January-December 1953

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January

Date	Caption	Dept.	Photographer	Number
1-2-53	Effects of radiation of 2 Protons on energy of first exited state of even-even nuclei	Goldhaber Phys.	A. Lasky	1-1-3
1-2	Effects of addition of Protons etc.	"	A. Lasky	1-2-3
1-2	Spin and Parity of first excided etc.	"	A. Lasky	1-3-3
1-2	Percent dist. of spin and Parity etc.	"	A. Lasky	1-4-3
1-2	Spin and parity of second etc.	"	A. Lasky	1-5-3
1-2	Energy of first excited states etc.	"	A. Lasky	1-6-3
1-5	Relative DNA content	Moses Biology	M. Herbert	1-7-3
1-5	DNA Histogram	"	M. Herbert	1-8-3
1-5	No. of nuclei vs. DNA Loss	"	M. Herbert	1-9-3
1-5	Relative DNA content	"	M. Herbert	1-10-3
1-5	No. Nuclei vs. DNA loss	"	M. Herbert	1-11-3 thru 1-12-3
1-5	Typed Table for slide	"	M. Herbert	1-13-3 thru 1-15-3
1-5	PM Of Pathology Tissue	Saunders Biology	R.F. Smith	1-16-3 thru 1-35-3
12-15-52	Reactor- Loop "B"	D. Baries Reactor	R. Walton	1-36-3 thru 1-42-3
12-22-52	Metallurgy- Liquid metal experiment assembly progress photo	B. Turovlin Metal.	R. Walton	1-43-3 thru 1-44-3
1-6	Eye of rat	Saunders Biology	J. F. Garfield	1-45-3 thru 1-52-3
1-5	Layover grid	Brown Meteo.	Simack, P.	

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1- 5-53	Three Graphs	Gamble Medical	R. Fuka	1-54-3
1-5	Three Graphs	"	R. Fuka	1-55-3
1-5	Hours after injection of isotopes	"	R. Fuka	1-56-3
1-5	Days after initiating dose injections	"	R. Fuka	1-57-3
1-7	Effect of Pile variable on the temperature of Insulated Metal cylinder	T.Littman Nuc. Eng.	P. Simack	1-58-3
1-7	Graphs	"	P. Simack	1-59-3 thru 1-63-3
1-6	Special plug for gamma irradiation	Manowitz Reactor	R. Walton	1-64-3
12-30	2 color shots of flower stems	Christensen Biology	R. Walton	C1-65-3 thru C1-66-3
1-8	Typed tables	Shapiro Biology	R. Fuka	1-67-3 thru 1-70- 3
1-8	Diagram	Renkin Biology	R. Fuka	1-71-3
1-8	Graphs	McCormick ~~AP &PM~~ Meter.	R. Fuka	1-72-3 thru 1-78-3
1-8	Reactor Loop "B" #1-79-3 Cleared for publication	Baries Reactor	R. Walton	1-79-3 thru 1-80-3
12-30	Plant stems showing abnormalities	Christensen Biology	R. Walton	1-81-3 thru 1-85-3
1-5	Machine shop- Cutting bed in operation	Nicholsen Mach. Shop	R. Walton	1-86-3
1-6	Mouse irradiating box	R. King Biology	R. Walton	1-87-3

Date	Caption	Dept.	Photographer	Number
1-6	Tops of plants used in radiation experiment control on the right	Stoner Biology	R. Walton	1-88-3
1-6	Plants in greenhouse under neoprine cover	"	R. Walton	1-89-3
1-5	Liquid metal ~~xxxx~~ equipment set-up progress shots	B. Turovlin Reactor	R. Walton	1-90-3
12-30	Fast neutron chopper 1-92-3	Palevsky Phys	R. Walton	1-91-3 thru 1-101-3
1-9	Dewpoint charts	Singer meteor.	R. Fuka	1-102-3 thru 1-104-3
1-12	Chart- Oxo reaction I Alcohol homologues	Anderson Chemistry	A. Lasky	1-105-3
1-12	Chart Willgerodt reaction	"	A. Lasky	1-106-3
1-12	Chart- Nuclear transformations in organic molecules	"	A. Lasky	1-107-3
1-12	Chart- Carbon Isotopes	"	A. Lasky	1-108-3
1-12	Graph- Coincidence rate vs. Angle θ	Rustad Phys	A. Lasky	1-109-3
1-12	Schematic drawing	Rustad Phys.	A. Lasky	1-110-3
1-12	Color transpariencies poplar	Shapiro Biol.	R. F. Smith	C1-111-3 thru C1-114-3
	Log D 18#66			1-115-3
	Log D 18#68			1-116-3
1-12	Curve graphs cooling data	Littman Reactor	A. Lasky	1-117-3
-12	Line drawing-insulated nickel tube used to determine heating effect of pile radiations	Littman	A. Lasky	1-118-3

Date	Caption	Dept.	Photographer	Number
1-12	Chart-Fig 1 page 272 Amer. Jour. of Botany Vol 37	Shapiro Biology	A. Lasky	1-119-3
1-12	Chart-Figure 2 page 274 Vol. 30 Am. Jr. of Botany	"	A. Lasky	1-120-3
1-12	Figure 4 page 277 Vol. 37 (curve graph) Amer. Journ. of Botany	"	A. Lasky	1-121-3
1-12	Curve graphs- copy from ozalid	Sternheimer Phys	A. Lasky	1-122-3 1-122-3A 1-123-3 1-123-3A 1-124-3
1-12	Chart- copy from ozalid	Sternheimer Phys	A. Lasky	1-125-3 thru 1-126-3
1-12	Chart- relationship in amino acid metabolism	Sinex Medical	A. Lasky	1-127-3
1-12	Graph- distribution of C14, etc.	"	"	1-128-3
1-12	Table amino acid data-rat tissue	"	"	1-129-3
1-12	Table amino acids of human plasma	"	"	1-130-3
1-12	Table- Amino acid data	"	"	1-131-3
1-12	Table- Amino acid ratios	"	"	1-132-3
1-2	X-ray Julia Herchuck skull	Olevich Medical	R. Fuka	1-133-3 thru 1-136-3
1-6	Zanthium stem	Christensen Biology	R. F. Smith	1-137-3 thru 1-138-3
1-13	PM's of Pathology tissue	Godwin Medical	R. F. Smith	1-139-3 thru 1-161-3
1-12	Mary Kinsley in the counting room of Hot lab.	J. Burt Admin.	R. Walton	1-162-3

Date	Caption	Dept.	Photographer	Number
1-14	Graphs (Put in captions)	Corliss Chemistry	Simack	1-163-3 thru 1-169-3
1-14	Masses of Fundamental particles	Goldhaber	P. Simack	1-170-3
1-14	Chlorophyll b in dry n - propyl Benzene	Sancier Chemistry	P. Simack	1-171-3
1-14	Same- with CaH_2	"	P. Simack	1-172-3
1-14	Same- 193° K	"	P. Simack	1-173-3
1-14	Same 180° K	"	P. Simack	1-174-3
1-14	Schematic chart of bacteriochlorophyll	"	P. Simack	1-175-3
1-14	Schematic Chlorophyll "A"	"	P. Simack	1-176-3
1-14	Chronology of bud production at terminal surfaces	Shapiro Biology	P. Simack	1-177-3
1-14	Graph Beam position, inches (arbitrary location)	Reilly Physics	P. Simack	1-178-3
1-14	Graph- Pulse height distribution horizontal traverse no. field tubes	Reilly	P. Simack	1-179-3
1-14	Counter pressure six atmospheres	Reilly	P. Simack	1-180-3
1-14	Variations of both fast and slow biases	Draper Physics	P. Simack	1-181-3
1-14	Schematic chart	"	P. Simack	1-182-3
1-14	Delayed coincidence of neutrons	"	P. Simack	1-184-3
1-14	Effect of Al scatterer 24 cm - Paraffin in direct beam	"	P. Simack	1-185-3
1-14	Proportional counter	Reilly Physics	P. Simack	1-186-3
1-9	Hot Lab Radiated sample	J.Strickland Het Lab	R. Walton	1-187-3 C1-188-3
1-14	Spectrum of radiation following decay of 0.5u sec state	Sunyar	P. Simack	1-189-3 thru 1-190-3

Date	Caption	Dept.	Photographer	Number
1-14	$W^{187B} \rightarrow Re^{187}$ X-ray spectrum	Sunyar	P. Simack	1-191-3
1-14	Radiation in coincidence with 134 KEV X-ray	"	P. Simack	1-192-3
1-14	X-ray spectrum in prompt coincidence with K x-ray + 72 KEV x-ray	"	P. Simack	1-193-3
1-14	Pulse height distribution Xr proportional counter	"	P. Simack	1-194-3
1-14	Pulse height distribution Ne I (Ti) scintillation counter	" "	P. Simack	1-195-3
1-14	Schematic drawing	Landon Reactor	P. Simack	1-196-3
1-14	Graph Thulium	Foote Reactor	P. Simack	1-197-3
1-14	Graph Lutecium	"	P. Simack	1-198-3
1-14	Graph Cd^{113} (n,r) Cd^{114} 40 Mg/cm^2 V	Motz Phys	P. Simack	1-199-3
1-14	Same as above except V changed to Be	"	P. Simack	1-200-3
1-14	Graph Na^{23}(n,r) Na^{24} and Na^{24}(β,r) Mg^{24} 25 Mg/cm^2 Be	"	P. Simack	1-201-3
1-14	Schematic drawing	"	P. Simack	1-202-3
1-14	Graph- Na^{23}(n,r) Na^{24} and Na^{24} (β,r) Mg^{24} 40 Mg/cm^2 V	"	P. Simack	1-203-3
1-15	Trustee Ramsey's bus (New)	Bergen Trans.	R. Walton	1-204-3
1-15	Sign on bus (Ramsey)	Bergen	R. Walton	1-205-3
1-9	Corn seedlings color (4)	Konzak Biology	R. Walton	C1-206-3 thru C1-209-3
1-15	Chart- single magnet	Sternheimer Physics	P. Simack	1-210-3
1-15	Chart- two magnet system	"	P. Simack	1-211-3
1-15	Graph - Energy distribution of beam neutrons	Fowler Phys	P. Simack	1-212-3

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1-15	Typed table	Fowler Phys.	P. Simack	1-213-3
1-15	Chart- energies of neutron pesonances	Landon ~~Phys Rec~~	P. Simack	1-214-3
1-15	Chart- grating spaces and neutron form factors	"	P. Simack	1-215-3
1-15	Chart- characteristics of crystal spectrometer	"	P. Simack	1-216-3
1-15	Fig 1 Simplified schematic of the apparatus	Rustad Phys	P. Simack	1-217-3
1-15	Schematic drawing	Robertson Medical	P. Simack	1-218-3 thru 1-220-3
1-16	Schematic drawing	Mihelic	P. Simack	1-221-3
1-16	Graph Q ($E^{o'}E$) etc.	Kleinman Phys	P. Simack	1-222-3
1-16	Graph drawing scattering function for gas of beryllium	"	P. Simack	1-223-3
1-16	Schematic drawing	"	P. Simack	1-224-3
1-16	Graph- Em= 2.2 Mev. counter pressure six atmospheres	Reilly Physics	P. Simack	1-225-3
1-16	Graph effect of addition of 2 protons on energy of first excited state of even even nuclei	Goldhaber Phys	P. Simack	1-226-3
1-16	Book drawing of apparatus	Kuper Elec.	P. Simack	1-227-3
1-16	Graph- amplification factor against cylinder voltage etc.	Kuper	P. Simack	1-228-3
1-16	Graph- amplification factor plotted against counter voltage etc.	"	P. Simack	1-229-3
1-16	Graph Figure 3 Thermal conductivity of santocel A insulation	Littman ~~Phys~~ Elec. Eng.	P. Simack	1-230-3
1-17	Chart- guiding principles in research on Fundamental particles 1-6	Goldhaber Phys	P. Simack	1-231-3

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1-17	Chart- Guiding principles in research on fundamental particles 7-10	Goldhaber Phys	P. Simack	1-232-3
1-17	Chart- uncharged heavy particles	"	P. Simack	1-233-3
1-17	Chart- genetic relations between heavy particles	"	P. Simack	1-234-3
1-17	Chart- families of heavy particles	"	P. Simack	1-235-3
1-17	Chart- charged heavy particles	"	P. Simack	1-236-3
1-17	Graph- half width of blue and red bands of allomerized chlorophyll A in 10% n-propyl ether in hydrocarbon	Sancier	P. Simack	1-237-3
1-17	Graph- Allomerized chlorophyll A in 10% n-propyl ether and 1:1 propane propene	"	P. Simack	1-238-3
1-17	Graph- chlorophyll b in mixed methyl cycloalhanes.	"	P. Simack	1-239-3
1-17	Graph- pheophytic A in 10% propyl ether and 1:1 propane propene	"	P. Simack	1-240-3
1-17	Table transition temperatures (°C) of various chlorophyll samples	"	P. Simack	1-241-3
1-17	Graph- Silver	Levin Phys	P. Simack	1-242-3
1-17	Graph- Open and background counting rates as a function of neutron time of flight	Levin	P. Simack	1-243-3
1-17	Graph	Goldberg Phys	P. Simack	1-244-3
1-17	Graph- Zirconium & bismuth	Goldberg	P. Simack	1-245-3
1-17	Graphs scattering function for berryllium	Kleinman Phys	P. Simack	1-246-3 thru 1-248-3
1-17	Formula and graph	Kleinman	P. Simack	1-249-3 thru 1-250-3
1-14	Graphs (2)	Whittemore	P. Simack	1-251-3 thru 1-252-3
1-12	Cross section of weld	Turovlin Nuc. Eng	R. Walton	1-253-3 thru 1-254-3

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1-9	Radiated corn seedlings	Konzak Biology	R. Walton	1-255-3 thru 1-259-3
1-15	Macro-photo of tissue transplant in eye of mouse	R. Stonner Medical	R.F. Smith	1-260-3
1-9	Zanthium plant	Christensen Biology	R. Smith	1-261-3 thru 1-263-3
1-14	Lilly mutation	Christensen	R. Smith	1-264-3
1-19	Macro-photo of poplar bud	Shapiro	R. Smith	1-265-3 thru 1-270-3
1-19	poplar shoots in culture jars	Shapiro	R. Smith	1-271-3
1-13	Poplar shoots removed from culture jars	"	R. Smith	1-272-3
1-19	22 color slides to godwin	Godwin	R. Smith	-------
1-19	Graph Thulium	Foote	P. Simack	1-273-3
1-19	Line drawing	Blewett	P. Simack	1-274-3 thru 1-275-3
1-19	Schematic drawing	Draper Phys	P. Simack	1-276-3
1-19	linehdrawing	Draper	P. Simack	1-277-3
1-19	Graphs	Draper	P. Simack	1-278-3 thru 1-282-3
1-13	Radiated tim samples	Fleeman Phys	R. Walton	1-283-3 thru 1-291-3
1-20	Table examples of growth stimulationetc.	Sparrow	A. Lasky	1-292-3
1-20	Table calculated roentgen equivalent etc.	"	A. Lasky	1-293-3
1-20	Table protection against somatic chromosome breakage etc.	"	A. lasky	1-294-3
1-20	Curve graph manganese data from BNL etc.	Levin	A. Lasky	1-295-3

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1-16	Lily double stem	Shapiro	R. Walton	1-296-3 thru 1-297-3
1-16	Cockellium stem	Christensen	R. Walton	1-298-3 thru 1-299-3
1-15	Winding coil drum used to keep tension on copper bar while winding coil	Nicholsen	R. Walton	1-300-3
1-15	Winding coil- silver soldering copper rods together	Nicholsen	R. Walton	1-301-3
1-15	Winding coil	Nicholsen	R. Walton	1-302-3
1-13	Control board for the "Harp" liquid metal experiment	Turovlin T-480	R. Walton	1-303-3
1-13	Progress on liquid metals experiment	Turovlin	R. Walton	1-304-3
1-12 &13	Photos- made at Fernald for Corbin Allardice	Allardice	J. F. Garfield	1-305-3 thru 1-321-3
1-21-53	PROJECT EAST RIVER PHOTOS:			
	Figure 12 Vulnerable urban districts		Simack all by him	1-322-3
	Graph- Fig. 3 8x bomb exploded at height of 4,000 feet			1-323-3
	Figure 17 Added strength with little or no cost			1-324-3
	Fig 6 Expanding metropolitan areas			1-325-3
	Graph Fig. 2 1x bomb exploded at height of 2,000 feet			1-326-3
	Fig 16. Shelters for new buildings			1-327-3
	Fig. 23 Elements of standard fire protection			1-328-3
	Fig. 5 the Industrial heartland			1-329-3
	Fig. 4 Conflagration vs. the fire storm			1-330-3
	Fig. 19 Dynamic load from blast			1-331-3

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1-21	PROJECT EAST RIVER PHOTOS:		All by Simack	
	Fig 20 Added safety at 5% cost increase			1-332-3
	Fig. 7 The inner area NYC			1-333-3
	Fig 15 Shelter demand			1-334-3
	Fig 18 Shelter supply			1-335-3
	Fig. 14 Circumferential highways influence industrail location			1-336-3
	Fig 13 Floor area ratio			1-337-3
	Fig 1 Standard metropolitan areas			1-338-3
	Fig 2 Population concentration			1-339-3
	Map Fig 3 coastal concentrations of nations industry			1-340-3
	Fig 22 Fire resistant construction			1-341-3
	Fig 21 A typical fire storm area			1-342-3
	Page 58 Fire storm demonstrated			1-343-3
	Page 57 How fires merge			1-344-3
	Page 56 boards for demonstration			1-345-3
	Page 55 board for demonstration			1-346-3
	Exhibit 1A full time federal employment			1-347-3
	Fig 4 30% lab coverage & % roof area		M. A. Herbert rest	1-348-3
	Point of departure for the study of civil defense			1-349-3
	B. the fourteen metropolitan areas			1-350-3
	P.E.R. recommends the following principles			1-351-3
	same			1-352-3 thru 1-353-3
	Summary of urban defense standards			1-354-3 thru 1-356-3

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1-21	PROJECT EAST RIVER PHOTOS:		M. A. Herbert	
	Development of a national program for reduction of urban vulonerability			1-357-3
	Evacuation principles			1-358-3
	continuation of writing			1-359-3
1-23	Post mortum photos of dog eyes	Saunders	R. Smith	1-360-3 thru 1-362-3
1-14	Color slides, 2 snapdragons 1 lilly	Christensen	R. Smith	C1-363-3 thru C1-365-3
1-21	PROJECT EAST RIVER PHOTOS:			
	Warnings and communications for civil defense- flow chart			1-366-3
	Attack warning system			1-367-3
	Attack ~~xx~~ warning			1-368-3
	Air defense force and air division boundaries			1-369-3
	Communications flow diagram			1-370-3
	Critical target area			1-371-3
	Table A summary of civil defense conditions			1-372-3
	Relationship of warning and informational activities to operations			1-373-3
1-26	Experimental cross section for deutron bombardment Fig 6	Fluke	M. H. Bull	1-374-3
1-26	% remaining vs. dose for trypsin Fig 3	"	M. H. Bull	1-375-3
1-26	Electron bombardment chamber Fig 4	"	M. H. Bull	1-376-3
1-26	% trypsin remaining after various electron bombardments Fig 5.	"	M. H. Bull	1-377-3
1-26	Schematic drawing of bombardment arrangement Fig 1	"	M. H. Bull	1-378-3

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1-27	Colored slide	Konzak	R. Smith	----------
1-22	Elec. Top view of chassi for Ion trap	Hallock Electronics	R. Walton	1-379-3
1-22	Ion trap	"	R. Walton	1-380-3 thru 1-382-3
1-22	Front panel - Ion trap	"	R. Walton	1-383-3
1-22	Chassi for Ion trap	"	R. Walton	1-384-3
1-22	H.P. - Cones for detection tube	Sanders H. Physics	R. Walton	1-385-3
1-22	Radiation detection equipment	"	R. Walton	1-386-3
1-22	Reactor- Bearing from # 1 inboard fan	R. Powell	R. Walton	1-387-3
1-22	Same as above except outboard fan	"	R. Walton	1-388-3
1-23	Meteor. - Aerovane lamp on tower boon.	D.Mazzarella	R. Walton	1-389-3
1-22	Radiated grain seedlings	Konzak	R. Walton	1-390-3 thru 1-395-3
1-28	PM's of pathology tissue	Saunders Biology	R. Smith	1-396-3 thru 1-398-3
1-20	Zanthium	Christensen	R.F. Smith	1-399-3 thru 1-405-3
1-28	PM's of cancer cells	Godwin	R.F. Smith	1-406-3 1-407-3 1-409-3 1-411-3 thru 1-420-3 1-422-3 thru 1-425-3
1-28	PM of piegeon brain degenerate	Saunders	R.F. Smith	1-408-3
1-28	PM of horse brain senial	Saunders	R.F. Smith	1-410-3
1-28	PM of cancer cell	Saunders	R.F. Smith	1-421-3
1-29	Night shot of pile taken in 1950		R. Walton	1-426-3
1-29	Diapositive of #'s	M.Graham	H. Maile	1-427-3

SENT TO D. EMBERSON 4/7/57

FOR COLOR SEE CN11-20

Date	Caption	Dept.	Photographer	Number
1-29	Copy negative	Mazzarella	R. Fuka	1-428-3
1-30	A comparison of the pulse height distribution of NaI and etc.	Weiss	H. Maile	1-429-3
1-30	The cross section of NaI as a function of x-ray energy	"	H. Maile	1-430-3
1-30	The response of a NaI crystal to the 0.75 MED x-rays from Cb^{95}	"	H. Maile	1-431-3
1-30	Energy E_o of incident neutron (Mev)	Draper	H. Maile	1-432-3
1-30	Degree of inversion vs. parameter	Corliss	H. Maile	1-433-3
1-30	Fig. 3 I^{131} contamination	Stang	H. Maile	1-434-3
1-30	Fig. 1 Parent daughter relationship	Stang	H. Maile	1-435-3
1-30	Fig. 2 Growth time	Stang	H. Maile	1-436-3
1-30	Table 1 Isotopes of Iodine	Stang	H. Maile	1-437-3
1-30	Table 2 activity of I^{132} obtained	Stang	H. Maile	1-438-3
1-29	Printing equipment going into T-197	R Brown Photo	J.F. Garfield	1-439-3 thru 1-444-3

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Date	Caption	Dept.	Photographer	Number
2-2	Drawing by mechanical Eng. div. of BNL	Raseman	H. Maile	2-1-3
2-2	Growth time hrs.	L.Stang	H. Maile	2-2-3
2-2	Te^{131} Te^{132}, I^{131} I^{132} activities after 10 day bombardment.	Stang	H. Maile	2-3-3
2-2	The patient tells his story	Saunders	H. Maile	2-4-3
2-2	Pedigree of ataxic Jersey calves	Saunders	H. Bennett	2-5-3
2-2	Cloud chamber copy neg. from slide	S. Freed	H. Maile	2-6-3
2-2	Girl in biology working with plants (Blonde)	J. Burt	R. Walton	2-7-3 thru 2-8-3
2-2	Girl in Biology (Brunette) working with lab equipment	J. Burt	R. Walton	2-9-3 thru 2-10-3
2-3	PM of pathology tissue	Saunders	R. F. Smith	2-11-3
2-3	Dose, Electrons /Cm^2	Fluke	Bennett	2-12-3
2-3	Dose electrons /cm^2 x 10^{-13}	Fluke	Bennett	2-13-3
2-3	Dose 20 x 10" D^2/ cm	Fluke	Bennett	2-14-3
2-3	Catalose	Fluke	Bennett	2-15-3
2-3	2 MEV electrons or chymot lypsin	Fluke	Bennett	2-16-3
2-3	2 MEV electronson T-1 growth	Fluke	Bennett	2-17-3
2-3	Calcium nucleus disentegrating a target nucleus and proceeding without losing any charge.	P. Wilson	P. Bennett	2-18-3
2-3	Decay curves of iodine	Tucker	P. Bennett	2-19-3
2-3	Iodine generator	Tucker	P. Bennett	2-20-3 thru 2-21-3
2-3	Barley seedlings	Konzak	R. Walton	C2-22-3
2-3	Lily color	Shapiro	R. Walton	C2-23-3
1-28	Barley seedlings	Konzak	R. Walton	2-24-3
2-3	Pm of blood cells Red #1101	Tosteson	R. Smith	2-25-3

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2-3	PM of blood cells Red Slide [redacted] #1012	Tosteson	R. Smith	2-26-3
	Slide # 1013	"	"	2-27-3
	Slide # 1014	"	"	2-28-3
	Slide # 1021	"	"	2-29-3
	Slide # 1022	"	"	2-30-3
	Slide # 1023	"	"	2-31-3
	Slide # 1024	"	"	2-32-3
2-5	PM's of cross section of graphite crucible	Ginell	R. Smith	2-33-3 thru 2-36-3
2-5	PM of pathology tissue	Saunders	R. Smith	2-37-3 thru 2-42-3A 2-43-3A
2-5	Explosion at Hot lab	L.Stang	R. Walton	2-42-3B 2-43-3B thru 2-63-3
1-23	4 color transpariencies	Christensen	R. Smith	C2-64-3 thru C2-67-3
1-20	4 color transpariencies	Christensen	R. Smith	C2-68-3 thru C2-71-3
1-9	3 color transparienceis	Christensen	R. Smith	C2-72-3 thru C2-74-3
2-6	12 color transpariencies	Konzak	R. Smith	C2-75-3 thru C2-86-3
2-6	Cross section of mouse eye with tissue transplant	Stoner	R. Smith	2-87-3 thru 2-92-3
2-6	Innadiation table	Manowitz	H. Maile	2-93-3
2-4	Hot Lab- Incubation	Strickland	R. Walton	2-94-3 thru 2-95-3
2-2	Cosmo- Coil before resin is panned	J. Mede	R. Walton	2-96-3
2-2	Pulling coil out of mold	J. Mede	R. Walton	2-97-3
2-2	Leak testing coil	J. Mede	R. Walton	2-98-3

Date	Caption	Dept.	Photographer	Number
2-2	Filing the rough edges from a completed coil	J. Mede	R. Walton	2-9933
2-2	Cutting glass cloth for new coil	J. Mede	R. Walton	2-100-3
2-2	Panning new coil	J. Mede	R. Walton	2-101-3
1-21	Liquid metal experiment set-up	Turovlin	R. Walton	2-102-3 thru 2-103-3
2-3	Thermocouple leads	J. Klein	R. Walton	2-104-3 thru 2-106-3
1-21	Stat of Loop "E"	Baries	R. Walton	2-107-3
1-21	Control board for Loop "B"	Baries	R. Walton	2-108-3
2-6	Cosmo set-up for x radiating plates	Collins	R. Walton	2-109-3 thru 2-111-3
2-6	Resonance parometers line drawing	V. Sailor	H. Maile	2-112-3
2-6	Total cross section (Barns) neutron energy (ev)	V.Sailor	H. Maile	2-113-3
2-7	Air meters 3 types	Mazzarella	R. Walton	2-114-3 thru 2-116-3
2-7	platform of ace tower- plan view sketch	"	R. Walton	2-117-3
2-7	Map of meteorological micronet system	"	R. Walton	2-118-3
2-7	Drawing showering measured heights on ace	"	R. Walton	2-119-3
2-7	Sketch - air view towers area	"	R. Walton	2-120-3
2-7	Wiring diagrams Models S & R	"	R. Walton	2-121-3
2-7	Thermolin and housing drawing	"	R. Walton	2-122-3
2-7	drawing L.A.G. coefficient vs. ventilation rate	"	R. Walton	2-123-3
2-3	Corn chromosomes PM's # 28 thru #37	Dollinger	R. Smith	2-124-3 thru 2-133-3
2-6	% fall lymphocytes graph	D. Kirk	H. Maile	2-134-3 thru 2-137-3

Date	Caption	Dept.	Photographer	Number
2-6	4 graphs	D. Hughes	H. Maile	2-138-3 thru 2-141-3
2-6	Graph- approx. flow patterns of ground water in isotropic sand	de Leguna	H. Maile	2-142-3
2-6	Graph- generalized geologic cross-section to show general relations of aquifers underlying central suffolk county	de Leguna	H. Maile	2-143-3
2-10	Dr. Van Slyke in Lab	Van Slyke	J. F. Garfield	2-144-3 thru 2-147-3
2-3	T-100	F. Walsh	R. Walton	2-148-3 thru 2-151-3
2-10	Drawings of chromosomes	Dollinger	A. Lasky	2-152-3 thru 2-190-3
2-10	Contacting aerovane	Mazzarella	R. Smith	2-191-3
2-10	Autocall recorder	"	R. Smith	2-192-3
2-10	Circuit for autocall recorder	"	R. Smith	2-193-3
2-10	Map	de Laguna	H. Maile	2-194-3
2-5	Cosmo shielding blocks set up for beam around cosmo magnet	L. Smith	R. Walton	2-195-3
2-5	Cosmo shielding blocks set up around cosmo magnet	L. Smith	R. Walton	2-196-3
2-5	Biol- Kalenkoe plant	Christensen	R. Walton	2-197-3 thru 2-200-3
2-5	Close up of root structure of stem of Kalenkoe	Christensen	R. Walton	2-201-3
2-5	Radiated plants	Christensen	R. Walton	2-202-3 thru 2-203-3
2-5	Ginko biloba	Christensen	R. Walton	2-204-3 thru 2-205-3
2-5	General area on east side of Pile	R. Powell	R. Walton	2-206-3 thru

Date	Caption	Dept.	Photographer	Number
2-5	Looking into animal tunnel of pile	R. Powell	R. Walton	2-210-3
2-11	5 color transpariencies of Ginko baloba	Christensen	Rl Walton	C2-211-3 thru C2-215-3
2-4	Slide A 50-30 H	Sparrow	R. Smith	2-216-3
2-11	Typed table	Steele	H. Maile	2-217-3 thri 2-219-3
2-11	Fraction of absorbedphenylalanine C per MG respiratory C	Steele	H. Maile	2-220-3
2-11	Apparent activation energy for movement of K out of XXX SCA red cells	Tosteson	H. Maile	2-221-3
2-11	5 charts on human blood	Tosteson	H. Maile	2-222-3 thru 2-226-3
2-11	Phosphorus concentration (gamma per ML)	Koshland	H. Maile	2-227-3 thru 2-228-3

Date	Caption	Dept.	Photographer	Number
2-11	Barley seedlings	Konzak Biology	R. Walton	2-229-3
2-11	Barley seedlings color	"	R. Walton	C2-230-3
2-16	Crystal Energy	Freedman	H. Maile	2-231-3
2-16	Relative Ion Intensity	"	H. Maile	2-232-3
2-16	Born-Haber Thermochemical cycle	"	H. Maile	2-233-3
2-16	Clausius-Clapyron Equation	"	H. Maile	2-234-3
2-16	Table I Mass spectrum	"	H. Maile	2-235-3
2-16	Ion Table II	"	H. Maile	2-236-3
2-16	Chromel-Alumel couple	"	H. Maile	2-237-3
2-16	Relative Ion intensity	"	H. Maile	2-238-3
2 -16	Schematic Diagram of terrilium separation pack	Tucker Hot Lab	H. Maile	2-239-3
2-17	Integrated Intensities for $MgFe_2O_4$ relative to (311)	Corliss	H. Maile	2-240-3
2-17	PM's of cancer tissue	Godwin Medical	R. F. Smith	2-241-3 thru 2-255-3
2-17	PM's of Pathology tissue	Saunders Biology	R. F. Smith	2-256-3 thru 2-269-3
1-30	Snap dragon	Sparrow Biology	J. F. Garfield	2-270-3
1-30	ginko flower	Sparrow	J. F. Garfield	2-271-3 thru 2-274-3
1-30	apple mutation	Sparrow	J. F. Garfield	2-275-3
2-6	Tank for Loop "E" before heating elements are wound around it.	J. Klein	R. J. Walton	2-276-3
2-6	Identifying controls for water softner and regenerating tank- Pile canal	B. Warner	R. J. Walton	2-277-3
2-17	Figure 2	Ginnell Nuc Eng	H. Maile	2-278-3
2-17	Fig. 29 electron PM	Ginnell	H. Maile	2-279-3
2-17	Fig. 31 Ion exchange columns,	Ginnell	H. Maile	2- 280-3
2-13	Irradiated plants	Christensen	R. Walton	2-281-3 thru 2-283-3
3/16	Rear view of rack - Iodine experiment	Tucker Hot Lab	R.J. Walton	2-284-3
"	" " " " "	"	"	2-285-3
"	Control section of Hot Cell # 1	"	"	2-286-3

Date	Caption	Dept.	Photographer	Number
19	Fig. 34, 35, 36, X-ray diffraction patterns	Ginnell	M. Bull	2-287-3 thru 2-289-3
2-19	I^{32} Generator	Doering	H. Maile — Deleted	2-290-3
2-17	Table I Measurements of volumes of dist. of radioactive chloride etc.	Gamble	H. Maile	2-291-3
2-17	Table II Simultaneous determination of dist. of BR^{82} and Cl^{38} in Brookhaven patient.	Gamble	H. Maile	2-292-3
2-17	Table III Transport of Bl^{82} and Cl^{38} into Urine, red cells, pleural fluid etc.	Gamble	H. Maile	2-293-3
2-10	Poplar shhots	Shapiro	R. Smith	2-294-3 thru 2-295-3
2 -10	Lever operated Hypodermic syringe	Rpbertson	R. Smith	2-296-3
8	White cell recovery ~~flowing~~ following various exposures to gamma radiation	Stoner	H. Maile	2-297-3
2-20	Line draw ings	Koshland	M. B ull	2-298-3 thru 2-300-3
2-20	Hydrolysis of ATP to Pyrophocphate & AMP	Koshland	M . Bull	2-301-3
2-20	Enzymatic reactions of ATP	Koshland	M. Bull	2-302-3
2-20 XXXXX	Hydrolysis of ATP to ADP & inorganic phosphate	Koshland	M. Bull	2-303-3
2-17	Line drawings 3	Hughes	H. Maile	2-304-3 thru 2-306-3
2-18	Line Graph	Godwin	H. Maile	2-307-3 thru 2-308-3
2-XX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
2-17	3 line drawings	Ma zzarella	H. Maile	2-309-3 thru 2-311-3
2-13	Irradiated plants color	Christensen	R. Walton	C2-312-3 thru C2-314-3
2-24	3 maps in one (composite)	de Laguna	H. Maile	2-315-3

Date	Caption	Dept.	Photographer	Number
-2 4	Fig. 2 page 2 73 Chem & Phys. of the nucleus	Forro (Biol).	H. Ma ile	2-316-3
2-24	Several chromosomes	Forro	H. Maile	2-317-3
2-2 4	Line drawing Figure L absorption specta etc.	Sancier	H. Maile	2-318-3
2-24	line drawing Pheophytin a in 10% etc.	Sancier	H. Maile	2-319-3
2-24	Line drawing Chlorophyll b etc.	Sancier	H. Maile	2-320-3
2 -24	Line drawing Pheophytin a in 10% etc.	Sancier	H. Maile	2-321-3
2-24	Typed tables	Koshland	H. Maile	2-322-3 thru 2-333-3
2-11	Heating wire wrapped around tank	J. Klein ~~Reactor~~ Nuclear	R. J. Walton	2-334-3
2-11	Start of Loop "E"	D. Baries Reactor	R. J. Walton	2-335-3
2-25	Multi plane PM of bacterial Radio ~~autograph~~ (E. Coli) autograph	Forro Biol	R. F. Smith	2-336-3
2-25	Mulri plane PM of bacterial radio autograph (staphalococus)	Forro	R. F. Smith	2-337-3
2-26	Graphs 3, Distribution of P 32	Forro	A. Lasky	2-338-3 thru 2-340-3
2-26	Curves 3, P 32 and bacterium inoculum	Forro	A. Lasky	2-341-3 thru 2-343-3
2 -26	Curves- Rosenfeld forces	Goldhaber	A. Lasky	2-344-3 thru 2-345-3
2-26	Table- Number of states with spin etc.	Goldhaber	A. Lasky	2-346-3
2-26	Curve graph- from photostat	Goldha ber	A. Lasky	2-347-3
2-36	Typed tables- DNA content data	M. Moses	A. Lasky	2-348-3 thru 2-349-3
2-2 6	Curve graphs	Dahl- Med.	A . Lasky	2-350-3 thru 2-353-3
2-26	Table typed	Dahl-Med.	A . Lasky	2-354-3 thru 2-355-3
2-24	Building diagram	S.CHristoff. hot lab	H. Maile	2-356-3
-20	Lead shield & tunnel for particle track experiment	L. Smith Cosmo	R. Walton	2-357-3 thru 2-359-3

Date	Caption	Dept.	Photographer	Number
8	Plant stem showing effects of radiation on structure	Christensen	R. Wa lton	2 -360-3 thru 2-362-3
2-18	Irradiated plant	Christensen	R. Walton	2-363-3 thru 2-364-3
2-24	Revision work on electrostatic generator	Turner	R. Walton	2-365-3 thru 2-368-3
2 -26	PM's of pathology tissue	Godwin	R. F. Smith	2-369-3 thru 2-371-3
2-26	Macro photo of tissue transplant in mouse eye	Stoner	R. F. Smith	2-372-3 thru 2-374-3
2-26	Poplar buds macro photo	Shapiro	R. F. Smith	2-375-3 thru 2-382-3
1.	Trench on east side of greenhouse	Reed	J. F. Garfield	2-383-3 thru 2-386-3
2-27	Curves- data on mice	R. Steele Biology	H. Maile	2-387-3
2-27	Spectral dist. of phosphor light output	J. F. Garf.	H. Ma ile	2-388-3
2-27	Typed ta ble	JF Garfield	H. Maile	2-389-3
2-27	Typed table	JF Garfield	H. Maile	2 -390-3

March

Date	Caption	Dept.	Photographer	Number
-53	Dumont Type 34 Oscillograph camera	Garfield	P. Simack	3-1-3
3-2	photo equipment	Garfield	P. Simack	3-2-3
3-2	Pulses	Garfield	P. Simack	3-3-3 thru 3-4-3
3-2	Camera	Garfield	H. Maile	3-5-3
3-2	Line drawing	Goldhaber	P. Simack	3-6-3
2-22	Drawing, apparatus for studying neut-~~dimxdsxaix~~ rino recoils	R. Davis	H. Maile	3-7-3
2-22	Blood graphs	Robertson	H. Maile	3-8-3 thru 3-9-3
3-2	Line graph	Hughes	H. Maile	3-10-3
3-2	Line drawing	Davis, R/	P. Simack	3-11-3
2 -27	Physical Science Center Plan	Van Horn	H. Maile	3-12-3
2-27	Master plan	Van Horn	H. Maile	3-13-3
2-27	Medical Research Center plan	Van Horn	H. Maile	3-14-3
[illegible]	Interim plan	Van Horn	H. Ma ile	3-15-3
[illegible]	Summary of Bldg. program in Sq. Feet	Van Horn	H. Maile	3-16-3 thru 3-17-3
2-27	Summary of estimated costs	Van Horn	H. Maile	3-18-3 thru 3-19-3
2-27	Estimated cost by project & budget years	"	H. Maile	3-20-3 thru 3-21-3
3-3	Age at onset of symptoms	Godwin	P. Simack	3-22-3
3-3	Treatment of patient	Godwin	P. Simack	3-23-3
2-26	Chart of Nuclides - MODEL	Goldhaber	R. J. Walton	3-24-3
3-2	The third dimension	Robertson	R. J. Walton	3-25-3 thru 3-26-3
2-20	~~EXXXX~~ Control section for heating tank "Loop E"	J.Klein	R. J. Walton	3-27-3
2-20	Heating tank for loop E	J. Klein	R. J. Walton	3-28-3
2-26	Color transpariencies Kalankoe plant	Christensen	R. Walton	C3-29-3 thru C3-33-3
2-26	Radiated plant stems x-ray	Christensen	R. Walton	3-34-3 thru [illegible]

Date	Caption	Dept.	Photographer	Number
2-26	Stunted baby plant	Konzak	R. J. Wa lton	3-41-3
3-2	Loading station - Reactor	B. Isler	R. J. Walton	3-42-3 thru 3-43-3
3-2	Tube in barrel radiation show-up room	B. Isler	R. J. Wa lton	3-44-3
3-2	Radiation counter inside tube prior to exposure	B.Isler	R. J. Wa lton	3-45-3
3-2	Radiation show-up room - tube being pulled out of bowl	B. Isler	R. J. Walton	3-46-3
3-3	14 Graphs	M. Moses	P. Simack	3-47-3 thru 3-60-3
3-2	13 Graphs & line drawings	Wolf,	P. Simack	3-61-3 thru 3-73-3
~~3-5~~	~~4 Line graphs~~	~~Rustad~~	~~H. Maile~~	
3-5	4 Line graphs	Rustad	H. Ma ile	3-74-3 thru 3-77-3
3-5	Typed table	Rustad	H. Ma ile	3-78-3
5	Schematic of He^6 Generator	Rustad	H. Maile	3-79-3
	Schematic for T $\frac{1}{2}$ measurement	Rustad	H. Maile	3-80-3
3-4	Ga mma s ource loading tool	F. German	R. J. Walton	3-81-3 thru 3-85-3
2-27	12 Color transpariencies corn seedlings	Singleton	R. J. Walton	C3-86-3 thru C3-97-3
2-26	Color transpariency Lily	Christensen	R. J. Wa lton	C3-98-3
3-4	PM's of pathology tissue	Saunders	R. F. Smith	3-99-3 thru 3-117-3
3-6	Kinetic energy of Pions in MEV	Shutt	M.H. Bull	3-118-3
	Cl. Chamber - Cyclotron Diagram	"	"	3-119-3
	Projected π - μ Decay Angle in degrees	"	"	3-120-3
	Chg Transfer Cases & Inelastic Scatterings Cases	"	"	3-121-3
	Diagram - Cloud Chamber	"	"	3-122-3
	Line Diagram	"	"	3-123-3

Date	Caption	Dept.	Photographer	Number
3/6/53	Minutes vs. O_2(il)	Gibbs-Bio.	Bull	3-124-3
3/6/53	Minutes vs. O2(il)	Gibbs- Bio.	Bull	3-125-3
3/6/53	Minutes vs. O2yl	Gibbs-Bio.	Bull	3-126-3
3/6/53	Minutes vs. O2(1)	Gibbs-Bio.	Bull	3-127-3
3/6/53	Minutes vs. Optical Density at 340 mv	Gibbs-Bio	Bull	3-128-3
~~XX~~ 3-10	Macro photo of metal surfaze	Walsh Reactor	R. F. Smith	3-129-3 thru 3-130-3
~~1-2-3~~ 3/12	Lilly plants in radiation section of greenhouse	Cheistensen	R.F. Smith	3-131-3 thru 3-132-3
3-10	PM's of cancer tissue	Godwin	R. F. Smith	3-133-3 thru 3-142-3
3-7-53	Pneumonococci	Drew	R. F. Smith	3-143-3 thru 3-144-3
3-10	copy of fig 1 p.110 BNL 1117-510 (ammended curve graph.)	Stoner Med	~~M. Herbert~~	3-145-3
3-10	Typed tables	S mith	H. Maile	3-146-3 thru 3-147-3
3-10	Line drawing	S mith	H. Maile	3-148-3
3-10	3 typed tables	Godwin	H. Maile	3-149-3 thru 3-151-3
2-27	Equipment in waste treatment plant	P. Richards	J.F. Garfield	3-152-3 thru 3-154-3
3-4	Dye transfer of snapdragons		R. F. Smith	3-155-3
3-11	Nuclear Engineering formulas	Wiswall	M. Bull	3-156-3 thru 3-160-3
-11	Reagents for combustion of 1 to 3 neg. carbon	Van Slyke	M. Bull	3-161-3
3-11	Precision of C-14 activity determination chart	Van Slyke	M. Bull	3-162-3

Date	Caption	Dept.	Photographer	Number
-11	Pressure regulator Ionization chamber II apparatus	Van Slyke	M. Bull	3-164-3
3-10	3 typed tables	Koshland	H. Maile	3-165-3 thru 3-167-3
3-10	2 drawings	Koshland	H. Maile	3-168-3 thru 3-169-3
3-11	10 tables and drawings from books	Van Slyke	H. Maile	3-170-3 thru 3-179-3
3-6	Side view of Dee - Accelerator	Harris	R. Walton	3-180-3 thru 3-181-3
3-6	End view of dee section, showing angle of cut.	Harris	R. Walton	3-182-3
3-12	Red blood cells	Tosteson	R. F. Smith	3-183-3 thru 3-187-3
3-11	Oscillagraphs from polaroid shots -	L. Smith	H. Maile	3-188-3 thru 3-192-3
3-10	Page 36 of Dec 3-4, 1952 Issue of Proceedings of the 3rd annual meeting animal care - Univ. of Illinois	Koshland	H. Maile	3-193-3
3-10	Spectrometer - Physics	W. Smith	R. J. Walton	3-194-3 thru 3-195-3
3-12	Water depth indicater	de Laguna	R. J. Walton	3-196-3 thru 3-197-3
3-12	Indise of spectrometer - Physics	W. Smith	R. J. Walton	3-198-3
3-13	Pictures of horse	Saunders	P. Bennett	3-199-3 thru 3-200-3
3-16	PM's of pathology tissue	Godwin	R. F. Smith	3-201-3 thru 3-215-3
3-17	Transition from ground states	Sayre	Maile	3-216-3
3-17	Transition from ground states	Sayre		3-217-3

Date	Caption	Dept.	Photographer	Number
3-17	A.G. Synchroton 50 BEV	Jacobus	Maile	3-218-3
3-17	Freq. Measuring Equipment Graph	L. Smith	Maile	3-219-3
3-17	Same as above	L. Smith	Maile	3-220-3
3-17	Line graph. intensity vs time	"	"	3-221-3
3-17	ΔF/RT	Wiswall	"	3-222-3
3-17	Study of magnet for 50 BEV	Jacobus	"	3-223-3
3-17	Neutron Detector	/~~Smith~~/ Handloser	Smith	~~3-224~~-3
3-17	"	"	"	3-225-3
3-17	"	"	"	3-226-3
3-17	"	"	"	3-227-3
3-17	Chromosomes	Sparrow	"	3-228-3
3-18	Fan test traces	R. Powell	"	3-229-3
3-18	"	"	"	3-2 30-3
3-18	Stored energy and lattice distortion in diamond	Dienes	"	/~~3-231-3~~/ 3-231-3
3-18	drawing	"	"	3-232-3
3-18	drawing	"	"	3-233-3
3-18	Characteristics of radiation damage model for diamond	"	"	3-234-3
3-18	Elastic constant change in radiation diamond	"	"	3-235-3
3-18	Bombarded silicon	"	"	3-236-3
3-18	Probe	"	Garfield	3-237-3
3-18	"	"	"	3-238-3
3-19	Curve	L. Smith	Simack	3-239-3
3-19	Curve	L. Smith	Simack	3-240-3
3-19	Specimen elongation vs. Hours	Walsh	Simack	3-241-3
3-19	Pile creep run	"	"	3-242-3
3-19	Pile creep run 350 Centigrade	"	"	3-243-3

Date	Caption	Dept.	Photographer	Number
3-19	Line diagram of appa ratus	Walsh	Simack	3-244-3 .
3-19	Elastic Pi HE collisions	Whittemore	Simack	3-245-3
3-19	"	"	"	3-246-3
3-19	"	"	"	3-247-3
3-19	"	"	"	3-248-3
3-19	"	"	"	3-249-3
3-19	Test loading of table	//~~Walton~~// Hornbostle	Walton	3-250-3
3-19	"Harp", recording instruments & tanks.	Turovlin ~~Hornbostle~~	Walton	3-251-3
3-19	Same as above	Turovlin	"	3-252-3
3-2 0	Coincidence of mutations in endO-sperm	~~Simack~~// Singleton	Simack	3-253-3
3-20	Log maize endosperm mutations	"	"	3-254-3
3-20	Mutations in maize endosperm	"	"	3-255-3
3-20	Table 2, maize endosperm	"	"	3-256-3
3-20	graph as above	"	"	3-257-3
3-20	Effect of chromic gamma radiation	"	"	3-258-3
3-20	Graph	"	"	3-259-3
3-20	Composite of Neg#8-231-1,8-3-1	"	"	3-260-3
3-20	Graph- Lime during day, source shielded	"	"	3-261-3
3-20	Graph, mutation rates	"	"	3-262-3
3-20	Second scattering coefficient, Beta, vrs. Scattering angle	Vineyard	"	3-263-3
3-20	Ratio of 2nd to 1st scattering coefic-ients	Vineyard	"	3-264-3
3-2 0	P32 metamorphosing tissue	Gennaro	Bennett	3-265-3
3-20	P32 in the residue	"	"	3-266-3
3-2 0	Loop "E"	Baries	Wa lton	3-267-3
3-20	Copy- growth of tracks in argon	R. Carter	Maile	3-268-3
3-20	Copy- growth of tracks in argon	R. Carter	"	3-269-3

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Date	Caption	Dept.	Photographer	Number
3-20-3	Skull X-ray	Medical	Maile	3-271-3
3-20-3	" "	"	"	3-272-3 thru 3-278(Incl)
3-20-3	PM of Radio autograph of Brine Schrimp	Bio	Dr Gennaro Jr. ~~Dr Gennaro~~	3-279-3
3-23-3	Effect of blood flow on transcapillary diffusion of urea in the isolated, perfused hindleg of the cat	Renkin	Simack	3-2 80-3
3-2~~4~~3-3	Effect of bloodflow on transcapillary diffusion of antipyrine etc.	"	"	3-281-3
3-23-3	Effect of flow on apparent distribution etc.	"	"	3-282-3
3/17/53	Ginko plants	Biology Christensen	Walton	C3-283-3
"	"	"	"	C3-284-3
"	Tradescantia	"	"	C3-285-3
3/23/53	Alkali Cation Radius, R	Frazer Physics	Maile	3-286-3
"	(P,O) or (as,O) Distance/alkali cation radius	"	Maile	3-287-3
"	Transition in $ND_4D_2AsO_4$	"	Maile	3-288-3
3-24-53	H. J. Curtis, portrait	Curtis	Garfield	3-289-3
"	" "	"	"	3-290-3
"	" "	"	"	3-291-3
"	Rhodium, resonance parameter, graph	Sailor	Simack	3-292-3
"	Neutron Energy, graph	"	"	3-293-3
"	Pollycrystalline, Fe	Hughes	Maile	3-294-3
"	Graph	"	"	3-295-3
	"	"	"	3-296-3
"	"	"	"	3-297-3
3-25-53	PM of path. tissue	Saunders	Smith	3-298-3

Date	Caption	Dept.	Photographer	Number
3/25/53	Cross section of brain with tumor	Godwin	Smith	3-299-3
"	"	"	"	3-300-3
"	"	"	"	3-301-3
"	"	"	"	3-302-3
"	"	"	"	3-303-3
3/25/3	Luzula stem	Sparrow	"	3-304-3
"	Corn Endosperm	Steinheimer	"	3-305-3
3/20/53	Tape and Galvanometer depth indicator	DeLaguna Geology	Walton	3-306-3
"	Two types of floats and their respective recording sheets	"	"	3-307-3
3/20/53	Coil detail of stepup section	Mede Cosmo	"	3-308-3
"	Winding coil supply reel in background	"	"	3-309-3
3/20/53	Tradescantia	Sparrow	"	3-310-3
3/20/53	Ginko plant	"	"	3-311-3
3/20/53	" "	"	"	3-312-3
3/20/53	" "	"	"	3-313-3
3/20/53	" "	"	"	3-314-3
3/20/53	" "	"	"	3-315-3
3/24/53	Core sampling tool	Powell	"	3-316-3
"	"	"	"	3-317-3
"	"	"	"	3-318-3
"	"	"	"	3-319-3
3/20/53	Chart	Koshland	Simack	3-320-3
"	"	"	"	3-321-3
"	"	"	"	3-322-3
"	"	"	"	3-323-3
"	"	"	"	3-324-3
"	"	"	"	3-325-3

Date	Caption	Dept.	Photographer	Number
3/20/53	Chart	Koshland	Simack	3-326-3
"	"	"	"	3-327-3
"	"	"	"	3-328-3
"	"	"	"	3-329-3
"	"	"	"	3-330-3
"	"	"	"	3-331-3
3/25/3	Graph	Steinheimer	Maile	3-332-3
3/20/3	Chart	Koshland	Simack	3-333-3
"	"	"	"	3-334-3
"	"	"	"	3-335-3
3/26/53	Graph- NA Excretion - % of administered Na vs. Treatment	BIO Edelman	Simack	3-336-3
3/27/53	Graph pulse heights-volts vrs counts per hundred microcoulombs	Bloom-Toppel	Simack	3-337-3
3/27/53	" " "	"	"	3/338-3
3/27/53	" " "	"	"	3-339-3
"	" " "	"	"	3-340-3
"	" " "	"	"	3-341-3
"	Neutron energy in Mev vrs. Cross-section in millibars	"	"	3-342-3
"	Pulse height vs. Neutron Energy for A36(n,a) S33	"	"	3-343-3
"	Plan view of experimental set up	"	"	3-344-3
	Graph- reduction of TPN by hexose phosphates pea roots	M. Gibbs	P. Simack	3-345-3
3-26	Graph- Effectof arsenate on FDP oxidation	M. Gibbs	P. Simack	3-346-3
3-26	Graph- TPN reduction by hexose and pentose phosphate pea leaf extract	M. Gibbs	P. Simack	3-347-3
3-26	Graph- absorption curve	M. Gibbs	P. Simack	3-348-3
3-26	Graph- effect of iodoacetamide on FDP	M. Gibbs	P. Simack	3-349-3
3-26	Graph- oxidation of hexose and pentose	M. Gibbs	P. Simack	3-350-3
3-26	Graph- TPN reduction	M. Gibbs	P. Simack	3-351-3
3-26	Graph- Ordered FeCo and disordered	Hughes	P. Simack	3-352-3

Date	Caption	Dept.	Photographer	Number
3 - 26	Graph- Intensity counts	Hughes	P. Simack	3-353-3
3-26	Graph & drawing H*C ratio	Hughes	P. Simack	3-354-3
3-26	Graph- theory 1st approx. and outer effect correction	Hughes	P. Simack	3-355-3
3-26	Graph- Neutron energy	Hughes	P. Simack	3-356-3
3-30	Gross photo of dog eyes.	Saunders	R. F. Smith	3-357-3 thru 3-358-3
3-30	PM of chromosomes	Konzak	R. F. Smith	3-359-3 thru 3-360-3
3-30	Gross photo of dog brain sections	Saunders	R. F. Smith	3-361-3
3-25	Plate II composites	Edelman	H. Maile	3-362-3
3-25	Plate I composites	Edelman	H. Maile	3-363-3
3-30	PM of pathology tissue	Godwin	R. F. Smith	3-364-3 thru ~~3-365-3~~X 3-382-3
3-26	Chlorine treatment of patient-counting room	M. Kuper	Walton & Garfield	3-383-3 thru 3-385-3
3-30	Typed tables (6)	M. Gibbs	H. Maile	3-386-3 thru 3-391-3
3-30	No. of nucleiin tomato leaf	M. Moses	H. Maile	3-392-3 thru 3-393-3
3-30	Graphs (5) regressions	Caldicott	H. Maile	3-394-3 thru 3-398-3
3-30	Graphs (2) hydrolysis of sucrose	Koshland	H. Ma ile	3-399-3 thru 3-400-3
3-30	TYped tables (15)	Stoner	P. Simack	3-401-3 thru 3-415-3
3-31	Halftone photo of pile (A rgonne)	Miles	P. Simack	3-416-3
3-31	Halftone drawing Fig. 9 Argonne Lab.	Miles	P. Simack	3-417-3

April

Date	Caption	Dept.	Photographer	Number
3-31	Graph- activity as percent of dose per liter	Robertson Farr	H. Maile	4-1-3 thru 4-2-3
3-31	Graph -K exchange in Duck red blood cells Grs. 95N-5 Co_2	Tosteson	P. Simack	4-3-3 thru 4-5-3
3-23	Color tradacantia anthers in aga	Sparrow	R. Walton	C-4-6-3
3-26	Reactor- Parts ~~mf~~ for Loop "B"	J. Klein	R. Walton	4-7-3 thru 4-13-3
3-30	Particle physics group set-up at the cosmotron	J. Burt	R. Walton	4-14-3 thru 4-15-3
3-23	Tradancantia anthers in aga	Sparrow	R. Walton	4-16-3
[illegible]-25	completed rails cosmotron	J. Mede	R. Walton	4-17-3 thru 4-18-3
3-27	Kalanchoe plants	Christensen	R. F.Smith	4-19-3
4-1	Cats heart	Saunders	R. F. Smith	4-20-3
4-1	Cats gall bladder	Saunders	R. F. Smith	4-21-3
4-1	Graph- K exchange in duck red blood cells Gas: $95O_2$:5 $6o_2$	Tosteson	P. Simack	4-22-3 thru 4-23-3
4-2	PM of radio autograph seamenal tubual	Shellabarger	R. F. Smith	4-24-3 thru 4-25-3
~~4-3~~	~~Curve graph~~	~~Fluke~~	~~A. Lasky~~	
4-3	Curve graphs	Fluke	?A. Lasky	4-26-3 thru 4-28-3
4-3	Curve graphs	Carson	A. Lasky	4-29-3 thru 4-32-3
[illegible]3	typed tables	Koshland	A. Lasky	4-33-3 thru 4-34-3
[illegible]	[illegible] Loop "B"	D. Baries	R. Walton	4-35-3

Date	Caption	Dept.	Photographer	Number
4-3	A . G. S. magnet	C. Lasky	R. Walton	4-36-3 thru 4-37-3
4-7	Health Physiss Survey	Cowan	H. Maile	4-38-3
4-7	Depth dose at the cosmo at 2.0 bev. acceleration energy	Cowan	H. Maile	4-39-3
4-7	Theoretical primary & secondary radiation produced by target & shielding	Cowan	H. Maile	4-40-3
4-7	BNL cosmo end of March 1953	Cowan	H. Maile	4-41-3
** 4-7	curve graphs	Mihelich	A. La sky	4-42-3 thru 4-44-3
4-7	4 schematics	Farr	A. Lasky	4-45-3 thru 4-48-3
4-8	Static eorrosion test arrangement	Atherton	M. Herbert	4-49-3
4-8	The gas inlets and outlets plus the liquid metals sampling tube are connected to a control manifold system	Atherton	M?. Herbert	4-50-3
4-8	Portable survey meter	Cowan	R. Walton	4-51-3
4-8	Integrating recorder	Cowan	R. Walton	4-52 -3
4-9	Graph- sodium equilibrium in an edema tous child	Robertson	H. Ma ile	4-53-3
4-9	Schematic drawing	Robertson	H. Maile	4-54-3
4-9	Graphs Growth of Pneumococcus type III	Drew	H. Maile	4-55-3 thru 4-58-3
4-7	Trad anther in agar agar.	S parrow	R. J. Walton	4-59-3
4-2	Tank for neutron beam analyser Cosmo	J. Mede	R. Walton	4-60-3 thru 4-62-3
4-10	Color transpariencies tradascantia anthers in agar agar CN# CN5-331-59 = C4-63-3	Saprrow	R. Walton	C4-63-3 thru C4-64-3
4-10		B. Teitte	J.F. GARFIELD	4-65-3 thru 4-66-3

Date	Caption	Dept.	Photographer	Number
4-9	Illustrations for ta lk (22)	L. Stang	H. Ma ile	4-67-3 thru 4-88-3
4-53	Cosmo ring looking at injector system from floor (Master color trans)	AEC-Burt	Walton & Bull	C 4-89-3
4-53	Cosmo ring with shielding (master color trans pariency)	AEC-Burt	Walton & Bull	C 4-90-3
4-53	View from MG room window showing Van de Graaff injector system COSMO (Master color trans pariency)	AEC-Burt	Walton & Bull	C 4-91-3
3-17	Copy Neg. Experimental hole	Fox	H. Maile	4-92-3
4-8	A rgonne Labs- equipment on top of the Pile	R. Powell	R. Walton	4-93-3
4-10	Barley seedlings	Konzak	R. Walton	4-94-3 thru 4-99-3
9	Radiated plants	Christensen	R. Walton	4-100-3 thru 4-103-3
4-7	Mutation in plant caused by X-ray	Christensen	R. Walton	4-104-3
4-9	S plit leaf mutation on plant	Christensen	R. Walton	4-105-3
4-7	Plant treated with X-rays note variation in thickness of stem	Christensen	R. Walton	4-106-3
4-9	Revamping electrostatic generator	Turner	R. Walton	4-107-3 thru 4-113-3
4-7	Coils mounted on A. G.S. magnet	C. Lasky	R. Walton	4-114-3
4-6	Wire loop used in test of 18" cyclotron magnetic field	Cottingham	J.F. Garfield	4-115-3
4-6	Wire loop in the magnetic field of the 18" cyclotron	Cottingham	J.F. Garfield	4-116-3
4-6	Interaction betweeen neutral radiations and matter	Christensen	Maile	4-117-3
6	Requirements for tracer experiments	Robertson	Maile	4-118-3
4-13	Magnet	Mihelich	R.F. Smith	4-119-3
4-3	Molten bismuth	Weisman	R. Walton	4-120-3

Date	Caption	Dept.	Photographer	Number
4-53	Geranium buds (3)	Christensen	R. Walton	C4-121-3 thru C4-123-3
4-53	Radiation greenhouse (2)	Sparrow	R. Wa lton	C4-124-3 thru C4-125-3 CN4-134-3
4-53	Effects of gamma radiation on geranium plants (5)	Christensen	R. Walton	C4-126-3 thru C4-130-3
4-16	Graph- Depth dose from chemical reaction for three concentrations of Boron ^{10} in Tissue	Farr	A. Lasky	4-131-3
4-6	Typed table irradiation cases	Farr	A. Lasky	4-132 -3
4-16	13 graphs and typed tables	Hornyak	A. Lasky	4-133-3 thru 4-145-3
4-9	Line chart for ca lcul ting plasma proteins, hemoglobin and hematocrit from gra vities of plas ma and blood	Fa rr	H. Maile	4-146-3
4-53	Radiated barley (6) COLOR	Konzak	R. Wa lton	C4-147-3 thru C4-152-3
4-17	9 Typed tables and line drawings	Woodsum	P. Simack	4-153-3 thru 4-161-3
4-53	A. H. S parrow passport neg.	S parrow	P. BENNETT	4-162-3
4-53	R. P. Shutt passport neg.	Shutt	P. Bennett	4-163-3
4-16	Schematic drawing- twin beam collimator and counter	Goldberg	A. Lasky	4-164-3
4-16	Graph- 240 mils Cd 2 cmB	Goldberg	A. Lasky	4-165-3
4-21	Molten bismuth	J.Weisman	R. Wa lton	4-166-3
4-20	Momentum spectra	Thorndike	A. Lasky	4-167-3 thru 4-169-3
·20	Schematic drawing	Thorndike	A. Lasky	4-170-3
4-20	Curve graph	Welker	A. Lasky	4-171-3 thru 4-172-3
4-20	Chart	Welker	Lasky	4-173-3

Date	Caption	Dept.	Photographer	Number
4-20	Curve graphs (5)	Carter	A. Lasky	4-174-3 thru 4-178-3
4-20	Curve graphs (3)	Kat o	A. Lasky	4-179-3 thru 4-181-3
4-20	Curve graphs (2)	Myers	A. Lasky	4-182-3 thru 4-183-3
4-20	Curve graph magnetic susceptibility of wursters blue pe rchlorate	Elliott	A. Lasky	4-184-3
4-20	Reciprocal molar susceptibility of wursters blue perchlorate	Elliott	A. Lasky	4-185-3
4-20	Schematic outline of double pulsing scintillator neutron detector	Bloom	A. Lasky	4-186-3
4-9	Oscillographs (4)	Kikuchi	H. Maile	4-187-3 thru 4-190-3
4-16	Signs of leak in electronics ceiling	Van Horn	J.F. GARFIELD	4-191-3
4-16	Leak in electronics ceiling	Van Horn	J.F. Garfield	4-192-3
4-1 9	Salants technical lab.	Van Horn	J.F. Garfield	4-193-3
4-21	Typed table	Godwin	P. Bennett	4-194-3
4-21	Assumptions: resonances	V.Sailor	P. Bennett	4-195-3 thru 4-196-3
4-21	Slow neutron resonances	V. Sailor	P. Bennett	4-197-3
4-20	Nuclear moments lab.	Van Horn	J.F. Garfield	4-198-3 thru 4-199-3
4-21	Schematic drawings (7)	Hatch	A. Lasky	4-200-3 thru 4-206-3
4-21	Estimated obligation by project and budget years typed graph	Van Horn	P. Bennett	4-207-3 thru 4-208-3
4-21	Chart	Mihelich	P. Bennett	4-209-3 thru 4-212-3

Date	Caption	Dept.	Photographer	Number
4-21	Momentum spectra at production carbon target	Thorndike	P. Bennett	4-213-3
4-21	Momentum spectra in cloud chamber carbon target	Thorndike	P. Bennett	4-214-3
4-21	Schematic p. 142 Radioisotopes techniques Vol II	L. Stang	P. Bennett	4-215-3 thru 4-216-3
4-21	PM's of pathological tissue	Godwin	R. Smith	4-217-3 thru 4-218-3
4-21	charts on I^{129}, Xe^{129}, and S^{35}	der Mateosian	Bennett & Maile	4-219-3 thru 4-223-3
4-22	Schematic He ting plants serving occupied buildings.	Ma c Cornack	H. Maile	4-224-3
4-21	Curve graph p 630 Phys. Rev	Friedlander	P. Bennett	4-225-3
4-21	Curve graph p 612 Phys. Rev.	Friedlander	P. Bennett	4-226-3
4-21	Graph - P 95 A nnual review of nuclear sci Vol II 1953	Friedlander	H. Maile	4-227-3
4-22	Graph- Resonances No 16	Courant	P. Simack	4-228-3
4-21	Discriminator plateaux of fission counter with Pu 239 Foils	Rubinson	P. Bennett	4-229-3
4-21	Fission rate vs. depth of counter in pile	Rubinson	P. Bennett	4-230-3
4-21	Schematic- double chamber fission counter	Rubinson	P. Bennett	4-231-3
4-21	Discriminator plateaux of fission counter with U235 foils under standard run conditions	Rubinson	P. Bennett	4-232-3
4-17	Effect of radiation on a geranium bud	Sparrow	R. Walton	4-233-3
4-16	Steel hood for cutting anther, and placing in culture dish	Sparrow	R. Walton	4-2 34-3 thru 4-235-3
4-15--	Drawing and welding operation on aluminum tubing	Turovlin	R. Walton	4-236-3 thru 4-240-3

Date	Caption	Dept.	Photographer	Number
4-20	Graphs (8)	Woodsum	P. Bennett	4-241-3 thru 4-248-3
4-23	Physiology La b.	Van Horn	R. F. Smith	4-249-3
4-21	Medical research center	Van Horn	A. Lasky	4-250-3 thru 4-251-3
4-21	Physical science center	Van Horn	A. Lasky	4-252-3
4-22	Graph- Blood glucose	Gidez9	P. Simack	4-253-3 thru 4-254-3
4-22	Graphs (2)	Gidez	P. Simack	4-255-3 thru 4-256-3
4-22	6 line drawings	Friedlander	P. Simack	4-257-3 thru 4-262-3
4-14	Spectrometer assembly Reactor	H. Foote	R. Walton	4-263-3 thru 4-271-3
4-23	Graph- Hafnium (BNL fast chopper)	Goldberg	H. Maile	4-2 72-3
4-22	Table-Neutron capture convers ion data	Kraushaar	P. Simack	4-273-3
4-22	Graph	Kraus haar	P. Simack	4-274-3
4-21	Hot Lab- Waste/ concentration lab	P. Richards	R. Walton	4-275-3 thru 4-282-3
4-17	Bio. Radiated grain seedlings	Caldicott	R. Walton	4-283-3 thru 4-284-3
~~4-20~~	~~Aerial view of sit site -NO GOOD~~ (deleted.)		~~R. Walton~~	~~4-285-3~~
4-24	tables typed (3)	Friedlander	D. Fuka	4-286-3 thru 4-288-3
4-24	Diagram	Mihelich	D. Fuka	4-289-3
4-24	Graphs (6)	Mihelich	D. Fuka	4-290-3 thru 4-295-3
4-24	Graphs (3)	V. Sailor	D. Fuka	4-296-3

Date	Caption	Dept.	Photographer	Number
4-24	Diagram Crystal spectrometer	Foote	D. Fuka	4-299-3
4-24	Diagram Scattering detector detail	Foote	D. Fuka	4-300-3
4-24	line drawing	Foote	D. Fuka	4-301-3
4-22	Aerial map of upton site	Van Horn	A. Lasky	4-302-3 thru 4-303-3
4-21	copy of composite plate- chromosomes	Dollinger	A. Lasky	4-304-3 thru 4-310-3
4-23	Macro photo of tissue transplant in eye of mouse	Stoner	R. F. Smith	4-311-3
4-24	Table-Silver	Ka to	D. Fuka	4-312-3
4-22	Site plan obligations budget years 1 thru 12	Van Horn	M. Herbert	4-313-3 thru 4-317-3
4-22	Ash removal old powerhouse	Van Horn	J.F. Garfield	4-318-3
4-22	Typical pile labora tory	Van Horn	J.F. Garfield	4-319-3
4-23	Curve graph High energy region	Weiss	A. Lasky	4-320-3
4-23	Low energy spectrum close to the source	Weiss	A. Lasky	4-321-3
4-23	Curve graph low energy spectrum	Weiss	A. Lasky	4-322-3
4-23	Schematic experimental arrangement	Weiss	A . Lasky	4-323-3
4-23	A ttehuation of low energy spectrum with distance	Weiss	A . Lasky	4-324-3
4-23	Curve Graph comparison of theoretical and experimental low energy spectrum	Weiss	A. Lasky	4-325-3
4-23	Low energy scintillarion detector schematic	Weiss	A. Lasky	4-326-3
4-23	Curve graph comparison of dosage	Weiss	A. La sky	4-327-3
4-21	Dandelion mutation	Christensen	R. Smith	4-328-3
4-28	PM's of chromosomes	Steffenson	R. Smith	4-329-3 thru 4-342-3
4-24	Aerial view of site	Van Horn	R. Walton	4-343-3 thru 4-344-3
4-28	PM's of pathology tissue	Sa unders	R. F. Smith	4-345-3 thru 4-361-3

Date	Caption	Dept.	Photographer	Number
4-27	Graphs (3) 500 Mev beam	Lindenbaum	A. Lasky	4-362-3 thru 4-364-3
4-27	Table- Yields of Nuclides Produced in the bomba rdment of copper with protons.	Friedlander	A. Lasky	4-365-3
4-27	Table - Silver	Kato	A. Lasky	4-366-3
4-27	Table- Values of $\Delta M + 104$	LG.Smith	R. Simack	4-367-3
4-27	Decay Scheme of I 129	Der Mateosian	A. Lasky	4-368-3
4-27	Graph- Energy distribution of I 129	der Mateosian	A. Lasky	4-369-3
4-27	K Graph - A ir showers	O.Piccioni	P. Simack	4-370-3
4-27	Line drawing front view	O. Piccioni	A. Lasky	4-371-3
4-27	Line drawing - side view	O.Piccioni	A . Lasky	4-372-3
4-2 7	Table- Values of M x 104	LG S mith	P. Simack	4-373-3
4-28	Indium scattering resonance	Foote	H. Maile	4-374-3
4-2 8	Copy of spectro composite	Mihelich	A. Lasky	4-375-3 thru 4-376-3
4-28	4 graphs	Yuan	H. Maile	4-377-3 thru 4-380-3
4-21	Copy of Composite plate S	Orlowski Caldecott	A. Lasky	4-381-3 thru 4-382-3
~~4-29~~	~~Transuranium~~	~~Orlowski~~	~~A. Lasky~~	
4-29	Transuranium curves in Pb	O.Piccioni	H. Maile	4-383-3
4-29	Typed Table - isotope data	Steel	A. Lasky	4-384-3
4-29	Graph- Isotope/G	Steel	A . Lasky	4-385-3
4-29	Graph- instantaneous protein synthesis rate	Steel	A. La sky	4-386-3
4-29	Site plan budget years 9, 10, 11, 12	Van Horn	J.F. Garfield	4-387-3
4-29	S ite plan	Crozier	A. Lasky	4-388-3
4-28	Illustrations from "safety zoo" Pages 21, 9	O'Conner	A. Lasky	4-389-3 thru 4-390-3

Date	Caption	Dept.	Photographer	Number
4-24	A erial view of site	Ha worth	R. Walton	4-391-3
4-27	Copy from Polaroid	Moses	H. Maile	4-392-3 thru 4-397-3
4-29	PM's of cancer tissue	Godwin	R. F. Smith	4-398-3 thru 4-414-3
4-22	Luzula plants	Sparrow	R. Walton	4-415-3 thru 4-416-3
4-22	Tobacco plants	Sparrow	R.Walton	4-417-3
4-22	Aerial gamma field	Sparrow	R. Walton	4-418-3
4- 29	Nicotiana buds	Sparrow	R. Walton	C4-419 -3 thru C4-420-3
5-1	Present building occupancy	Van Horn	R. Fuka	4-421-3
5-1	Physics department	Van Horn	R. Fuka	4-422-3
5-1	Central steam plants individual heating units (64)	Va n Horn	R. Fuka	4-423-3
5-1	Master plan	Van Horn	R. Fuka	4-424-3
5-1	spectroscopic strip copy of	Kraushaar	M. H. Bull	4-425-3
5-1	Budget years 1,2	Van Horn	J.F. Garfield	4-426-3
5-1	Budget years 3, 4	Va n Horn	J.F. Garfield	4-427-3
5-1	Budget years 5, 6	Van Horn	J.F. Garfield	4-428-3
5-1	Budget years 7, 8	Va n Horn	J.F. Garfield	4-429-3
5-1	Budget years 9, 10, 11, 12	Van Horn	J.F. Garfield	4-430-3
5-4	Graph	Kraushaa r	D. Fuka	4-431-3
4-10	Composite - chromosomes	Orlowski	H. Maile	4-432-3

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Date	Caption	Dept.	Photographer	Number
5-4	Graph- Percent disentrics and centric rings per chromosome	Steffensen	R. Fuka	5-1-3
5-1	Showing crowded conditions in T- 109	Van Horn	R. Walton	5-2-3
5-4	Accumulative savings with permanent plan	Van Horn	P. Bennett	5-3-3
5-4	Yearly cost	Van Hotn	P. Bennett	5-4-3
4-30	Cosmo- aerial view of cos mo	Ha worth	R. Wa lton	5-5-3
4-30	A erial view of biology	Haworth	R. Walton	5-6-3
4-30	Aerial view of waste tanks	P. Richards	R. Walton	5-7-3 thru 5-8-3
4-29	Radiated dandilion	Christensen	R. Walton	C5-9-3
5-1	Cosmotron research area	Haworth	Garfield & Smith	5-10-3
5-4	Chart- (days)	Perlman	P. Bennett	5-11-3
	Channel Position or pulse size	Perlman	P. Bennett	5-12-3
	Voltage chart	Perlman	P. Bennett	5-13-3
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	Drawing Fig 2	Perlman	P. BEnnett	5-15-3
5-1	Spectrometer	A ntal	Walton & Smith	5-16-3
4-30	Men's bowling team championship- Fire department	Vogt	A.P. Chris.	5-17-3
4-30	High bowling scorers Texeira and Palermo	Vogt	A.P. Chris	5-18-3
5-4	Curves graphs (4)	Hudis	R. Fuka	5-19-3 thru 5-22-3
5-6	Top of pile cleared for publication	Haworth	R. Walton	5-23-3
5-6	Interior of T-480	Haworth	R. Walton	5-24-3
5/53	BNL log D2305 - LMFR 1	Miles	M. Bull	C 5-25-3
5-4	copy of machinery	Ja cobus	~~XXXXXXX~~ D. Fuka	5-26-3
5-9	External cooled L.M.F.R. power plamt	Williams	Fuka	5-27-3
5-11	PM of Pa thology tissue	Saunders	R. F. Smith	5-28-3

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5-11	PM of chromosomes	Steffensen	R. F. Smith	5-29-3 thru 5-30-3
5/7/53	Rear view of magnet section	Cosmotron J. Mede	R.J. Walton	5-31-3
"	Side view of magnet section	Cosmotron J. Mede	"	5-32-3
"	Front view of magnet section	Cosmotron J. Mede	"	5-33-3
"	Side view of magnet	Cosmotron J. Mede	"	5-34-3
5-12	sodium uptake in hand comparedwith sodium disappearance from plasma	Robertson	A. Lasky-	5-35-3
5-12	graphs	Miskel	Fuka	5-36-3 thru 5-37-3
5/12/53	Graph	Shore	Herbert	5-38-3
"	~~Graph~~ Laminated Stack	"	Herbert	5-39-3
"	Graph	"	Herbert	5-40-3
5-11	Graph- fission counter data	H. Sleeper Reac.	Simack	5-41-3
5-11	Graph- gamma ray attenuation for different plates and shutters	H. Sleeper	Simack	5-42-3
5-11	Graph- Thermal neutron attenuation as a function of source plate size	H. Sleeper	?Simack	5-43-3
5-11	Graph- thermal neutron attenuation	H. Sleeper	Simack	5-44-3
5-11	Graph- thermal neutron traverses as a function of source life y tra verses	"	Simack	5-45-3
5-12	Graph- Energy difference between etc.	Goldhaber Phy.	Simack	5-46-3
5-12	Apparatus drawing	Perlman Chem	Simack	5-47-3
5-12	copy from glass plates	Levy	R. Fuka	5-48-3 thru 5-49-3
5-9	Visitors day three week old visitor	J. Burt	R. Walton	5-50-3
5-8	Sample holder assembled view	Seidl	R. Walton	5-51-3
5-8	Exploded view of sample holder.	Seidl	R. Walton	5-52-3

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5-6	Mutation dandilion	Christensen	R. Walton	5-53-3
5-7	Radiated Ginko plants	Christensen	R. Walton	5-54-3 thru 5-58-3
5-5	1st shot of pile top	Haworth	Smith & Walton	5-59-3
5-5	West balcony of pile	Haworth	Smith & Walton	5-60-3
5-5	East balcony of pile	Haworth	Smith & Walton	5-61-3
5/13/53	PM of Chromosomes Slide #1	Steffensen Biology	Smith	5-62-3
"	PM of Chromosomes Slide #1	"	"	5-63-3
"	PM of Chromosomes Slide #1	"	"	5-64-3
"	PM of Chromosomes Slide #1	"	"	5-65-3
"	PM of Chromosomes Slide #2	"	"	5-66-3
"	PM of Chromosomes Slide #2	"	"	5-67-3
"	PM of Chromosomes Slide #2	"	"	5-68-3
"	PM of Chromosomes Slide #2	"	"	5-69-3
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"	PM of Chromosomes Slide #2	"	"	5-71-3
"	PM of Chromosomes Slide #2	"	"	5-72-3
5/6/53	Photomicrograph of parallel proton tracks with star event created in Cosmotron	Haworth	Smith	5-73-3
5-12	Graph- Kernspin und nucleonenjahl	Goldhaber	Simack	5-74-3
5-12	Graph- S chmidt diagramm	Goldhaber	Simack	5-75-3
5-12	Graph- Quadrupolmemente und magnitische	Goldhaber	Simack	5-76-3
5-12	Graph- Schmidt diagramm	Goldhaber	Simack	5-77-3
5-14	Cosmotron console	H. Ka ssner	R. Walton	5-78-3
5-14	Cosmo- raceway and main panel	R. Kassner	R. Walton	5-79-3
5-14 -	Raceway and panel	R. Kassner	R. Walton	5-80-3
5-11	Over-all view of electrical contactor	J Klein	R. Walton	5-81-3
5-11	Close up of contact tip for Loop "E"	J. Klein	R. Walton-	5-82-3
5-14	Nuc. Eng- sample plates fore radiation	J. Klein	?R. Walton	5-83-3

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5-9	Cyclotron Electrostatic generator	Turner	R. Walton	5084-3
5-9	Cyc- tail assembly of electrostatic generator	Turner	R. Wa lton	5-85-3
5-9	Cyc- Easting for Van de Graaff generator	Turner	R. Walton	5-86-3
5-9	Cyc- Easting for Van de Graaf generator	Turner	R. Walton	5-87-3
5-12	Sump tank exterior	Klein	J. F. Garfield	5-88-3 thru 5-89-3
5-12	Degasser	J.Klein	J.F. Garfield	5-90-3 thru 5-91-3
5-4	Neutron velocity spectr meter (rear view)	Higginbothum	J. F. Garfield	5-92-3
5-4	Neutron velocity spectrometer	Higginbothum	J. F. Garfield	5-93-3
5-4	Neutron velocity spectrometer (detail)	Higginbothum	J.F. Garfield	5-94-3
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5-25	Article 18 Fig. 2	Jacobus	Darkroom	5-95-3
5-25	Article 26 Fig 8	"	"	5-96-3
5-25	Article 23 Fig 1	"	"	5-97-3
5-25	Article 18 Fig 7	"	"	5-98-3
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5-25	Article 3 Fig 1	"	"	5-104-3
5-25	Article 8 Fig 5	"	"	5-105-3
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5-25	Article 3 Fig 6	Hacobus	Darkroom	5-108-3
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5-25	Article 3 Fig 8	"	"	5-111-3
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5-25	Article 11 Fig 1	"	"	5-113-3
5-25	Article 3 Fig 10	"	"	5-114-3
5-25	Article 3 Fig 9	"	"	5-115-3
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5-25	Article 3 Fig. 11	"	"	5-120-3
5-25	Article 16 Fig 2	"	"	5-121-3
5-25	Article 20 Fig 4	"	"	5-122-3
5-25	Article 3 Fig 14	"	"	5-123-3
5-25	Article 13 Fig 5	"	"	5-124-3
5-25	Article 13 Fig 4	"	"	5-125-3
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5-25	Article 15 Fig 3	"	"	5-128-3
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5-25	Article 3 Fig 3	"	"	5-130-3
5-25	Article 14 Fig . 7	"	"	5-131-3
5-25	Article 14 Fig 6	"	"	5-132-3
5-25	Article 14 Fig 2	"	"	5-133-3
5-25	Article 14 Fig 1	"	"	5-134-3
5-25	Article 14 Fig 5	"	"	5-135-3

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5-25	Article 27 Fig 1.	Jacobus	Darkroom	5-136-3
5-25	Article 14 Fig 3	"	"	5-137-3
5-25	Article 6 Fig 2	"	"	5-138-3
5-25	Article 10 Fig 3	"	"	5-139-3
5-25	Article 5 Fig 5	"	"	5-140-3
5-25	Article 5 Fig 3	"	"	5-141-3
5-25	Article 5 Fig 2	"	"	5-142-3
5-25	Article 6 Fig 1	"	"	5-143-3
5-25	Article 10 Fig. 1	"	"	5-144-3
5-25	Article 10 Fig 2	"	"	5-145-3
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5-25	Article 17 Fig 4	"	"	5-147-3
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5-25	Article 4 Fig. 1	"	"	5-149-3
5-25	Article 16 Fig. 3	"	"	5-150-3
5-25	Article 26 Fig. 1	"	"	5-151-3
5-25	Article 16 Fig 1	"	"	5-152-3
5-25	Article 25 Fig. 3	"	"	5-153-3
5-25	Article 25 Fig. 4	"	"	5-154-3
5-25	Article 25 Fig 5	"	"	5-155-3
5-25	Article 3 Fig. 2	"	"	5-156-3
5-25	Article 3 Fig. 12	"	"	5-157-3
5-25	Article 8 Fig. 1	"	"	5-158-3
5-25	Article 8 Fig. 2	"	"	5-159-3
5-25	Article 8 Fig. 3	"	"	5-160-3
5-25	Article 13 Fig. 6	"	"	5-161-3
5-25	Article 21 Fig. 1	"	"	5-162-3
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5-25	Article 12 Fig. 1	Jacobus	Darkroom	5-164-3
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5-25	Article 26 Fig. 2	"	"	5-166-3
5-25	Article 22 Fig. 2	"	"	5-167-3
5-25	Article 15 Fig. 5	"	"	5-168-3
5-25	Article 17 Fig. 2	"	"	5-169-3
5-25	Article 11 Fig. 4	"	"	5-170-3
5-25	Article 8 Fig. 4	"	"	5-171-3
5-25	Article 1 Fig. 2B	"	"	5-172-3
5-25	Article 11 Fig. 2	"	"	5-173-3
5-25	Article 23 Fig. 3	"	"	5-174-3
5-25	Article 15 Fig. 2	"	"	5-175-3
5-25	Article 7 Fig. 2	"	"	5-176-3
5-25	Article 2 Fig. 1	"	"	5-177-3
5-27	Cross sections of human brain	Godwin	R. F. Smith	5-178-3 thru 5-179-3
5-27	PM of chromosomes 1000x S lide # 123A	Steffensen	R. F. Smith	5-180-3
5-27	PM of chromosomes 1000x Slide # 123A	Steffensen	R. F. Smith	5-181-3 thru 5-182-3
5-27	Electric Motor	Siedl	R. Smith	5-183-3
5-27	Table summary of building program (in square feet)	Lancaster	A. Lasky	5-184-3
5-27	Type tablesome fundamental characteristics which might be associated with radio sensitivity of cells	Konzak	A. Lasky	5-185-3
5-27	Curve graph thermal neutron exposure data	Konzak	A. Lasky	5-186-3 thru 5-187-3
5-27	Curve graph volume & moisture content			

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5-27	Curve graph wetting & X-ray data	Konzak	A. Lasky	5-189-3
5-27	Curve graphs (5)	D. Hughes	A. Lasky	5-190-3 thru 5-194-3
5-26	Close-up of drum & slit	A nderson	R. Walton	5-195-3
5-26	A ssimulation counting and recording set-up	A nderson	R. Walton	5-196-3
5-25	Spacers for fast chopper	Seidl	R. Walton	5-197-3
5-25	Grain seedlings	Konzak	R. Walton	5-198-3 thru 5-202-3
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4-24	Dedication of waste concentration lab.	S.Christoffersen	JF. Garfield	5-206-3
4-24	(7) pictures of Mud storm (cars)	Lefkowitz	J. F. Garfield	5-207-3 thru 5-213-3
5-18	Cosmo- Console	R.Kassner	R. Walton	~~XXXXXX~~ 5-214-3
5-9	Visitors day pictures (14)	J. Burt	R. Walton	5-215-3 thru 5-228-3
5/20/53	Graph	Smith Meteorology	Herbert	5-229-3
"	Graph	"	"	5-230-3
"	Graph	"	"	5-231-3
"	Graph	"	"	5-232-3
"	Graph	"	"	5-233-3
"	Graph	"	"	5-234-3
5-20	Cyclotron Sample holders for cyc- bombardment	Ha rris	R. Walton	5-235-3 thru 5-238-3
5-12	PM of chromosomes Slide # A 5381 PGA	1000 x Sparrow	R. Smith	5-239-3
5-23	PM's of cancer tissue	Godwin	R. Smith	5-240-3 thru 5-247-3
5-23	Gross photo of lung	Godwin	R. Smith	5-248-3 thru 5-249-3
5-8	Deterioration by termites in Bldg. 109	Van Horn	J.F. Garfield	5-250-3 thru 5-251-3
5-26	Table distribution of isotope in glucose etc.	Gibbs	Simack	5-252-3
5-26	Table ~~xxxx~~ biosynthesis of Ribose etc.	Gibbs	Simack	5-253-3
5-26	Table degradation of ethanol	Gibbs	Simack	5-254-3
5-26	Table degradation of lactic acid	Gibbs	Simack	5-2 55-3

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5-24	Copy from slide Rockerfeller institute medical research - A mine oxidase data	Catzras,	A. Lasky	5-256-3
5-27	Glass tubing	Wold	R. Walton	5-257-3 thru 5-262 -3
5-20	Reactor - fanhouse	R. Powell	R. Walton	5-263-3 thru 5-264-3
5-20	Console- Pile	R. Powell	R. Walton	5-265-3
5-20	Unloading a sample from the Pile × Cleared for publication	R. Powell	R. Walton	5-266-3
5-2 7	Robertson's Folly	Robertson	Garfield	5-267-3
5-28	Copy of lantern slide	De Gennaro	M.H. Bull	5-268-3
5-27	Curve graphs - composite	Robertson	A. Lasky	5-269-3
5-27	Schematic drawing	Robertson	A. Lasky	5-270-3
5-27	Curve graph	Robertson	A. Lasky	5-271-3

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5-29	Composite of graph and x-ray strip	Anderson	P. Simack	6-1-3
5-53	BERA play shots	Vogt	R. Smith	6-2-3 thru 6-3-3
5-26	A pple leaf showing mutation	Christensen	R. Smith	6-4-3
5-26	Cockle burr	Christensen	R, Smith	6-5-3
5-29	Tobacco plants	Christensen	R. Smith	6-6-3
5-29	Zinnia plants	Christensen	R. Smith	6-7-3
5-26	PM's of pathology tissue	Godwin	R. Smith	6-8-3 thru 6-15-3
5-22	Muta nt flower on snapdragon (3) color	Sparrow	R. Walton	C6-16-3 thru C6-18-3
5-25	Ladies bowling champs 1953	D. Vogt	R. Walton	6-19-3 thru 6-20-3
5-25	Dogs eye	Saunders	R. Walton	6-21-3
6-2	Slug dissolver	Rubinson	H. Maile	6-22-3
6-2	Double chamber fission counter	Rubinson	H. Maile	6-23-3
6-3	Copy neg of C5-25-3 LMFR 1	Lashly	H. Maile	6-24-3
6-2	T- Vulgare related species	Caldicott	H. Maile	6-25-3
6-2	Tendency of interspecific crosses to diverge toward parental types	Caldicott	H. Maile	6-26-3
6-2	Trans position of chromatin from one genome to another	Caldicott	H. Maile	6-27-3
6-3	Oscillo pulse waves	Bernstein	H. Maile	6-28-3
5-29	Record photo of Plant # 1	Christensen	R. Smith	6-29-3
5-29	same as above # 5	Christensen	R. Smith	6-30-3
5-29	same as above # 7	Christensen	R. Smith	6-31-3
5-29	same as above # 8	Christensen	R. Smith	6-32-3
6-4	Engineering lab T-197	Haworth	Garfield & Smith	6-33-3
6-4	BERA Play	Vogt	Walton	6-34-3

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6-8	Typical spikes and kernals of parent plant wheat	Caldicott	H. Maile	6-35-3
6-8	Table 2 A gronomic characters of 13 induced mutants in Barley	Caldicott	H. Maile	6-36-3
6-5	Fig. 34.3 Page 349 Radio chemical studies - The fission products Book 1	Manowitz	H. Maile	6-37-3
6-4	Radioactive liquid waste system Hot Lab	S mall	H. Maile	6-38-3
6-6	Erasmus Hall H.S. shots of students and teachers with experiment	G. Wells	R. Walton	6-39-3 thru 6-40-3
6-5	Exchange reactions of Type X* + Bxetc.	Koshland	H. Maile	6-41-3
6-5	Typed table	Koshland	H. Maile	6-42-3
6-5	Maltose phosphorylase	Koshland	H. Maile	6-43-3
6-5	Frontside displacement for sucrose phosphorylase	Koshland	H. Msile	6-44-3
6-5	Frontside displacement mechanism	Koshland	H. Maile	6-45-3
6-5	Exchange catalyzed by sucrose Phos.	Koshland	H. Maile	6-46-3
6-5	Typed table Enzyme- Exchange-Stereo.	Koshland	H. Maile	6-47-3
6-5	Typed table - Uridinediphosphoglucose	Koshland	H. Maile	6-48-3
6-5	SNi Mechanism	Koshland	H. Maile	6-49-3
6-5	Typed table	Koshland	H. Maile	6-50-3
6-5	B -X + Y → B-Y + X	Koshland	H. Maile	6-51-3
6-5	Typed table	Koshland	H. Maile	6-52 -3
6-5	Attacks on terminal phosphate of ATP	Koshland	H. Maile	6-53-3
6-5	Maltose phosphorylase	Koshland	H. Maile	6-54-3
6-5	Double displacement for sucrose phos.	Koshland	H. Maile	6-55-3
6-5	Cleavage rules for enzymatic reactions	Koshland	H. Msile	6-56-3
6-5	Cleavage point of O bridge compounds	Koshland	H. Maile	6-57-3
6-5	Clevage predicted by specificity	Koshland	H. Maile	6-58-3
6-5	Double displacement for muscle phos.	Koshland	H. Maile	6-59-3
6-5	Double displacement mechanism	Koshland	H. Maile	6-60-3
6-5	Typed table	Koshland	H. Maile	6-61-3
6-5	Clevage predicted by chemical analogy	Koshland	H. Maile	6-62-3
6-5	Typed table	Koshland	H. Maile	6-63-3
6-8	Reactor schematic	Manowitz	R. Fuka	6-64-3
6-8	Mobile gamma irradiation schematic	Manowitz	R. Fuka	6-65-3

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6-5	~~[illegible]~~ Neg.			
6-9	Gut (5)	De Gennaro	H. Fuka	6-66-3 thru 6-70-3
6-10	Table I Polimerizations reactions initiated by gamma irradiations	Manowitz	M. Herbert	6-71-3
6-2	Reactor	Hansen	R. Walton	6-72-3
6-2	Reactor	Hansen	R. Walton	6-73-3
6-2	Reactor	Hansen	R. Walton	6-74-3
6-2	Ginko Plant	Christensen	R. Walton	6-75-3
5-25	Reactor Control section for Loop E	Schoener	R. Walton	6-76-3 thru 6-77-3
6-5	wavelength angstroms	Sancier	H. Maile	6-78-3
6-5	wavelength angstroms	Sancier	H. Maile-	6-79-3 thru 6-80-3
6-5	Mole fraction n-propyl ether	Sancier	H. Maile	6-81-3
6-5	wavelength, angstroms	Sancier	H. Maile	6-82-3 thru 6-83-3
6-5	Wave length Å	Sancier	H. Maile	6-84-3
6-5	H = 1400 ± 200 CAL/MOLE	Sancier	H. Maile	6-85-3
6-10	Schematic drawing Dewar for Low temperature spectroscopy	Sancier	A. Lasky	6-86-3
6-2	Root growth on plant stem due to radiation	Christensen	H. Walton	6-87-3 thru 6-93-3
6-11	Typed table - 2 formulas(CH3-C-OCHetc.)	Koshland	H. Maile	6-94-3
6-11	Transphosphory lose action of alkaline phosphate	Koshland	H. Maile	6-95-3
6-11	Role of neighboring group in a sub. rea ction	Koshland	H. Maile	6-96-3
6-11	Thiaminose	Koshland9	H. Maile	6-97-3
6-11	Clevage point in enzymatic reactions of type ROH + HOR' etc.	Koshland	H. Maile	6-98-3
6-11	Typed table 4 columns	Koshland	H. Maile	6-99-3
6-11	Exchange by a single displacement mechanism	Koshland	H. Maile	6-100-3
6-11	Exchange criterion	Koshland	H. Maile	6-101-3
6-11	Displacement of onium compounds	Koshland	H. Maile	6-102-3
6-11	Methyl transfer	Koshland	H. Maile	6-103-3

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6-11	Schematic drawing (looks like pipe)	Huszagh COSMO	H. Maile	6-104-3
6-10	Angular distribution of Protron tracks	Widgoff	H. Maile	6-105-3
6-10	Star size dist. for 2.2 proton stars	Widgoff	H. Maile	6-106-3
6-10	Angular dist. of star primaries	Widgoff	H. Maile	6-107-3
6-10	Plan view of sommo straight section showing method of injecting nuclear emulsions into vacuum chamber	PHYSICS Widgoff	H. Maile	6-108-3
6-10	Dist. in no of fast particles	Widgoff	H. Maile	6-109-3
6-10	A vera ge star size vs. energy of primary "		H. Maile	6-110-3
6-10	Angular dist. of star products	Widgoff	H. Maile	6-111-3
6-12	PM of bone section	Godwin	R. Smith	6-112-3
6-12	L.M.F.R. Line Drawing-Schematic Internally cooled, BNL 6/8/53 M.E. Div.	Husgheh S toughton	Lasky	6-113-3
6-12	PM's of pathology tissue	Saunders	R.F. Smith	6-114-3 thru 6-117-3
6-11	Total track length sca nned 2112 cm	Widgoff	H. Maile	6-118-3
6-11	Star size dist. for 2.2 bev protron stars	Widgoff	H. Maile	6-119-3
6-11	Angular dist of outgoing fast particles in L(9 1.5gmir)(160 sta rs-171 etc.	Widgoff	H. Maile	6-120-3
6-11	Average multiplicity of fast particles as a function of star size (160 stars)	Widgoff	H. Maile	6-121-3
~~6-12~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~
6-11	Supplement 2	M. Goldberg	H. Maile	6-122 -3
6-15	PM's of pathology tissue	Saunders	R. F. Smith	6-123-3 thru 6-134-3
6-15	Table- A nalysis of resonance shape 5.22 ev A g 109 etc.	J. Levin	R. Fuka	6-135-3
6-15	Curve graph resolution function 2 u channel	J. Levin	R. Fuka	6-136-3
6-15	Curve graph 5.22 ev resonance in Ag 109 etc.	J. Levin	R. Fuka	6-137-3
6-15	Curve graph a rays in Eo (kev) (electrons)	Allen	R. Fuka	6-138-3
6-3	BERA play "Arsenic and Old Lace"	R. Vogt	R. Walton	6-139-3 thru 6-150-3
6-12	A erial view of gamma field	Burt	R. Walton	6-151-3 thru 6-152-3

Date	Caption	Dept.	Photographer	Number
6-16	Area avove transmission curve as a function of Fnoo	Hevin	H. Maile	6-153-3
6-16	Ag 109 5.22 ev	Levin	H. Maile	6-154-3
6-16	Resolution function lus channel	Levin	H, Maile	6-155-3
6-16	Resolution function study 5 2 ev. resonance in $\frac{1}{4}$" 170 us etc.	Levin	H. Maile	6-156-3
6-16	Graph - A vs Za	Friedlander	R. Fuka	6-157-3 thru 6-158-3
6-16	Graph E'/Eo vs. EoP(E')	Friedlander	R. Fuka	6-159-3
6-16	Log F'	Friedlander	R. Fuka	6-160-3
6-16	No. of collisions n	Friedlander	R.Fuka	6-161-3
6-16	Evaporation of 7 mucleons from Co59	Friedlander	R. Fuka	6-162-3
6-16	Evaporation of 3 nucleons from Co59	Friedlander	R. Fuka	6-163-3
6-16	Evaporation of 4 nucleons from 6o59	Friedlander	R. Fuka	6-164-3
6-16	Energy spectrum of excited nuclei from 370 mev. protons	Friedlander	R. Fuka	6-165-3
6-16	Evaporation of 8 nucleons from Co59	Friedlander	R. Fuka	6-166-3
6-16	Pulses 13.9 cm between dots	Bernstein	R. Fuka	6-167-3
6-16	Photography & Dup. Div. Dept. Seal			6-168-3
6-8	parts of disected animal	Saunders	R. Walton	6-169-3
6-10	General group shot of Medical staff Removed from file per Mrs-Kirk	Farr	R. Walton	6-170-3
6-11	Leaking valve in Loop C	J.Klein	R. Walton	6-171-3
6-11	Corroded valves of transfer tank	J. Klein Reactor	R. Walton	6-172-3
6-11	Leaking valve in Loop C	J.Klein	R. Walton	6-173-3
6-16	A s74 Se 75 Pulse	Schardt	Fuka	6-174-3
6-16	Source C2 137	Schardt	Fuka	6-175-3
6-16	Cs 137 Pulse	S cha rdt	Fuka	6-176-3
6-17	Relation of survival to interchange frequency in seeds of barley treated with x-rays and thermal neutrons	Caldicott	H. Maile	6-177-3
6-17	Relation of survival to mutation frequency in seeds of barley treated with x-rays and thermal neutrons	Caldicott	H. Maile	6-178-3
6-17	S ubsurface connections in MG. house	W. Merkel	J.F. GARFIELD	6-179-3 thru 6-184-3
6-18	Composites for publication	B. Orlowski	M.H. Bull	6-185-3 thru 6-186-3
6-17	% increase in volumne and moisture content of barley seeds with time of permanation at 72 and 33 F	Konzak	H. Maile	6-189-3

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6-18	Graph $\sigma_T = \sigma_s$ in b/Å	R. Carter	H. Maile	6-190-3
6-18	Graph $\frac{\sigma_T - \sigma_s}{\lambda}$ in Barns/Å σ_s in b	R. Carter	H. Maile	6-191-3
6-18	Graph λ in Å vs. σ_T in barns	R. Carter	H. Maile	6-192-3
6-18	Copy from slide 5 H & G strain metostosis destruction of tumor after I 131	Godwin	H. Maile	6-193-3
6-18	Copy from slide 6 - #13 49-100 RAG petrides	Godwin	H. Maile	6 194-3
6-18	Copy from slide 15 - # 1 middle fossatumor treated H & G	Godwin	H. Maile	6-195-3
6-19	Drawing	Walsh	A. Lasky	6-196- 3
6-15	Potatoes (	Christensen	R. Smith	6-197-3
6-18	Nephrosis patient in hospital - Stanley Harrison Jr.	Robertson	R. Smith	6-198-3
6-14	Potatoes (color)	Christensen	R. Smith	C 6-199-3
6-22	Composite of patients	Robertson	H. Maile	6-200-3
6-22	Graph Au 4.93 ev Be 2461	Landon	H. Maile	6-2 01-3
6-22	Cesium	Landon	H. Maile	6-202-3
6-22	Transmission of cesium samples of various thicknesses	Landon	H. Maile	6-203-3
6-22	Ra te of cerous ion formation in presence of various gases	M. Weiss	H. Maile	6-204-3
6-22	Line drawing	M. Weiss	H. Maile	6-205-3
6-22	A bsorption train	M. Weiss	H. Maile	6-206-3
6-22	Dose (seconds of irradiation vs. Co2um	M. Weiss	H. Maile	6-207-3
6-23	Incident beam scattered beam electron cloud	H & Corliss	H. Maile	6-208-3
6 -23	Counter angle	"	H. Maile	6-209-3
6-23	Free atom region cut off wave length	"	H. Maile	6-210-3
6-23	Incident beam transmitted beam detector	"	H. Maile	6-2 11-3
6-23	Incident beam diffr diffracted beam	"	H. Maile	6-212-3
6-23	Neutron temperature in degrees Kelvin	"	H. Maile	6-213-3
6-15	Stockroom in reactor building	Walsh	R. Walton	6-214-3 thru 6-215-3
6-15	T-452 stock room	Walsh	R. Walton	6-216-3
6-15	T-100 stock room	Walsh	R. Walton	6-217-3

Date	Caption	Dept.	Photographer	Number
6-17	Hot Lab- Polystyme on wall of decontamination chamber	A ustin	R. Walton	6-218-3
6-18	Reactor engineering valve seat	Klein	R. Walton	6-219-3
6-18	Reactor engineering valve damage	Klein	R. Walton	6-220-3 thru 6-221-3
6-18	R.E. looking at valve, showing damage done by Bismith	Klein	R. Walton	6-222-3
6-18	R.E. Looking inside pipe at valve seat	"	R. Walton	6-223-3
6-17	Lu~~zula~~ stem curled	S parrow	R. Walton	6-224-3 thru 6-225-3
6-17	Curled leaf- Lu~~zula~~	Sparrow	R. Walton	6-226-3
6-17	Split leaf Lu~~zula~~	Sparrow	R. Walton	6-227-3
6-17	Lu~~zula~~	S parrow	R. Walton	6-228-3 thru 6-231-3
6-17	Tumors on tobacco plant	Sparrow	R. Walton	6-232-3
6-17	Toba cco plants	Sparrow	R. Walton	6-233-3 thru 6-237-3
6-17	Rea ctor Engineering-Mercury experiment for R. Hoe	Hoe	R. Walton	6-238-3 thru 6-241-3
6-19	?Flax in Gamma field	Konzak	R. Walton	6-242-3 thru 6-248-3
5-20	Excavation/~~in~~ West side of chemistry bldg.	Ruddy	Garfield	6-249-3 thru 6-250-3
6-23	Barley seedlings	Caldicott	R. Smith	6-251-3 thru 6-265-3
6-24	Quantum correction to the thermodynamic properties of molecules containing the Isotope of hydrogen.	Biegeleisen	R. Fuka	6-266-3
6-24	The entropy diff. of isotopic molecules at low temperatures.	Biegeleisen	R. Fuka	6-267-3
6-24	Quantum corrections to the thermodynamic properties	Biegeleisen	R. Fuka	6-268-3
6-24	Diff. in the thermodynamic properties of etc.	Biegeleisen	R. Fuka	6-269-3
6-24	Quantum correction to the thermodynamic properties of isotopic molecules	Biegleisen	R. Fuka	6-270-3 thru 6-271-3
6-24				

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6-24	Thermodynamic properties of isotopic molecules according to classifical statistical mechanism	Biegeleisen	R. Fuka	6-272-3
6-24	Thermodynamics of the relative rates of reaction of isotopic molecules	Biegeleisen	R. Fuka	6-273-3
6-25	Formula copy	Koshland	A. Lasky	6-274-3 thru 6-278-3
6-8	Handling of hot waste materials before disposal at sea.	Burt	J. F. Garfield	6-279-3 thru 6-289-3
6-25	Copy of gauge face- Counts per second	Lones	A . Lasky	6-290-3
6-25	Copy of gauage face microns	Lones	A. Lasky	6-291-3
6-26	Pig Weed	Shapiro	R. Smith	6-292-3 thru 6-306-3
6-22	Plant stem showing root structure	Christensen	R. Walton	6-307-3
6-26	Curve graph- high resolution transmission	La ndon	A . Lasky	6-308-3
6-26	Curve graph- palladium transmission	Landon	. Lasky	6-309-3
6-17	MG Set	Merkle	J.F. Ga rfield	6-310-3 thru 6-312-3
6-19	Van de Graaf face plate	Turner	J.F. Garfield	6-313-3 thru 6-314-3
6-17	Luzula tobacco plants and tobacco buds	Sparrow	R. Walton	C6-315-3 thru ~~C6-332-3~~ C6-332-3
6-26	Curve graph- ~~xxxx~~ relaxation of n at 250° C comparison of constant and variable activation energy	Dienes	A . Lasky	6-333-3
6-23	PM of chromosomes Slide # A 5375C 1000X	Sparrow	R. S mith	6-334-3
6-23	PM of chromosomes slide #2 1000X	Sparrow	R. Smith	6-335-3
6-30	Fast chopper	Nicholsen	R. Smith	6-336-3 thru 6-341-3

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6-30	Y1-Y3 Directional Correlation	Kraushaar Phy	A. Lasky	7 -1-3
6-30	Y2 - Y3 Directional Correlation	Kraushaar "	A. Lasky	7-2-3
6-30	Y1-Y2 Directional Correlation	Kraushaar "	A. Lasky	7-3-3
7-1	Specific extinction coefficient vs. wave length	Dawson Chem	A. La sky	7-4-3 thru 7-5-3
7-1	Graph	Dawson Chem	A . Lasky	7-6-3
7-1	Relative counting rate vs. voltage count	Der Mateosian Phy	A . Lasky	7-7-3
7-1	Drainage of a costal plane-advanced stage	de Laguna geol.	A. Lasky	7-8-3
7-1	Oxidation of 2s aluminum specimen $\frac{1}{4}$" x $\frac{1}{4}$" x $\frac{1}{2}$"	A therton Nuc. Eng.	R. Fuka	7-9-3
7-1	Neutron energy-ev thulium	Sailor	R. Fuka	7-10-3
7-1	Neutron energy-ev Lutetium	Sailor	R. Fuka	7-11-3
7-1	Neutron energy-ev holmium	Sailor Rec.	R. Fuka	7-12-3
7-2	Ducts above Biology cold room	Brunini Electric	Garfield	7-13-3 7-14-3 7-15-3 7-16-3 7-17-3 ~~7-18-3~~
~~6-29~~	~~Field [illegible] device for measuring water level~~	~~de Laguna~~	~~R. Walton~~	
6-26	Luzula plant radiation damage	Sparrow Biol	R. Walton	7-19-3
6-26	Luzula mutation	Sparrow	R. Walton	7-20-3
6-26	Luzula flower stem-angular growth	Sparrow	R. Walton	7-21-3 thru 7-22-3
6-26	Luzula flowers	Sparrow	R. Walton	7-23-3 thru 7-25-3
7-3	Thyroid weight (MG)	Shellabarger Med	R. Fuka	7-26-3
7-3	I 131 Uptake (%)	"	R. Fuka	7-27-3
7-3	Log of days after I 131 administration	"	R. Fuka	7-28-3
7-3	Cell height (Microna)	"	R. Fuka	7-29-3
7-3	Log of days after I 131 Administration	"	R. Fuka	7-30-3
7-3	% dicentrics and central rings per chromosome	Steffensen Biol	R. F uka	7-31-3
7 -6 6- 2	Clos e-ups of Luzula Plants s howing mutations in color and structure	Sparrow	Walton	7-32-3

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6-29	Field recording device for measuring water level	deLaguna Geol.	RWalton	7-36-3
7-7	PM's of pathology tissue	Godwin Med.	R. F. Smith	7-37-3 thru 7-43-3
7-7	Post Mortem of cancer patient	Godwin	R. F. Smith	7-44-3 thru 7-45-3
7-7	Gross photo of brain sections	Godwin	R. F. Smith	7-46-3
7-3	PM of Chromosomes Trillium Slide # A5487G Mag. 1142X	Sparrow Biol	R. F. Smith	7-47-3
7-3	Luzula bud macro photo	Sparrow	R. F. Smith	7-48-3
7-3	Tomato plant	Christensen Biol	R. F. Smith	7-49-3
7-7	Table from Book-Total nitrogenetc.	S herman	P. Simack	7-50-3
7-7	Typed table ribose and disoxyribose	Sherman	P. Simack	7-51-3
7-7	Graph- Optical density vs. mu	S herman	P.Simack	7-52-3
7-7	Graph-Optical density vs. mu	Sherman	P. Simack	7-53-3
7-7	Graph-Relative specific activity of cytidylic acid	Sherman	P. Simack	7-54-3
7-7	Graphrelative specific activity	Sherman	P. Simack	7-55-3
7-7	Graph-relative specific activity	Sherman	P. Simack	7-56-3
7-7	Graph " " "	S herman Biol	P. S imack	7-57-3
7-7	Graph counts per minute vs.time from beginning of activation	Sherman	P. Simack	7-58-3
7-3	Recording instruments on well-Geol.	deLaguna Geol	R. Walton	7-59-3 thru 7-60-3
7-6	Barley seedlings	Caldicott Biol	R. Walton	7-61-3 thru 7-63-3
6-29	S lug chopper Reactor	Warner Reactor	R. Walton	7-64-3 thru 7-67-3
7-1	Chuck heads - spindler ~~Physics~~	Siedl Phys.	R. Walton	7-68-3
6-26	Flax	Konzak Biol	R. Walton	7-69-3 thru 7-74-3
7-9	Distance from source in feet	Motz	R. Fuka	7-75-3
7-9	Internal conversion of MG/CM 2 cadmium	Motz Phys.	R. Fuka	7-76-3
7-9	External conversion in thorium & uranium	Mot	R. Fuka	7-77-3
7-9	Scale for Microscope	Salant Pl.	M.H. Bull	7-78-3

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7-10	Philosophical magazine Vol 42 Plate 32	Hill Phys	R. Fuka	7-79-3
7-10	Same Plate 31	Hill	?R Fuka	7-80-3
7-13	Schematic diagram of Tellurium separation rack	Stang Nuc. Eng.	M. H. Bull	7-81-3
7-13	Fig. 1 Exp. cross sections for formulas reactions on Cu 63 and for (a.n) etc.	Miller Chem.	H. Maile	7-82-3
7-13	Dist. of energy transfer after "n" c collisions.	Miller	H. Maile	7-83
7-13	Distribution of energy transfer per collisions	Miller	H. Maile	7-84-3
7-13	Energy spectrum of excited nuclei from 370 mev protons	Miller	H. Maile	7-85-3
7-13	Pulse height analyzer curve of gamma radiation from Br 80 (18 min)	Goldhaber Phys	H. Maile	7-86-3
7-13	Decay of Br 80 gamma radiation	Goldhaber	H. Maile	7-87-3
7-13	Br 80 (18 min) decay of B -y(620 Kev) coindidences	Goldhaber	H. Maile	7-88-3
7-13	First excited states of even even nuclei below N--50	Goldhaber	H. Maile	7-89-3
7-13	Copy from colored slide C6-328-3	Sparrow Biol	H. Maile	7-90-3
7-14	Hughes-σ_T In barnes vs. λ in A	Hughes	Fuka	7-91-3
7-14	σ_T In barns vs. λ in A	Hughes	Fuka	7-92-3
7-14	$\frac{1}{T}$ vs λ	Hughes Phys	Fuka	7-93-3
7-7	Barley seedlings	Caldecott Biol	R. Walton	7-94-3 thru 7-97-3
7-8	Luzula plants color	Sparrow Biol	R. Walton	C7-98-3 thru C7-101-3
7-8	mutant flower buds color	Sparrow	R. Walton	C7-102-3 thru C7-104-3
7-14	Disintegration scheme of Br 80	Goldhaber Phys	R. Fuka	7-105-3
7-15	Doppler effect and thickness correction upon (formulas)	Kato Chem	R. Fuka	7-106-3 thru 7-109-3

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7-10	PM of chromosomes ~~x~~ 1152 X	Konza k	R. Smith	7-110-3
7-6	PM of chromosomes Slide NO. C 9 720 X enlarged to 2 000 X	S parrow	R. Smith	7-111-3
7-8	PM of Chromosome S lide No. S edium Potosimum I 100 X	Sra rrow	R. Smith	7-112-3
7-3	?~~XXXXXXXXXXXXXXXX~~			
7-3	Evaporator head and agitator assembly for waste concentration pilot plant	Islar	R. Walton	7-113-3 thru 7-114-3
7-16	Phil. Mag. Ser.7 Vol 44 Plate 13	Hill	R. Fuka	7-115-3
7-16	" " " " " " Plate 14	Hill	R. Fuka	7-116-3
7-16	A heavy meson ejected from the nculear disentigration at A produces a track etc.	Physics Hill	R. Fuka	7-117-3
7-16	Fig. 2 A heavy meson of mass 1380 ~~I~~ 210 ,e os ejected by a star and decays into a charged secondary particle	Hill	R. Fuka	7-118-3
7-16	Fig. 1 decay at rest of a particle of mass I 345 in e	Hill	R. Fuka	7-119-3
7-16	Fig. 1 a haevy meson of mass 1040 etc. is ejected by a star and decays into a charged secondary particle	Hill	R. Fuka	7-120-3
7-16	Phil Mag. Ser 7 Vol 42 Plate 29	Hill	R. Fuka	7-121-3
7-16	Phil. Mag. Ser. 7 Vol. 42 Plate 30	Hill	R. Fuka	7-122 -3
7-17	A erial of gamma ~~fix~~ field	J. Burt	R. Walton	7-12 3-3 thru 7-126-3
7-8	Geranium exposed to radiation	Sparrow	R. Walton	7-127-3
7-8	Tobacco plants radiation damage	Sparrow	R. Walton	7-128-3
7-8	Tobacco plant	Sparrow	R. Walton	7-129-3 thru 7-131-3
7-8	Faciation geranium	Sparrow	R. Walton	7-132-3
7-8	Tobacco plants	Sparrow	R. Walton	7-133-3 thru 7-136-3
7-9	Tumor on tobacco plant	Spa rrow	R. Walton	7-137-3
7-8	Luzula plants	Spa rrow	R. Walton	7-138-3
7-8	Tobacco plants	Sparrow	R. Walton	7-139-3
7-8	Tobacco plants	Sparrow	R. Walton	7-140-3
7-9	Tumor on tobacco plants	Sparrow	R. Walton	7-141-3
7-9	Root system	Christensen	R, Walton	7-142-3
7-9	S plit sye m	Christensen	R. Walton	7-143-3

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7-9	Barley seedlings	Caldecott	R. Walton	7-144-3 thru 7-147-3
7-13	Fast neutron chopper set up in pit for high speed test.	Seid l Physics	R. Walton	7-148-3
7/20/3	PM of pathological tissue	Saunders Biology	R.F. Smith	7-149-3
"	"	"	"	7-150-3
"	"	"	"	7-151-3
"	"	"	"	7-152-3
"	"	"	"	7-153-3
"	"	"	"	7-154-3
"	"	"	"	7-155-3
"	"	"	"	7-156-3
7-8-53	Luzula Plants	Sparrow	R. Wa lton	7-157-3
7-8	Luzula Pla nts	Sparrow	R. Wa lton	7-158-3
7-8-53	Luzula Plants	Sparrow	R. Walton	7-159-3
7-8-53	Luzula Pla nts	Spa rrow	R. Walton	7-160-3
7-14-3	Grain Seedlings	Caldicott	R. Walton	7-161 -3
7-14	Grain Seedlings	Ca ldecott	R. Walton	7-162-3
7-14	Grain Seedlings	Ca ldecott	R. Walton	7-163-3
7-14	Grain Seedlings	Ca ldecott	R. Walton	7-164-3
7-14	Gra in Seedlings	Caldecott	R. Wa lton	7-165-3
7-14	Grain S eedlings	Ca ldecott	R. Walton	7-166-3
7-14	Grain Seedlings	Ca ldecott	R. Walton	7-167-3
7-14	Grain Seedlings	Ca ldecott	R. Wa lton	7-168-3
7-14	Grain Seedlings	Caldecott	R. Wa lton	7-169-3
7-14	Gra in Seedlings	Ca ldecott	R. Walton	7-170-3
7-14	PM of chromosomes Slide # Sedum Potosimum II Metaphase 1180X	Sparrow	R. S mith	7-171-3
7-16	AGS magnet	Fa lk Accelerator	J.F. Garfield	7-172-3 thru 7-174-3
7-10	Tobacco plants	Sparrow	R. Wa lton	7-175-3

Date	Caption	Dept.	Photographer	Number
7-2 1	PM's of pathology tissue	Godwin ME	R. Smith	7-180-3 thru 7-188-3
7-21	Tadpole	Shellabarger MED	R. Smith	7-189-3 thru 7-191-3
7-21	PM's of poplar stem	S hapiro½	R. Smith	7-192 -3 thru 7-200-3
7-15	Mutant snap dragon color	S parrow	R. Smith	C7-201-3 CN 7-201-3
7-2 0	The "Oxida tion" pathway	Gibbs B10	R. Fuka	7-202-3
7-20	The fermentation of Xylose by Fusarium lini	Gibbs	R. Fuka	7-203-3
7-2 0	Urea clearance percent	Robertson MED	R. Fuka	7-204-3
7-20	Fig. 1 Glycolytic route	Gibbs B10	M. Herbert	7-205-3
7-15	Plants gamma field color	Sparrow	R. Walton	C7-206-3 thru C7-214-3
7-2 0	Medical groupphoto	Fa rr MED	R. Smith	7-215-3
7-21	~~PM's of~~ poplar stems macro photo's	Shapiro B10	R. Smith	7-216-3 thru 7-221-3
7-20	Energy levels in Units N2/(2MR^2)	Goldhaber PHYS	R. Fuka	7-222 -3
7-17	Radiated oats rust	Konzak B10	r. Walton	7-223-3 thru 7-226-3
7-24	Dietzgen graph paper semi-logarithmic 3 cycles ~~xxxxxxxx~~ 12 div. per inch	Axel ELECTRONICS	R. Fuka	7-227-3
7-16	Corn in gamma field	Singleton	R. Walton	7-228-3 thru 7-233-3
7-24	Dose, µm Fe^{+++}/l vs Δ(NO$^-$), µmol	Schwarz	R. Fuka	7-234-3
	[NO3]/[H2O] vs. 1/yield	Schwarz	R. Fuka	7-235-3
	Dose µm Fe^{+++}/l vs. yield µm/l	S chwarz	R. Fuka	7-236-3
	Dose Fe^{+++}, m/l vs yield [H2O2] µm/l	S chwarz PHYSICS	R. Fuka	7-237-3
7-17	Unloading reactor 7-239-3 — 7-242-3 changed to pmb	Powell REAC	J.F. Garfield	7-238-3 thru 7-242-3
7-27	Relation of survival in seeds of b barley to dose of xrays	Baldecott	R. Fuka	7-243-3
7-27	Relation of survival in seeds of			

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7-21	Oata	Konzak	R. Walton	7-245-3 thru 7-246-3
7-21	Rye seedlings	Caldecott	R. Walton	7-247-3
7-16	Tobacco plants	Sparrow	R. Walton	7-248-3 thru 7-249-3
7-21	Tobacco leaves showing mutations due to radiation	Sparrow	R. Wwlton	7-250-3
7-23	Luzula plants from ga mma field ((some in pots)	Sparrow	R Walton	7-251-3 thru 7-256-3
7-21	COLOR snap dragon bulbs	Sparrow	R. Walton	C7-257-3 thru C7-2 58-3
7-21	COLOR snap dragon plants	Sparrow	R. Walton	C7-259-3 thru C7-260-3
7-21	COLOR Halehock plants	Sparrow	R. Walton	C7-261-3 thru C7-262-3
7-28	Graph	Hughes	M/ Bull	7-2 63-3
7-28	Chart " Nea nthes Virens Para podia "	Fuka	Garbma n	7-264-3
7-23	Luzula COLOR (9)	Sparrow	R. Walton	C7-265-3 thru C7-273-3
7-22	Snapdragon plants mutation from gamma fields in potts COLOR	Sparrow	R. Walton	C7-274-3 thru C7-282-3
7-28	Line drawing schematic of machinery	Seidl	R. Fuka	7-283-3
7-20	Hydrogen target-cosmo	Collins	J.F. Garfield	7-284-3
7-20	Cosmotron shielding	Collins	J.F. Gaffield	7-285-3
7-20	Cosmo- experiment outside the shield (Coor)	Collins	J.F. Garfield	7-286-3
7-20	Cosmo-graphite target	Collins	J.F. Garfield	7-287-3
7-20	cosmo- target injection system	Collins	J.F. Garfield	7-288-3
7-20	Cosmo-target injection apparatus	Collins	J.F. Ga rfield	7-2 89-3
7-20	Holyhoc k flowers	Sparrow	R. Walton	7-290-3
7-23	Radiated oats	Konzak	R. Walton	7-291-3
7-22	Luzula plants	Sparrow	R. Walton	7-292-3 thru 7-295-3

Date	Caption	Dept.	Photographer	Number
7-24	Leaves showing the effects of radia tion	Sparrow	R. Walton	7-296-3 thru 7-299-3
7-20	Snapdragon showing faceation	Sparrow	R. Walton	7-300-3 thru 7-301-3
7-16	Tobacco plants	Sparrow	R. Walton	7-302-3 thru 7-307-3
7-20	Tobacco plants in gamma field	Sparrow	R. Walton	7-308-3 thru 7-311-3
7-29	Molecula r Structure of Two Free Ra dicals	Cohen	R. Fuka	7-312-3
7-29	Hyperfine structure Component Sepa ra tions	Cohen	R. Fuka	7-313-3
7-29	Hyperfine Structure Hydrozyl	Cohen	R. Fuka	7-314-3
7-29	w iring diagra m	Cohan	R. Fuka	7-315-3
7-29	Hyperfine structure Carbozyl	Cohaen	R. Fuka	7-316-3
7-29	Field increment in Gauss	Cohen	R. Fuka	7-317-3
7-29	Shift in field- Gua ss	Cohen	R. Fuka	7-318-3
7-29	Intensity in arbitrary units	Cohen	R. Fuka	7-319-3
7-29	Pulse	Cohen	R. Fuka	7-320-3
7-29	Pulse ~~A&B~~ A&B	Cohen	R. Fuka	7-321-3
7-23	COLOR tobacco plants, leaves from dahlia and hollyhock	Sparrow	~~Sparrow~~ R. Walton	C7-322-3 thru C7-331-3 CN 7-331-3
7-30	Trichinella 38X bright field	Stoner	R. Smith	7-332 -3
7-30	Trichinella 168X optical differential color stain	S toner	R. Smith	7-333-3
7-27	Childrens section of occupational therapy	Sinex	Garfield	7-334-3 thru 7-335-3
7-24	Dr. S inex and visitor discussing protein model	Sinex	Garfield	7-336-3
7-27	Patient working in occupational therapy shop	Sinex	Garfiedl	7-337-3
7-27	Injecting rats in pathology	Sinex	Ga rfield	7-338-3
7-27	" " " "	Sinex	Garfield	7-339-3
7-27	The dissection of specimens of embryonic	Sinex	Garfield	7-340-3

Date	Caption	Dept.	Photographer	Number
7-27	rat chamber	S inex	J. Ga rfield	7-341-3 thru 7-343-3
7-27	Card playing aid in occupational therapy	Sinex	J. Ga rfield	7-344-3
7-27	Patient using combined knife & fork	Sinex	Ga rfield	7-345-3
7-27 o	Patient using potters wheel in occupational therapy	Sinex	Garfield	7-346-3 thru 7-347-3
7-27	Turtle race in Occupational Therapy	Sinex	Garfield	7-348-3
7-27	Counting rats	Sinex	Garfield	7-349-3
7-27	Microtoming	Sinex	Garfield	7-350-3
7-27	Microtoming	S inex	Garfield	7-351-3
7-27	Front , of seed counter.	Burditt	R. Walton	7-352-3
7-27	Seed hopper and feeder	Burditt	R. Walton	7-353-3
7-27	Photo electric cell for seed counter	Burditt	R. Walton	7-354-3
7-27	Seed heads from wheat	Konza k	R. Walton	7-355-3
7-27	Side view showing section telescoped before welding inch	Manowitz	R. Walton	7-356-3
7-27	Assembled view of above	Manowitz	R. Walton	7-357-3
7-27	Exploded view of source before.	Manowitz	R. Walton	7-358-3
7-31	Chart S cientific sta ff	Haworth	M. Bull	7-359-3
7-30	Pig farm for radiating samples	Ma nowitz	R. Walton	7-360-3
7-30	Pool used in pig loading and transfering operation	Manowitz	R. Walton	7-361-3
7-30	5 gallon slurry consentration for atmosphere and vacuum operation	Manowitz	R. Walton	7-362-3
7-30	Submerged coil single effect evaporator	Manowitz	R. Walton	7-363-3
7-31	Leaf development in 2n tomato plants exposed to chromic gamma irradiation for 3 months	Gunckel	R. Fuka	7-364-3
7-31	Relationship between leaf thickness in r/days in antirrhinum majus	S parrow	R. Fuka	7-365-3
7-31	Dose distance tables for 1953 gamma radiation field	Sparrow	R. Fuka	7-366-3
7-21	Relationship between leaf thickness in			

August

Date	Caption	Dept.	Photographer	Number
7-31	Fatal-barns vs. En electron volts	Hughes	R. Fuka	8-1-3
7-31	Hormone administration	S hellabarger	R. Fuka	8-2-3
7-31	Nuclear reactor schematic reshot with added material	O. Kuhl	R. Fuka	8-3-3
8-3	Composite of plants	Gunckel	R. Fuka	8-4-3 thru 8-5-3
8-3	Effect of localized X Irradiation on crown, stem & roots of Xanthium 1000r	Christensen	R. Fuka	8-6-3
8-3	Same as above 2 000 r	Christensen	R. Fuka	8-7-3
7-30	Tomato plants	Christe sen	R. Smith	8-8-3 thru 8-9-3
7-30	Gross photo of dog eye showing four muscles	Saunders	R. Smith	8-10-3
7-31	PM of chromosomes Slide #'s			
	Slide # 121-2-8 1152X	Steffensen	R. Smith	8-11-3
	Slide # 121-2-9 1152 X	Steffensen	R. Smith	8-12-3
	Slide # 121-2-9 720 X	Steffensen	R. Smith	8-13-3
	Slide # 121-2-9 720 X	Steffensen	R. Smith	8-14-3
	S lide # 121-2-9 ~~720xXx~~ 1152 X	Steffensen	R. Smith	8-15-3
	S lide # 121-3-5 360 X	Steffensen	R. Smith	8-16-3
	Slide # 121-3-5 720 X	Steffensen	R. Smith	8-17-3
	S lide # 122-3-3 720 X	Steffensmen	R. Smith	8-18-3
	S lide # 122-3-4 360 X	Steffensen	R. Smith	8-19-3
	S lide # 122-3-4 360X	Steffensen	R. Smith	8-20-3
	S lide # 122-3-2 360X	S teffensen	R. Smith	8-21-3
7-29	PM's of pathology tissue	Godwin	R. S mith	8-22-3 thru 8-31-3
8-3	Composite of plant tissue	Gunckel	R. Fuka	8-32-3
7-29	Cos mo- Left to right: Richard S. Preston, Henry L. Kraybill, Ass't. Professor, Robert M. Walker , rt. Earle C. Fowler, Ass't Professor	Burt	R. Walton	8-33-3
7-29	Interior of trailer cosmo-E. C. Fowler	Burt	R. Walton	8-34-3
7-29	Yale trailer E. C. Fowler entering	Burt	R. Walton	8-35-3
7-29	Electronics- chassis	C. Porter	R. Walton	8-36-3 thru 8-40-3
8/53	Schematic	Jewett	M. Herbert	8-41-3

Date	Caption	Dept.	Photographer	Number
7-29	Potatoes COLOR	Christensen	R. Walton	C8-42-3 thru C8-46-3
7-29	Hollyhock COLOR	S parrow	R. Walton	C8-47-3
8-4	Eye disected from mature horse showing embryonic development of retina	S aunders	R. Smith	8-48-3
8-4	Pancreas	Saunders	R. Smith	8-49-3
7-26	Oats- rust	Konzak	R. Walton	8-50-3 thru 8-51-3
7-17	Tobacco plants	Sparrow	R. Walton	8-52-3 thru 8-58-3
8-4	Spectrogram	M. Weiss	R. Fuka	8-59-3 thru 8-61-3
8-4	Relative Activity of carbon atoms	Burns Chem	R. Fuka	8-62-3
8-4	Distribution of activity from methanol C-14	Burns	R. Fuka	8-63-3
8-4	Graph- by U.S. Bureau of mines	Burns	R. Fuka	8-64-3
8-4	A lcohol degradation procedure	Burns	R. Fuka	8-65-3
8-3	Diagram from slide	Van S lyke	A . Lasky	8-66-3 thru 8-67-3
8-4	X-ray escape probability for infinitely thick infinately wide crystal	A xel	R. Fuka	8-68-3
8-4	Fermentation of glucose by heterolastics	Gibbs	R. Fuka	8-69-3
8-4	Neutron energy ev. vs. σ_T (barns)	Landon	R. Fuka	8-70-3
8-6	Decay angles	Whittemore	R. Fuka	8-71-3
8-6	Decay momentum	"	R. Fuka	8-72-3
8-6	A ngles in lab system	"	R. Fuka	8-73-3
8-6	Momentum of particles	"	R. Fuka	8-74-3
8-6	Elastic collision	"	R. Fuka	8-75-3
8-6	Temp. variations in cross section of Fe with respect to cross-section at 110° K-L= 8A Total cross section of Fe T = 1100 ± 50 °K	Hughes	R. Fuka	8-78-3 A

Date	Caption	Dept.	Photographer	Number
8-6	Results of first medion phone measurements	Cottingham	R. Fuka	8-81-3
8-6	Central shim added to increase vertical focusing	Cottingham	R. Fula	8-82-3
8-6	Typical frequency scanning picture	Cottingham	R. Fuka	8-83-3
7-29	Electronics	Higginbothum	J. Garfield	8-84-3
7-29	Rats:			
	L-1	Gidez	J.F. Garfield	8-85-3
	C-1	"	"	8-86-3
	C-2	"	"	8-87-3
	LN-2	"	"	8-88-3
	L-2	"	"	8-89-3
	LN-1	"	"	8-90-3
7-29	Electronics	Higginbothum	J. Garfield	8-91-3
7-29		"	"	8-92-3
8-29		"	"	8-93-3
8-6	Portrait Nicholas Christofilos	Burt	J. Garfield	8-94-3
8-3	Bean plants	Christensen	R. Smith	8-95-3 thru 8-96-3
8-6	Gamma field Shapiro, Gunckel & etc.	Shapiro	R. Walton	8-97-3
8-6	Gamma field Shapiro, Gunckel & etc.	Shapiro	R. Walton	8-98-3
8-6	Tobacco plants in the gamma field	Sparrow	R. Walton	8-99-3
8-6	Close-up of stem tobacco plant in gamma field	Sparrow	R. Walton	8-100-3
8-6	Irradiated tobacco plant - 500 r/ per day	Sparrow	R. Walton	8-101-3
8-11	Irradiation period- min. vs. yield moles x 10^6	S chuler	R. Fuka	8-102-3
8-11	line drawing	CHEMISTRY Schuler	R. Fuka	8-103-3
8-11	Carries fractionation experiments	Schuler	R. Fuka	8-104-3
8-11	Einsteins absorbed x 10^3 vs. yield Moles x 10^6	Schuler	R. Fuka	8-105-3
8-11	Irradiation period- min vs. Moles etc.	Schuler	R. Fuka	8-106-3
	[illegible]	Schuler	R. Fuka	8-107-3

Date	Caption	Dept.	Photographer	Number
8-11	Moles percent Iodine vs. Yield - Moles /min x 10^8	Schuler	R. Fuka	8-108-3
8-11	Radiation yields x-rays decomposition [redacted] of the alkyl iodides	Schuler	R. Fuka	8-109-3
8-11	Mass spectrometer analysis	Schuler	R. Fuka	8-110-3
8-11	formula- line drawing	Schuler	R. Fuka	8-111-3
8-11	Relative yields methyl iodide	Schuler	R. Fuka	8-112-3
8-11	Relative yields radiolysis of methyl iodide	Schuler	R. Fuka	8-113-3
8-11	Irradiation period-min vs. Iodine yield moles x 10^6	Schuler	R. Fuka	8-114-3
8-11	Exchange yield	Schuler	R. Fuka	8-115-3
8 -12	Bismuth T--500° C	Hughes	R. Fuka	8-116-3
8-12	Bismuth T--300°C	Hughes	R. Fuka	8-117-3
8-12	Bismuth T--100° C	Hughes	R. Fuka	8-118-3
8-12	Line drawings barns	Hughes	R. Fuka	8-119-3 thru 8-120-3
8-12	Time in days vs. net counts per min.	King	R. Fuka	8-121-3
8-12	Thermal neutron exposure vs. corrected frequency of eggs yielding larvae	King	R. Fuka	8-122-3
8-12	Thermal neutron exposure vs. % II III reciprocal translocations	King	R. Fuka	8-123-3
8-12	Thermal neutron exposure vs. visable sex chromosome losses per 1000 tested sperm	King	R. Fuka	8-124-3
8-12	Thermal neutron exposure vs. % induced sex-linked recessive lethal mutations	King	R. Fuka	8-125-3
8-11	Control field for corn	Singleton	R. Walton	8-126-3 thru 8-127-3
8-12	Formula graphs	Goldhaber	R. Fuka	8-128-3 thru 8-135-3
8-13	Plan view of rotor slits & stationary slits Schematic	S eidl	R. Fuka	8-136-3
8-13	Side view of rotor	Seidl	R. Fuka	8-137-3

Date	Caption	Dept.	Photographer	Number
8-8	Flax	Konzak	R. Walton	8-138-3 thru 8-153-3
8-10	Tomato plant stem	Christensen	R. Walton	8-154-3
8-13	Horizontal view of dye streams of different density flowing in saturated sand	deLaguna	R. Smith De Laguna	8-155-3 thru 8-163-3
8-13	Portrait Patterson, R. A.	Patterson	J. F. Garfil	8-164-3 thru 8-165-3
8-14	Generator & Pump Hotlab	Tucker	R. Smith	8-166-3 thru 8-172-3
8-14	Corn seedlings	Caldecott	R. Smith	8-173-3
8-14	PM of sandworm cross section	Gorbman	R. Smith	8-174-3
8-14	Relationship between the number of somatic mutation and chronic irradiation in Heter ozygous nicotiana sanderi	Sparrow	R. Fuka	8-175-3
8-14	Mutation produced in nicotiana sanderi	Sparrow	R. Fuka	8-176-3
8-14	S omatic mutation frequency of various plants receiving chronic gamma irradia.	Sparrow	R. Fuka	8-177-3
8-14	mutations produced in antirrhinum majus	Sparrow	R. Fuka	8-178-3
8-14	Relationship between the # of somatic muta tion and chronic gamma irradiation in Heterozygous antirrhinum majus	Sparrow	R. Fuka	8-179-3
8-14	Relationship between the # of somatic mutation and chronic gamma irradiation in heterzygous antirrhinum majus	Sparrow	R. Fuka	8-180-3
8-14	Relationship between the # of somatic mutation and chronic gamma irradiation in Heterozygous nicotiana sanderi	Sparrow	R. Fuka	8-181-3
8-14	(neutrons) (fission)	Duffield	R. Fuka	8-182-3
8-14	Lead, Betatron energy	Duffield	R. Fuka	8-183-3
8-154	Fissions formulas	Duffield	R. Fuka	8-184-3
8-14	Pulse spectrum in inc sulfide	Duffield	R. Fuka	8-185-3
8-14	Uraniun, thorium, betatron energy	Duffield	R. Fuka	8-186-3
8-14	Betatron energy	Duffield	R. Fuka	8-187-3 thru 8-188-3
8-14	Schematic	Duffield	R. Fuka	8-189-3

Date	Caption	Dept.	Photographer	Number
8-14	Bismuth gamma energy	Duffield Chem	R. Fuka	8-190-3
8-14	Betatron energy	Duffield	R. Fuka	8-191-3
8-14	Uranium gamma energy	Duffield	R. Fuka	8-192-3
8-14	Copy neg.	Duffield	R. Fuka	8-193-3
8-13	X-ray	Godwin Med	R. Fuka	8-194-3
8-14	Schematic	S herman	R. Fuka	8-195-3
8-14	Complete mono-ionic layer	A nderson Ruby Chem	R. Fuka	8-196-3
8-14	Sample holders for standardi,ation and adsorption tests	"	R. Fuka	8-197-3
8-14	Solution concentration	"	R. Fuka	8-198-3
8-14	Adsorption of Xanthole onpyrite	"	R. Fuka	8-199-3
8-14	Line diagram of cirdles	"	R. Fuka	8-200-3 thru 8-201-3
8-14	Percent saturation of the surface	"	R. Fuka	8-202-3
8-18	Cross section of loop	Kammerer Nuc. Eng.	R. Walton	8-203-3
8-17	Corn seedling roots	Russell	R. Walton	8-204-3
8-12	Thermal convection loop - Beta	Turovlin Nuc. Eng.		8-205-3 thru 8-206-3
8-12	Looking down into graphite shield	Klamuet Nuc. Eng.	R. Walton	8-207-3
8-12	Exploded view of convection pot	Klamet	R. Walton	8-208-3
8- 12	Thermal shields	Klamet	R. Walton	8-209-3
8-12	Over-all view of liquid metal convection experiment	Klamet	R. Walton	8-210-3
8-12	Liquid metal convection pot	Klamet	R. Walton	8-2 11-3
8-20	Development stage of tradescantia pollen (Days)	M. Moses Biol	R. Fuka	8-212-3
8-20	Development stages of lily pollen bud lenght in MM)	Moses	R. Fuka	8-213-3

Date	Caption	Dept.	Photographer	Number
8-21	Table 1 summary of res ults	Kirk Med.	R. Fuka	8-214-3
8-21	Table 2 constants for the equations describing the concentration of radioactive sodium in body fluids	Kirk	R. Fuka	8-215-3
8-21	Table 3 constants for the equations describing the concentration of radioactive sodium in body fluids of J.H. 3602	Kirk	R. Fuka	8-216-3
8-21	Dissimition of Xylose - 1-c^{14} by fusarium lini	Gibbs Biol	R. Fuka	8-217-3
8-21	C3 Ions propane	Friedman Chem	R. Fuka	8-218-3
8-24	Graph	Schardt Elec.	R. Fuka	8-219-3
8-21	Hexose phosphate from 2, 3-C14 - pentose phosphate	Gibbs Biol	R. Fuka	8-220-3
8-21	Hexose phosphate from 1-C14 pentose phosphate	Gibbs	R. Fuka	8-221-3
8-21	Total cross section - Barns	Sailor Reactor	R. Fuka	8-222-3
8-21	Diketene, ketene	Friedman Chemistry	R/ Fuka	8-223-3
8-21	Benzene 1-3 cyclodexa diene	Friedman	R. Fuka	8-224-3
8-21	C10 H10 Ru	Friedman	R. Fuka	8-225-3
8-21	Dipentene	Friedman	R. Fuka	8-226-3
8-21	Cyclohexene, cyclohexane	Friedman	R. Fuka	8-227-3
8-21	A pinene, tricyclene, dipentene	Friedman	R. Fuka	8-228-3
8-21	a angelica lactone, B angelica lactone y crotono lacyone	Friedman	R. Fuk-	8-229-3
8-21	B. Pinene, comphene, A fenchene	Friedman	R. Fuka	8-230-3
8-21	B. Propio lactone, y butyro lactone, y valero lactone	Friedman	R. Fuka	8-231-3
8-17	Pneumatic tube system for radiating samples	Dugan	R. Walter	[illegible]

Date	Caption	Dept.	Photographer	Number
8-21	Figure 2. - Cosmotron particle tracks	Blau Phys Cosmo	Fuka & Simack	8-233-3
8-21	Figure 3 cosmotron particle tracks	Blau	S imack	8-234-3
8-21	Hot lab. heater, mixer, in operation	Rand Hot lab	R. Walton	8-235-3
8-21	Remote control pipette	Rand	R. Wal-on	8-236-3 thru 8-237-3
8-21	Remote control operating system	Ra nd	R. Walton	8-238-3 thru 8-239-3
8-21	mixing and heating pot	Rand	R. Walton	8-240-3
8-20	Cockscomb	Christensen Biol	R. Walton	8-241-3 thru 8-248-3
8-20	Potatoes x-rayed	Christensen	R. Walton	8-249-3
8-20	Cockscomb	Christensen	R. Walton	8-250-3
8-20	pepper plants gamma field	Christensen	R. Walton	8-251-3
8-20	tobacco plant	Christensen	R. Walton	8-252-3
8-20	Pepper plant	Christensen	R. Walton	8-253-3
8-20	Cockscomb	Christensen	R. Walton	8-254-3
8-20	Tobacco plant	Christensen	R. Walton	8-255-3
8-20	Cockscomb	Christensen	R. Walton	8-256-3
8-20	Tobacco plant	Christensen	R. Walton	8-257-3
~~XXXX~~ 8-21	Glassware	Freed Chem	R. Walton	8-258-3
8-25	head x-ray front	Olevich Med	R. Fuka	8-259-3
8-25	same Side	"	R. Fuka	8-260-3
8-26	PM of chromosomes Slide # 141-2-1 720X	Steffensen Biol	R. Smith	8-261-3
8-26	same S lide 141-2-1 720X	"	R. Smith	8-262-3
8-26	same Slide 140-1-3 360X	"	R. Smith	8-263-3
8-25	Figure 1 cosmo particle tracks	Blau Cosmo	H. Maile	8-264-3
8-26	PM of pathology tissue	Saunders	R. S mith	8-265-3 thru 8-281-3

Date	Caption	Dept.	Photographer	Number
8-26	Typed table	Friedman Chem	R. Fuka	8-282-3 thru 8-284-3
8-26	myrecene, allo-ocimine, dipentene	Friedman	R. Fuka	8-285-3
8-26	Vinyl aceto B lactone, B crotone lactone	"	R.Fuka	8-286-3
8-26	Sensitivity coefficients	Friedman	R. Fuka	8-287-3
8-24	copy from kodachrome	Gunckel Biol	H. Maile	8-288-3 thru 8-289-3
8-24	copy from kodachrome # 103 terminal proliferating irregular devel.	Gunckel	H. Maile	8-290-3
8-24	Copy from kodachrome # 10 1/29/53 T-144 A x. below T 20.4 r/day	Gunckel	H. Maile	8-291-3
8-24	copy from kodachrome T-46 4th A 'B spinach # 21	Gunckel	H. Maile	8-292-3
8-24	copy from kodachrome # 31 flower abnormal	"	H. Maile	8-293-3
XXXXXXXXXXXXXXXXXXXX-				
8-18	Rats			
	LN-4	Gidez Med	J.F. Garfield	8-294-3
	C-3	Godez	J. F. Garfield	8-295-3
	LN-3	Gidez	J.F. Garfield	8-296-3
	L-4	Gidez	J.F. Garfield	8-297-3
	C-4	Gidez	J.F. Garfield	8-298-3
	L-3	Gidez	J.F. Garfield	8-299-3
8-27	Tantalum	Dwyer	R. Fuka	8-300-3
8-27	Equilateral- triangular spacing	Dwyer	R. Fuka	8-301-3
8-27	Reynolds number	Dwyer	R. Fuka	8-302-3
8-27	Line drawing	Dwyer	R. Fuka	8-303-3
8-27	Reynolds number	Dwyer	R. Fuka	8-304-3
8-27	Graphs	Hughes Phys	R. Fuka	8-305-3
8-27	Hafnium 180, 179, 178, 177	Hughes	R. Fuka	8-306-3
8-27	Decay curve of typical I ^{132} sample	S tacey	R. Fuka	8-307-3

Date	Caption	Dept.	Photographer	Number
8-27	Public information office M. Benedict front of blackboard	J. Burt	R. Walton	8-308-3
8-27	Sancier and Freed Chemistry	Sancier	J.F. Garfield	8-309-3 thru 8-312-3
8-31	Typed table	Stang	R. Fuka	8-313-3
8-31	Effect of hydroxyl ion concentration on exchange rate	Weston	R. Fuka	8-314-3 thru 8-315-3
8-31	Temp rature effect on acid - Catalyzed exchange	Weston	R. Fuka	8-316-3
8-31	Temperature effect on base catalyzed exchange	Weston	R. Fuka	8-317-3
8-31	Effect of electroylyte concentration on exchange rate	Weston	R. Fuka	8-318-3
8-31	Effect of electroylyte concentration on exchange rate	Weston	R. Fuka	8-319-3
8-31	Typed tables	Weston	R. Fuka	8-320-3 thru 8-325-3
8-31	Effect of culturing trillium anthers upon thru duration of the meiotic cycle	S hapiro	R. Fuka	8-326-3
8-31	Effect of environment upon the frequency of spontaneous aberrations in trillium anthers	Shapiro	R. Fuka	8-327-3
8-31	To supply ~~xxx~~ automatic virgins for irradiation experiments	King	R. Fuka	8-328-3
8-21	BERA + LRA Dance	Vogt	M. Bull	8-329-3 & 8-330-3
8-22	Doubles champs - D. Wolf + R. Calaicatt -	Vogt	M. Bull	8-331-3

September

Date	Caption	Dept.	Photographer	Number
9-1	Transitions from Ground States to two 3F states of Pr Cl3 in L2 Cl3 Polarized Spectra of single crystal at 77 and 40 K Lighrt transmitted. Perpendicular to unique, Z, Axis	Sayre	R. Fuka	9-1-3
9-1	Transsitions from GroundS tates to 3PO, 1,2 Triplet of PrCl3 in LaCl3 Spectra of a single crystal a t 77 k, Light transmitted perpendicular to unique, Z. a xis of crystal	Sayre	R. Fuka	9-2-3
9-1	Line Drawing	S ayre	R. Fuka	9-3-3
9-3	Table 1 from Page 65 of National Academy of Sciences	Steffensen	P. Bennet	9-4-3
8-28	Pla nt Root syste m	Theis	R. Walton	9-5-3
8-28	Plant Root System	Theis	R. Walton	9-6-3
8-2 8	Carnation	Richter	R. Walton	9-7-3
8-28	Carnation	Richter	R. Walton	9-8-3
8-25	Loop-Beta general assembly	Tur ovlin	R. Walton	9-9-3
9-2	Ca nned transformer	Tucker	R. Walton	9-10-3
9-3	Normal fast hypx fast	Nims	Herbert	9-11-3
9-3	Graph	Nims	Herbert	9-12-3
9-3	Food ad lib x-irradiation lib x-irridated	Nims	Herbert	9-13-3
9-3	Graph	Nims	Herbert	9-14-3
9-3	Food ad lib x- irridated	Nims	Herbert	9-15-3
9-3N	Noraml Food ad lib Hypx Food ad lib	Nims	Herbert	9-16-3
9-3	Graph	Nims	Herbert	9-17-3
9-3	Graph	Nims	Herbert	9-18-3
9-3	Micro Extaction Chamber for Van Slyke Neill Manometris apparatus	Van Sykle	Bennet	9-19-3
9-2	Gamma field	Sparrow	R. Walton	9-20-3 thru 9-22-3
9-2	Snapdragon plants	Sparrow	R. Walton	9-23-3
9-2	Portable corn field	S ingleton	R. Walton	9-24-3 thru 9-25-3
9-1	Cross-section of pipe	O.Kammerer	R. Walton	9-26-3 thru 9-28-3
9-10	Corn s eedlings	Ca uldicott	R. Smith	9-29-3
9-10	Corn seedlings	Cauldicott	R. Smith	9-30-3
8-31	PM of Chromosomes Slide # A 2421C Mag. 710X	Sparrow	R. Smith	9-31-3
8-31	PM of Chromosomes Slide # A 5146D ag. 1152X	Sparrow	R. Smith	9-32-3
9-9	Pm of Path tissue	Godwin	R. Smith	9-33-3
9-9	Pm of Path tissue	Godwin	R. Smith	9-34-3

Date	Caption	Dept.	Photographer	Number
9-9	Pm of Path tissue	Godwin	R. Smith	9-35-3
9-9	Pm of Path tissue	Godwin	R. Smith	9-36-3
9--9	Pm of Pa th tissue	Godwin	R. Smith	9-37-3
9-9	Pm of Path tissue	Godwin	R. Smith	9-38-3
9-9	Pm of Path tissue	Godwin	R. Smith	9- 39-3
9-9	Pm of Path tissue	Godwin	R. Smith	9-40-3
9-9	Pm of Path tissue	Godwin	R. Smith	9-41-3
9-9	Pm of Path tissue	Godwin	R. Smith	9-42-3
9-9	Pm of Pa th tissue	Godwin	R. Smith	9-43-3
9-9	Pm of Path tissue	Godwin	R. Smith	9-44-3
9-9	Pm of Path tissue	Godwin	R. Smith	9-45-3
9-9	Pm of Path tissue	Godwin	R. Smith	9-46-3
9-9	Pm of Path tissue	Godwin	R. Smith	9-47-3
9-9	Pm of Path tissue	Godwin	R. Smith	9-48-3
9-9	Pm of Pa th tissue	Godwin	R. Smith	9-49-3 thru 9-55-3
9-8	Graphite specimen container	Kosiba Phys	R. Fuka	9-56-3
9-8	Thermocouples 30 gauge duplex galss covered Iron constanta n	Kosiba	R. Fuka	9-57-3
9-8	Composite of chromosomes	Dollinger	R. Fuka	9-58-3
8-31	High level waste disposal experiment (and control panel) (9-59-3 - cleared for publication)	Reactor B. Reagan	J.F. Garfield	9-59-3 thru 9-65-3
9-53	Pathological tissue COLOR PM's	Saunders	R. F. Smith	
9-53	Pathological tissue COLOR PM's	Godwin	R. F. Smith	
9 -4	Close-up of cuttings showing new growth	Shapiro	R. Walton	9-66-3
9-9	Pippette & drop counter	Steele	R. Walton	9-67-3
9-9	Tennis champ	R. Vogt	R. Walton	9-68-3 thru 9-69-3
9-4	Lucite box used for rooting cuttings	Shapiro	R. Wa lton	9-70-3
9-2	Plant stem showing Xray damage	Christensen	R. Walton	9-71-3
9-1	Oat seedlings	Konzak	R. Walton	9-72-3 thru 9-73-3
9-1	Oat seedlings	Konza k	R. Walton	9-74-3 thru 9-76-3
9-9	Temperature control & pipe holding beta	A.O. Allen	R. Walton	9-77-3

Date	Caption	Dept.	Photographer	Number
9-11	Schematic drawing	A ntol Phys	R. Fuka	9-79-3 thru 9-80-3
9-11	Accepatance of small angle scattering etc.	Antol	R. Fuka	9-81-3
9-11	Energy vs. transmitted intensity	Antol	R. Fuka	9-82 -3
9-14	Chart from graph paper	Walsh	P. Bennett	9-83-3
9 -14	Time chart	Katcoff	P. Bennett	9-84-3 thru 9-85-3
9-14	CARNATION PETALS PM's COLOR (10)	Richter Singleton	R. Smith	
9-14	TISSUE TRANSPLANTS IN MOUSE EYES COLOR (2)	S toner	R. Smith	
9-15	PM of chromosomes 1152 X	Caldicott	R. Smith	9-86-3 thru 9-87-3
~~XXXXXXXXXXXXXXXX~~ 9-15	PM of chromosomes 488 X	Caldicott	R. Smith	9-88-3
9-16	Data on nicotine from ^{14}C feeding experiments	Dawson Chem.	R. Fuka	9-89-3
9-16	Sensitivity of detection of ^{14}C	Dawson Chem	R. Fuka	9-90-3
9-16	Graph	Dawson Chem	R. Fuka	9-91-4
9-15	ROSES AND ANOTHER FLOWER COLOR	Sparrow	R. Smith	C9-92-3 thru C9-94-3
9-15	CARNATION PETALS PM's COLOR	Richter Biol	R. Smith	
9-2	Machinery	Turovlin Reactor	R. Walton	9-95-3
9-17	Line drawing	Wiswall Nuc. Eng.	R. Fuka	9-96-3
9-17	Cooling air system BNL Pile	Gemmell Health Phys	R. Fuka	9-97-3
9-10	Softball champs 1953	R. Vogt Reereation	R. Walton	9-98-3 thru 9-99-3
9-9	Spectrometer on east face of pile	Geisler		

Date	Caption	Dept.	Photographer	Number
9-11	A erovane	~~XXXXXXXX~~ R. Walton S mith Meteor.	R. Walton	9-101-3 thru 9-104-3
9-16	Loop # 1 Metallurgy	Kammerer Nuc. Eng.	R. Smith	9-105-3
9-16	Portrait Dr. Hughes	Hughes Medical	R. Smith	9-106-3
9-14	Gamma field flower mutation	Sparrow Biol	R. Smith	9-107-3
9-18	Fig. from P. 102 of Scientific American "Protein structure"	Sinex	R. Bennett	9-108-3
9-18	Fig. from P. 100 of Scientific American "Protein complexity	Sinex Medical	P. Bennett	9-109-3
9-18	Edman's method for protein degradation	S inex Medical	P. Bennett	9-110-3
-22	Potassium Ethly Xanthate MG/L	Christman Cosmo	P. Bennett	9-111-3
9-19	Water softening equipment	Stoughton Cosmo	R. Walton	9-112-3
9-16	Dr. Wm. T. Scott inserting iron strip into spectrometer	W. Scott Physics	R. Walton	9-113-3
9-17	Continous calciner	Manowitz Nuc. Eng.	R. Walton	9-114-3 thru 9-118-3
9/17/53	Mutated Dahlia	Sparrow Biology	R.F. Smith	C9-119-3
9-18-53	Pig for ga mma field source	German Biology	R. Walton	9-120-3 thru 9-121-3
9-18	Raising & lowering pulley in gamma field	German Bio	R. Walton	9-122-3 thru ~~XXXXXXX~~ 9-123-3
8-6	A erobic metabolism of Glucose by Clostridium perfringens	Paege Biol	R. Fuka	9-12 4-3

Date	Caption	Dept.	Photographer	Number
8-6	Fermentation of Glucose -3, 4- cl4 by clostridium perfringes	P aege Bio	R. Fuka	9-125-3
8-6	Fermentation of glucose - 1 - cl4 by clostridium perfringes	Paege Biol	R. Fuka	9-126-3
9-2 3	Chemical conversion of glucose to lactic acid	Gibbs B io	P. Bennett	9-127-3
9-23	Degradation of D14 latictic ~~and~~ acid formed during the action of 3NKOH on glucose	Gibbs Biology	P. Bennett	9-128-3
9-23	Flourescent materials associated with scintillation counters	Collins Cosmo	J.F. Garfield	9-12 9-3
9-23	PM of brain sections COLOR (10)	Godwin Med	R. Smith	
9-23	Flourescent materials associated with scintillation counters	Collins Cosmo	J.F. Garfield	9-130-3
9-23	Element of a scintillation counter	Collins Cosmo	J.F. Garfield	9-131-3
9-23	Liquid filled scintillation counter	Collins Cosmo	J.F. Garfield	9-132-3
9-23	Scintillation counter partly assembled	Collins Cosmo	J.F. Garfield	9-133-3
9-25	Equation	Koshland	P. Bennett	9-134-3
9-28	Tobacco plants COLOR also have B&W 11 plants and 1 flower	Sparrow	R. Smith	C9-135-3 thru C9-146-3
9-25	graphs on hexose monophospate from different forms of pentose phosphate	Gibbs Biol	P. Bennett	9-147-3 thru 9-153-3
9-2[illegible]	petunia (2)	Sparrow Biol	R. Walton	C9-154-3 thru C9-155-3
9-2[illegible]	Dahlia (3)	Sparrow	R. Wa lton	C9-156-3 thru

Date	Caption	Dept.	Photographer	Number
9-2~~0~~	tumor tobacco (7)	Sparrow	R. Walton	C9-159-3 thru C9-165-3
9-21	Carnation	S ingleton	R. Walton	C9-166-3 thru C9-168-3
9-25	Aerovanes on King	M.E.S mith Meteor.	J.F. Garfield	9-169-3 thru 9-173-3
9-29	Oscillogram copy neg	R. Eisberg Physics	P. Bennett	9-174-3
9-25	Radio autograph(section)	Klein	P. Bennett	9-175-3
9-25	Radio autograph	Klein	P. Bennett	9-176-3
9-2 9	Chart on thyroid	Shelabarger Med	P. Bennett	9-177-3
9-30	A bsorbtion of zirconium on an iron crubicle from liquid bismuth at 400°C	Weeks Nuc. Eng.	P. Bennett	9-178-3
9-29	Results of diffusion theory relaxation calculation for neutron flux in a non-absorbing moderator with uniform source	Chernick Nuc. Eng.	P. Bennett	9-179-3
9 -29	Internally cooled LMFR BNL	L. Stoughton	P. Bennett	cleared for pub. 9-180-3
9-29	Schematic drawing	Stoughton	P. Bennett	9-181-3
9-30	S ummary of heat transfer calculation for externally cooled LMFR	Dwyer Nuc. Eng.	H. Maile	9-182-3
9-30	S ummary of heat transfer conditions for externally cooled LMFR	Dwyer	H. Maile	9-183-3
9-30	Comparison of different care designers for internally cooled LMFR	Dwyer	H. Maile	9-184-3 thru 9-185-3
9-30	Summary of secondary heat exchange designers	Dwyer	H. Maile	9-186-3 thru 9-187-3
9-2 9	probability N(E) of slowing down past energy E f	Chernick	P. Bennett	9-188-3

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Date	Caption	Dept.	Photographer	Number
9-30	chromosome	Deschner ~~Brookner~~ Biol	P. Bennett	10-1-3
9-30	Peripheral (coldest) element	Dwyer Nuc. Eng	H. Maile	10-2-3
9-30	Central (Hottest) element	Dwyer	H. Maile	10-3-3
10-1	Instruments for aspiration biopsy	Godwin Med	R. Smith	10-4-3
10-1	PM's of pathology tiss ue	Godwin	R. Smith	10-5-3 thru 10-11-3
9-21	Matilda	Stang Hot lab	R. Walton	10-12-3 thru 10-13-3
10-1	Copy neg of pile building. Picture sent us from AEC	Wilbur AEC	P. Bennett	10-14-3
9-30	rats foot	Gidez medical	J. F. Garfield	10-15-3 thru 10-16-3
10-1	Typed equations 1 thru 4	Fleck Nuc. Eng	P. Bennett	10-17-3
10-1	Typed equations 5 thru 9	Fleck	P Bennett	10-18-3
10-1	Typed equations 10 thru 16	Fleck	P. Bennett	10-19-3
10-1	Pile portion of loop B (pencil drawing)	Raseman Nuc. Eng.	P. Bennett	10-20-3
9-29	Tobacco plants from gamma field	S parrow Biol	R. S mith	10-21-3 thru 10-26-3
10-1	Schematic	Dwyer ~~Nuc. Eng.~~ Nuc. Eng.	P. Bennett	10-27-3
10-2	copy of kodachrome transparency of eye	Saunders	H. Maile	10-28-3
9-19	construction progress on Motor Generator House at Cosmotron	Shelton AP & PM	R. Walton	10-29-3 thru 10-35-3
10-1	Schematic drawings	A. Allen		

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Date	Caption	Dept.	Photographer	Number
10-1	curve graph	Schuler Chem	P. Bennett	10-38-3
10-1	convers ion of pentose phosphate to hexose monophosphate	Gibbs Biol	P. Bennett	10-39-3
10-1	Glucose -6- phosphate metabolism	Gibbs	P. Bennett	10-40-3
10-1	Possible rea ctions in the formation of glucose -6- phosphate from pentose phosphate	Gibbs	P. Bennett	10-41-3
10-1	Test system for the pentose phosphate splitting en zyme	Gibbs	P. Bennett	10-42-3
9-23	Snaps in ga mma field	Sparrow	R. Wa lton	1043-3 thru 10-44-3
9-23	Glads in gamma field	Sparrow	R. Walton	10-45-3
9-23	Da hlia flower	Sparrow	R. Walton	10-46-3 thru 10-48-3
9-23	Caster bean leaves	Sparrow	R. Walton	10-49-3 thru 10-50-3
9-33	Caster bean plants in gamma field	Sparrow	R. Walton	10-51-3 thru 10-52-3
9-23	Chick-weed in gamma field	S parrow	R. Walton	10-53-3
9-23	Tobacco tumors	S parrow	R. Walton	10-54-3 thru 10-60-3
9-23	Tobacco plants in gamma field	S parrow	R. Walton	10-61-3 thru 10-66-3
10-1	Source between A ce & King	Bernstein Elec.	J.F. Garfield	10-67-3
10-1	Equipment truck at Ace	Bernstein	J.F. Garfield	10-68-3
10-1	Foxhole at base of Ace	Bernstein	J. F. Garfield	10-69-3
10-1	Source at ACE	Bernstein	J.F. Garfield	10-70-3
9-24	Tobacco plants	Sparrow	R. Smith	10-71-3 thru

Date	Caption	Dept.	Photographer	Number
9-25	Tobacco plants	Sparrow	R. Walton	10-82-3 thru 10-94-3
9-24	A erial of gamma field that was used in life magazine article	Burt	R. Wa lton	10-95-3
10-5	Pathology exhibit	Godwin	R. Smith	10-96-3
10-6	Dist. of C 14 in malic acid	Gibbs biol	H. Maile	10-97-3
10-6	Dist. of C 14 in S ucrose and alanine	Gibbs	H. Maile	10-98-3
10-6	Pentose dissimilation fusarium LINI	Gibbs	H. Maile	10-99-3
10-6	Glucose dissimitations P. Lindneri	?Gibbs	H. Maile	10-100-3
10-6	W.L.D.H. Pathway vs. E.M.P.	Gibbs	H. Maile	10-101-3 thru 10-102-3
10-6	COLOR Luzula	Sparrow	R. Walton	C10-103-3 thru C10-105-3
10-6	COLOR snap bud	S parrow	R. Walton	C10-106-3
10-6	COLOR Gamma field	Sparrow	R. Walton	C10-107-3 thru C10-112-3
10-6	Toba cco bud COLOR	Sparrow	R. Wa lton	C10-113-3
10-6	Caster bean plant lea ves COLOR	S parrow	R. Walton	C10-114-3 thru C10-115-3
10-6	Chickweed COLOR	S parrow	R. Walton	C10-116-3 CN 10-116-3
10-6	Radial component of magnetic field	Physics Whittemore	H. Maile	10-117-3
10-6	Pulsed magnetic field for laminated magnet	Physics	H. Maile	10-118-3
10-6	Kinematics of $\pi^- + p$ — V1 + V4	Physocs	H. Maile	10-119-3
10-6	Glassware	Mark Biology	R. Walton	10-12 0-3
0-2	Liquid scintillators	Piccioni Physics	H. Maile	10-121-3
9-30	Looking through porthole in pig	Tucker Hot Lab	R. Walton	10-122 -3

Date	Caption	Dept.	Photographer	Number
9-30	Top view of generator & pig	Tucker Hot La b.	R. Walton	10-123-3
9-30	Side view of generator - pig	Tucker	R. Walton	10-124-3
9-30	Side view of pig	Tucker	R. Walton	10-125-3
9-30	Iodine generator	Tucker	R. Wa lton	10-126-3
10-3	E. Christensen mea suring glads in Ga mma field	B urt	R. Wa lton	10-127-3 thru 10-128-3
10-3	Harp	Turovlin Nuc. Eng.	R. W lton	10-129-3
9-26	Chassis for loop experiment	Klein Nuc. Eng.	R. Walton	10-130-3
9-26	Screw feeder for molten metal hopper	Manowitz Nuc. Eng.	R. Walton	10-131-3
10-3	S napdragon plant stem	Spa rrow	R. Walton	10-132-3 thru 10-135-3
10-1	Faciated snapdra gon stem	Sparrow	R. Walton	10-136-3
10-2	Luzula plants	Sparrow	R. Walton	10-137-3 thru 10-139-3
10-1	Radiated flowers	Christensen	R. Walton	10-140-3 thru 10-141-3
10-1	Ra diated da isy plants	Christensen	R. Walton	10-142-3 thru 10-143-3
9-26	Chassis for loop experiment	Klein	R. Walton	10-144-3
10-3	Ra ts feet	Gidez Medical	J.F. Garfield	10-145-3 thru 10-150-3
10-1	snapdragon plants COLOR - one showing multiple branches other faciation	S parrow	R. Walton	C10-151-3 thru C10-152-3
10-13	Effects of gamma radiation on geranium plants	S parrow	R. Walton	10-153-3

Date	Caption	Dept.	Photographer	Number
10-13	Fig. 41 pg. 78 the structure of metals and alloys	Dienes Physics	H. Maile	10-154-3
10-13	graph copy from photostat	Dienes	H. Maile	10-155-3 thru 10-156-3
10-13	Fig. 7 pg. 376 Phase transforma ions in solids	Dienes	H. Maile	10-157-3
10-13	Fig. 16.2 structure of an edge dislocation	Dienes	H. Maile	10-158-3
10-13	Fig. 16.3 pos & neg dislocations	Dienes	H. Maile	10-159-3
10-13	ground state group, 440 KEV level group	Hill Physics	H. Maile	10-160-3
10-13	line graph pulse height	Hill	H. Maile	10-161-3
10-13	% of administered I 131 collected by thyroid gland	Shellabarger Med	H. Maile	10-162-3
10-13	Public information of Mr. Christofilos	Burt	R. Walton	10-163-3
10-6	Glads in gamma field	S parrow	R. Walton	10-164-3 thru 10-169-3
10-9	Experimental equipment outside Cosmo shield	Collins Cosmo	Chris & Lasky	10-170-3 thru 10-172 -3
10-14	Model # 1 Configuration 2	B oener Cosmo	H. Maile	10-173-3
10-14	Scheme of photosynthesis 1951	Gibbs Biol	H. Maile	10-174-3
10-14	Conversion of pentose to hexose. Tetrose acceptor	Gibbs	H. Maile	10-175-3
10-14	The transoldalase reaction	Gibbs	H. Maile	10-176-3
10-14	Formation of sedoheptulose 7-P. Transhetolase	Gibbs	H. Maile	10-177-3
10-16	Snapdragon tumors COLOR	Sparrow	R. Wa lton	C 10-178-3 thru C10-180-3

Date	Caption	Dept.	Photographer	Number
	C10-181-3 per CNL-223-60			
10-14	Carnation mutation in gamma field COLOR	Sparrow	R. Walton	C10-181-3
10-14	Luzula COLOR	Sparrow	R. Walton	C10-182-3 & C10-183-3
10-14	Snapdragons in gamma field COLOR	Sparrow	R. Walton	C10-184-3 & C10-185-3
10-15	Cloud chamber copy negs.	Shutt-Courant Hill	delete 10-187-3 10-188-3 10-189-3 H. Maile 10-191-3 10-192-3 per shutt	10-186-3 thru 10-192-3
10-15	BNL A nnual (A S-7) page 21 fig. 8A&B	Boener Cosmo	M. Herbert	10-193-3 & 10-194-3
10/16/53	Line drawing of nuclear event	Wilson Physics	H. Maile	10-195-3
10-19	Typical calibration curve	Handloser Health Phys	H. Maile	10-196-3
0-19	Line graph	Handloser	H. Maile	10-197-3
10-19	wiring diagram	Handloser	H. Maile	10-198-3
10-19	Repeller voltage, volts	Schaeffer Chemistry	H. Maile	10-199-3 thru 10-201-3
10-19	Repeller schematic	Schaeffer	H. Maile	10-202-3
10-19	Pictures from book "THE ADRENAL GLAND" pg. 352 fig. 66	biol Edelman	H. Maile	10-203-3
	pg. 351 fig. 65	Edelman	H. Maile	10-204-3
	pg. 122 fig. 46	Edelman	H. Maile	10-205-3
	pg. 32, fig. 22	Edelman	H. Maile	10-206-3
	pg. 31 fig. 19	Edelman	H. Maile	10-207-3
	pg. 31 fig. 20	Edelman	H. Maile	10-208-3
	pg. 30 fig. 17	Edelman	H. Maile	10-209-3
	pg. 29 fig. 16	Edelman	H. Maile	10-210-3
	pg. 27 fig 14	Edelman	H. Maile	10-211-3
	pg. 27 fig 13	Edelman	H. Maile	10-212-3

Date	Caption	Dept.	Photographer	Number
10-19	Picts from book "THE A DRENAL GLAND"	Edelman Biol		
	pg. 24 fig. 8		H. Maile	10-214-3
	pg. 23 fig. 6 & 7	Edelman	H. Maile	10-215-3
	pg. 22 figs 4 & 5	Edelman	H. Maile	10-216-3
	pg. 20, fig 1 & 2	Edelman	H. Maile	10-217-3
10-19	Pulses	Mihelich Phys	M. Bull	10-218-3
10-14	Radiated plants	Stonier Biol	R. Walton	10-219-3 & 10-220-3
10-12	Luzula plants	Sparrow	R. Walton	10-221-3 & 10-222-3
10-14	Glad plants and bulbs - screening helped to collect small bulblets	Christensen Biol	R. Walton	10-223-3 & 10-224-3
10-1	Picture of loop equipment for evaluating corrosion on liquid metals	B. Turovlin Nuc. Eng. Metallur.	R. Walton	10-225-3
10-19	Experimental filtration process equip.	Menowitz Nuc. Eng.	H. Maile	10-226-3
LO-6-	Test loop with magnet	Moore Nuc. Eng. Metal.	R. Smith	10-227-3
10-16	Apples mutations COLOR	Sparrow	R. Walton	C10-228-3
10-16	Crysanthium plants COLOR	Sparrow	R. Walton	C10-229-3 thru C10-232-3
10-16	Dahlia COLOR	Sparrow	R. Walton	C10-233-3
10-16	Glad bulbs COLOR	Sparrow	R. Walton	C10-234-3
10-16	snap dragon faceation COLOR	Sparrow	R. Walton	C10-235-3
10-16	Showing condensation leaks in ceiling of Rm. 166 in New biology building	Lancaster AEC	Garfield & APC	10-236-3
10-19	Gross speciman - cross section of heat transfer loop	Kammerer Nuc Eng. Metal.	R. Walton	10-237-3

Date	Caption	Dept.	Photographer	Number
10-16	Faciation in snapdragon	Sparrow	R. Walton	10-238-3
10-16	Counters	Handloser Health Phy	R. Walton	10-239-3
10-16	White mice showing abnormalities after injection	Stomer Med	R. Walton	10-240-3
10-7	Heater elements	Sinex Med	J.F. Garfield	10-241-3
10-7	Heater in use	Sinex	J.F. Garfield	10-242-3
10-14	GE spectrometer on east side of pile	Roberts Reactor	R. Walton	10-243-3
10-23	Graph age in days vs. % of surviors	L. Wilson B iol	H. Maile	10-244-3
10-23	Wild larvae, tumorous larvae	Wilson	H. Maile	10-245-3
10-23	age in days vs. % of surviors	Wilson	H. Maile	10-246-3
10-23	Duration of life in hrs.	Wilson	H. Maile	10-247-3
10-23	4 graphs in one A, B, C, D,	Wilson	H. Maile	10-248-3
10-23	copy negs of Shutts negs.			
	7/31/53, 1439, 48384	Shutt	H. Maile	10-249-3
	3/30/53, 2000, 6270			10-250-3
	6/10/53, 1953, 26901			10-251-3
	6/10/53, 1953, 27289			10-252-3
	7/24/53, 1240, 41856			10-253-3
	3/23/53, 1956, 3594			10-254-3
	6/10/53, 1718, 26078			10-255-3
	3/23/53, 2053, 4194			10-256-3
	13753			10-257-3
	6/10/53, 1718, 26129			10-258-3
	6/10/53, ~~1953~~, 25468 → 1653			10-259-3
	7/24/53, 1540, 42696			10-260-3
	6/10/53, 1953, 26986			10-261-3
	8/3/53, 1022, 52799			10-262-3
	7/31/53, 1536, 48748			10-263-3
	6/10/53, 2103, 27606			10-264-3
	2103			
10-23	Copies of 25 graphs	T. Ta ylor Chem	H. Maile	10-265-3 thru 10-289-3
10-6	Rhododendrum buds	Sparrow	R. Walton	10-290-3 thru 10-296-3

Date	Caption	Dept.	Photographer	Number
10-8	Snapdragon plants in gamma field	S parrow	R. Walton	10-297-3 thru ~~10-299-3~~ 10-300-3
10-26	Fig. 1 Florescence spectra	Weissman Chemistry	P. S imack	10-301-3
10-22	Test tubes of blood that have been centrifuged	Medical	R. Walton	10-302-3 & 10-303-3
10-27	Copy of ozalid graphs	Taylor Chem	A. Lasky	10-304-3 thru 10-308-3
10-27	copy from typed tables and 1 graph	Wilson Biol	A . Lasky	10-309-3 thru 10-313-3
10-27	Copy typed tables	Tosteson Medical	A, Lasky	10-314-3 & 10-315-3
10-27	Bar graph- enzyme activity	Serlin Medical	A . Lasky	10-316-3
10-27	Diagram fig 1 page 457	S erlin	A . Lasky	10-317-3
10-27	S chematic s	Landon Nuc. Eng.	A. Lasky	10-318-3 & 10-319-3
10-27	curve graphs Cs^{137}	Dunham Medical	A. Lasky	10-320-3 & 10-321-3
10-27	copy formula	Sinex Medical	A. Lasky	10-322-3
10-27	specific activity of liver amino acids	Sinex	A . Lasky	10-323-3
10-27	dist. of amino acids in liver	Sinex	A. Lasky	10-324-3
10-27	hypothetical relationship of free a mino acids etc.	S inex	A . Lasky	10-325-3
10-27	Dowex-50 chromatograph of the hexone bases, etc.	Sinex	A. Lasky	10-326-3
10-27	basic amino acids of collogen etc.	S inex	A. Lasky	10-327-3
10-27	formula for estimating specific activity of liver protein	S inex	A. Lasky	10-328-3

Date	Caption	Dept.	Photographer	Number
10-27	micro blood gas apparatus	Sinex Medical	A. Lasky	~~x10-32203~~ 10-329-3
10-20-	Radiated tobacco plants	Christenson Biology	R. Walton	10-330-3 thru 10-335-3
10-22	Effect of rust on barley also resistance in strains	Konzak Biol	R. Walton	10-336-3 & 10-337-3
10-22	Loop experiment showing cross-section of pipes	Kammerer Nuc. Eng. Metal.	R. Walton	10-338-3
10-23	conta iner for spherical pigs, coba lt source	German Biol	R. Walton	10-339-3
10-27	line graphs	Dahl Medical	H. Maile	10-340-3 thru 10-343-3
10-28	Drawing	Carson Medical	H. Maile	10-344-3
10-28	Graph- neutron energy vs. total cross section-barns	Landon Rea ctor	H. Maile	10-345-3
10-27	Conversion electron spectra of At 211, 210, 209	Mihelich Physics	H. Maile	10-346-3
10-29	PM of tumor in drosophilia	Wilson Biology	R. Smith	10-347-3 thru 10-354-3
10-27	Ra ts	Gidez Medical	J.F. Garfield	10-355-3 thru 10-359-3
10-27	Ra t detail	Gidez	J.F. Garfield	10-360-3 thru 10-367-3

Date	Caption	Dept.	Photographer	Number
10-26	Copy negs from Shutt's pictures 7/31/53 13:40, 48011 ~~7/31/53 13:40, 48011~~ 6/10/53, 17:18, 25918 ~~6/10/53, 17:18, 25918~~ ~~7/31/53, 16:30, 49253~~ 7/31/53, 16:30, 49253 OK 8/3/53, 19:15, 56651 ~~8/3/53, 19:15, 56651~~ 6/10/53, 16:23, 25638 ~~6/10/53, 16:23, 25638~~	Shutt	A. Lasky Per Shutt	10-368-3 delete ~~10-369-3~~ 10-370-3 delete ~~10-371-3~~ ~~10-372-3~~ 10-373-3 10-374-3 delete ~~10-375-3~~ 10-376-3 delete ~~10-377-3~~
10-2 1	Radiated tobacco pla nt COLOR	Christensen	R. Walton	C10-378-3
10-28	Sterile box for culture tissue growth	Val Biology	R. Walton	10-379-3
10-28	Culture in ~~xxxxx~~ agar	Val Biology	R. Walton	10-380-3 thru 10-385-3
10-28	Microtome for cutting eye cross-sections and apparatus for keeping eye wet	Sa unders Biol	R. Walton	10-386-3
10-18	Radiated plant chrysanthimum	Sparrow	R. Walton	10-387-3
10-18	Control plant chrysanthimum	Sparrow	R. Walton	10-388-3 thru 10-390-3
10-19	Flow patterns	DeLaguna	H.F. Ga rfield	10-391-3 thru 10-398-3
Oct-	~~#51~~ - N.Y.O - AEC - Fernald, Westinghouse:			
	#51 - Central equipment for rolling mill	Hogerton AEC	J.F. Garfield	10-399-3
	#53 - Central equipment for rolling mill	"	"	10-400-3
	10-399-3 + 10-400-3	Sent to	J. Wells	permanently A.J.

November

Date	Caption	Dept.	Photographer	Number
11-2	Graph Bi Mn 380° 29 Oct. '53	Roberts Re-ctor	P. Simack	11-1-3
11-2	Schematic Bi Mn Structures	Roberts	P. Simack	11-2-3
11-2	Graph Wt. % vs. 1000/T T° K	Wiswall Nuc. Eng.	P. Simack	11-3-3
10-27	PM of pathology tissue	Godwin Med.	R. Smith	11-4-3 thru 11-14-3
10-26	Tumor on dog	Sa unders	R. Smith	11-15-3
10-28	PM of pathology tissue	S aunders	R. Smith	11-16-3 thru 11-26-3
11-2	C-14 Glucose fermentation with P. lindneri, degradation of ethanol	Gibbs Biol	P. S imack	11-27-3
11-2	Products of glucose fermentation by resting cell suspensions of P. lindneri	Gibbs	P. Simack	11-28-3
11-2	C-14 glucose and C14 fructose fermentation with P. lindneri total oxidation of ethanol	Gibbs	P. Simack	11-29-3
11-2	Tobacco plants COLOR (4)	Sparrow	R. Smith	C11-30-3 thru C11-33-3
11-2	Neutron transmission about 134 ev for two thicknesses of cobalt	Seidl Physics	P. Simack	11-34-3
11-2	Fig. 1 S chematic of capture gamma ray exp riment	Re ier Re-ctor	P. S imack	11-35-3
11-2	Fig. 2 block diagram of compton spectro meter	Reier	P. Simack	11-36-3
11-2	line drawing schematic	King Biol	P. Simack	11-37-3
11-2	Frequency of sex-linked recessive lethals	King	P. Simack	11-38-3
11-2	Graph- current vs. spacing	King	P. Simack	11-39-3
11-2	Frequency mutated sperm capable of reproducing a visible embryo	King	P. Simack	11-40-3
11-2	Graph a vg. time interval between exposure			

Date	Caption	Dept.	Photographer	Number
10-28	Shield set up in gamma field	Christensen Biol	R. Walton	11-43-3 & 11-44-3
10-29	Better things for better living, thru chemistry		R. Walton	11-45-3
10-28	Van de graa ff generator	Turner Cyc - ~~Gamma~~ Phys	R. Walton	11-46-3 thru 11049-3
10-27	Fa ciated snapdragon bud	Sparrow	R Walton	11-50-3
10-27	Crysanthimum plant	Spa row	R. Walton	11-51-3
10-27	Tradescantia buds	S parrow	R. Walton	11-52-3 thru 11-55-3
11-2	Graph- ratio of H.E.S. to primary electrons	Saldick Chem.	P. Simack	11-56-3
10-30	gra y wedge with register holes	Chase Elec.	J.F. Garfield	11-57-3
11-3	Microtome sectioning with alcohol drip	S aunders Biol.	R. Walton	11-58-3
11-4	PM of pathology tissue	Saunders	R. Smith	11-59-3
11-4	Drawing- gaseous fission product irradiation facility	Manowitz Nuc. Eng.	P. Simack	11-60-3
11-4	Graph- differential range curve mean initial momentum	Yuan Cosmo	P. Simack	11-61-3
11-4	Graph- 280 MEV π^+ beam May 13, 1953	Yuan	P. Simack	11-62-3
11-4	Graph- 330 MEV π^+ mean in C June 14, '53	Yuan	P Simack	11-63-3
11-4	500 MEV π^+ Beam May 13, 1953	Yuan	P, Simack	11-64-3
11-4	Total π-p cross sections	Yuan	P. S imack	11-65-3
11-5	Table- Chromosome aberrations produced with 360 r	Steffenson Biol	P. Simack	11-66-3
11-5	Table chromosome aberrations produced with 120 r	Steffenson	P. S imack	11-67-3

Date	Caption	Dept.	Photographer	Number
11-4	Cyclotron target	W. Harris Cycl.	J.F. Garfield	11-69-3
11-2	Reworking Van de Graaff generator	Turner Cycl.	R. Walton	11-70-3 thru 11-74-3
10-21	COLOR chrysanthimum control, faciated snapdragon, mutant snapdragon	Sparrow	R. Walton	C11-75-3 thru C11-77-3
11-9	Portrait M. Gibbs	M. Gibbs Biol	A. P. Christoffersen	11-78-3
11-9	CMP cool, Madansky, Piccioni, Sh Shapiro, Chem, Leavitt, LY Lindenbaum Yuan	Patterson Adm.	P. Bennett	11-79-3
11 - 9	10 maps	de Laguna Geol	M. Herbert	11-80-3 thru 11-89-3
11-9	Piece of metal	Cendrowsky Metal.	M. Bull	11-90-3
11-9	Monochromator for 25 kev Neutrons	F. Shore	A. Lasky	11-91-3
11-9	Beam profile at detector	F. Shore	A. Lasky	11-92-3
11-9	Gamma ray Transmission Fe Na^{24} Source	F. Shore	A. Lasky	11-93-3
11-9	PM pathology tissue	Saunders	R. Smith	11-94-3
11-9	PM of pathology tissue COLOR	Saunders	R. Smith	C11-94-3
11-9	PM's of pathology tissue COLOR	Saunders	R. Smith	C11-95-3 thru C11-112-3
11-9	PM of pathology tissue	Saunders	R. Smith	11-112-3
11-2	Magnet section with new coils installed	Lasky A.G.S.	R. Walton	11-113-3 & 11-114-3
11-2	Probe for A.G.S.	Plotkin	R. Walton	11-115-3
11-9	Dosage chart	Clark Biol	P. Bennett	11-116-3

Date	Caption	Dept.	Photographer	Number
11-9	Pencil drawing Ionization chamber	Bernstesin Elec.	P. Bennett	11-117-3
11-9	A ttenuation of multioly scattered radiation	Bernstein	P. Bennett	11-118-3
11-9	Low energy region	Bernstein	Bennett	11-119-3
11-9	Energy (Pulse ht.)	Bernstein	P. Bennett	11-120-3
11-9	Chart-Total dosage measured in the hole 3 ft. below surface using various types of shielding	Bernstein	P. Bennett	11-121-3
11-9	Intensity Horizontal distance (ft.)	Bernstein	P. Bennett	11-122-3
11-9	Total dosage from a cobalt 60 source as measured with an ion chamber	Bernstein	P. Bennett	11-123-3
11-10	PM of pathology tissue	S hellabarger Med	R. Smith	11-124-3 & 11-125-3
11-10	PM of chromosomes S lide # A-5188E Mag. 1150X	Sparrow	R. Smith	11-126-3
11-10	PM of chromosomes Slide # A5188G Mag. 1150X	S parrow	R. Smith	11-127-3
11-9	Table 1 thru 7	Godwin Med	P. Bennett	11-128-3
11-9	Table 8 thru 17	Godwin	P. Bennett	11-129-3
11-9	Nuclear reactions for capture therapy	Godwin	P. Bennett	11-130-3
11-10	composite of plants	Sparrow	P. Bennett	11-131-3
11-10	Vanadium singles capture spectrum	Rier Reactor	P. Bennett	11-132-3
11-10	Iron coincidence capture spectrum	Rier	P. Bennett	11-133-3
11-10	Cs 137 singles spectrum	Rier	P. Bennett	11-134-3
11-10	Cs 137 Coincidence spectrum	Rier	P. Bennett	11-135-3
11-9	Chart K-184.1 and K 343.4	A lburger Physics	P. Bennett	11-136-3
11-9	Tellurium resonance peak	Foote ~~A lburger~~	P. Bennett	11-137-3
11-9	Electron capture from Bi 206	A lburger	P. Bennett	11-138-3
11-9	Chart k/1 and Z2/E	A lburger	P. Bennett	11-139-3

Date	Caption	Dept.	Photographer	Number
11-9	Tellarium chart	Tate ~~Alburger Physics~~	P. Bennett	11-140-3
11-9	Coincidence counts per min. Singles counts per min	Alburger Physics	P. Bennett	11-141-3
11-9	Chart "Potentiometer settings"	Alburger	P. Bennett	11-142-3
11-9	Gauss - CM	Alburger	P. Bennett	11-143-3
11-9	Excitation energy (MEV)	Alburger	P. Bennett	11-144-3
11-9	K1841 62,000/min calculated	Alburger	P. Bennett	11-145-3
11-10	Schematic of 24" scatter chamber	Eisberg Physics	P. Bennett	11-146-3
111-9	Sectioning equipment for large eyes	Saunders	R. Walton	11-147-3 & 11-148-3
11-11	Chart visible mutations observed in N2 of Mohawk oats etc.	Konzak	H. Maile	11-149-3
11/12/53	Energy distribution of scattered mesons	Smith Physics	Maile	11-150-3
11/12/53	Angular distribution of scattered mesons in lab system	Smith Physics	Maile	11-151-3
11-12	Frequency of divisions in colchicine t treated root tips compared with controls	Bowen, C Biol	H. Maile	11-152-3
11-12	Cytological analysis of control runs	C. Bowen	H. Maile	11-153-3
11-12	Summary of dosage level(parts per million) necessary to produce cytological effects and non-recovery after eight hours of treatment	Biology C. Bowen	H. Maile	11-154-3
11/13/53	Crossection of remote weld	Stoughton Nuclear Eng.	Walton	11-155-3
11/13/53	Oxytocin vasopressin	Sinex	H. Maile	11-156-3
11-12	Equation	Seidl Physics	H. Msile	11-157-3 thru 11-161-3
11-10	~~[illegible]~~	~~Moses~~ Biol		
	Photomicro spectro photometer	Moses	Walton & Smith	11-162-3

Date	Caption	Dept.	Photographer	Number
11-10	Looking into top of scope piece showing vacuum tube	Moses Biol	Walton & Smith	11-163-3
11-10	Faciation	Sparrow	Walton	11-164-3
11-13	Loop	EMoore Metal	Lasky&Garfield	11-165-3
11-2	Dye trace in sand	deLaguna	Garfield	11-166-3 thru 11-175-3
11-13	Drawing 500 mev Beam	Cauldron A.G.S.	Simack	11-176-3
11-13	Graph Rhodium	Landon Reactor	Simack	11-177-3 & 11-178-3
11-13	Line drawing	Warner Reactor	Simack	11-179-3
11-13	A xial section of the spectrometer	Alburger Physics	P. Simack	11-180-3
11-13	Schematic cross section of the B-spectrogoniometer	Alburger Physics	P. Simack	11-181-3
11-13	Graph- Counts per min. vs. Gauss cm	Alburger	P. Simack	11-182-3
11-12	PM's of pathology tissue (30)COLOR	Godwin	R. Smith	C11-183-3 thru C11-212-3
11/11/53	Chlorophyll mutants in Tama Oats	Konzak-Bio	Walton	C11-213-3
"	" " " "	"	"	C11-214-3
11/11/53	Red Mutations in white carnations - plants originally from Gamma filed 84 meters	Singleton	Walton	C11-215-3 thru C11-218-3
11-11	Oxalis (wood sorrel) 63 CM	S parrow	R. Walton	11-219-3 C11-219-3
11-11	Oxalis (Wood sorrel) 53CM	Sparrow	R. Walton	11-220-3 C11-220-3
11-11	Oxalis (Wood sorrel) Control	Sparrow	R. Walton	11-221-3 C11-221-3
11-11	Oxalis (Wood sorrel) 62CM	Sparrow	R. Walton	11-222-3 C11-222-3

Date	Caption	Dept.	Photographer	Number
11-11	Oxalis (Wood sorrel) 64CM	Sparrow	R. Walton	11-223-3 C11-223-3
11-11	Oxalis (Wood sorrel) 63CM	Sparrow	R. Walton	11-224-3 C11-224-3
11-17	Graph Ti^{48} (nγ) Ti^{49}	Motz Physics	P. Simack	11-225-3
11-17	Chart- Rhodium	Landon Reactor	P. Simack	11-226-3
11-17	Chart-Treatment etc.	Shallabarger Med	P. Simack	11-227-3
11-17	Chart- ratio of Inward to outward K rate ratio constant in sickled cells	Tosteson Med	P. Simack	11-228-3
11-17	Chart- Role of diffusion and carrier in K influx into sickled cells	Tosteson	P. Simack	11-229-3
11-17	Schematic diagram	Koshland Biol	P. Simack	11-230-3 thru 11-233-3
11-17	Chemical equations	Koshland	P. Simack	11-234-3
11-17	Graph- Europium	V. Sailor Reactor?	P. Simack	11-235-3
11-18	Delayed pulse distribution resulting from the isometric state of etc.	Alburger Phys	P. Bennett	11-236-3
11-18	Typed table	Bernstein	P. Bennett	11-237-3
11-18	Gray wedge pulse	Bernstein	P. Bennett	11-238-3 & 11-239-3
11-18	Uncorrected data Bis uth, lead, beryllium, thorium	Brockhouse Reactor	P. Bennett	11-240-3
11-18	Corected data, bismuth, lead, beryllium, lea d	Brockhouse	P. Bennett	11-241-3
11-18	$ZnFe_2O^4$ Graph	Brockhouse	P. Bennett	11-242-3
11-18	F = Specimen thickness over counter diameter	Brockhouse	P. Benneyt	11-243-3
11-18	Line drawing	Brockhouse	P. Bennett	11-244-3

Date	Caption	Dept.	Photographer	Number
11-17	Graph- Umbra limi fundulus heterochitus	Edelman Biol.	P. Simack	11-2 46-3
11-17	Graph- Notropis deliciosus unbra limi percina caprodes	Edelman	P. Simack	11-247-3
11-17	Graph- Fundulus heteroclitus fundulus majalis	Edelman	P. Simack	11-248-3
11-17	Graph- %I^{132} vs. hours	Edelman	P. Simack	11-249-3
11-17	Graph- % Uptake I ^{131} vs. time, hours	Edelman	P. Simack	11-250-3
11-19	Brookhaven Cosmotron E- 2 .3BEV	Yuan Cosmo	H. Maile	11-251-3
11-19	Habrobracon cocoons & eggs & shrivelled bodies of ephestia caterpillars	Heidenthal Biol	H. Maile	11-252-3
11-19	Habrobracon	Heidenthal	H. Maile	11-253-3
11-19	Habrobracon male drinking from drop of honey	Heidenthal	H. Maile	11-254-3
11-18	Motz, Pieper, Kinsey Chart	Motz Phys	P. Bennett	11-255-3
11-20	PM of chromosomes S lide # 3	S teffenson Biol	R. Smith	11-256-3
11-20	PM of chromosomes Slide # 2	Steffenson	R. S mith	11-257-3
11-20	PM of chromosomes Slide # 1	Steffenson	R. Smith	11-258-3 & 11-259-3
11/4/53	Pm ~~xxxxxxxxxxxxxx~~x pathology tissue	Saunders	R.F. Smith	11-260-3 thru 11-270-3
11-17	PM of chromosomes S lide # A5219C 130X	Sparrow	R. S mith	11-271-3
11-17	PM of chromosomes slide # A5223 G 1153 X	S parrow	R. Smith	11-272-3
11-17	PM of chromosomes slide A-5219C Mag310X	Sparrow	R. Smith	11-273-3
11-17	PM of sedum subulatum phase contrast Ma g 1153 X	S parrow	R. S mith	11-274-3
11-20	~~xxxxxxxxxxxxxxxx~~ half section of prototype waste container	Isler Nuc. Eng.	M. Bull	11-275-3
11-20	PM of path tissue showing alpha tracks bright field	Godwin	R. Smith	11-276-3
11-20	PM of path tissue showing alpha tracks dark field	Godwin	R. Smith	11-277-3

Date	Caption	Dept.	Photographer	Number
11-20	Graph-Coloration induced in al2o3by nuetron irradiation 123@4 hours	levy Phy	P.Bennett	11-278-3
11-20	Graph-Optical density a t peakl of nuetron induced band in al203	Levy Phy	P.Bennett	11-279-3
11-20	Chart- Chart of Cobalt	Siedl	P,Bennett	11-281-3
11-20	Chart½ Chart of Summary : Widths Y of the 134 ev Co resonance	Siedl	P,Bennett	11-280-3
11-20	Chart - Europium	V Sailor	P.Bennett	11-282-3
11-20	Response of 12u Zns to Po 2's	Palevsky Physics	P. Bennett	11-283-3
11-20	Magnetic cross section of Fe 3+ ions barns 4/it steradians	Brockhouse Reactor	P. Bennett	11-284-3
11-20	chart diffuse scattering	Brockhouse	P. Bennett	11-285-3
11-20	Diffuse scattering by 2n Fe 04 (296 ^{0}K)	Brockhouse	P. Bennett	11-286-3
11-20	Chart-Ion group farm factors	Brockhouse	P. Bennett	11-287-3
11-20	Equation	Landon Reactor	P. Bennett	11-288-3
11-20	Equation	Landon	P. Bennett	11-289-3
11-20	32 GE^{75}_{43} (80 min)	Schardt Elec/	P. Bennett	11-290-3
11-20	Data on dominant tethals in sperm	~~Schardt~~	P. Bennett	11-291-3
11-20	32 SE^{75}_{41} (12 8 days)	Schardt	P. Bennett	11-292-3
11-20	Chart	Schardt	P. Bennett	11-293-3
11-20	PM pathology tissue	Saunders	R. Smith	C11-294-3
11-21	Bi 206 gamma ray energies in KEV	Alburger Phys	P. Bennett	11-295-3
11-21	Dominant and recessive lethals induced by 4-radiation of first mecotic metaphase eggs	Heidenthal ~~Chem~~	P. Bennett	11-296-3
11-21	A. comparison of dominant lethals in sperm and in first micotic metaphase eggs	Heidenthal	P. Bennett	11-297-3
11-21	Chart- Peak intensity & tem perature	Corliss Chem	P. Bennett	11-298-3

Date	Caption	Dept.	Photographer	Number
11-21	Chart- Integrated Intensity (LLL) reflected	Corliss Chem	P. Bennett	11-2 99-3
11-2 1	12 copy negs from Oak Ridge Nat. Lab. booklets: ORNL 50-4-103 " " " " 50-12-109 ORNL 52-7-125	Rosenwasser Physics	P. Bennett	11-300-3 thru 11-311-3
11-18	PM of pathology tissue	Saunders	R. Smith	11-312-3
11-18	PM of pathology tissue	Sinex Med	R. Smith	11-313-3 & 11-314-3 also C11-313-3 C11-314-3
11-17	PM's of plant tumors Slides # 1-11	Stonier Biol	R. Smith	11-315-3 thru 11325-3
11-18	lab pups	Saunders	R. Smith	11-326-3 thru 11-329-3
11-21	Chart - Timed Flight, path	Seidl Phys	P. Bennett	11-330-3
11-21	Pulse from gray wedge	Schardt Elec.	P. Bennett	11-331-3 & 11-332-3
11-13	COLOR mutated carnations	~~XXXXXXX~~ Singleton	R. Walton	C11-333-3 thru C11-335-3
11-24	Line graph	Sunyar Physics	H. Maile	11-336-3
11-24	The directional correlation of the etc.	Sunyar	H. Maile	11-337-3
11-24	Proton range curve momentum	Yuan Cosmo	H. Maile	11-338-3
~~11-24~~	~~Total cross section, solid curve etc.~~	~~Yuan~~	~~H. Maile~~	~~[illegible]~~
11-24	The total interaction cross-section of hydrogen for positive and negative pions	Yuan	H. Maile	11-340-3
11-24	Relative momentum spectrum of pions etc.	Yuan	H. Maile	11-341-3
11-24	Relative energy systems in the C.M. system of pions produced in beryllium etc.	Yuan	H. Maile	11-342-3

Date	Caption	Dept.	Photographer	Number
11-18	Cooling soil spray weld on G 4 pump bus bar	Klein Nuc. Eng.	R. Walton	11-343-3
11-20	Heating unit, valve and impeller for liquid metals experiment	Hittman Nuc. Eng.	R. Walton	11-344-3 & 11-345-3
11-2 4	Total cross sections of negative pions	R. Cool Phys	H. Maile	11-346-3
11-24	Total cross sections of 1.5 BEV negative pions	R. Cool	H. Maile	11-347-3
11-24	Total cross sections of pions	Cool	H. Maile	11-348-3
11-24	Side view of magnet & coils for A.G.S.	J. Burt	R. Walton	11-349-3
11-24	Looking down on working model of A.G.S	J. Burt	R. Walton	11-350-3
11-23	Testing effect of radiation on plastic h heat test	O. Kuhl Nuc. Eng.	R. Walton	11-351-3 thru 11-354-3
11-24	Chart- A u	Landon Reactor	H. Maile	11-355-3
11-25	Baking plastic sidc	Hasselriis Phys	R. Smith	11-356-3
11-27	PM of chromosomes Mag. 1153X	S teffenson Biol	R. Smith	11-357-3
11/27/53	PM's of Drosophila	King-Bio.	R.F. Smith	C11-358-3 thru C11-363-3
11-30	Ca rnation mutation COLOR	Singleton	R. Smith	C11-364-3 & C11-365-3
11-2 5	PM of chromosomes Slide # A 124C Mag. 1153X	Sparrow	R. Smith	11-366-2
11-25	PM of chromosomes Slide # A 6941 Mag.	720X "	R. Smith	11-367-3
11-30	Gra ph 1 & 2	Clark Biol	H. Maile	11-368-3
11-30	Graph 3 & 4	Clark	H. Maile	11-369-3
11-30	Graph 5 & 6	Clark	H. Maile	11-370-3
11-30	Graph 7 & 8	Clark	H. Maile	11-371-3
11-30	Graph 9 & 10	Clark	H. Maile	11-372-3
11-30	Graph 17	Clark	H. Maile	11-373-3
11-30	Graph 21	Clrak	H. Maile	11-374-3

Date	Caption	Dept.	Photographer	Number
11-30	An irradiation "cage" in the thermal column for high thermal flux etc.	King Biol	H. Maile	11-375-3
11-27	PM of particle track	Hornbostle Physics	R. Smith	11-376-3
9/?/53	PmM's of pathological tissue	Godwin Medical	R. Smith	C11-377-3 C11-378-3

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Date	Caption	Dept.	Photographer	Number
11-30	Cloud chamber for tritium counting	Fireman ~~Rexxxter~~ Physics	R. Walton	12-1-3
11-24	Chrysanthimum COLOR	Singleton Biol.	R. Walton	C12-2-3 thru C12-4-3
12-2	Table III values for Km, 1 Km, and Vm for haploid habrobracon	Clark Biol	H. Maile	12-5-3
11-25	Radiated and non radiated samples plastic	Kuhl Nuc. Eng.	R. Walton	12-6-3
11-25	Fluidized solids flow test	Rabba Nuc. Eng.	R. Walton	12-7-3 & 12-8-3
12-1	Cross-section model of cosmotron	Burt	R. Walton	12-9-3
11-25	Close-up showing relative position of counters	Chen Cosmo	R. Walton	12-10-3
11-25	Counting equipment	Chen	R. Walton	12-11-3
11-25	Front of counting rack	Chen	R. Walton	12-12-3
11-25	Counting equipment	Chen	R. Walton	12-13-3
11-25	Long shot-showing arrangement of counters from pulsating magnet and cosmo shield	Chen	R. Walton	12-14-3
11-25	Rear of electronic counter	Chen	R. Walton	12-15-3
11-27	~~Xxxxxxxxxxxxxx~~ In pile section	Klein	R. Walton	12-16-3 thru 12-22-3
12-3	Fig. 1 Schematic block diagram	Fireman	H. Maile	12-23-3
12-3	Fig. 3 Diffusion chamber	Fireman	H. Maile	12-24-3
11-18	Test rig	Kuhl Nuc. Eng.	J.F. Garfield	12-25-3 & 12-26-3
12-4	copy neg of 7-206-0 w art work added	Finn	H. Maile	12-27-3

Date	Caption	Dept.	Photographer	Number
12-3	Filter devices to check oil density of atmosphere after discharge from meteor. towers--air sampling devices	Meteor.	M. B ull	12-28-3
12-3	Filter device to check density of oil content of atmosphere after discharge from meteor. tower	Meteor.	M. Bull	12-29-3
12-3	F. E. Bartlett checking oil content of atmosphere with oil sampling device after discharge from meteor. towers	Meteor.	M. Bull	12-30-3
12-3	M.E. S mith and Irving Singer reading filter devices checking oil in atmosphere after discharge from meteor. tower	Meteor.	M. Bull	12-31-3
12-7	Gaseous fission product, irradiation fa cility Box car reactor	Manowitz Nuc. Eng.	H. Maile	12-32-3
12-7	Gaseous fission product-irradiation facility. Plant layout	Manowitz Nuc. Eng.	H. Maile	12-33-3
12-4	Line drawing	Hornbostal Physics	H. Maile	12-34-3
12-5	PM of plant tumor a utograph #12 - # 18	Stonier Biol	R. Smith	12-35-3 thru 12-41-3
12-3	PM of chromosomes 720X	Steffenson Biol	R. Smith	12-42-3 & 12-43-3
12-3	PM of chromosomes 1153 X	Steffenson	R. Smith	12-44-3
12-3	PM of chromosomes Slide # A 5152D Mag. 1153X	Sparrow Biol	R. Smith	12-45-3
12-5	PM of chromosomes S lide A 144 D Mag 512 X	Sparrow	R. Smith	12-46-3
12-8	A continous calciner for processing fission product w astes	Pallace Nuc. Eng.	P. Bennett	12-47-3
12-8	Experimental remote welding fixture	Pallace	P. Bennett	12-48-3
12-8	% protection vs. Log(concentration)	Sparrow	H. Fuka	12-49-3

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12-4	Cross-section of remote control weld	Isler Nuc. Eng.	R. Walton	12-50-3
12-8	Fig. 5 electrolytic cell	Fireman Physics	H. Maile	12-51-3
12-8	Fig. 4 magnesium furnace	Fireman	H. Maile	12-52-3
12-9	Copy heavy water reactor at Kjeller norway etc.	Burt	R. Fuka	12-53-3
12-9	Copy from reprint of scientific american Fig. 1	Burt	R. Fuka	12-54-3
12-9	copy fig. 3 from reprint etc.	Burt	R. Fuka	12-55-3
12-9	copy fig. 2 from reprint scientific american etc.	Burt	R. Fuka	12-56-3
12-9	copy nucleonics instruments etc.	Burt	R. Fuka	12-57-3
12-9	copy nucleonics suggested layout etc.	Burt	R. Fuka	12-58-3
12-9	copy pp 128-129 pop science mag etc.	Burt	R. Fuka	12-59-3
12-9	basic instrumentation and control etc.	Burt	R. Fuka	12-60-3
12-9	copy nucleonics reactor core etc.	Burt	R. Fuka	12-61-3
12-9	copy fig. 4 scientific amer. ect.	Burt	R. Fuka	12-62-3
12-9	helium cooled reactor, etc.	Burt	R. Fuka	12-63-3
12-4	Equipment for the study of Ion-exchange kinetics	Knipp Nuc. Eng.	R. Walton	12-64-3 thru 12-66-3
12-7	Radioziink sulfide experiment	Stang Hot Lab.	R. Walton	12-67-3
12-1	Inpile section	Klein Nuc. Enng.	R. Walton	12-68-3 12-69-3
12-2	Waste treatment equipment	Isler Nuc. Eng.	R. Walton	12-70-3 ~~12-71-3~~ thru 12-72-3
12-10	Europium chart	Sailor PHYS. ~~Nuc. Eng.~~	H. Maile	12-73-3

Date	Caption	Dept.	Photographer	Number
12-11	Fig 5 copy from ektachrome	Moses Biol	H. Maile	12-75-3
12-11	Fig 6. copy from ektachrome	Moses	H. Maile	12-76-3
12-11	Fig. 7 copy from ektachrome	Moses	Maile	12-77-3
12-11	Plate I composite	Moses	Maile	12-78-3
12-11	Plate III composite	Moses	Maile	12-79-3
12-11	Plate IV composite	Moses	Maile	12-80-3
12-11	Plate V composite	Moses	Maile	12-81-3
12-11	Plate VI composite	Moses	Maile	12-82-3
12-11	Plate VII composite	Moses	Maile	12-83-3
12-8	Mutation-snapdragon bud	Sparrow	R. Walton	12-84-3 & 12-85-3
12-8	Scalp section	Godwin Med	R. Smith	12-86-3
12-14	graph f vs. p'	Sternheimer Phys	R. Fuka	12-87-3
12-14	Graph F vs P'o	S ternheimer Phys	R. Fuka	12-88-3
12-15	PM of plant tissue autograph	S tonier Biol	R. Smith	12-89-3 thru 12-92-3
12-11	Exploded view of pump	Horn Hot Lab.	R. Walton	12-93-3
12-7	Salt transfer tank	Klein Nuc. Eng.	R. Walton	12-94-3 thru 12-96-3
12-13	the X family at home	Burt	R. Walton	12-97-3 & 12-98-3
12-11	Entering south gate X family	Burt	R. Walton	12-99-3 & 12-100-3
12-8	Electronics equipment for neutron chopper and counter	Carter Phys	R. Walton	12-101-3
12-8	Gas bag and electronic equipment for	Carter	R. Walton	12-102-3

Date	Caption	Dept.	Photographer	Number
12-7	Graphite section from cycling test	Turovlin Nuc. Eng.	R. Walton	12-103-3 thru 12-107-3
12-2	Compton spectrometer for neutron capture gamma ray experiment	Rier Rhyne	R. Walton	12-108-3 thru ~~12-109-3~~ 12-110-3
12-8	COLOR snapdragon buds, elongation, mutation	Sparrow	R. Walton	C12-111-3 thru C12-113-3
12-15	Copy neg Fig 8	Foote Reactor	R. Fuka	12-114-3
12-15	Copy neg figure 3	Foote	R. Fuka	12-115-3
12-15	Copy neg figure 2	Foote	R. Fuka	12-116-3
12-15	Tellurium sample thickness corection graphical integration	Foote	R. Fuka	12-117-3
12-15	Counts per minute vs. pulse height volts	Foote	R. Fuka	12-118-3
12-15	Tellurium scattering resonance	Foote	R. Fuka	12-119-3
12-15	Tellurium sample thickness correction cross section variation over etc.	Foote	R. Fuka	12-120-3
12-15	Tellurium scattering graphic estimate of sample thickness correction at observed resonance peak	Foote	R. Fuka	12-121-3
12-15	Tellurium sample thickness correction	Foote	R. Fuka	12-122-3
12-15	Reactor Fig 11	Foote	R. Fuka	12-123-3
12-15	Graphite standard scatterer	Foote	R. Fuka	12-124-3
12-15	Scattering detector detail	Foote	R. Fuka	12-125-3
12-15	Crystal spectrometer for scattering measurements	Foote	R. Fuka	12-126-3
12-15	Tellurium resonance peak	Foote	R. Fuka	12-127-3
12-15	Neutron energy -ev	Foote	R. Fuka	12-128-3
12-15	Crystal spectrometer for scattering measurements bright line technique	Foote	R. Fuka	12-129-3
12-15	Tellurium Total cross section barns vs neutrons energy ev Fig 9	Foote	R. Fuka	12-130-3
12-14	Pm of chromosomes A 5212-H mag 1153X	Sparrow	R. Smith	12-131-3
12-14	PM of chromosomes A 5183-E mag 800X	Sparrow	R. Smith	12-132-3
12-15	Average arginase activity in ul etc.	Wilson Biol	R. Fuka	12-133-3
12-15	Average ul O2 consumed per animal	Wilson	R. Fuka	12-134-3
12-15	Net counts/min in channel vs. KEV	Muskel Chem.	R. Fuka	12-135-3 thru

Date	Caption	Dept.	Photographer	Number
12-15	Arbitrary units vs. Total energy KEV	Miskel Chem	R. Fuka	12-138-3
12-15	The influence of atmosphere on the sensitivity of dormant seeds of barley to thermal neutrons	Caldicott Biol	R. Fuka	12-139-3
12-15	The Influence of atmosphere on the sensitivity of dormant seeds of barley to x-ra ys	Caldicott	R. Fuka	12-140-3
12-15	The influence of atmosphere on the sens itivity of dormant seeds of barley to fa st neutrons ~~fax~~ from U235 fission	Caldicott	R. Fuka	12-141-3
12 -15	% eclosion vs. dos ein min, at 2650 etc.	Clark Biol	R. Fuka	12-142-3
12-15	Age at treatment 118-120 hr	Clark	R. Fuka	12-143-3
12-15	Eclosion ratios after exposure to O	Cla rk	R. Fuka	12-144-3
12-14	Method of securing data on lethals induced in 1st meiotic metaphase eggs	~~Wilson~~ Heidenthal B iol	R. Fuka	12-145-3
12-14	Method of securing data on recessive lethals induced in sperm	Heidenthal ~~Wilson~~	R. Fuka	12-146-3
12-14	Method of securing data on dominant lethals induced in the sperm	~~Wilson~~ Heidenthal	R. Fuka	12-147-3
12-17	Summary of data on hatcha bility of x-rayed 1st meiotic metophase eggs	Clark B iol	R. Fuka	12-148-3
12-17	Eclosion ratios f or haplaid males & diploid females x-rayed in air, nitrogen, and oxygen	Clark	R. Fuka	12-149-3
12-15	Picture through a borescope	Rand Reactor	R. Walton	12 -150-3
12-17	Camera Bezel	Sc ha rdt	R. Fuka	12-151-3
12-18	Plant copies from color trans	Konzak	H. Maile	12-152-3 & 12-153-3
12 -15	Collision	Fireman	R. Fuka	12-154-3
12-14	Sun flower stem showing tumors	Stonier Biol	R. Smith	12-155-3

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12-21	PM of chromosomes	Steffenson Biol	R. Smith	12-156-3 thru 12-159-3
12-21	Oxygen uptake of pupae following exposure to oxygen or nitrogen	Clark Biol	P. Simack	12-160-3
12-21	Eclosion ratios for haploid males and diploid females etc.	Clark	P. Simack	12-161-3
12-21	Graph Incidence of recessive lethal heterozygotes	Heidenthal VBiol	P. S imack	12-162-3 thru 12-164-3
12-21	Data on dominant lethals in sperm	Heidenthal	P. Simack	12-165-3
12-21	Graph- controls etc.	Heidenthal	P. S imack	12-166-3
12-2 1	Neutron counts per arbitrary monitor count	Cohen Phys	P. Simack	12-167-3
12-21	Plan of arrangement not to scale	Cohen	P. Simack	12-168-3
12-21	RF s ystem	Cohen	P. S imack	12-169-3
12-21	Magnetic field along neutron trajectory	Cohen	P. S imack	12-170-3
12 -21	PM of pathology tissue	Godwin	R. Smith	12-171-3
12-21	PM of pathology tissue	Godwin	R. S mith	12-172-2
12-21	PM of path tissue	Godwin	R. Smith	12-173-3 & C12-173-3
12-21	PM of path tissue	Godwin	R. S mith	12-174-3 & C12-174-3
12-21	PM of path tissue	Godwin	R. S mith	12-175-3 & C12-175-3
12-21	PM of path tissue	Godwin	R. Smith	12-176-3 & C12-176-3
12-21	PM ofpath tissue	Godqin	R. Smith	12-177-3 & C12-177-3
12-21	PM of path tissue	Godwin	R. Smith	12-178 -3 & C12-178-3
12-21	PM of pa th tissue	Godwin	R. Smith	12-179-3 & C12-179-3
12-21	PM of path tissue	Godwin	R. S mith	12-180-3 & C12-180-3
12-21	Gross photo of heart	Godwin	R. Smith	12-181-3 & C12-181-3

Date	Caption	Dept.	Photographer	Number
12-21	Schematic graph	Alburger Phys	r. Fuka	12-183-3
12-216	COLOR Barley plants mutations	Konzak	R. Walton	C12-184-3 & C12-185-3
12-22	Cytophotometric determination of DNA contents of nuclei during etc.	Moses Biol	R. Fuka	12-186-3
12-22	Nuclear DNA content incorporated during microsporogenesis in tradescantia	Moses	R. Fuka	12-187-3
12-18	Natural water flow for coating the injector	R. Kassner Cosmo	R. Walton	12-188-3 & 12-189-3
12-10	Metal cask for carrying active liquids	Isler Nuc. Eng. ½	R. Walton	12-190-3
12-15	Pump section	Korn Hot Lab.	R. Walton	12-191-3 thru 12-201-3
12-21	Power spectra etc.	Mac Cormick ~~AP&PM~~ Meteor	P. Simack	12-202-3 thru 12-209-3
12-21	General location of BNL	MacCormick	P. Simack	12-210-3
12-22	Comparative frequencies of pragments & reunions indused by etc.	Deschner Biol	R. Fuka	12-211-3
12-22	Chromosomes aberrations produced by 50 r x-rays in various stages etc.	Deschner	R. Fuka	12-212-3
12-22	Kurie plots of I 129 spectrum observed with a scintillation spectrometer	derMateosian Phys	R. Fuka	12-213-3
12-22	Table 6-1	Hughes Physics	A. Lasky	12-214-3
12-22	Endosperm mutations in maize	Singleton Biol	A. Lasky	12-215-3
12-22	Comparison of relative DNA (feulgen) content of nuclei obtained by two etc.	Moses Biol	A. Lasky	12-216-3

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Date	Caption	Dept.	Photographer	Number
12-17	Plastic bag sealer	Dvorak lec	R. Walton	12-218-3 thru 12-220-3
12-21	Deer	B urt	R. Walton	12-221-3
12-16	close-up top view of seed wrapper	Foster Elec.	R. Walton	12-222-3 & 12-223-3
12-16	Over-all view of seed wrapper	Foster	R. Walton	12-224-3 & 12-225-3
12-16	Over-all top view of seed wrapper	Foster	R. Walton	12-226-3
12-23	Medical dept organizational chart	Finn	M. Bull	12-227-3
12-14	COLOR corn mutations	Singleton	R. Walton	C12-228-3 thru C12-231-3
12-28	Copy negs of pictures for Berkner	Burt	R. Fuka	12-2 32 -3 thru 12-238-3
12 -18	Remote control operations in the hot lab.	Stang Hot Lab.	J.F. Garfield	12-239-3
12-14	barley plants	Konzak Biol	R. Walton	12-240-3 & 12-241-3
12-29	graphs (2)	Miskel Chem	H. Maile	12-242-3 & 12-243-3
12-29	Magnetic susceptibility	Elliott Chem	H. Maile	12-244-3 thru 12-246-3
12-30	Line graphs	Wolfgang Chem	H. Maile	12-247-3 thru 12-251-3
12-30	Spectra	Freed Chem	R. Fuka	12-252 -3 thru 12-254-3
12/14/53	Vertical calciner in fume hood	Nuclear Eng Hittman	Walton	12-255-3

12-255-5

Date	Caption	Dept.	Photographer	Number
12-29	Fig. 8 graph	Goldhaber	H. Maile	12-256-3
12-29	Fig. 14 graph	Goldhaber	H. Maile	12-257-3
12-14	Burned out fan motor	Brunini Utilities	R. Walton	12-258-3 thru 12-262-3
12-31	PM of poplar	Shapiro Biol	R. Smith	12-263-3 thru 12-275-3 also C 12-264-3 C 12-275-3