

January-December 1947

January

February

March

April

May

June

July

August

September

October

November

December

January

Date	Caption	Dept.	Photographer	Number
1-47	View of site from tower.		J. F. Garfield	1-1 1-1
1-47	Building at Camp Upton.	Buildings	J. F. Garfield	1-2
1-47	WPA map of Long Island originally located in Police Headquarters.		J. F. Garfield	1-3
1-47	Map of Long Island.		J. F. Garfield	1-4

February

Date	Caption	Dept.	Photographer	Number
2-47	E. Matteson at map of Long Island.		J. F. Garfield	2-1
2-47	E. Matteson pointing to site of the laboratory.		J. F. Garfield	2-2
2-47	Officers Club.	Buildings	J. F. Garfield	2-3
2-47	Officers Club.	Buildings	J. F. Garfield	2-4
2-47	E. L. Shoup on speaker's platform with L. R. Thiesmeyer and P. M. Morse in first row. This is the occasion of BNL taking over the site from AEC.		J. F. Garfield	2-5

March

Date	Caption	Dept.	Photographer	Number
3-47	Research staff building.	Buildings	J. F. Garfield	3-1
3-47	Swimming pool.	Buildings	J. F. Garfield	3-2
3-47	Darkroom in T-134.	Buildings	J. F. Garfield	3-3
3-47	Officers Club.	Buildings	J. F. Garfield	3-4
3-47	First Brookhaven Colloquia.		J. F. Garfield	3-5
3-47	First Brookhaven Colloquia.		J. F. Garfield	3-6
3-47	Exterior of research staff building.	Buildings	J. F. Garfield	3-7
3-47	Conference room in the research staff building.	Buildings	J. F. Garfield	3-8
3-47	Trustees conference in research staff.		J. F. Garfield	3-9
3-47	N. Ramsay speaking at luncheon in cafeteria.		J. F. Garfield	3-10
3-47	I. I. Rabi in conversation.		J. F. Garfield	3-11
3-47	Speaker at trustees luncheon.		J. F. Garfield	3-12
3-47	Discussion after luncheon.		J. F. Garfield	3-13
3-47	F. X. Jones and T. F. Sheridan discussing 60 inch 30 Mev cyclotron.	Cyclotron	J. F. Garfield	3-14
3-47	P. M. Morse and listeners.		J. F. Garfield	3-15
3-47	Speaker		J. F. Garfield	3-16
3-47	Listeners at a lecture.		J. F. Garfield	3-17
3-47	Taking notes at a lecture.		J. F. Garfield	3-18
3-47	Norman Ramsay in conversation.		J. F. Garfield	3-19
3-47	A. Kelleher in conversation.		J. F. Garfield	3-20
3-47	Climbing up tower.		J. F. Garfield	3-21
3-47	Climbing down tower.		J. F. Garfield	3-22
3-47	Photographers preparing to take pics. (L-R) E. Reynolds G. A. Brakeley P. M. Morse Pressman		J. F. Garfield	3-24
3-47	Left to Right: E. Reynolds I. I. Rabi J. R. Zacharias P. S. McCauley G. A. Brakeley P. M. Morse		J. F. Garfield	3-25
3-47	Same as 3-25 with J. R. Zacharias looking down.		J. F. Garfield	3-26
3-47	Left to right: P. M. Morse E. Reynolds		J. F. Garfield	3-27
3-47	Left to right: P. M. Morse E. Reynolds I. I. Rabi (front)		J. F. Garfield	3-28
3-47	Same as 3-28, side.		J. F. Garfield	3-29
3-47	Same as 3-28, rear.		J. F. Garfield	3-30
3-47	End of tour, leaving building.		J. F. Garfield	3-31

April

Date	Caption	Dept.	Photographer	Number
4-47	Speaker going to platform with L. R. Thiesmeyer and P. M. Morse on platform.		J. F. Garfield	4-1
4-47	Listeners standing at one of the first lectures.		J. F. Garfield	4-2
4-47	Informal discussion.		J. F. Garfield	4-3
4-47	Men removing sinks in T-134.	Construct	J. F. Garfield	4-4
4-47	First restricted area in T-459.	Security	J. F. Garfield	4-5
4-47	First library in T-459.	Library	J. F. Garfield	4-6
4-47	Staff research building.	Buildings	J. F. Garfield	4-7
4-47	Moving army kitchen equipment out of T-134.	Construct	J. F. Garfield	4-8
4-47	Repairing tools in machine shop.	Shops	J. F. Garfield	4-9
4-47	Interior of laboratory guest house.	Housing	J. F. Garfield	4-10
4-16-47	Housing: C. J. Briody	Housing	J. F. Garfield	4-11
	L. B. Borst	Housing	R. J. Walton	4-12
	L. B. Borst	Housing	R. J. Walton	4-13
	G. B. DeForest	Housing	R. J. Walton	4-14
	C. Dominey	Housing	R. J. Walton	4-15
	J. M. Floyd	Housing	R. J. Walton	4-16
	J. Hornbostel	Housing	R. J. Walton	4-17
	R. H. Jones	Housing	R. J. Walton	4-18
	Mockbridge's	Housing	R. J. Walton	4-19
	Mockbridge's Rear	Housing	R. J. Walton	4-20
	Mockbridge's Rear	Housing	R. J. Walton	4-21
4-18-47	Housing: J. B. H. Kuper	Housing	R. J. Walton	4-22
	P. Paige	Housing	R. J. Walton	4-23
	R. A. Patterson	Housing	R. J. Walton	4-24
	R. A. Patterson	Housing	R. J. Walton	4-25
	A. W. Thorndyke	Housing	R. J. Walton	4-26
	E. L. VanHorne	Housing	R. J. Walton	4-27
	R. Wanta	Housing	R. J. Walton	4-28
4-20-47	Housing: A. J. Brunini	Housing	R. J. Walton	4-29
	F. L. Crozier	Housing	R. J. Walton	4-30
	G. B. DeForest	Housing	R. J. Walton	4-31
	J. F. Garfield	Housing	R. J. Walton	4-32
	R. H. Jones, Side	Housing	R. J. Walton	4-33
	R. H. Jones, Front	Housing	R. J. Walton	4-34
	J. B. H. Kuper, Rear	Housing	R. J. Walton	4-35
	M. S. Livingston	Housing	R. J. Walton	4-36
	M. S. Livingston	Housing	R. J. Walton	4-37
	E. B. Meader, Front	Housing	R. J. Walton	4-38
	E. B. Meader, Rear	Housing	R. J. Walton	4-39
	E. B. Meader, Rear	Housing	R. J. Walton	4-40

Date	Caption	Dept.	Photographer	Number
4-20-47	Housing: R. B. Morgan	Housing	R. J. Walton	4-41
	J. G. Peter	Housing	R. J. Walton	4-42
	E. C. Shoup	Housing	R. J. Walton	4-43
	L. R. Swart	Housing	R. J. Walton	4-44
	L. R. Thiesmeyer	Housing	R. J. Walton	4-45
	J. Washburne	Housing	R. J. Walton	4-46
	R. L. Young	Housing	R. J. Walton	4-47
4-25-47	Housing: R. Dodson	Housing	R. J. Walton	4-48
	R. Dodson	Housing	R. J. Walton	4-49
	J. Knox	Housing	R. J. Walton	4-50
	T. Lanahan	Housing	R. J. Walton	4-51
	T. Lanahan	Housing	R. J. Walton	4-52
	T. Lanahan	Housing	R. J. Walton	4-53
	R. Maust	Housing	R. J. Walton	4-54
	R. Maust	Housing	R. J. Walton	4-55
	D. MacCornack	Housing	R. J. Walton	4-56
	D. MacCornack	Housing	R. J. Walton	4-57

May

Date	Caption	Dept.	Photographer	Number
5-47	Rented by J. G. Bailey	Housing	R. J. Walton	5-1
5-47	Mildred Mooney	Housing	R. J. Walton	5-2
5-47	R. W. Powell	Housing	R. J. Walton	5-3
5-47	N. P. Ramsay	Housing	R. J. Walton	5-4
5-47	N. P. Ramsay	Housing	R. J. Walton	5-5
5-47	N. P. Ramsay	Housing	R. J. Walton	5-6
5-47	N. P. Ramsay	Housing	R. J. Walton	5-7
5-47	Rooming house in Patchogue	Housing	R. J. Walton	5-8
5-47	E. C. Shoup	Housing	R. J. Walton	5-9
5-47	R. Wanta	Housing	R. J. Walton	5-10
5-47	J. Washburne	Housing	R. J. Walton	5-11
5-47	Interior of Men's Dormitory	Housing	R. J. Walton	5-12
5-47	Sunwood Apartments	Housing	R. J. Walton	5-13
5-47	New apartment gardens.	Grnds	Walton & Kivi	5-14
5-47	Physics Building.	Bldgs.	Garfield, J. F.	5-15
5-47	Original condition of T-426.	Bldgs.	J. F. Garfield	5-16
5-47	Physics laboratory at the start of construction.	Bldgs.	J. F. Garfield	5-17
5-47	Early construction in the Physics laboratory.	Bldgs.	J. F. Garfield	5-18
5-47	Construction in the physics lab.	Bldgs.	J. F. Garfield	5-19
5-47	Condition of the physics laboratory at the start of construction.	Bldgs.	J. F. Garfield	5-20
5-47	Condition of the physics laboratory at the start of construction.	Bldgs.	J. F. Garfield	5-21
5-47	T-197 Weather building anemometer.	Met	A. F. Kivi	5-22
5-47	T-197 Weather building anemometer.	Met	A. F. Kivi	5-23
5-47	T-197 weather building.	Met	A. F. Kivi	5-24
5-47	T-197 weather building.	Met	A. F. Kivi	5-25
5-47	Weeds by personnel office.	Grnds	R. J. Walton	5-26
5-47	Weeds growing along side of the personnel office.	Grnds	R. J. Walton	5-27
5-47	Weeds growing along side of the personnel office.	Grnds	R. J. Walton	5-28
5-47	Documentary - Machine shop.	Shops	R. J. Walton	5-29
5-47	Documentary - Machine shop.	Shops	R. J. Walton	5-30
5-47	Railway express receipt.		R. J. Walton	5-31
5-27	Figure 2 - Scattering cross section of BeO.		R. J. Walton	5-32
5-27	Figure 2 - Apparatus for measuring intensity of Bragg orders.		R. J. Walton	5-33
5-27	Figure 2 - Apparatus for measuring intensity of Bragg orders.		R. J. Walton	5-34

Date	Caption	Dept.	Photographer	Number
5-26	Theoretical packing fraction curves.		J. F. Garfield	5-35
5-26	Location of the stability limit for even-even nuclei.		J. F. Garfield	5-36
5-26	Theoretical packing fraction curves.		J. F. Garfield	5-37
5-26	Wigner type energy diagrams.		J. F. Garfield	5-38
5-26	Formula.		J. F. Garfield	5-39
5-26	Formula.		J. F. Garfield	5-40
5-26	Location of the stability for even-even nuclei.		J. F. Garfield	5-41
5-26	Theoretical packing fraction curve corrected.		J. F. Garfield	5-42
5-26	The mass valley in the N-Z A plane.		J. F. Garfield	5-43
5-26	Experimental packing fraction curves.		J. F. Garfield	5-44
	CONSTRUCTION CHART COPIES		Kivi & Walton	
5-26	Metallurgic laboratory in T-197.			5-45
5-26	Graphite shop, T-480, Top.			5-46
5-26	Graphite shop, T-480, Bottom.			5-47
5-26	General machine shop, T-462, Left top.			5-48
5-26	General machine shop, T-462, Right top.			5-49
5-25	General machine shop, T-462, Bottom.			5-50
5-26	Electronics, T-194, Top.			5-51
5-26	Electronics, T-194, Bottom.			5-52
5-26	Particle physics laboratory, T-117 Top.			5-53
5-26	Particle physics laboratory, T-117 Bottom.			5-54
5-26	Woodworking and pattern shop, T-422 Left top.			5-55
5-47	Woodworking and pattern shop, T-422 Middle top.			5-56
5-26	Woodworking and pattern shop, T-422 Right top.			5-57
5-26	Woodworking and pattern shop, T-422 Bottom.			5-58

June

Date	Caption	Dept.	Photographer	Number
6-3	P. M. Morse, Director.	Portrait	J. F. Garfield	6-1
6-3	Cartoon copy.	Housing	Walton & Kivi	6-2
6-3	Cartoon copy.	Housing	Walton & Kivi	6-3
6-3	L. Gemmel	Housing	Walton & Kivi	6-4
6-3	L. Gemmel	Housing	Walton & Kivi	6-5
6-3	L. Gemmel	Housing	Walton & Kivi	6-6
6-3	L. Gemmel	Housing	Walton & Kivi	6-7
6-3	L. Gemmel - Interior	Housing	Walton & Kivi	6-8
6-3	L. Gemmel - Interior	Housing	Walton & Kivi	6-9
6-3	J. M. Knox	Housing	Walton & Kivi	6-10
6-3	E. B. Meader	Housing	Walton & Kivi	6-11
6-5	Mr. and Mrs. Bob Meyer examining the construction of laboratory apartments.	Housing	R. J. Walton	
x	Mr. and Mrs. Myer standing on steps.			6-12
x	Mr. and Mrs. Myer standing on steps.			6-13
x	Mr. and Mrs. Myer outside.			6-14
x	Mr. and Mrs. Myer outside.			6-15
x	Mr. and Mrs. Myer inside.			6-16
x	Mr. and Mrs. Myer inside.			6-17
x	Mr. and Mrs. Myer inside.			6-18
x	Mr. and Mrs. Myer inside.			6-19
x	Mr. and Mrs. Myer with carpenter at window.			6-20
x	Mr. and Mrs. Myer with carpenter on ladder.			6-21
6-5	New apartment gardens.	Grnds.	Kivi & Walton	6-22
6-6	Construction on machine shop T-462.	Bldgs.	R. J. Walton	6-23
6-6	Construction on machine shop T-462.	Bldgs.	R. J. Walton	6-24
6-6	Construction on machine shop T-462.	Bldgs.	R. J. Walton	6-25
6-3	Left to right: P. M. Morse R. A. Patterson E. C. Shoup with 60 inch 30 Mev. cyclotron.	Cyclotron	J. F. Garfield	6-26 thru 6-29
6-4	LINDENMERE	Housing	J. F. Garfield	
x	Driveway to Lindenmere.			6-30
x	Writing table overlooking water.			6-31
x	Writing table overlooking water.			6-32
x	Doorway overalooking water.			6-33
x	Porch overlooking water.			6-34
x	Man and woman on porch overlooking water.			6-35
x	Beach scene.			6-36
x	Beach front.			6-37

Date	Caption	Dept.	Photographer	Number
x	Beach front.			6-38
x	Beach front.			6-39
x	Beach front.			6-40
x	Woman in the boat.			6-41
x	Lindenmere apartments.		R. J. Walton	6-42
x	Exterior of main house.			6-43
x	Exterior of main house.			6-44
x	Exterior of main house.			6-45
x	Exterior of main house.			6-46
x	Reception room of main house.			6-47
x	Reception room of main house.			6-48
x	Reception room of main house.			6-49
x	Reception room of main house.			6-50
x	Interior - one bed, two windows.			6-51
x	Interior - double beds, two windows.			6-52
x	Interior - one bed, one window.			6-53
x	Interior - double bed, double window.			6-54
x	Interior - one bed, one double window and doorway to bath.			6-55
x	Interior - double beds, door to bath.			6-56
x	Interior - single bed, three windows.			6-57
x	Exterior of Lindenmere.			6-58
x	Exterior of Lindenmere.			6-59
x	Guest house exterior.			6-60
6-4	Guest house exterior.	Housing	R. J. Walton	6-61
6-10	A. Gledhill and J. Constat	Electron	Garfield & Walton	6-62
6-10	C. Porter	Electron	"	6-63
6-16	Grass next to personnel.	Grnds	R. J. Walton	6-64
6-16	Grass by employment office.	Grnds.	R. J. Walton	6-65
6-16	Grass by employment office.	Grnds.	R. J. Walton	6-66
6-16	Grass by employment office.	Grnds.	R. J. Walton	6-67
6-16	Grass by employment office.	Grnds.	R. J. Walton	6-68
6-20	Electronics housewarming party.			6-69 thru
6-20.	Electronics baby - Richard Boulin.	Electron	J. F. Garfield	6-72 ✓
6-20	Electronics housewarming party.	Electron	J. F. Garfield	6-73
		Electron	J. F. Garfield	6-74
6-25	Mobile insecticide dispenser.	Grnds.	A. F. Kivi	6-75
6-25	Mobile insecticide dispenser.	Grnds.	A. F. Kivi	6-76
6-25	Mobile insecticide dispenser.	Grnds.	A. F. Kivi	6-77
6-25	Mobile insecticide dispenser.	Grnds.	A. F. Kivi	6-78
6-25	Frequency and tuning capacity scale.		R. J. Walton	6-79
6-25	Proton synchrotron.		R. J. Walton	6-80
6-25	Air cored magnet for proton synchrotron.		R. J. Walton	6-81
6-25	Electron model of proton synchrotron.		R. J. Walton	6-82

Date	Caption	Dept.	Photographer	Number
6-25	Variable air condensor.		A. F. Kivi	6-83
6-25	Variable air condensor.		A. F. Kivi	6-84
6-26	Cyclotron Van de Graaff Building.	Cyclo	R. J. Walton	6-85
6-26	Cyclotron Van de Graaff Building.	Cyclo	R. J. Walton	6-86
6-26	Cyclotron model.	Cyclo	RJW and JFG	6-87
6-26	Cyclotron model.	Cyclo	RJW and JFG	6-88
6-26	R. F. cavity for synchro-cyclotron	Cyclo	A. F. Kivi	6-89
6-26	Electrostatic generator.		R. J. Walton	6-90
6-26	Electrostatic generator.		R. J. Walton	6-91
6-26	Dr. Livingston passport negatives.	Portrait	J. F. Garfield	6-92 thru 6-95

July

Date	Caption	Dept.	Photographer	Number
7-1	Spreading 24 D.	Grnds	J. F. Garfield	7-1
7-1	Spreading 24 D.	Grnds	J. F. Garfield	7-2
7-1	Harrowing before planting.	Grnds	J. F. Garfield	7-3
7-1	Preparing ballfield.	Grnds	J. F. Garfield	7-4
7-1	R. D. Conrad	Portrait	J. F. Garfield	7-5
7-1	R. D. Conrad	Portrait	J. F. Garfield	7-6
7-1	R. D. Conrad	Portrait	J. F. Garfield	7-7
7-1	L. R. Thiesmeyer	Portrait	J. F. Garfield	7-8
7-1	L. R. Thiesmeyer	Portrait	J. F. Garfield	7-9
7-1	L. R. Thiesmeyer	Portrait	J. F. Garfield	7-10
7-1	L. R. Thiesmeyer	Portrait	J. F. Garfield	7-11
7-1	L. R. Thiesmeyer	Portrait	J. F. Garfield	7-12
7-1	Copy - R. F. Cavity.	MIT	A. F. Kivi	7-13
7-1	Lantern slides for Goldsmith colloquia.	Goldsmith	A. F. Kivi	7-14 thru 7-24
7-1	Crystal spectro drawing for slide.		A. F. Kivi	7-25
7-1	Cadium spectrogram for slide.		A. F. Kivi	7-26
7-1	Schematic drawing for slide.		A. F. Kivi	7-27
7-2	Model of Van de Graff Building-front	Cyclo	R. J. Walton	7-28
7-2	Model - side.	Cyclo	R. J. Walton	7-29
7-2	Model - side.	Cyclo	R. J. Walton	7-30
7-3	Copy cartoon "Atomic Mail"	Off Serv	A. F. Kivi	7-31
7-3	Copy cartoon "Automobile"	Trans	A. F. Kivi	7-32
7-3	Parking area behind shop.	Grnds	J. F. Garfield	7-33
7-3	Parking area behind shop.	Grnds	J. F. Garfield	7-34
7-7	Ink line chart.		A. F. Kivi	7-35
7-7	Wind velocity chart.	Met	R. J. Walton	7-36
7-7	Lock in 30 wave amplifier.	Met	R. J. Walton	7-37
7-7	Inspecting apartment accomodations John D. Binnington - Librarian Blanche C. Binnington - Wife Bree Binnington - Daughter age 3 Thomas Binnington - Son age $4\frac{1}{2}$.	Housing	JFG and RJW	7-38 thru 7-44
7-9	Vogt and Meyer pitching horseshoes.	Recrea	R. J. Walton	7-45 thru 7-50
7-9	Lawn mowers, etc.	Grnds	A. F. Kivi	7-51
7-9	Lawn mowers, etc.	Grnds	A. F. Kivi	7-52
7-9	Lawn mowers in bad condition.	Grnds	A. F. Kivi	7-53
7-9	Power lawn mowers.	Grnds	A. F. Kivi	7-54

Date	Caption	Dept.	Photographer	Number
7-9	Tractor and moser.	Grnds	A. F. Kivi	7-55
7-9	Negatives for lantern slides.	Dr. Roberts	A. F. Kivi	7-56 thru 7-59
7-9	Model of cyclotron.	Cyclo	R. J. Walton	7-60
7-10	Accident damage showing side of car, back of car, road and skid marks.	Trans	J. F. Garfield	7-61 thru 7-66
7-10	Smoke run at Brookhaven.	Met	R. J. Walton	7-67 thru 7-77
7-10	P. M. Morse Director Brookhaven.	Portrait	J. F. Garfield	7-78 thru 7-81
7-10	Speech of Dr. Oesborne.		J. F. Garfield	7-82 thru 7-85
7-10	W. Scroggins	Portrait		7-86 thru
7-10	W. Scroggins	Portrait	J. F. Garfield	7-89
7-14	Copy of road map.	Mines	R. J. Walton	7-90
7-14	Portrait of E. C. Shoup.	Portrait	J. F. Garfield	7-91 thru 7-94
7-15	Title of newspaper - Isotopics.	Mines	R. J. Walton	7-95
7-15	Title of newspaper - Isotopics.	Mines	R. J. Walton	7-96
7-15	Pics of baseball game.	Recrea	R. J. Walton	7-97 thru 7-100
7-16	Rough copy for quarterly report dummy.	Cyclo	A. F. Kivi	
xxx	Line drawing of synchro-cyclotron magnet.			7-101
7-16	600 Mev model magnet, Figure 5.			7-102
7-16	600 Mev model magent, Figure 6.			7-103
7-16	Variation of Q with frequency, Fig. 9A and 9B.			7-104
7-16	Proton synchrotron, iron cored magnet, Figure 11.			7-105

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7-16	Proton synchrotron, air cored magnet, Figure 12.	Cyclo	A. F. Kivi	7-106
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7-16	Cyclotron Van de Graaff building.			7-108
7-16	Copy of caption for report.			7-109
7-16	Line drawing of proposed electrostatic generator.	Cyclo	A. F. Kivi	7-110
7-21	Slide - Ergs per MM 2.		R. J. Walton	7-111
7-21	Concentration of penicillin.		R. J. Walton	7-112
7-21	Age of culture in days. % of resistant bacteria.		R. J. Walton	7-113
7-21	Age of culture in days.		R. J. Walton	7-114
7-21	Figure 2.		R. J. Walton	7-115
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7-23	Model Van de Graaff Building.	Cyclo	R. J. Walton	7-124
7-23	George Williams	Portrait	J. F. Garfield	7-125
7-22	Pitching horseshoes			7-126 thru
	Eddy Downs and Barry Mines.	Recrea	J. F. Garfield	7-129
7-22	Copy of Greek letters.	Info & Pub	R. J. Walton	7-130
7-28	Chart.	Kelleher	R. J. Walton	7-131
7-28	Weeds at parade grounds.	Grnds	A. F. Kivi	7-132
7-28	Surveying.	Grnds	A. F. Kivi	7-133
7-28	Plowing.	Grnds	A. F. Kivi	7-134

August

Date	Caption	Dept.	Photographer	Number
8-11	Livingston with Morse & commissioners examining cyclotron model.	Cyclo	R. J. Walton	8-1
8-22	Moving building - closeup.	Bldgs.	R. J. Walton	8-2
8-22	Mobile Unit 1 moving building showing front of building.	Bldgs.	R. J. Walton	8-3
8-22	Moving building, side view.	Bldgs.	R. J. Walton	8-4
8-18	Progress on pile construction showing dirt being dumped into truck.	Pile	R. J. Walton	8-5
8-22	Moving building - adjusting cable.	Bldgs.	R. J. Walton	8-6
8-22	Progress on pile construction showing dirt being dumped into truck.	Pile	R. J. Walton	8-7
8-18	Progress on pile construction showing shovel in action.	Pile	R. J. Walton	8-8
8-11	Borst with Morse & commissioners inspecting pile model.	Pile	R. J. Walton	8-9
8-11	Borst with Morse and Thomas of the Ferguson Company inspecting pile model.	Pile	R. J. Walton	8-10
8-11	Livingston with Morse & commissioners examining cyclotron model.	Cyclotron	R. J. Walton	8-11
8-11	Ground-breaking ceremony, guards checking in visitors at entrance to Brookhaven National Laboratory.	Grnd Brk	R. J. Walton	8-12
8-11	Photographers preparing to take pics of cyclotron model.	Cyclotron	R. J. Walton	8-13
8-11	Morse and Borst with commissioners inspecting pile model.	Pile	R. J. Walton	8-14
8-11	Morse and Livingston with commissioners examining cyclotron model.	Cyclotron	R. J. Walton	8-15
8-11	Scene at head table at luncheon.	Grnd Brk	R. J. Walton	8-16
8-11	Morse, Waymack, Renolds, Shoup and Pike at head of table.	Grnd Brk	R. J. Walton	8-17
8-11	Shoup, Pike, Borst and Urey at head of table.	Grnd Brk	R. J. Walton	8-18
8-11	Pike, Borst and Urey at table.	Grnd Brk	R. J. Walton	8-19
8-11	Cafeteria scene showing guests.	Grnd Brk	R. J. Walton	8-20
8-11	Cafeteria scene showing guests.	Grnd Brk	R. J. Walton	8-21
8-11	Cafeteria scene showing guests.	Grnd Brk	R. J. Walton	8-22
8-11	Cafeteria scene showing guests.	Grnd Brk	R. J. Walton	8-23
8-11	Scene showing personnel in line for lunch.	Grnd Brk	R. J. Walton	8-24
8-11	Scene showing personnel in line for lunch.	Grnd Brk	R. J. Walton	8-25

Date	Caption	Dept.	Photographer	Number
8-11	Dr. Urey and Dr. Rabbi sitting on fence.	Grnd Brk	R. J. Walton	8-26
8-11	Dr. Urey and Dr. Rabbi standing.	Grnd Brk	R. J. Walton	8-27
8-11	Band playing Star Spangled Banner with audience at attention.	Grnd Brk	R. J. Walton	8-28
8-11	Movie photographers preparing to shoot speakers on platform before the ceremony.	Grnd Brk	R. J. Walton	8-29
8-11	Photographers with audience background preparing to shoot crane at Ground Breaking ceremony.	Grnd Brk	R. J. Walton	8-30
8-11	Photographers preparing to take pics of crane.	Grnd Brk	R. J. Walton	8-31
8-11	Morse on speakers stand with photographer and audience.	Grnd Brk.	R. J. Walton	8-32
8-11	S. T. Pike, Atomic Energy Commissioner, at microphone.	Grnd Brk	R. J. Walton	8-33
8-11	Speaker on platform with audience and photographers.	Grnd Brk	R. J. Walton	8-34
8-11	Amateur photographers.	Grnd Brk	R. J. Walton	8-35
8-11	Showing Dr. Borst in crane breaking ground for Pile at Brookhaven National Laboratory.	Grnd Brk	R. J. Walton	8-36 thru 8-41
8-11	Crane open to scoop first dirt.	Grnd Brk	R. J. Walton	8-42
8-11	Scoop of crane just picking up dirt.	Grnd Brk	R. J. Walton	8-43
8-11	Scoop preparing to release dirt.	Grnd Brk	R. J. Walton	8-44
8-11	Crane and scoop releasing dirt.	Grnd Brk	R. J. Walton	8-45
8-11	Showing Dr. Borst in crane breaking ground for Pile at Brookhaven National Laboratory.	Grnd Brk	R. J. Walton	8-46 thru 8-51
8-18	Progress pile construction showing dirt scoop.	Pile	R. J. Walton	8-52
8-18	Progress on pile construction showing loaded truck.	Pile	R. J. Walton	8-53
8-11	Dr. Borst in crane just releasing dirt.	Pile-Grnd	R. J. Walton	8-54
8-18	Progress on pile construction showing shovel on way to truck.	Pile	R. J. Walton	8-55
8-18	Barry T. Mines	Portrait	J. F. Garfield	8-56
8-18	Tractor and plow.	Grnds	R. J. Walton	8-57
8-18	Closeup of tractor and plow.	Grnds	R. J. Walton	8-58
8-18	Surveyors.	Grnds	R. J. Walton	8-59
8-18	Field with tower in background.	Grnds	R. J. Walton	8-60

Date	Caption	Dept.	Photographer	Number
8-14	Synchro-cyclotron magnet, Figure 7.	Cyclotron	R. J. Walton	8-61
8-18	Pulse discrimination level on scaler			
	20 equals PH.	Electron	R. J. Walton	8-62
8-18	25 equals PH.	Electron	R. J. Walton	8-63
8-18	30 equals PH.	Electron	R. J. Walton	8-64
8-18	35 equals PH.	Electron	R. J. Walton	8-65
8-18	40 equals PH.	Electron	R. J. Walton	8-66
8-14	Charts for Organizational Manual			
xxx	Architectural Planning and Plant	Kellerher	R. J. Walton	
	Maintenance - AM			8-67
xxx	Buildings and Grounds, AM-1			8-68
8-14	Buildings and Grounds, AM-1			8-69
8-14	Public Safety and Transportation,			
	AM-2			8-70
8-14	Biology, B			8-71
8-14	Business, BM			8-72
8-14	Technical Services - BM-1			8-73
8-14	Information and Publications, L-1			8-74
8-14	Medical, M			8-75
8-14	Physics, P	Kellerher	R. J. Walton	8-76
8-21	Synchro-cyclotron magnet, Figure 7.	Electron	R. J. Walton	8-77
8-21	10 billion volt proton synchrotron			
	air cored magnet, Figure 12.	Electron	R. J. Walton	8-78
8-21	Electron model of proton synchrotron			
	Figure 13.	Electron	R. J. Walton	8-79
8-14	Formula lantern slide.	Dr. Urey	R. J. Walton	8-80
8-14	Formula lantern slide.	Dr. Urey	R. J. Walton	8-81
8-14	AEC bills from Socony Vacuum Oil Co.	Malone	R. J. Walton	8-82
8-14	Anomalous Zeeman effect, etc.	Ramsay	R. J. Walton	8-83
8-14	Schematic diagram of apparatus.	N. Ramsay	R. J. Walton	8-84
8-14	Resonance curve.	N. Ramsay	R. J. Walton	8-85
8-14	Magnetic splitting up of a lithium			
	beam.	N. Ramsay	R. J. Walton	8-86
8-28	Lifeguard Marjorie Jameson.	Recreation	R. J. Walton	8-87
8-28	Lifeguard Marjorie Jameson.	Recreation	R. J. Walton	8-88
8-28	Mrs. Primakoff with Nina and Paul.	Recreation	R. J. Walton	8-89
8-28	Nina and Paul Primakoff with lifeguard			
	Marjorie Jameson.	Recreation	R. J. Walton	8-90 & 8-91

Date	Caption	Dept.	Photographer	Number
8-28	Daniel Hammermesh, Deborah Hammermesh, Paul & Nina Primakoff, Edward Davidson E. Goldsmith, Leslie Nims, Arthur Snyder, Hortland Snyder and Jinny Scott.	Recreation	R. J. Walton	8-92 and 8-93
8-28	Charles J. Briody and son.	Recreation	R. J. Walton	8-94
8-28	Page 126	Salant	R. J. Walton	8-95
8-28	Page 127	Salant	R. J. Walton	8-96
8-28	Nuclear disintegration produced by slow charged particles of small mass.	Salant	R. J. Walton	8-97
8-28	Page 187.	Salant	R. J. Walton	8-98
8-28	Page 188.	Salant	R. J. Walton	8-99
8-28	Page 189.	Salant	R. J. Walton	8-100
8-28	Page 190.	Salant	R. J. Walton	8-101
8-28	Page 259.	Salant	R. J. Walton	8-102
8-28	Page 260.	Salant	R. J. Walton	8-103
8-28	Page 301.	Salant	R. J. Walton	8-104
8-28	3-14-42 Page 302.	Salant	R. J. Walton	8-105
8-28	3-1-47 Page 302.	Salant	R. J. Walton	8-106
8-28	Department AM	Kelleher	JFG and RJW	8-107
8-28	Department AM-1	Kelleher	JFG and RJW	8-108
8-28	Department AM-2	Kelleher	JFG and RJW	8-109
8-28	Department B	Kelleher	JFG and RJW	8-110
8-28	Department BM	Kelleher	JFG and RJW	8-111
8-28	Department BM-1	Kelleher	JFG and RJW	8-112
8-28	Department C	Kelleher	JFG and RJW	8-113
8-28	Department L-1	Kelleher	JFG and RJW	8-114
8-28	Department P	Kelleher	JFG and RJW	8-115
8-28	Department PD-1	Kelleher	JFG and RJW	8-116
8-28	Department RA	Kelleher	JFG and RJW	8-117
8-28	Department RB	Kelleher	JFG and RJW	8-118
8-28	P. M. Morse at blackboard writing formula.	Portrait	J. F. Garfield	8-119 thru 8-121

September

Date	Caption	Dept.	Photographer	Number
9-17	Showing progress of pile construction.	Pile	R. J. Walton	9-1 thru 9-7
9-17	Showing interior and exterior of construction progress for addition to T-197.	Bldgs	R. J. Walton	9-8 thru 9-14
9-17	Pile construction progress.	Pile	R. J. Walton	9-15
9-18	Showing interior and exterior of construction progress for addition to T-197.	Bldgs	R. J. Walton	9-16 thru 9-20
9-17	Showing construction on graphite building.	Nuc Bldgs	R. J. Walton	9-21 and 9-22
9-17	Motor pool gas station.	Trans	R. J. Walton	9-23
9-17	Motor pool gas station.	Trans	R. J. Walton	9-24
9-17	Fixing road behind warehouse area.	Grnds	R. J. Walton	9-25
9-17	Panorama of site from tower.		R. J. Walton	9-26 9-27 9-28
9-17	Cars waiting to clear South Gate at 1630.	Police	R. J. Walton	9-29 thru 9-32
9-18	Camera room in T-118.	P & GA	R. J. Walton	9-33
9-21	Dr. Thomas Johnson	Portrait	J. F. Garfield	9-34
9-21	Dr. Thomas Johnson	Portrait	J. F. Garfield	9-35
9-21	Planning conference in T-459.		R. J. Walton	9-36
9-21	Planning conference in T-459.		R. J. Walton	9-37
9-28	Arnold Gledhill at bat.	Recreation	R. J. Walton	9-38
9-21	Planning conference in T-459.		R. J. Walton	9-39
9-4	Director's Office, A	Kelleher	R. J. Walton	9-40
9-4	Board of Trustees	Kelleher	R. J. Walton	9-41
9-4	Board of Trustees	Kelleher	R. J. Walton	9-42
9-4	Architectural Planning and Plant Maintenance, AM	Kelleher	R. J. Walton	9-43

Date	Caption	Dept.	Photographer	Number
9-18	Construction on T-197.	Bldgs	R. J. Walton	9-44
9-18	Plumbers cutting pipe for T-197.	Bldgs	R. J. Walton	9-45
9-18	Interior construction on T-197.	Bldgs	R. J. Walton	9-46
9-26	Station wagon equipped with directional finder which is used to track balloons.	Cloud Chamber	R. J. Walton	9-47 9-48 9-49
9-26	T. F. Sheridan pitching first ball in game between Smithtown Lumber Corp. and Men's Dormitory.	Recrea	R. J. Walton	9-50 and 9-51
9-17	Progress on pile construction.	Pile	R. J. Walton	9-52
9-13	Showing Mr. and Mrs. Jack Binns on their boat (used for living quarters) in Roslyn Harbor.	Housing	R. J. Walton	9-53 thru 9-57
9-26	Instrument used in collecting samples for determining the salt content of the atmosphere.		J. F. Garfield	9-58 and 9-59
9-25	Level scheme of BR80 (Simplified).		R. J. Walton	9-60
9-25	Liquid cage.		R. J. Walton	9-61
9-25	Table I - Percentage of bromine.		R. J. Walton	9-62
9-25	Percentage of recoil atoms, etc.		R. J. Walton	9-63
9-25	Chemical forms assumed by C 14.		R. J. Walton	9-64
9-25	Table II - Nature of Products.		R. J. Walton	9-65
9-25	Percentage of nuclear processes.		R. J. Walton	9-66
9-25	First Szilard Chalmers Reaction.		R. J. Walton	9-67
9-25	Distribution of kinetic energy in recoil.		R. J. Walton	9-68
9-25	Scheme of nuclear transformations.		R. J. Walton	9-69
9-25	Board of Trustees.	Kelleher	R. J. Walton	9-70
9-25	Synchro-cyclotron magnet.	Cyclo	R. J. Walton	9-71
9-4	Director's Office	Kelleher	R. J. Walton	9-72
9-4	Director's Office	Kelleher	R. J. Walton	9-73
9-4	Department C - Chemistry	Kelleher	R. J. Walton	9-74
9-4	Department P - Physics	Kelleher	R. J. Walton	9-75
9-4	Thomas B. Lanahan			9-76 9-77 9-78
		Portrait	J. F. Garfield	
9-5	George B. Collins			9-79 thru 9-84
		Portrait	J. F. Garfield	
9-5	J. F. Zacharias	Portrait	J. F. Garfield	9-85

Date	Caption	Dept.	Photographer	Number
9-12	Copy of tracks. (This negative has been deleted, a new one made and is now 10-192).	Salant	M. H. Bull	9-86
9-15	Title of newspaper "Isotopics".	Mines	M. H. Bull	9-87
9-15	"Sports"	Mines	M. H. Bull	9-88
9-16	Figure 1 - Percentage of bridges and of bridges and rings.		R. J. Walton	9-89
9-16	Brookhaven seal #1	Seal	R. J. Walton	9-90
9-16	Brookhaven seal #2	Seal	R. J. Walton	9-91
9-16	Budget negatives copies.	Budget	R. J. Walton	9-92 thru 9-159
9-27	Balloon ascent at Leheigh University.	Cloud Chamber	J. F. Devlin	9-160 thru 9-169

October

Date	Caption	Dept.	Photographer	Number
10-18	Dr. J. B. H. Kuper of Brookhaven and Dr. J. E. Rose of Argonne examining radiation detection equipment.	Bio Conf	R. J. Walton	10-1
10-16	C. J. Briody and W. W. Merkle shown with cyclotron model.	Cyclo	JFG and RJW	10-2
10-17	Theatre scene during conference.	Bio Conf	R. J. Walton	10-3
10-18	Demonstration of equipment in T-459.	Bio Conf	R. J. Walton	10-4
10-18	View of Rochester exhibit at radiation detection instrument demonstration.	Bio Conf	R. J. Walton	10-5
10-20	Pile excavation showing concrete forms prior to putting in cement.	Pile	R. J. Walton	10-6
10-20	Pouring concrete into forms at pile foundation.	Pile	R. J. Walton	10-7
10-23	Firemen's champion softball team.	Recreation	R. J. Walton	10-8
10-21	Cloud chamber.	Cloud	J. F. Garfield	10-9
10-21	Cloud chamber model.	Chamber	J. F. Garfield	10-10
10-21	Inside view of gondola.	Cloud	J. F. Garfield	10-11
10-21	Digging inside of T-117.	Chamber	J. F. Garfield	10-12
10-21	Electronics laboratory where technicians and scientists design and build delicate electronic devices to meet the needs of individual experiments.	Electron	J. F. Garfield	10-13
10-21	Cloud chamber component.	Cloud	J. F. Garfield	10-14
10-21	Cloud chamber.		J. F. Garfield	10-15
10-21	Cloud chamber model open.	Chamber	J. F. Garfield	10-16
10-15	Salant's micro-projector.	Salant	J. F. Garfield	10-17
10-21	Cloud chamber.	Cloud	J. F. Garfield	10-18
10-21	Cloud chamber component.	Chamber	J. F. Garfield	10-19
10-15	Showing Salant's micro-projector.	Salant	J. F. Garfield	10-20 and 10-21
10-17	Biology conference registration.	Bio Conf	R. J. Walton	10-22 thru 10-24
10-17	Conference group in front of theatre.	Bio Conf	R. J. Walton	10-25
10-20	Demonstration of equipment in T-459.	Bio Conf	R. J. Walton	10-26
10-18	Demonstration in T-459.	Bio Conf	R. J. Walton	10-27
10-17	Conference group in front of theatre.	Bio Conf	R. J. Walton	10-28
10-17	Biology conference registration.	Bio Conf	R. J. Walton	10-29
10-17	Conference group in front of theatre.	Bio Conf	R. J. Walton	10-30
10-17	Biology conference registration.	Bio Conf	R. J. Walton	10-31 and 10-32

Date	Caption	Dept.	Photographer	Number
10-13	General machine shop.	Shops	R. J. Walton	10-33
10-13	General machine shop.	Shops	R. J. Walton	10-34
10-15	G. Bishop at work in laboratory.	Biology	R. J. Walton	10-35
10-15	G. Bishop at scope.	Biology	R. J. Walton	10-36
10-15	Dr. A. H. Sparrow checking data on rats to be used in radioactive tracer experiments.	Biology	R. J. Walton	10-37
10-15	G. Bishop at scope.	Biology	R. J. Walton	10-38
10-15	Dr. Sachs at work in laboratory.	Biology	R. J. Walton	10-39
10-4	Rigging truck.	Riggers	M. H. Bull	10-40
10-4	Rigging truck.	Riggers	M. H. Bull	10-41
10-4	Rigging truck.	Riggers	M. H. Bull	10-42
10-23	Interior of T-117 (Cloud chamber building) showing forms prior to pouring cement.	Cloud Chamber	R. J. Walton	10-43 thru 10-48
10-24	Pouring cement for the cloud chamber building foundation.	Cloud Chamber	R. J. Walton	10-49 thru 10-52
10-24	Model of cloud chamber.	Cld Chm	R. J. Walton	10-53
10-15	Model of pile and cyclotron building.	Pile	R. J. Walton	10-54
10-15	Electronic computer with J. B. Rosen.	Rosen	R. J. Walton	10-55
10-15	Electronic computer. (Refer to 10-148).	Rosen		and 10-56
10-20	Copy of insert taken from the chart "Visualization of Atomic Pile".	AEE	R. J. Walton	10-57
10-8	Line ink drawing of Pile building and laboratories.	Pile	J. F. Garfield	10-58
10-15	Showing pile building construction progress.	Pile	R. J. Walton	10-59 thru 10-68
10-20	Pouring first cement at pile site at 0845.	Pile	R. J. Walton	10-69 thru 10-73
10-15	On site apartment of Henry Wright.	Housing	R. J. Walton	10-74
10-15	Harriet (age 11) and Carol (age 8).	Housing	R. J. Walton	10-75
10-15	Carol, Henry and Pauline Wright.	Housing	R. J. Walton	10-76
10-15	Henry, Carol and Pauline Wright.	Housing	R. J. Walton	10-77
10-15	Pauline, Harriet, Henry & Carol Wright.	Housing	R. J. Walton	10-78
10-15	Pauline, Harriet, Henry & Carol Wright.	Housing	R. J. Walton	10-79
10-15	Henry, Harriet, Carol & Pauline	Housing	R. J. Walton	10-80

Date	Caption	Dept.	Photographer	Number
10-15	Henry, Pauline, Harriet and Carol.	Housing	R. J. Walton	10-81
10-15	Henry and Carol.	Housing	R. J. Walton	10-82
10-15	Henry and Carol.	Housing	R. J. Walton	10-83
10-11	Slide negatives for biology conference.	W. Cohn	M. H. Bull	10-84 thru 10-109
10-2	Copy negative.		M. H. Bull	10-110
10-2	Characteristics of molecules, atoms, and nuclei.		M. H. Bull	10-111
10-2	Formula		M. H. Bull	10-112
10-2	Nuclear Reactions.		M. H. Bull	10-113
10-2	Formula.		M. H. Bull	10-114
10-15	Organization chart.	Hartzell	J. F. Garfield	10-115
10-15	Organization chart.	Hartzell	J. F. Garfield	10-116
10-3	Figure 3 - Qualitative shape of trajectories.		M. H. Bull	10-117
10-3	Magnetized iron plates.		M. H. Bull	10-118
10-3	Figure 20 - Curve di decadimento.		M. H. Bull	10-119
10-3	Graph		M. H. Bull	10-120
10-3	Figure 2 - Coils of pair of cores.		M. H. Bull	10-121
10-3	Series of 00000.		M. H. Bull	10-122
10-3	Figure 21		M. H. Bull	10-123
10-16	Aerial view of Brookkhaven National Laboratory for peacetime atomic research.	Aerials	R. J. Walton	10-124 thru 10-138
10-17	Conference group in front of theatre.	Bio Conf	R. J. Walton	10-139
10-18	Demonstration of equipment in T-459.	Bio Conf	R. J. Walton	10-140
10-18	Demonstration of equipment in T-459.	Bio Conf	R. J. Walton	10-141 10-142 10-143
10-24	Pics of pile foundation showing the enforcing bars in place.	Pile	R. J. Walton	10-144 thru 10-147
10-24	Electronics computer (refer 10-55 and 10-56)	Rosen	R. J. Walton	10-148
10-28	Fe 59 (Half-life 47 days).	Biology	M. H. Bull	10-149
10-28	Table 5 - Chronological summary of test meals and blood specimens.	Biology	M. H. Bull	10-150
10-28	Table 6 - Quantity of foods fed each subject in meals.	Biology	M. H. Bull	10-151
10-28	Table 7 - Iron and phytic acid content of test meals.	Biology	M. H. Bull	10-152

Date	Caption	Dept.	Photographer	Number
10-28	Figure 9 - mean unit activity as a function of time.	Biology	M. H. Bull	10-153
10-28	Figure 10 - Mean fractional activity as a function of time.	Biology	M. H. Bull	10-154
10-28	Table 70 - Summary of the "Physiological Spreads".	Biology	M. H. Bull	10-155
10-28	Table 73 - Percent of ingested iron absorbed from Test Meals I to VII.	Biology	M. H. Bull	10-156
10-28	Table 74 - Unit activity of 5 years old as a function of time.	Biology	M. H. Bull	10-157
10-15	Electronics			10-158
	Laboratory.	Electron	J. F. Garfield	thru 10-161
10-15	Chemistry			10-162
	Laboratory.	Chem	J. F. Garfield	thru 10-167
10-15	Copy of Long Island Map.		J. F. Garfield	10-168
10-15	Copy of Long Island Map.		J. F. Garfield	10-169
10-23	Copy negative of the "Pick-aback-etc"	Conrad	M. Herbert	10-170
10-15	P. M. Morse	Portrait	J. F. Garfield	10-171
	C. Williams	Portrait	J. F. Garfield	10-172
	L. B. Borst	Portrait	J. F. Garfield	10-173
	E. C. Shoup	Portrait	J. F. Garfield	10-174
	T. F. Johnson	Portrait	J. F. Garfield	10-175
	L. J. Haworth	Portrait	J. F. Garfield	10-176
	M. S. Livingston	Portrait	J. F. Garfield	10-177
	J. B. H. Kuper	Portrait	J. F. Garfield	10-178
	Marvin Fox	Portrait	J. F. Garfield	10-179
	R. A. Patterson	Portrait	J. F. Garfield	10-180
	L. F. Nims	Portrait	J. F. Garfield	10-181
	J. E. Binns	Portrait	J. F. Garfield	10-182
10-15	G. Williams	Portrait	J. F. Garfield	10-183
10-28	Exterior of Lindenmere from road.	Housing	R. J. Walton	10-184
10-28	Exterior of Lindenmere from shore.	Housing	R. J. Walton	10-185
10-28	Exterior of Lindenmere.	Housing	R. J. Walton	10-186
10-28	Exterior of Lindemere.	Housing	R. J. Walton	10-187
10-30	Biology laboratory floor plan.	Biology	M. Herbert	10-188
10-30	Plot plan, floor plan and elevations in green house.	Biology	M. Herbert	10-189
10-30	Proposed alterations to biology lab.	Biology	M. Herbert	10-190
10-31	Thomas Lanahan	Portrait	J. F. Garfield	10-191
10-31	Copy of tracks.	Salant	M. H. Bull	10-192

Date	Caption	Dept.	Photographer	Number
10-30	^{P.} John Q. Binnington seated at his desk.	Library	R. J. Walton	10-193
10-30	General view of research library showing arrangement of book shelves and reading tables. Librarian is shown at her desk in background.	Library	R. J. Walton	10-194 and 10-195
10-30	General view of periodical reading room in library. Various scientific magazines are kept here for the convenience of personnel.	Library	R. J. Walton	10-196 and 10-197
10-31	Grounds progress and maintenance.	Grnds	E. J. Hunter	10-198 thru 10-208
10-15	L. B. Borst	Portrait	J. F. Garfield	10-209

November

Date	Caption	Dept.	Photographer	Number
11-3	Time curves of P32 uptake by heart muscles.	Biology	M. H. Bull	11-1
11-3	Mechanism of entry of phosphate into cell.	Sachs	M. H. Bull	11-2
11-2	Exterior of site apartment.	Housing	R. J. Walton	11-3
11-3	Interior of bowling alleys at Brookhaven.	Recrea	R. J. Walton	11-4
11-5	Phillip Mittleman and James Rebman using an electrolytic bath to compute lines of equal potential. The upper electrode in the bath represents a cross section of the proton-synchrotron. The bath is also used in designing electrical circuits.	Accel	R. J. Walton and R. F. Smith	11-5 and 11-6
	These negatives have been transferred to the File Progress and Construction file.	File	R. J. Walton	11-7 thru 11-10
11-5	Police target shooting under the supervision of Chief Crozier.	Police	R. J. Walton	11-11
11-6	Meson chart.	Physics	M. H. Bull	11-12
11-6	Interior wiring of Mr. Atom.	AEE	R. J. Walton	11-13
11-6	Chemistry laboratory associate George Samos removing a small vial of radioactive radium beryllium neutron source from vault of lead pigs. The fish pole device is to protect the worker from deadly radiation.	Chem	R. F. Smith and R. J. Walton	11-14
11-6	Chemistry laboratory associated working with vacuum active carbon dioxide and carbon monoxide generating and counting system. George Samos is shown here transferring active carbon dioxide from one end of the vacuum system to the other for reduction to carbon monoxide.	Chem	R. F. Smith and R. J. Walton	11-15 and 11-16
11-6	George Samos removing a vial of radioactive material from lead vault. To protect himself from harmful gamma radiation, he uses a fishpole - like device to execute this operation.	Chem	R. J. Walton and R. F. Smith	11-17 and 11-18
11-7	Cafeteria and personnel.	Cafeteria	R. J. Walton	11-19 thru 11-21

Date	Caption	Dept.	Photographer	Number
11-7	Cafeteria with employees.	Cafeteria	R. J. Walton	11-22 thru 11-24
11-10	Lindenmere taken from drive.	Housing	R. J. Walton	11-25 11-26 11-27
11-10	Fire tower showing weather instruments installed.	Met	R. J. Walton	11-28 thru 11-31
11-11	Copy negatives for biology.	Gibbs	M. H. Bull	11-32 thru 11-41
11-11	Madeline Cooney, secretary to Dr. Koerber, clinic director.	Medical	R. F. Smith	11-42
11-11	Dr. Robert A. Love giving eye exam to R. W. Stafford.	Medical	R. F. Smith	11-43
11-11	Marie Hirschel, clinic receptionist, filling out forms for George Leuchner prior to his physical exam.	Medical	R. F. Smith	11-44
11-11	Left-Alma Wynne, medical technician Right-Jean Miller, registered nurse giving George Leuchner a blood test.	Medical	R. F. Smith	11-45
11-11	Dr. Kenneth A. Koerber, Director of the Medical Department.	Medical	R. F. Smith	11-46
11-11	Dr. Robert A. Love taking medical history of R. W. Stafford before his physical exam.	Medical	R. F. Smith	11-47
11-11	Carol E. Bewster, receptionist.	Medical	R. F. Smith	11-48
11-11	Dr. Wilma Sachs taking blood pressure of S. Maile.	Medical	R. F. Smith	11-49
11-11	Alma Wynne and Jean Miller at work in clinic.	Medical	R. F. Smith	11-50
11-11	Cloud chamber taken thru door showing operator and mechanism.	Cloud Chamber	Smith & Walton	11-51
11-11	Cyclotron showing control board in the background.	Cyclotron	Smith & Walton	11-52 thru 11-55
11-12	General view of heavy machine shop looking west.	Shops	Smith & Walton	11-56
11-13	Carl Walther and Paul Roman of the glass shop at work making glass equip- ment for use at laboratory.	Glass	Smith * Walton	11-57 thru 11-60
11-10	Smoke taken between 11:30 am and 12 noon on Monday, November 10, 1947.	Met	J. F. Garfield	11-61 thru 11-69

Date	Caption	Dept.	Photographer	Number
11-13	Receptionist taking case history of a patient.	Medical	R. J. Walton	11-70
11-13	Overall treatment room			11-71
	first aid sta.	Medical	R. J. Walton	11-72
				11-73
	These negatives have been transferred to the Pile Progress and Construction file.	Pile	R. J. Walton	11-74 thru 11-80
11-17	Mr. Knox handing keys of the new bank to Mr. Quinlan.	Bank	R. F. Smith	11-81
11-17	Mr. Quinlan handing keys of the new bank to Eugene H. Rogers.	Bank	R. F. Smith	11-82
11-17	J. B. H. Kuper is the first to do business in the new bank. Mr. Rogers, bank branch manager on left, with assistant Mrs. Richards looking on.	Bank	R. F. Smith	11-83
11-18	Line drawing of the Pile building.	Pile	M. H. Bull	11-84
11-18	Brookhaven Seal.	Seal	M. H. Bull	11-85
11-18	Preliminary layout of laboratory service and mechanical equipment.	Pile	M. H. Bull	11-86
11-18	Laboratory wings.	Pile	M. H. Bull	11-87
11-18	Grounds progress and maintenance.	Grnds	E. J. Hunter	11-88 thru 11-95
11-19	Number of fragments per 100 PMC.	Biology	M. H. Bull	11-96
11-19	Comparison of ring and bridge frequencies induced at metaphase and at tetrad-young microspore stage.	Biology	M. H. Bull	11-97
11-18	Opening of men's tournament, bowling, showing Danny Ryan.	Recrea	R. J. Walton	11-98
11-18	Opening of men's tournament, bowling, showing Woody Kamen.	Recrea	R. J. Walton	11-99
11-17	Base apartment showing the living room of a three and one-half (one bedroom) apartment. It also shows a large picture window.	Housing	R. J. Walton	11-100
11-17	This shows the living room, both sides of a seven room apartment.	Housing	R. J. Walton	(11-101) (11-102)
11-19	Opening of women's bowling tourney showing Joan Harris.	Recrea	R. J. Walton	11-103
11-19	Opening of women's bowling tourney showing Sarah (why sure) Webb.	Recrea	R. J. Walton	11-104

Date	Caption	Dept.	Photographer	Number
11-21	Biology laboratory floor plan.	Biology	R. J. Walton	11-105
11-21	Proposed alterations for T-212 for the biology laboratory.	Biology	R. J. Walton	11-106
11-21	Plot plan, floor plan and elevation for greenhouse.	Biology	R. J. Walton	11-107
11-18	Completed foundation for the Cloud Chamber laboratory T-117.	Cloud Chamber	R. J. Walton	11-108 and 11-109
11-21	Brookhaven National Laboratory for Atomic Research.	Aeexhibit	Smith & Walton	11-110
11-21	Long shot of American Museum of Natural History.	AEEexhibit	Smith & Walton	11-111
11-21	American Museum of Natural History Exhibit of Minerals and Mining.	AEEexhibit	Smith & Walton	11-112
11-21	Copy for slide showing meaning of half life.	AEEexhibit	Smith & Walton	11-113
11-21	Closeup of Wilson Cloud Chamber.	AEEexhibit	Smith & Walton	11-114
11-21	Demonstration of Atomic Pile model being given to spectators at exhibit.	AEEexhibit	Smith & Walton	11-115
11-21	Long shot of Wilson Cloud Chamber in operation at exhibit - Kentucky University, Department of Physics.	AEEexhibit	Smith & Walton	11-116
11-21	American Chemical Society exhibit on Atomic Energy and Development.	AEEexhibit	Smith & Walton	11-117
11-21	Demonstration of radio isotopes being traced in plant.	AEEexhibit	Smith & Walton	11-118
11-21	Model of nuclear furnace.	AEEexhibit	Smith & Walton	11-119
11-21	Argonne National Laboratory exhibit.	AEEexhibit	Smith & Walton	11-120
11-21	Copy of chart "Splitting the Atom"	AEEexhibit	Smith & Walton	11-121
11-21	Aims of United Nations Atomic Energy Commission regarding atomic energy.	AEEexhibit	Smith & Walton	11-122
11-21	Corner exhibit on Basic Physics.	AEEexhibit	Smith & Walton	11-123 thru 11-127
11-25	Copy - Figure 5.	Electron	M. H. Bull	11-128
11-25	Figure 4 for Electronics report.	Electron	M. H. Bull	11-129
11-25	Grounds progress and maintenance.	Grnds	E. J. Hunter	11-130 thru 11-143
11-28	Figure 508 - Schematic description of the production of a great many secondary cosmic rays by a single primary cosmic ray enetering the earth's atmosphere.	Physics	M. H. Bull	11-144
11-28	Figure 503 - Simple cosmic ray telescope.	Physics	M. H. Bull	11-145

Date	Caption	Dept.	Photographer	Number
11-28	Diagram A		M. H. Bull	11-146
11-28	Diagram B		M. H. Bull	11-147
11-28	Figure 502 - Cosmic ray intensity varies with latitude.		M. H. Bull	11-148
11-28	Figure 481 - Electrostatic generator with a vacuum tube for accelerating positive ions.		M. H. Bull	11-149
11-28	Earth's magnet field directed out from paper.		M. H. Bull	11-150
11-28	Figure 492 - Schematic description of the nuclear reaction which can occur when a high-speed alpha particle strikes a beryllium nucleus to form an ordinary carbon nucleus, after ejecting a high speed neutron.		M. H. Bull	11-151
11-28	Figure 479 - Rutherford discovered atomic transmutation.		M. H. Bull	11-152
11-28	Figure 486 - Accelerating system of cyclotron.	Cyclotron	M. H. Bull	11-153
11-28	Figure 484 - Simple analogue of the action in a cyclotron chamber.	Cyclotron	M. H. Bull	11-154
11-28	Figure 482 - Electrostatic generator and accelerating tube surrounded by gas at pressure greater than atmosphere to increase operating voltage.		M. H. Bull	11-155
	These negatives have been transferred to the Pile Progress and Construction file.	Pile	R. J. Walton	11-156 thru 11-161
	THE FOLLOWING WERE MADE FROM NEGATIVE BELONGING TO R. F. SMITH. No negative will be in file.			
11-28	Harvard 42" cyclotron. The material to be made radioactive is placed in an aluminum envelope and pressed into a shallow groove in the face of a copper target plate. The plate is then bolted to a copper bell jar which in turn is bolted to the cyclotron for bombardment. The worker shown here is bolting the bell jar to the cyclotron.	Harvard Cyclotron	R. F. Smith	11-162
11-28	The cyclotron beam composed of atomic particles traveling at terrifically high speed, transmutes some of the atoms of the bombarded material into forms which are radioactive. In the actual operation, the beam would not be visible since it would be confined to the bell jar and target.	Harvard Cyclotron	R. F. Smith	11-163

Date	Caption	Dept.	Photographer	Number
11-28	This view shows the two huge magnets which are the heart of the cyclotron. When in operation, sliding metal walls filled with water are rolled in front of the instrument to help shield the operator from radiation.	Harvard Cyclotron	R. F. Smith	11-164
11-28	Operator of the cyclotron panel. From this panel or console, which for further safety is located in another part of the building, the operator commands complete control of the giant atom smasher.	Harvard Cyclotron	R. F. Smith	11-165
11	Slide # A 816F	Sparrow Biology	R. F. Smith	11-166-7
11	Slide A 672B E 24 " " " " " 870 x	Sparrow Biology	R. F. Smith " "	11-167-7 11-168-7
11-21	Slide # A 672B ⁵ E 25 " " " " "	Sparrow Biology	R. F. Smith " "	11-169-7 11-168-7 → 11-170-7
11-21	Slide # A 672B ² E 22 " " " " "	Sparrow	R. F. Smith " "	11-171-7 11-169-7 → 11-172-7
11-23	Slide # A 400-A	Sparrow	R. F. Smith	11-170-7 11-173-7
11-23	Slide # 802 Q	Sparrow	R. F. Smith	11-171-7 11-174-7
11-25	Slide # A 672B ⁶ " " "	Sparrow	R. F. Smith " "	11-175-7 → 11-176-7
11-26	Slide # A 371C	Sparrow	R. F. Smith	11-173-7 11-177-7

December

Date	Caption	Dept.	Photographer	Number
12-1	Grounds progress and maintenance.	Grounds	E. J. Hunter	12-1 thru 12-20
12-1	Completed buildings next to the graphite shop to be used by H. K. Ferguson Company.	H K F	J. F. Garfield and R. J. Walton	12-21 and 12-22
12-1	Site of transformer and emergency generator station.	Pile	J. F. Garfield and R. J. Walton	12-23 and 12-24
12-4	Five pronged disintegration star. Mag. 750 X.	Salant	R. F. Smith	12-25
12-2	Telephone operator Dorothy McGlone operating switchboard.	Mines	R. J. Walton	12-26
12-3	Herman Schriber, cabinet maker, shown putting finishing touches on snow removal equipment.	Mines	R. F. Smith	12-27
12-3	Dr. Patterson, Assistant Director, at the phone.	Portrait	R. F. Smith	12-28
12-3	Dr. Patterson, Assistant Director, working at desk.	Portrait	R. F. Smith	12-29
12-1	Copy of micrometer scale.	Clareus	M. H. Bull	12-30
12-8	Figure 3 - Relative motion of target past observer.	Morse	M. H. Bull	12-31
12-8	Figure 4 - Curves for instantaneous contact rate.	Morse	M. H. Bull	12-32
12-8	Figure 2 - Visual detection of wake on ocean surface by observer in aircraft.	Morse	M. H. Bull	12-33
12-8	Figure 6 - Calculation of optimum distribution of search effort.	Morse	M. H. Bull	12-34
12-8	Figure 1 - Polar contours of instan- taneous probability of detecting target.	Morse	M. H. Bull	12-35
12-8	Figure 7 - Barrier patrol versus diving submarine.	Morse	M. H. Bull	12-36
12-8	Figure 8 - Solutions of problem shown in Figure 7 for safe tactics.	Morse	M. H. Bull	12-37
12-8	Figure 5 - Probability of contact during search of track length L for single target at random area A.	Morse	M. H. Bull	12-38
12-14	Exterior of apartment area.	Housing	R. J. Walton	12-39 thru 12-43
12-1	Mildred Mooney.	Portrait	J. F. Garfield	12-44

Date	Caption	Dept.	Photographer	Number
12-11	Interior of Central Stores.	Buildings	R. J. Walton	12-45
12-11	Storage for waxers and miscellaneous maintenance equipment.	Buildings	R. J. Walton	12-46
12-11	Bay H	Buildings	R. J. Walton	12-47
12-11	Bay A	Buildings	R. J. Walton	12-48
12-11	Bay D	Buildings	R. J. Walton	12-49
12-11	Heavy machine shop.	Shops	R. J. Walton	12-50
12-11	Carpenter and cabinet shop.	Shops	R. J. Walton	12-51
12-11	Pile engineering laboratory in T-197.	Nuclear	R. J. Walton	12-52
12-11	Pile engineering laboratory in T-197.	Reactor	R. J. Walton	12-53
12-9	Dr. Sachs shown operating an auto-scaler. He is putting sample containing P-32 into chamber so that its activity may be counted on scaling circuit.	Biology	R. J. Walton	12-54
12-9	Alan Weiss shown operating a Quartz Spectrophotometer.	Chem	R. F. Smith	12-55
12-9	Irving N. Greenberg shown operating a special scaler and power supply for use with radioactive gas filled Geiger counter. The counter on appar. is filled with radioactive CO2.	Chem	Smith & Walton	12-56
12-9	Electronics machine shop.	Electron	Walton & Smith	12-57
12-9	Rosemary Dumrose, assistant to Dr. Gibbs, at work in laboratory.	Biology	Walton & Smith	12-58
12-10	Biology laboratory showing still and hot oven equipment set up.	Biology	Walton & Smith	12-59
12-10	Long shot of base motor pool shown with cars and trucks lined up.	Trans	R. J. Walton	12-60
12-11	Preliminary 66 K. V. substation.	Pile	R. J. Walton	12-61
12-11	Preliminary 66 K. V. substation.	Pile	R. J. Walton	12-62
12-9	Mrs. Culver shown staining slides which will be viewed in scopes.	Biology	Walton & Smith	12-63
12-11	Dr. Borst lecturing in lobby of 459.		J. F. Garfield	12-64
12-11	As part of its accelerator project, Brookhaven will have a 60 inch cyclotron. This is a model of the cyclotron and the building which will be constructed to house it.	Cyclotron	R. J. Walton	12-65
12-11	Showing materials for substation.	Pile	R. J. Walton	12-66 12-67 12-68

Date	Caption	Dept.	Photographer	Number
12-10	Long shot showing railroad cars loaded with equipment for pile.	Pile	R. J. Walton	12-69
12-11	60" cyclotron with shields model.	Cyclo	R. J. Walton	12-70
12-11	George Samos shown preparing apparatus for exchange reaction of radioactive CO ₂ with inactive CO.	Chem	Walton & Smith	12-71
12-5	Sidney Thompson shown working on apparatus for preparing synthetic compounds containing radioactive compound.	Chem	Walton & Smith	12-72
12-9	Rosemary Dumrose at work in lab.	Biology	Walton & Smith	12-73
12-11	Pile building, hot lab, fanhouse, Cyclotron Van de Graaf, Graphite shop model.	Pile	R. J. Walton	12-74
12-11	Map of existing buildings and proposed new facilities.	Hartzell	M. H. Bull	12-75
12-11	Geographical distribution of Brookhaven Scientific and Scientific Consultant Personnel, November 1947.	Hartzell	M. H. Bull	12-76
12-11	Geographical distribution by states, of universities, colleges and technical schools in the northeastern section of the United States.	Hartzell	M. H. Bull	12-77
12-11	Geographical distribution of attendance at Brookhaven Conference 1947.	Hartzell	M. H. Bull	12-78
12-11	Salaries and wages by departments.	Hartzell	M. H. Bull	12-79
12-11	Personnel by departments.	Hartzell	M. H. Bull	12-80
12-11	Floor plan of the Cyclotron Van de Graaff building.	Cyclotron	M. H. Bull	12-81
12-11	This is the interior of the Cloud Chamber laboratory showing the medium cloud chamber in rear which is used to study cosmic ray particles.	Cloud Chamber	R. J. Walton	12-82 and 12-83
12-11	The library at Brookhaven is well stocked with scientific volumes and current technical periodicals so that the scientists can keep abreast of the work which is being done in their own and related fields.	Library	R. J. Walton	12-84
12-10	Long shot of base motor pool showing cars and trucks lined up.	Trans	R. J. Walton	12-85
12-12	P. M. Morse, Director	Portrait	J. F. Garfield	12-86
12-12	P. M. Morse, Director	Portrait	J. F. Garfield	12-87

Date	Caption	Dept.	Photographer	Number
12-10	Electronics machine shop.	Electron	Walton & Smith	12-88
12-15	Payroll clerk Diana Manne.	Mines	R. F. Smith	12-89
12-15	Surplus buildings from Upton line a cow pasture outside of Yaphank.	Mines	R. F. Smith	12-90
12-15	Purification equipment for swimming pool. Pool operator E. J. Morrissey checking valves on water filters.	Mines	R. F. Smith	12-91
12-15	Janitors giving the gym floor a waxing (J. Hicks, P. Agnese, T. Bonino).	Mines	R. F. Smith	12-92
12-15	Linemen George Stoll and William Luckert do a splicing job on some hot wires.	Mines	R. F. Smith	12-93
12-15	Firing furnaces in the boiler room (James Carter and Mathew Campanaro).	Mines	R. F. Smith	12-94
12-15	Personnel by classification.	Hartzell	M. H. Bull	12-95
12-14	Table 5 - Summary of results obtained in an examination of boron-loaded emulsions exposed for 40 days.		M. H. Bull	12-96
12-15	Figure 1 - Range distribution of proton tracks in angular range.		M. H. Bull	12-97
12-15	Figure 9 - Mosaic of photomicrographs with Cooke X 95 achromat.		M. H. Bull	12-98
12-15	Two examples of a particularly interesting type of disintegration are shown in photomicrograph.		M. H. Bull	12-99
12-15	Table 2 - Mass in Me Energy in MEV.		M. H. Bull	12-100
12-15	Figure 4 - N is total number of grains in track of residual range R.		M. H. Bull	12-101
12-15	Distribution in range of ten secondary mesons.		M. H. Bull	12-102
12-15	Figure 2 - Angular distribution of proton tracks produced in photo disintegration of etuterium.		M. H. Bull	12-103
12-15	Table.		M. H. Bull	12-104
12-15	Figure 2 - Observed by Miss Kurz.		M. H. Bull	12-105
12-15	Figure 4 - Observed by Mrs. Roberts.		M. H. Bull	12-106
12-15	Figure 1 - Observed by Mrs. Powell.		M. H. Bull	12-107
12-15	Figure 1 - Observed by Mrs. Roberts.		M. H. Bull	12-108
12-15	Figure 7 - Relative frequency of the disintegration produced by mesons in which different numbers of heavy charged particles are emitted.		M. H. Bull	12-109
12-15	Figure 10 - Mosaic of photomicrographs with Cooke X 95 achromat.		M. H. Bull	12-110
12-15	Figure 3 - Observed by Mrs. Roberts.		M. H. Bull	12-111
12-15	Figure 2 - Cooke X 95 achromatic objective.		M. H. Bull	12-112
12-15	Table 3.		M. H. Bull	12-113

Date	Caption	Dept.	Photographer	Number
12-15	Histogram showing the distribution of the observed length of the projection of meson tracks on the surface of the emulsion.		M. H. Bull	12-114
12-15	Table 4 - Boron loaded emulsion, Type C2.		M. H. Bull	12-115
12-15	Table 1.		M. H. Bull	12-116
12-15	Figure 5 - N is the total number of grains in track of residual range R-.		M. H. Bull	12-117
12-18	Geiger Counter and Minerals.	AEE	R. F. Smith	12-118
12-18	Way to Separate U235.	AEE	R. F. Smith	12-119
12-18	Nuclear Furnace.	AEE	R. F. Smith	12-120
12-18	Nuclear fission, U235 fission chain reaction, neutron absorption by U238 or impurities, scattering by walls, gamma ray emulsion, nuclear reaction.	AEE	R. F. Smith	12-121
12-18	Table 1 - Summary of bridges & rings obtained with three different fragment frequencies after various metaphase treatments.		M. H. Bull	12-122 A
12-18	Slide - Figure 6 - A meson comes to the end of its range and leads to a disintegration with the emission of a single heavy charged particle, probably a proton.	Salant	M. H. Bull	12-122 B
12-18	Table 3 - Comparison of ring & bridges frequencies induced at a metaphase and at tetrad-young microspore where anaphase fragment counts are approximately equal.		M. H. Bull	12-123
12-18	Table 4 - Statistical significance of difference in rejoining after irradiation at different stages.		M. H. Bull	12-124
12-18	Table 2 - Summary of bridges & rings obtained with four different fragment frequencies after few treatments of tetrad-young microspore stage.		M. H. Bull	12-125
12-22	George Williams.	Portrait	R. F. Smith	12-126
12-22	Steno Pool Christmas tree.	Trudeau	R. J. Walton	12-127
12-22	Steno Pool Christmas tree.	Trudeau	R. J. Walton	12-128
12-22	W. Schneider, Mechanic Heavy Mach.	Mines	R. J. Walton	12-129
12-22	W. Schneider, Mechanic Heavy Mach.	Mines	R. J. Walton	12-130
12-21	Scale for projection minometer.		M. H. Bull	12-131

Date	Caption	Dept.	Photographer	Number
12-31	2.5 Bev. proton synchrotron.	Accel	M. H. Bull	12-132
12-31	'C' electrode.	Accel	M. H. Bull	12-133
12-31	Phase oscillations.	Accel	M. H. Bull	12-134
12-31		Accel	M. H. Bull	12-135
12-31	Ejection, Synchrotron Acceleration, Betatron Acceleration, Injection.	Accel	M. H. Bull	12-136
12-31		Accel	M. H. Bull	12-137
12-31	2.5 Bev. synchrotron magnet lamination.	Accel	M. H. Bull	12-138
12-31	Flux bar - betatron orbit, synchrotron orbit - Section B-B.	Accel	M. H. Bull	12-139
12-31	R-Meter, Kinetic Energy Mev.	Accel	M. H. Bull	12-140
12-31	F(mc) Kinetic Energy Mev.	Accel	M. H. Bull	12-141
12-23	Cement mixing plant near the warehouse area.	Maint	RFS and RJW	12-142
12-23	Andy Underhill as Santa Claus.	Recrea	R. J. Walton	12-143
12-23	Entertainers at Xmas Party.	Recrea	R. J. Walton	12-144
12-29	Transformer site.	HKF	R. J. Walton	12-145
12-23	Cement mixing plant near the warehouse area.	Maint	RFS and RJW	12-146
12-47	P. M. Morse, Director	Portrait	J. F. Garfield	12-147
12-4	Slide 3 A 144E (A)	Sparrow	R. F. Smith	12-148-7
12-4	Slide # A 144 E (B)	Sparrow	R. F. Smith	12-149-7
12-18	Slide # A 153 D	Sparrow	R. F. Smith	12-150-7
12-18	Slide # A 153 D (A) (E10)	Sparrow	R. F. Smith	12-151-7
12-18	Slide # A 153D (C) (E11)	Sparrow	R. F. Smith	12-152-7
12-18	Slide # A 153D (B) (E12)	Sparrow	R. F. Smith	12-153-7
12-18	Slide # A 248 A E 13	Sparrow	R. F. Smith	12-154-7
	Slide # 833 H	Sparrow	R. F. Smith	12-155-7
	Slide # A 144-E (e)	Sparrow	R. F. Smith	12-156-7
	Slide # A 144-E (D)	Sparrow	R. F. Smith	12-157-7
	Slide # A 144-E (C)	Sparrow	R. F. Smith	12-158-7

Date	Caption	Dept.	Photographer	Number
	Slide # A 672B ⁷	Sparrow Biology	R. F. Smith	12-159-7
	Slide # A 250 F	Sparrow	R. F. Smith	12-160-7
	Slide # A 833 H	Sparrow	R. F. Smith	12-161-7
	Slide # A 258 A P1	Sparrow	R. F. Smith	12-162-7
	Slide # 833 H	Sparrow	R. F. Smith	12-163-7
	Slide # A 62-B E-18	Sparrow	R. F. Smith	12-164-7
	Slide # Class I	Sparrow	R. F. Smith	12-165-7
	Slide # A 172F	Sparrow	R. F. Smith	12-166-7
	Slide # 20-45-A4 E20	Sparrow	R. F. Smith	12-167-7
	Slide # A 694 L	Sparrow	R. F. Smith	12-168-7
	Slide # A 936 M	Sparrow	R. F. Smith	12-169-7
	Slide # A 672 B	Sparrow	R. F. Smith	12-170-7
12-18	Slide No. A492-C E19	Sparrow	R.F. Smith	12-171-7