	3-16-44
MISC 1955-82	Effect of the Size and Structure of Radicals Present in Phosphorus Esters on the Rate of Isomerization of These Substances Akademia Nauk, SSSR, Doklady, 92 pp 57-60 (1953)	A.E.Arbuzov L.V.Nesterov	1954
MISC 1955-93	The Mechanical Behavior of Polyacrylonitrile Fibers in the Presence of an External Plasticizer (Water) Tech. Rpt. XLIX	C.E.Reese A.L.Ruoff H.Eyring Utah Univ.	4-15-55
ORNL-1742	Radio-Frequency Oscillators for Determination of Alkali	R.W.Stelzner M.T.Kelley	6-27-55
ORNL-1827	Application of the Volhard Titration to the 2-Ethyl-1-Hexanol Separation Method for the Determination of Lithium	J.C.White G.Goldberg	6-27-55
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ORNL-1899	The Determination of Water by Coulometric Titration	A.S.Meyer, Jr. C.M.Boyd	5-20-55
ORNL-1900	Chemistry in the Electromagnetic Separation of Platinum Isotopes	W.C.Davis C.W.Sheridan	5-17-55

ENGINEERING

*AECU-2997	On The Stability of Fluid Flows With Spherical Symmetry	M.S.Plesset RAND Corp., Santa Monica, Calif.	4-15-53
HE-150-128	Fluid Flow and Heat Transfer at Low Pressures and Temperatures New Experiments on Cone Drag in a Rarefied Gas Flow	D.C.Ipsen Calif. Univ.Berkeley Inst. of Eng. Research	4-55

GEOSCIENCES

*AECU-2861	The Geology of the Eastern Half of the Diamond Butte, Quadrangle Gila County, Arizona	R.G.Gastil Calif. Univ.	1950
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METALLURGY AND CERAMICS

*AD-34434	The Effect of Different States of Stress on the Fatigue of Materials with Correction for Anisotropy; and the Basic Laws of Governing Failure Under Combined Stress. Technical Report No. 5. Modified Theories of Fatigue Failure Under Combined Stress	W.N.Findley P.N.Mathur Illinois Univ.	5-54
*AD-35043	High Strength Wrought Mg Alloys. Part A. Work Softening - Anneal Hardening Characteristics of Mg-Base Alloys Containing Th, MM, Ca, Mn, And Zr. Part B. Cold Working Characteristics of Binary Mg Alloys. Final Report [for] June 30, 1952 - December 31, 1953	Dow Chem. Co.	
*AD-37293	Aluminum Powder Metallurgy. Progress Report for Fifth Quarter, November 24, 1953 to February 23, 1954	F.V.Lenen A.B.Backensto M.V.Rose Rensselaer Polytechnic Inst.	3-31-54
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*AD-37294	Aluminum Powder Metallurgy. Progress Report for Sixth Quarter, February 24, 1954 to May 23, 1954	F.V.Lenel M.V.Rose A.B.Backensto, et al Rensselaer Polytechnic Inst.	6-17-54
*AD-37295	Aluminum Powder Metallurgy. Annual Summary Report for Period November 24, 1952 to November 23, 1953	F.V.Lenel A.B.Backensto M.V.Rose, et al same	2-24-54
*AD-37311	Research on Mechanical Properties of Sintered Aluminum Powder. I. Wrought Nickel-Aluminum Products for High Temperature Use. II. Oxide-Metal Structure Studies. Progress Report No. 6 for the Period January 1954 to April 1954	W.Cremens O.Preston N.J.Grant Mass. Inst. of Tech., Cambridge	
*AD-37801	The Hexagonal Structure in Thin Films of Nickel (thesis)	C.G.Deese North Carolina State Coll., Raleigh	1954
*AD-51831	High Temperature Resistant Ceramic Coatings, Ceramic and Metal Ceramic Bodies. Quarterly Progress Report No. 2 [Covering the Period June 26, 1954 to September 26, 1954]	C.L.Hoenig T.A.Willmore W.J.Plankenhorn, et al Illinois Univ., Urbana	9-26-54
*AERE-M/R-1208	The System Uranium-Mercury	B.R.T.Frost Gt. Brit. Atomic Energy Research Estab., Harwell, Berks, England	6-29-53
*AERE X/M-116	The Crystal Structure of $TiU_2$	A.G.Knapton Same	10-2-53
*AF-TR-6086	Ceramic Materials of Construction for Rocket Motors (Report No. 74)	J.M.Lepp J.F.Lynch J.A.Slyh, et al Battelle	9-50

\*Microcards

*AF-TR-6087	NiAl - Alumina Cermets; Report No. 57	W.C.Leslie Ohio State Univ.	10-50
*AF-TR-6092	The Fatigue Strength and Fatigue Life of Uncoated and Coated Specimens of 18-8 Stainless Steel Type 347 (Report No. 49)	R.C.Womeldorph W.J.Plankenhorn D.G.Bennett Illinois Univ., Urbana	10-50
*AF-TR-6383	Research on the Element Silicon and Silicon Alloys	W.R.Johnson M.Hansen Illinois Inst. of Tech.	6-51
ANL-5229	Anodizing As A Means of Evaluating the Corrosion Resistance of Zirconium and Zirconium Alloys	R.D.Misch	12-53
*ATI-57659	Refractory Oxide Bodies and Coatings for Aircraft Power Plants; Report No. 1; Refractory Oxide Bodies (First Quarterly Report).	J.M.Neff J.S.Griffith Illinois Inst. of Tech., Chicago. Armour Research Foundation	5-15-49
*BIOS-FR-458 (App.)	Appendix to Report on the Ceramic Industry in Germany	J.G.Phillips British Intelligence Objectives Sub-Committee	
*BIOS-FR-706	Metal Powders (Sintered)	B.P.R.Parsons E.H.Mehl S.J.Grunspan, et al Same	2-46
*BM-RI-5126	Ultrasonic Inspection of ARC-Cast Zirconium and its Alloys	F.W.Wood J.O.Borg Bureau of Mines	3-55
BMI-1004	Electroplated Metals on Niobium	J.G.Beach C.L.Faust	5-24-55
*Microcards			

BMI-1006	Embrittlement of Multipass Welds in Zircaloy 2	J.T.Niemann R.P.Sopher	6-14-55
MISC 1955-19 #36	Thirty-Sixth Quarterly Report to Sponsors of the Institute for the Study of Metals	Chicago.Univ.	3-55
MISC 1955-88	Mechanism of Intercrystalline Fracture	H.C.Chang N.J.Grant Massachusetts Inst. of Tech., Cambridge	
MISC 1955-89	I. Deformation Studies of Metals at Elevated Temperatures II. The Iron-Chromium-Nickel Ternary System III. Effect of Structure and Composition of the Strength Properties of Stainless Steel IV. Effect of Cold Work on the Strength Properties of Stainless Steels PERIODIC STATUS REPORT NO. 11 February 1955-April 1955	N.J.Grant H.C.Chang P.E.Price, et al Mass. Inst. of Tech.	
MISC 1955-90	The Effect of Composition and Structure on the Creep Rupture Properties of 18-8 Stainless Steels	F.C.Monkman P.E.Price N.J.Grant Mass. Inst. of Tech.	
MISC 1955-91	Aging in Barium Titanate Ceramics Technical Report No. 4	D.Berlincourt Brush Labs., Co. Cleveland	3-30-55
MISC 1955-92	Polarization of Thick Ceramic Specimens - BaTiO <sub>3</sub> Technical Report No. 5	J.McKee Brush Labs., Co. Cleveland	4-12-55
MISC 1955-94	Control and Programming of a 200,000-Pound Fatigue Machine	H.C.Roberts V.J.McDonald Illinois Univ.	
MISC 1955-100	The Engineering Application of the Absolute Rate Theory to the Creep of Cast Magnesium Tech.Rpt.XLVII	M.B.Hogan Univ.Utah Salt Lake City	4-1-55

\*Microcards

MISC 1955-103	A Microstructure Study of Barium Titanate Ceramics Technical Report No. 6	F.Kulcsar Brush Labs. Co., Cleveland	5-6-55
MISC 1955-104	A Study of Electron Effects in Solid Solution Alloys of Titanium	J.M.Denney Calif. Inst. of Tech. Pasadena	1-55
MISC 1955-107	Progress Report and Publication List for AEC Contract AT (11-1)-67, Project No. 3 Diffusion in Noble Metals and Binary Alloys	F.Seitz D.Lazarus Illinois Univ.	
MISC 1955-106	Technical Report No. 5 Isothermal Sections in the Systems Molybdenum-Tungsten-Carbon and Molybdenum-Titanium- Carbon	H.J.Albery Mass. Inst. of Tech.	6-29-55
MISC 1955-108	Correlations of High Temperature Creep Data	O.D.Sherby J.E.Dorn Calif. Univ.	6-1-55
MISC 1955-110	An Investigation of Scaling of Zirconium at Elevated Temperatures Quarterly Status Report No. 8 March 2, 1955 to June 2, 1955	W.M.Baldwin, Jr. H.M.Green H.E.Techsamid Case Inst. of Tech., Cleveland	6-3-55
MIT-Met-MPD-TR-5	The Ductile Fracture of Metals Fatigue and Anisotropy in Copper Technical Report No. 5	M.L.Ebner W.A.Backofen J.Wulff Mass. Inst. of Tech.	2-1-55
MIT-Met-MPD-TR-6	The Ductile Fracture of Metals A Diameter Gage and Dynamometer for True Stress-Strain Tension Tests at Constant True Strain Rate Technical Report No. 6	G.W.Powell E.R.Marshall W.A.Backofen, et al Mass. Inst. of Tech.	2-1-55
NBS-4109	Survey of Stress-Strain Recorders for Testing Materials	R.R.Bouche D.R.Tate	5-55

\*Microcards



AECL-176 Translation	Concerning the Determination of the Analytical Representation of the Trajectories of Charged Particles in Magnetic Fields of Axial Symmetry, Used in Present Day Spectrometers Akademiia Nauk, SSSR. Seriya Fizicheskaya. Izvestiia, <u>18</u> , No. 2, pp 227-232 (1954)	V.R.Saulit	5-55
*AECU-3025	Equations of State on the Thomas-Fermi Statistical Model	R.Latter RAND Corp.	4-1-54
*AEDC-TR-54-32	Digital Manometer Reader for the Arnold Engineering Development Center	H.T.Chapek Arnold Eng. Dev.Center Tullahoma, Tenn.	1-55
*AERE-G/R-561	Effect of Varying Disc Thickness in the Radial Direction in a Dielectric Loaded Accelerator	J.M.Bruce R.B.R.Shersby-Harvie L.B.Mullett, et al Gt. Brit. Atomic Energy Research Estab. Harwell, Berks. England	7-50
*AERE-I/M-26	Limitations and Extensions of the Coincidence Method for Measuring the Activity of $\beta$ - $\gamma$ Emitters	J.L.Putman Same	7-13-53
*AERE N/M-50	Gamma Radiation From Proton-Lithium Reactions	A.J.Bayly Same	6-4-51
*AERE N/M-51	Permanent Reduction in Efficiency of Scintillation Materials Following Intense $\gamma$ -Ray Irradiation	G.N.Harding Same	4-18-51
*AERE N/M-52	Measurements on the Slow Neutron Background in the Target Room of the Van De Graaff Generator	B.Rose	4-14-51
*AERE N/R-1164	The Inelastic Scattering of Cold Neutrons By Crystals Part 1 Theory	P.A.Egelstaff	4-20-53
*AERE N/R-1165	The Inelastic Scattering of Cold Neutrons by Crystals Part 2. Experiment	P.A.Egelstaff	4-24-53
*Microcards			

*AERE-NGP/R-1137	Cold Neutron Filters	P.A.Egelstaff R.S.Pease Gt.Brit.Atomic Energy Research Establishment, Harwell,Berks,England	8-10-53
*AERE T/M-70	Heating of Foils By a Proton Beam	M.Ross J.S.Bell Same	10-52
*AERE T/M-75	Vertical Focussing in the Microtron	J.S.Bell Same	4-53
*AERE T/M-79	Azimuthal Inhomogeneity in the Strong-Focussing Bevatron	J.S.Bell	5-53
*AERE T/M-82	On the Spectrum of Thermal Neutrons in Monatomic Hydrogen Gas	B.Davison Same	5-53
*BNL-2294	A Precision High Voltage Attenuator with Good Frequency Response	J.G.Cottingham	3-28-55
CEF-3	AGS Parameters	C.E.Falk Brookhaven National Lab.	6-2-55
HEPL-46	A Comparison of the Predicted and Observed Performance of a Billion-Volt Electron Accelerator	K.B.Mallory Stanford	5-55
IDO-16120 (1st Rev.)	A Preliminary Report on the MTR Crystal Spectrometer	J.E.Evans	4-25-55
IDO-16149 (1st Rev.)	The Quantitative Techniques of Scintillation Spectrometry as Applied to the Calibration of Standard Sources	R.L.Heath F.Schroeder	4-25-55
IDO-16230	Successive Neutron Capture In Tb <sup>159</sup>	R.R.Smith S.D.Reeder R.H.Lewis	6-13-55
*Microcards			

LA-1901	Glow Tube Scalers for Timing Applications	G.LeCompte	8-54
MISC 1955-74	Invariance of Field Theory Under Time Inversion No. 16	J.Tiomno Rio De Janiero. Centro Brasileiro de Pesquisas Fisicas	8-22-54
MISC 1955-83 (Translation)	Fission of Heavy Nuclei By High Energy Neutrons Akademia Nauk, SSSR. Doklady, <u>101</u> , no. 6, pp 1027-30 (Translated from Russian)	V.I.Gol'danskii E.Z.Tarumov V.S.Ten'kina	
MISC 1955-84	Equacao De Proca Em Coordenadas Esfericas	S.W.Mac-Dowell	10-2-54
MISC 1955-85	Mass Reversal and the Universal Interaction No. 19	J.Tiomno Rio De Janiero. Centro Brasileiro de Pesquisas Fisicas	11-10-54
MISC 1955-86	On the Mechanism of Fission At Very High Energy No. 20	L.Marques Same	11-11-54
MISC 1955-87	A Causal Interpretation of the Pauli Equation (A)	D.Bohm R.Schiller J.Tiomno Same	11-15-54
MISC 1955-95	La Production Des Mesons Et Les Etats Excites A Vie Moyenne Breve	B.d'Espagnat J.Prentki European Council for Nuclear Research, Geneva, Proton Synchrotron Group	
MISC 1955-96	Cosmic Ray Group Technical Report No. 17	Princeton Univ.	5-2-55
MISC 1955-97	Office of Naval Research Department of the Navy Final Report[On Low Temperature Physics Studies]	Yale Univ.	4-29-55
MISC 1955-98 *Microcards	Progress Report 7 On Fluorescence and Conductivity Phenomena	H.Kallmann New York Univ.	2-55

MISC 1955-99	XX <sup>e</sup> Anniversaire De La Radioactivite Artificelle	MM.Louis de Broglie A.Baudoin E.Faral, et al	
MISC 1955-101	High Pressure Diffusion Cloud Chamber System	R.A.Schluter S.C.Wright Chicago Univ.	
MISC 1955-102	Inelastic Polarization and Nucleon Momentum Distribution	L.Marshall Chicago Univ.	
MISC 1955-105	Some Optical Properties of Transparent Solids Final Report	Polaroid Corp	4-27-55
MISC 1955-109	On High Energy Electromagnetic Phenomena in Cosmic Radiation	M.Koshiba M.F.Kaplon Rochester, N.Y.	
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