
Finding Aid of the Walter Beyer Papers

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Finding Aid of the Walter Beyer Papers

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Descriptive Summary

Title: Walter Beyer Papers,

Date (inclusive): 1935-1968

Collection number: 2006

Creator: Beyer, Walter, 1913-1969

Extent: 45 boxes (22.5 linear ft.) 3 oversize boxes

Repository: University of California, Los Angeles. Library Special Collections.

Los Angeles, California 90095-1575

Abstract: Walter Beyer (1913-1969) joined Paramount Pictures in 1952 as a special projects engineer and worked on shutter timing devices, design of stereo-camera setups, experimental stereo projection, and the development of VistaVision, Paramount's wide screen process. In 1955, he joined the staff of the Motion Picture Research Council (MPRC) and oversaw mechanical and optical design problems. He worked briefly for Review Studios before becoming head of research engineering at Universal Pictures. The collection consists of correspondence, reports, catalogs, brochures, manuals, files, and ephemera related to Beyer's career as motion picture engineer.

Physical location: Stored off-site at SRLF. Advance notice is required for access to the collection. Please contact the UCLA Library Special Collections Reference Desk for paging information.

Language: English.

Restrictions on Access

COLLECTION STORED OFF-SITE: Advance notice required for access.

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Preferred Citation

[Identification of item], Walter Beyer Papers (Collection 2006). UCLA Library Special Collections, Charles E. Young Research Library.

UCLA Catalog Record ID

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Provenance/Source of Acquisition

Gift of Mrs. Walter Beyer, 1971.

Biography

Beyer came to the U.S. from Germany in 1951; joined Paramount Pictures in 1952 as a special projects engineer and worked on shutter timing devices, design of stereo-camera setups, experimental stereo projection, and the development of VistaVision, Paramount's wide screen process; joined staff of Motion Picture Research Council (MPRC) in 1955, and oversaw

mechanical and optical design problems; later he worked briefly for Review Studios; became head of research engineering at Universal Pictures; died on January 14, 1969.

Scope and Content

Collection consists of correspondence, reports, catalogs, brochures, manuals, files, and ephemera related to Beyer's career as motion picture engineer. Includes material from his work with Paramount Pictures, the development of wide screen and 3-D film processes, the Motion Picture Research Council, and Universal Pictures Company. Also contains material related to wide screen film processes such as: Techniscope, Todd-AO, Technirama, Superscope, Cinemascope, VistaVision, Panavision, and Cinerama.

Expanded Scope and Content Note

Walter Beyer came to the United States from Germany in 1951. He joined Paramount Pictures in 1952 as a special projects engineer, working on shutter timing devices, the design of stereo-camera setups, experimental stereo projection, and the development of VistaVision, Paramount's wide screen process. In 1955 he resigned from Paramount and joined the staff of the Motion Picture Research Council, where he was in charge of problems relating to mechanical and optical design. The MPRC disbanded in March, 1960, and after working briefly for Review Studios, Beyer was appointed head of research engineering at Universal Pictures Company, Incorporated - a position he held until his death on January 14, 1969, at the age of 55.

The Beyer collection consists of 47 document boxes of letters, papers, files and catalogues ranging over the whole of Beyer's work. Major subjects include: Wide Screen Processes and stereo sound; 3-D; the Cordova Mark I Projector; the Motion Picture Research Council; Mardovan method of film conservation: American Society of Cinematographers (files); Traveling Matte Process Photography and the Blue Screen System; films and film processing; lighting and lamps; theater screens; American Standards Association; catalogues, brochures, and manuals; shutter and flicker data; slides and transparencies; miscellaneous blueprints, graphs and charts; misc. photographs and negatives; and 88 reels of 8, 16, 35, and 70mm film.

Of the material available, that concerning wide screen and 3-D process should have particular interest for film scholars, as many of these processes are no longer in use. Included files: 70mm installation survey (world wide); Dimension 150; Techniscope; Todd-AO; 70mm drive-in operations; wide screen information (general, domestic and foreign); Grandeur 70; Technirama; Scanscope; Superscope; Cinemascope 35 and Super C-Scope 55; VistaVision; Panavision; Cinerama; Arc 120 System; and Panavision 35mm to 70mm. Film clipping which illustrate many of these processes are also available.

Organization and Arrangement

Arranged in the following series:

- Wide screen process and stereo sound data (Boxes 1-2).
- 3-D (Box 3).
- Cordova Mark I projector (Box 4).
- Motion Picture Research Council (Box 5).
- Mardovan method of film conservation (Box 6).
- American Society of Cinematographers (Boxes 7-8).
- Completed files (Boxes 9-11).
- Traveling matte process photography and blue screen system (Boxes 12-13).
- Film and processing data (Boxes 14-15).
- Lighting and lamp data (Boxes 16-18).
- Theater screen data (Box 19).
- American Standards Association (Boxes 20-21).
- Blueprints, graphs, charts (Boxes 22-24).
- Software (Boxes 25-28).
- Catalogues, brochures, and manuals (Boxes 29-40).
- Correspondence, flicker and shutter data, photographs and negatives (Box 41).
- Materials (Boxes 42-44, 47).
- Slide boxes (Boxes 45-46).
- Oversize materials (Box 48).

Indexing Terms

The following terms have been used to index the description of this collection in the repository's online public access catalog.

Subjects

Beyer, Walter, 1913-1969--Archives.

Motion Picture Research Council.

American Society of Cinematographers.

Cinematographers--Archival resources.

Motion picture cameras--Design and construction--Archival resources.

Cinematography--Equipment and supplies--Research.

Wide screen processes (Cinematography)--Research.

88 reels of 8, 16, 35, and 70mm film (Turned over to Bob Epstein and the UCLA film archives).

Wide Screen Process and Stereo Sound Data

Box 1, Folder 1	Photograph: Motion picture research council cinemascope optical track projector alignment film.
Box 1, Folder 2	70mm WW instalation survey.
Box 1, Folder 3	Notebook: Dimension 150.
Box 1, Folder 4	Dimension 150.
Box 1, Folder 5	35/70 Universal Super 70; Todd-AO; Super Panavision; 35 PV tests and print ups (August 11, 1967).
Box 1, Folder 6	35/70 Universal Super 70 (low key test plus T-color lens test. September 14, 1967).
Box 1, Folder 7	International projectionist article no.1.
Box 1, Folder 8	Techniscope (2.35/1 vs. 1.85/1).
Box 1, Folder 9	Todd-AO.
Box 1, Folder 10	70mm drive-in operation.
Box 1, Folder 11	Wide screen information (general, domestic, and foreign).
Box 1, Folder 12	<i>William the Conqueror</i> (film).
Box 1, Folder 13	Grandeur 70.
Box 1, Folder 14	Technirama.
Box 1, Folder 15	Scanoscope.
Box 1, Folder 16	Superscope.
Box 1, Folder 17	Cinemascope 35 and Super C-scope 55.
Box 2, Folder 1	VistaVision.
Box 2, Folder 2	Panavision.
Box 2, Folder 3	Cinerama.
Box 2, Folder 4	Arc 120 system.
Box 2, Folder 5	Booklet: <i>Wide screen motion picture systems</i> (SMPTE, 1965).
Box 2, Folder 6	Wide screen information-non-standard.
Box 2, Folder 7	Miscellaneous materials: 23 items, including stereo sound information.
Box 2, Folder 8	<i>American Cinematographer</i>, May 1962.
Box 2, Folder 9	From small screen to wide screen and back to television -- wide screen tutorial.
Box 2, Folder 10	Panavision 35mm to 70mm.
Box 2, Folder 11	Panavision brightness meter.
Box 2, Folder 12	Vicom, selection chart for 70mm projection lens (1960) Hilux motion picture test chart.
Box 2, Folder 13	The MCS - 70 camera.
Box 2, Folder 14	Bell and Howell Company, VistaVision camera proposal (April 30, 1954) VistaVision cameras (May 11, 1954).
	Physical Description: (2 drawings & 3 blueprints)
Box 2, Folder 15	Correspondence.
	3-D

Box 3, Folder 1	Motion Picture Research Council (MPRC) 3-D calculator. Physical Description: [6 items]
Box 3, Folder 2	"Pantages Special," the results of a 1961 test of two 35mm images projected on 70mm film.
Box 3, Folder 3	3-D report.
Box 3, Folder 3	MPRC bulletin: "Photography of 3-D stereoscopic motion pictures" (April 17, 1953);
Box 3, Folder 4	Direction for the use of the motion picture research council 3-D calculator.
Box 3, Folder 5	Article: "The stereoscopic art," John A. Norling, APSA (1951-52). Blueprints from Paramount pictures. Physical Description: [3 items]
Box 3, Folder 6	Article: "A simple formula for taking stereoscopic motion pictures," Armin J. Hill (October 1, 1952) Physical Description: (2 copies)
Box 3, Folder 7	Articles: "Summarizing report on 3-D cameras," Walter Beyer (March 22, 1953).
Box 3, Folder 7	"The shape of stereoscopic images," John T. Rule, (November 7, 1940).
Box 3, Folder 7	"Stereoscopic photography," Richard T. Kriebel (1943).
Box 3, Folder 8	MPRC Informational Bulletins (no.1-4), 1953
Box 3, Folder 8	no.1: "Exhibition of stereoscopic motion pictures" (February 19, 1953).
Box 3, Folder 8	no.2: "Recommendation to projectionists for showing stereoscopic 3-D motion pictures" (April 2, 1953).
Box 3, Folder 8	no.3: "Recommendations on laboratory and exchange procedures for 3-D motion picture release prints" (April 3, 1953).
Box 3, Folder 8	no.4: "Recommendations for interlocking projectors for 3-D pictures for stereoscopic sound" (April 8, 1953).
Box 3, Folder 9	Miscellaneous materials. Physical Description: [6 items]
Box 3, Folder 10	Blueprint: stereo lens separation -- two model "D" cameras. The Cordova Mark I Projector
Box 4, Folder 1	U.S. patent material for the Cordova Mark I projector (Walter Beyer, inventor). Physical Description: [9 items]
Box 4, Folder 2	Related materials. Physical Description: [25 items]
Box 4, Folder 3	Related descriptive materials. Physical Description: [29 items]
Box 4, Folder 4	Blueprints, photographs, negatives, etc. Physical Description: [56 items]
Box 4, Folder 5	Notebook: cartridge projection.
Box 4, Folder 6	Material on other cartridge systems. Physical Description: [19 items]
Box 4, Folder 7	Miscellaneous materials. Physical Description: [19 items]
Box 4, Folder 8	Correspondence. Motion Picture Research Council - Miscellaneous Data

Box 5, Folder 1	Annual report, September 31, 1958-October 1, 1959. Physical Description: [3 copies]
Box 5, Folder 2	Catalog of test films (July 1957); subject index of bulletins and reports (bulletin no.1-305; September 1947-June 1959). Physical Description: (2 copies)
Box 5, Folder 3 Box 5, Folder 4	Research Council Industry Practice, no.1-36. Catalog of test film (August 1, 1959). Physical Description: (2 copies)
Box 5, Folder 4 Box 5, Folder 5 Box 5, Folder 6 Box 5, Folder 7	"An improved drive-in screen," Petros Vlahos (October 21, 1954). Notebook: Informational bulletins. Second report on MPRC theater liaison program (October 1958). First statistical compilation of data from MPRC theater liaison program; instruction sheet for 35mm all-purpose projector alignment film. Physical Description: [2 copies]
Box 5, Folder 8	Chart: cinemascope optical track projector alignment film; chart: all purpose projector alignment film [10 items]; 35mm strips of test film.
Box 5, Folder 9	Resolution test chart materials. Physical Description: [1 envelope]
Box 5, Folder 10	Report: preliminary analysis of the use of video tape (April 17, 1959). Physical Description: [5 copies]
Box 5, Folder 11 Box 5, Folder 12 Box 5, Folder 13	Bulletin: Eidophor - large screen television (June 30, 1952). Correspondence. Miscellaneous materials. Mardovan Method of Film Conservation
Box 6, Folder 1	Preliminary report to the Academy of Motion Picture Arts and Sciences. Physical Description: [2 copies]
Box 6, Folder 2	Patent copies discussed in preliminary report to the Academy of motion picture arts and sciences (vol.1).
Box 6, Folder 3	Patent copies discussed in preliminary report to the Academy of motion picture arts and sciences (vol.2).
Box 6, Folder 4	MPRC report no.58.109: film conservation (August 30, 1948); re-evaluation of MPRC report no.58.109A (1958). American Society of Cinematographers (ASC)
Box 7, Folder 1 Box 7, Folder 2 Box 7, Folder 3 Box 7 Box 7, Folder 4 Box 7, Folder 5 Box 7, Folder 6 Box 7, Folder 7 Box 7, Folder 8 Box 7, Folder 9 Box 7, Folder 10 Box 7, Folder 11 Box 7, Folder 12 Box 7, Folder 13 Boxes 7-8	Daily folder on pending matter. ASC recommendations no.1-17. ASC industry news forum. ASC Projects no.1: screen brightness (review rooms). no.2: 65mm camera aperture. no.3: daily focus chart. no.4: television-finder markings. no.5: the case of DC-restoration in B&W television home receivers. no.6: double frame camera aperture dimensions. no.7: Cinerama camera aperture discussions. no.8: release methods of flat and anamorphic theatrical pictures on television. no.9: 35mm exposure areas and camera apertures. no.11: title area for wide screen (flat) theatrical films. ASC Recommendations

Box 7, Folder 14	no.1: general comments re screen brightness level for review rooms. Physical Description: [Extra copies]
Box 7, Folder 15	no.2: general comments re 65 mm camera aperture. Physical Description: [Extra copies]
Box 8, Folder 1	no.3: general comments re focusing chart for daily rushes. Physical Description: [Extra copies]
Box 8, Folder 2	no.4: general comments re safe action and safe title areas for 35mm films for television release in B&W and color.
Box 8, Folder 3	no.5: general comments re improvements for B&W film presentation on television.
Box 7, Folder 9	no.6.
Box 8, Folder 4	no.6: general comments re double-frame camera aperture dimensions.
Box 8, Folder 5	no.7: general comments re Cinerama camera printer and projector aperture dimensions and angular field coverage data.
Box 8, Folder 6	no.8: release method of wide screen (flat) TA print on television.
Box 8, Folder 7	no.9: general comments re 35mm camera aperture dimensions.
Box 8, Folders 8-9	no.10: specifications for full screen to Academy aperture reduction [notes]. Physical Description: [Extra copies]
Box 8, Folder 10	no.11: safe title area for wide screen (1.85:1) and anamorphic (2.35:1) theatrical release prints.
Box 8, Folder 11	no.12: 35mm double-frame-format wide screen systems - VistaVision and Technirama.
Box 8, Folder 12	no.13: general comments re the "Techniscope" wide screen system.
Box 8, Folder 13	no.13: additional data.
Box 8, Folder 14	no.14: general comments re ground glass and/or finder markings for the 65mm/70mm wide screen systems Todd-AO and Ultra Panavision 70; related material.
Box 8, Folder 15	no.15: 35mm composition area and ground-glass markings for print-up from 2:1 anamorphic camera originals to 70mm release prints.
Box 8, Folder 15	no.15-17 re 35mm to 70mm print up.
Box 8, Folder 16	no.15. Physical Description: (Extra copies)
Box 8, Folder 17	no.16: 35mm composition area and ground glass markings for print-up from techniscope linear (flat) camera originals to 70mm release prints.
Box 8, Folder 18	no.17: 35mm composition area and ground glass markings for print-up from 1.85:1 wide screen camera originals to 70mm release prints.
Box 8, Folder 19	ASC manual re-write.
Box 8, Folder 20	Uncorrected draft of material presented at traveling matte symposium (October 16, 1962) and other ASC data.
	Completed Files (Miscellaneous)
Box 9, Folder 1	Drive-in projects.
Box 9, Folder 2	Askania 35mm cameras.
Box 9, Folder 3	Silver recovery (Eastman).
Box 9, Folder 4	Studio Hamburg, North German radio and television.
Box 9, Folder 5	Viscomat and processing.
Box 9, Folder 6	Black and white to color.
Box 9, Folder 7	Expo '67 information I.
Box 9, Folder 8	Picture quality: film vs. television.
Box 9, Folder 9	Sodium vapor systems.
Box 9, Folder 10	Television vs. wide screen, paper no.2.
Box 10, Folder 1	MCA-Television.
Box 10, Folder 2	Television - general.

Box 10, Folder 3 **Color films for television; products and release; SMPTE mat.**
 Box 10, Folder 4 **Master projection file.**
 Box 10, Folder 5 **Prices and economic evaluations.**
 Box 10, Folder 6 **Big screen color and black and white television.**
 Box 10, Folder 7 **Zoom lens information and patent.**
 Box 10, Folder 8 **Electronic beam recorder.**
 Box 10, Folder 9 **SMPTE (Society of Motion Picture and Television Engineers).**
 Box 10, Folder 10 **Nomenclature and flow charts.**
 Box 11, Folder 1 **Ranger II spacecraft.**
 Box 11, Folder 2 **Theater information folder.**
 Box 11, Folder 3 **7251/7255.**
 Box 11, Folder 4 **Technical file on Universal's *Thoroughly Modern Millie*.**
 Box 11, Folder 5 **Forced developments.**
 Box 11, Folder 6 **Photoplastic and thermoplastic systems.**
 Box 11, Folder 6 **Walter Beyer employment file.**

Traveling Matte Process Photography and Blue Screen System

Box 12, Folder 1 **Traveling matte system.**
 Box 12, Folder 2 **Sodium traveling matte system.**
 Box 12, Folder 3 **Color difference, traveling matte system.**
 Box 12, Folder 4 **Front projection information.**
 Box 12, Folder 5 **Original research: front projection, M-G-M London, February 22, 1968.**
 Box 12, Folder 6 **MPRC description, patents, and correspondence.**
 Box 12, Folder 7 **Blue screen.**
 Box 12, Folder 8 **Notebook: "Blue screen article."**
 Box 12, Folder 9 **Notebook: Report of subcommittee on color traveling matte color photography.**
 Box 12, Folder 10 **Art work for blue screen article.**
 Box 13, Folder 1 **Walter Beyer: "Traveling matte photography and the blue screen system--a tutorial paper."**

Physical Description: [2 copies]

Box 13, Folder 1 **MPRC bulletin: a description of traveling matte systems (May 25, 1959).**

Physical Description: [3 copies]

Box 13, Folder 2 **Stanford research institute: a proposal for research: To Develop a Method of Process Background Photography, (January 8, 1950).**

Box 13, Folder 3 **MPRC bulletin: traveling matte composite photography (August 6, 1951).**

Box 13, Folder 4 **MPRC report: front projection process photography with scotchlite (August 6, 1951).**

Box 13, Folder 4 **Draft memorandum re tests conducted on traveling matte at the Universal-International studio, December 21, 1950 (December 27, 1950).**

Box 13, Folder 4 **Draft: traveling matte processes.**

Box 13, Folder 4 **Notes on Universal-International test for traveling matte using scotchlite backing and infra-red illumination (March 17, 1952).**

Box 13, Folder 4 **Status report on traveling matte composite photography (May 9, 1951).**

Box 13, Folder 5 **Traveling matte (April 19, 1954).**

Box 13, Folder 5 **Traveling mattes (November 8, 1950).**

Box 13, Folder 5 **Memorandum on traveling matte processes (December 28, 1950).**

Box 13, Folder 5 **"Traveling matte composition," a speech for Mr. Irving Ries of M-G-M.**

Box 13, Folder 5 **Color difference traveling matte system using the blue screen.**

Box 13, Folder 6 **Appendix 1 (58.428): difficulties with present traveling matte processes.**

Box 13, Folder 6 **Appendix 2 (58.428): advantages and disadvantages of various separation systems.**

Box 13, Folder 6 **Appendix 3: proposals for improving traveling matte process (May 15, 1956).**

Box 13, Folder 6 **Appendix 4: correspondence (reference 58.428).**

Box 13, Folder 7 **Photographs and negatives.**

Physical Description: [99 items, 1 oversize]

Box 13, Folder 8	<p>Charts, graphs, blueprints. Physical Description: [38 items, 2 oversize]</p>
Box 13, Folder 9	<p>Rough draft: self matting composite photography; minutes of meeting: traveling matte task group (58.428) [May 12, 1955].</p>
Box 13, Folder 10	<p>Correspondence.</p>
Box 13, Folder 11	<p>Miscellaneous materials.</p>
	<p>Film and Film Processing Data</p>
Box 14, Folder 1	<p>DuPont.</p>
Box 14, Folder 2	<p>Agfa.</p>
Box 14, Folder 3	<p>AnSCO.</p>
Box 14, Folder 4	<p>Eastman-Kodak.</p>
Box 14, Folder 5	<p>Gevaert.</p>
Box 14, Folder 6	<p>Ferrania.</p>
Box 14, Folder 7	<p>Articles: A systematic approach to the mass production of commercial super 8 prints. Design consideration for a high efficiency contact motion picture printer with magnetic sound transfer and monitoring.</p>
Box 14, Folder 7	<p>Technicolor display folder.</p>
Box 14, Folder 8	<p>"Rapid access methods in the U.S.," John H. Jacobs, article and bibliography.</p>
Box 14, Folder 9	<p>RR colorplus bibliography (first draft).</p>
Box 14, Folder 10	<p>Notebook: <i>colorvision: a new additive color system for motion picture photography.</i></p>
Box 14, Folder 10	<p>"Highlight and shadow transfer problems between film and television," Harold P. Field, given May 4, 1962.</p>
Box 14, Folder 11	<p>Catalogs and advertisements.</p>
Box 15, Folder 1	<p>Catalogs and advertisements. Physical Description: [50 items]</p>
Box 15, Folder 2	<p>Solarized stills and negatives. Physical Description: [22 items]</p>
Box 15, Folder 3	<p>Type of work executed on the Matipo-Color model "C-C" 1956</p>
Box 15, Folder 3	<p>"Safety factors in camera exposures," C.N. Nelson (July 1960).</p>
Box 15, Folder 3	<p>"Experiences with cooled color emulsions," Arthur A. Hoag.</p>
Box 15, Folder 3	<p>"Measuring photographic speed," J.L. Tupper.</p>
Box 15, Folder 4	<p>Graphs, charts, blueprints. Physical Description: [5 items]</p>
Box 15, Folder 5	<p>An experiment in 3mm.</p>
Box 15, Folder 6	<p>"Was ist solarisation?" [Gr.] Marta Hoepffner and negatives.</p>
Box 15, Folder 7	<p>"Alex J. Kovaleff's photos" by Guiseppe Turrone.</p>
Box 15, Folder 8	<p>Data on Polaroid color.</p>
Box 15, Folder 9	<p>Photographs and negatives. Physical Description: [15 items]</p>
Box 15, Folder 10	<p>Recommendations of the Association of Cinema Laboratories, Incorporated for the preparation of 16mm original material.</p>
Box 15, Folder 10	<p>A modern laboratory for 16mm film, Solow and Reichard (SMPTE).</p>
Box 15, Folder 11	<p>Price schedule, motion picture films for professional use (1968).</p>
Box 15, Folder 11	<p>SMPTE "test films."</p>
Box 15, Folder 12	<p>Film perforation.</p>
Box 15, Folder 13	<p>SMPTE television test film: operating instructions (July 1953). Scope and Content Note (2 high speed ektachrome motion picture films)</p>
Box 15, Folder 14	<p>Miscellaneous materials.</p>
Box 15, Folder 15	<p>Miscellaneous materials in foreign language.</p>

Lighting and Lamp Data

Box 16, Folder 1	The fundamentals of the xenon-high pressure arc lamp for motion picture projection.
Box 16, Folder 2	Zeiss-Ikon xenon installation and performance information.
Box 16, Folder 3	Xenon lamp; Bauer.
Box 16, Folder 4	Philips SSP pulsing discharge lamp.
Box 16, Folder 5	Xenon information; physics.
Box 16, Folder 6	Xetrex systems.
Box 17, Folder 1	"L'arc électrique intensif," J. Parisot (1950).
Box 17, Folder 2	<i>Journal of the SMPTE</i> article: "Now portable high intensity arc "spotlight," Russell J. Ayling (vol.53, October 1949).
Box 17, Folder 2	<i>Journal of the SMPTE</i> article: "A-C high intensity arc slide Projector," Arthur J. Hatch (vol.59, October 1952).
Box 17, Folder 3	Orsam [Gr.] (high pressure xenon lamp information booklets, specifications, etc.).
Box 17, Folder 4	First draft of an informational bulletin on light intenerator. "Lighting for high speed photography," P.T. Cahill (December 1954).
Box 17, Folder 5	Booklets: General Electric - florescent lamps.
Box 17, Folder 5	General Electric - mercury lamps.
Box 17, Folder 5	General Electric - incandescent lamps.
Box 17, Folder 5	General Electric - fundamentals of lights and lighting.
Box 17, Folder 6	Notebook: National (Union) Carbide Company, "National projector carbon bulletins."
Box 17, Folder 7	Photographs.
	Physical Description: [6 items]
Box 17, Folder 8	Charts, graphs, blueprints.
	Physical Description: [22 items]
Box 17, Folder 9	Material in foreign language (miscellaneous).
	Physical Description: [15 items]
Box 17, Folder 10	Sample of polacoat Lenscreen and standard diffusion screen; Polacoat rigid Lenscreen panel.
Box 17, Folder 11	General Electric Company, District conference paper, "Lighting for tomorrow's aircraft" (February 25, 1957).
Box 17, Folder 11	"A new heat-developable motion picture print film," Noel R. Bacon and Robert B. Lindemeyer. reprint from <i>Journal of SMPTE</i> (vol.73, March 1964).
Box 17, Folder 12	Instructional/Operational manuals.
	Physical Description: [12 items]
Box 18, Folder 1-12	Catalogs, pricelists, and advertisements.
Theater Screen Data	
Box 19, Folder 1	"More screen light from your equipment for drive-ins and large screens, both 3-D and 2-D," Paramount pictures Corporation (July 3, 1953).
	Physical Description: [2 copies]
Box 19, Folder 2	MPRC "Progress report on all-purpose theater screens" (August 5, 1953).
Box 19, Folder 3	Price list: Knox audio-visual projection screens.
Box 19, Folder 3	Bode screen company.
Box 19, Folder 3	Sample of Walker hi gain white screen.
Box 19, Folder 3	Porta pro screen advertisements.
	Physical Description: [2 copies]
Box 19, Folder 4	Data on the Walker Hi gain white screen.
Box 19, Folder 4	Vicra-lite lenticular screen advertisement and sample.
	Physical Description: [2 items]

Box 19, Folder 4	Radiant screen advertisements.
Box 19, Folder 4	Petros Vlahos, "Selection and specification of rear projection Screens." (December 15, 1960).
Box 19, Folder 5	"Report on screen brightness," SMPTE (December 1951).
Box 19, Folder 5	Screen brightness symposium, SMPTE, August 1953.
Box 19, Folder 6	Armin J. Hill, "Analysis of background process screens." SMPTE (July 1957).
Box 19, Folder 6	MPRC informational bulletin no.9A: Tilt and curvature requirements for the MPRC aluminum drive in screen. Petros Vlahos (May 22, 1957).
Box 19, Folder 6	MPRC informational bulletin no.6: Recommendations to projectionists for theater screen light checking procedure (July 3, 1953).
Box 19, Folder 6	MPRC: Directional motion picture screens.
Box 19, Folder 6	<i>Journal of SMPTE (vol.64):</i> Screen illumination as affected by projection lenses and projector optics, John R. Miles.
Box 19, Folder 6	Chart: total possible screen illumination with a Peerless cinearc.
	Physical Description: [2 copies]
Box 19, Folder 7	Miscellaneous materials, advertisements, etc.
	Physical Description: [7 items]
	American Standards Association
	Physical Description: [2 notebooks]
Box 20	Notebook re American standards on motion pictures.
Box 20	Notebook re ISO: international organization for standardization.
Box 21, Folder 1	Location and size of picture aperture of 8mm motion picture cameras.
Box 21, Folder 1	Dimensions for 16mm motion picture film, perforated 8mm, 2R-1500.
Box 21, Folder 1	Magnetic coating of 8mm motion picture film.
Box 21, Folder 1	[2 notebooks] re American standards.
	Miscellaneous Blueprints, Graphs, Charts, etc.
Box 22, Folder 1	Horizontal VistaVision projection width (Paramount engineering department).
Box 22, Folder 1	Zoom lens attachment, MGM Pacific optical (September 1, 1953) [hand].
Box 22, Folder 1	Verticle VistaVision .446 projection=1.85/1 for unified 1.66 top (Paramount).
Box 22, Folder 1	Data for VistaVision lens angles (Paramount).
Box 22, Folder 1	Verticle VistaVision, .497 projection=1.66/1 (Paramount).
Box 22, Folder 2	VistaVision 35mm (paramount).
Box 22, Folder 2	21.5s/35 VistaVision (Paramount).
Box 22, Folder 2	45.9s/75 VistaVision (Paramount).
Box 22, Folder 2	31.5s/50 VistaVision (Paramount).
Box 22, Folder 2	Depth contrast (Paramount).
Box 22, Folder 3	Leica camera blueprints.
	Physical Description: [2 items]
Box 22, Folder 3	Bausch and Lomb balter lens 40mm f/2.3.
Box 22, Folder 3	Bausch and Lomb balter lens 35mm f/2.3.
Box 22, Folder 3	Balter lens 50mm f/2.3: outside dimensions.
Box 22, Folder 3	Balter lens 75mm f/2.3: outside dimensions.
Box 22, Folder 4	51-17-55 Balter lens 100mm f/2.3: outside dimensions.
Box 22, Folder 4	Xenotar f/2.8 F=150mm (Paramount).
Box 22, Folder 4	Side elevation - stereo camera no.3.
Box 22, Folder 4	Collapsable periscope (Paramount).
Box 22, Folder 4	2 perf. Japanese projector.
	Physical Description: [2 items]
Box 22, Folder 5	Pulsing lens (Paramount).

Box 22, Folder 6	2 perf. television .450 × .337 safe action area. Physical Description: [3 items]
Box 22, Folder 6	2 perf. camera aperture + 2 perf. theatrical finder .839 × .358. Physical Description: [2 items]
Box 22, Folder 6	35mm television safe action area .757 ODX .565. Physical Description: [2 items]
Box 22, Folder 6	2 perf. television + theatrical finder .839 × .358; .450 × .337.
Box 22, Folder 7	Projector monitor meter box mounting platform (Technicolor motion picture corporation).
Box 22, Folder 7	Projector light intensity monitoring meter (Technicolor motion picture corporation).
Box 22, Folder 7	Projector monitor meter shield and lamp reflector (Technicolor motion picture corporation).
Box 22, Folder 7	Pos. assem. and viewing equip. glass and filter detail (Technicolor motion picture corporation).
Box 22, Folder 7	Projector light intensity monitoring meter box assembly (Technicolor motion picture corporation).
Box 22, Folder 8	Buzz track dimensions.
Box 22, Folder 8	Skip frame release print with optical sound; skip frame release print with magnetic sound.
Box 22, Folder 8	2 frame camera with verticle magazine (Beyer, March 2, 1954).
Box 22, Folder 9	Outline for Mitchell reflex sound blimp.
Box 22, Folder 10	Moveable window section for 35mm projector liquid gate. Physical Description: [18 items]

Box 23

Miscellaneous Blueprints, Graphs, Charts, etc.

Physical Description: (Unidentified Paramount materials)

Box 24

Miscellaneous blueprints, graphs, charts, etc.

Physical Description: (Unidentified materials)

Miscellaneous materials (Software)

Box 25, Folder 1	Notebook.
Box 25, Folder 2	Shoot and tape production method.
Box 25, Folder 3	Kurzmitteilungen, April 1966.
Box 25, Folder 3	Kurzmitteilungen, November 1966.
Box 25, Folder 4	Studio Hamburg information.
Box 25, Folder 5	Schlieron photography.
Box 25, Folder 6	Bavaria atelier gesellschaft MBH. Physical Description: [2 items]
Box 25, Folder 7	Lectures on physics, biophysics, and chemistry for high school teachers (1959).
Box 25, Folder 8	Envelope of Hong Kong and Tokyo trip material, March 1967.
Box 26, Folder 1	Envelope of exhibits from trip to Germany and England, January-February 1968.

Box 26, Folder 2	Hausmitteilungen. Physical Description: [45 items]
Box 26, Folder 3	U.S. department of commerce, "Electric current abroad," loose leaf notebook pages (50) "Film to monitor Black & White."
Box 26, Folder 3	Stewart, David C., "The study of motion pictures in colleges and universities," Educational record. vol.46, no.1, pp.33-67 Winter 1965 including bibliography. Physical Description: [2 copies]
Box 26, Folder 4	Bradner, Hugh, "Bubble chambers," 1960.
Box 26, Folder 5	Investigation and key committee file.
Box 26, Folder 6	Southern California chapter 1966 membership roster of the Society of Photographic scientists and engineers.
Box 26, Folder 6	Directory of members of the Optical society of Southern California 1967, Southern California section of the optical society of America.
Box 27, Folder 1	Bericht zur bekanntgabe des phonoscope systems and correspondence.
Box 27, Folder 2	Mitchell Camera Corporation. Physical Description: [5 stills]
Box 27, Folder 3	Silicone waxing for release prints.
Box 27, Folder 3	Picture flicker references; consolidated list, July 1950.
Box 27, Folder 3	D.&F. liquid heat reducing filter for 35/70mm motion picture projectors.
Box 27, Folder 3	Installation instructions for heat reducing filters.
Box 27, Folder 4	"High quality performance in TK-26 3-Vidicon film chains and how to get it," by T.J. Shipferling and H.N. Kozaowski.
Box 27, Folder 4	Beckam and Whitley division of technical operations, incorporated. "Preliminary design objective 35mm cine camera system," 1967.
Box 27, Folder 4	Academy of motion picture arts and sciences: Awards for scientific or technical achievements 1930-1966, list by category index.
Box 27, Folder 5	British cinematograph society, "Motion picture presentation manual."
Box 28	Miscellaneous. Physical Description: [50 items]

Catalogues, Brochures, & Manuals (Cameras and Projectors)

Box 29, Folder 1	Arri - Arriflex materials.
Box 29, Folder 2	Bauer.
Box 29, Folder 3	Beaulieu.
Box 29, Folder 4	Bell and Howell.
Box 29, Folder 5	Bolex.
Box 29, Folder 6	Chevereau magazines; Societe chevereau.
Box 29, Folder 7	André Debie.
Box 29, Folder 8	Eclair.
Box 29, Folder 9	Fairchild.
Box 29, Folder 10	Eastman.
Box 29, Folder 11	Kodak.
Box 30, Folder 1	La Vezzi.
Box 30, Folder 2	Maurer.
Box 30, Folder 3	Mitchell.
Box 30, Folder 4	Norelco.
Box 30, Folder 5	Philips.
Box 30, Folder 6	RCA.
Box 30, Folder 7	Simplex.
Box 30, Folder 8	Technicolor.
Box 31, Folders 1-4	Zeiss ikon.
Box 31, Folder 5	Miscellaneous catalogues and rental information.

Box 31, Folder 6 **Montiograph.**
Box 31, Folder 7 **Helmet camera and helicopter camera.**
Box 31, Folder 8 **Oxberry.**
Box 31, Folder 9 **Microtecnica.**
Box 31, Folder 10 **Askania.**

Catalogues, Brochures, & Manuals (Camera & Projectors) (Drive-In Equipment)

Box 32, Folder 1 **Tolana.**
Box 32, Folder 2 **Frieske and Hoepfner.**
Box 32, Folder 3 **Cinephon.**
Box 32, Folder 4 **Drive-in theater equipment.**
Box 32, Folder 5 **Century.**
Box 32, Folder 6 **Nippon Onkyo Seiki Company, Limited.**
Box 32, Folder 7 **Miscellaneous articles and advertisements.**
Box 32, Folder 8 **Miscellaneous photo clippings, photographs, etc.**
Box 32, Folder 9 **Miscellaneous blueprints.**
Box 32, Folder 10 **Miscellaneous photos, clippings, articles, etc.**

Catalogues, Brochures, & Manuals

Box 33, Folder 1 **Motiograph - mirrophonic sound systems equipment bulletin.**
Box 33, Folder 2 **Motiograph S3 & S4 stereophonic sound systems for S1 sound systems.**
Box 33, Folder 3 **Magnasync sound recording systems catalog.**
Box 33, Folder 3 **Magnatech electronic company product catalog.**
Box 33, Folder 3 **Bolex SM8.**
Box 33, Folder 4 **Ampex information kit.**
Box 33, Folder 4 **Magnecorder.**
Box 33, Folder 4 **RCA.**
Box 33, Folder 4 **Zeiss ikon.**
Box 33, Folder 5 **Simplex sound systems installation instructions.**
Box 33, Folder 5 **Operating instructions for Simplex XL single film stereophonic sound systems.**
Box 33, Folder 6 **Harwald sound equipment data.**
Box 33, Folder 6 **Philips sound equipment data.**
Box 33, Folder 6 **Westrex Philips sound equipment data.**
Box 33, Folder 7 **Meters.**
Box 33, Folder 8 **Lighting and lamps.**
Box 33, Folder 9 **Printers.**
Box 33, Folder 10 **Miscellaneous materials.**

Catalogues, Brochures, & Manuals (Television & Radio)

Box 34, Folder 1-4 **RCA instructional manuals.**
Box 35, Folder 1 **Ampex.**
Box 35, Folder 2 **Conrac.**
Box 35, Folder 3 **Philips.**
Box 35, Folder 4 **Reeves electronics.**
Box 36, Folder 1 **Eastman Kodak.**
Box 36, Folder 2 **Norelco.**
Box 36, Folder 3 **British Kinematography sound and television, SMPTE 103rd technical conference Los Angeles (vol.50, no.5, May 1968).**
Box 36, Folder 3 **BBC engineering division monograph.**
Box 36, Folder 4 **Studio Hamburg.**
Box 36, Folder 5 **Photo Research Corporation.**
Box 36, Folder 6 **Amega.**
Box 36, Folder 7 **W.A. Palmer Films, Incorporated.**
Box 36, Folder 8 **Miscellaneous materials.**

Catalogues, Brochures, & Manuals (Industrial)

Box 37, Folder 1 **Ampex: method of waveform testing pulse and bar - "K" factor.**
Box 37, Folder 1 **Abtronics product information.**

Box 37, Folder 2	Measurement and Data News. Physical Description: [4 issues]
Box 37, Folder 3	Information (Zeiss). Physical Description: [2 issues]
Box 37, Folder 4 Box 37, Folder 4 Box 37, Folder 5	Optical coating laboratory, Incorporated, "Creativity with thin film optical coating." Notebook. Photo-sonics Incorporated (descriptions, data, & prices). Physical Description: [3 notebooks]
Box 37, Folder 5	360 frames per second 70mm. Physical Description: [2 items]
Box 37, Folder 5 Box 37, Folder 6	16mm - 1B rotary prism recording camera brochure. Rolyn corporation manual of optics prepared for industry. Physical Description: [2 items]
Box 38, Folder 1 Box 38, Folder 1 Box 38, Folder 1 Box 38, Folder 1 Box 38, Folder 1 Box 38, Folder 1 Box 38, Folder 2	Tektronix instruction manual: cathode ray oscilloscope. Siemens - Universal oszillograph. Askania camera type 10850 for Askania cinetheodolites. Litton industries electron tube division model 1019 & A116. Design ideas reprint: "Optical system projects data on face of cathode ray tube." Fairchild oscilloscope camera. Aviation Week and Space Technology. Physical Description: [2 reprints]
Box 38, Folder 2	Giovanni scientific corporation flight research division, correspondence and materials.
Box 38, Folder 2 Box 38, Folder 2	EOTS equipment (electronic optical tracking system) booklet. Flight Research, Incorporated, data. Physical Description: [6 items]
Box 38, Folder 2 Box 38, Folder 2 Box 38, Folder 3	McDonnell aircraft photo - optical achievements; direct radar scope camera. "Charts show what man can endure in space." Image dynamics in science and medicine. Physical Description: [2 issues]
Box 38, Folder 3 Box 38, Folder 3 Box 38, Folder 3 Box 38, Folder 4	Bolex reporter, "Motion pictures in medicine/reseach." EMX electron microprobe X-ray analyzer. X-ray fluorescence and optical emisson. Society of photo-optical instrumentation engineers journal featuring high speed photography, 1970.
Box 38, Folder 4 Box 38, Folder 4	Beckman & Whitley, Incorporated - framing camera data. Photo-kinetics, Incorporated - "The most versatile rotating prism high speed motion picture cameras."
Box 38, Folder 4	Reprint of ISA transactions, 1966, "Introduction to high speed photographic instrumentation."
Box 38, Folder 4 Box 38, Folder 5 Box 38, Folder 5	Electro-optical instruments, Incorporated, Kerr cell framing cameras. Laser Technology, March 1968. Spectra physics gas laser model 130. Physical Description: [2 copies]
Box 38, Folder 5	Infared industries, Incorporated. Physical Description: [5 items]

Box 38, Folder 6 Box 38, Folder 7	Red lake laboratories, miscellaneous materials. Ealing optical services, 1968-1969. Physical Description: [Booklet]
Box 38, Folder 8 Box 38, Folder 8 Box 38, Folder 8	Recording cameras: Automax model G. Recording cameras: Agfa. Recording cameras: Cinerama camera Corporation. Physical Description: (16mm photographic recorder)
Box 38, Folder 8 Box 38, Folder 9	Recording cameras: Millipulse data recorder. Miscellaneous materials. Catalogues, Brochure, & Manuals (Lenses)
Box 39, Folder 1 Box 39, Folder 1 Box 39, Folder 1 Box 39, Folder 1 Box 39, Folder 2 Box 39, Folder 2 Box 39, Folder 3 Box 39, Folder 3 Box 39, Folder 3 Box 39, Folder 4 Box 39, Folder 4 Box 39, Folder 4 Box 39, Folder 5 Box 39, Folder 6 Box 39, Folder 7 Box 39, Folder 8	List of 16mm & 35mm camera lenses & 16mm projection lenses. Kowa. Questar. Goerz. Optical coating laboratory, Incorporated: Multilayer antireflection coating. Taylor, Hobson, and Cooke. Isco. Rodenstock. Möller. Hilux (Projection optics Company). Pacific optical. Kinoptik. Bausch and Lomb. Kollmorgen Corporation. Angenieux. Robert M. Lynn (Rolyn Company). Physical Description: [Envelope]
Box 39, Folder 8 Box 39, Folder 8 Box 39, Folder 9 Box 39, Folder 10 Box 39, Folder 10 Box 39, Folder 11	Zeiss. Leica. Schneider. Berthiot. Astro. Miscellaneous materials. Catalogues, Brochures, & Manuals (Assorted)
Box 40, Folder 1 Box 40, Folder 1 Box 40, Folder 2 Box 40, Folder 2 Box 40, Folder 3 Box 40, Folder 3 Box 40, Folder 3 Box 40, Folder 4 Box 40, Folder 5 Box 40, Folder 6 Box 40, Folder 6	Arri. Askania. Ampex. Evershed Power Optics Limited. Schneider. NCR (National cash register Company, electronics division). Philips: Audio video technik. Siemens. Leitz (notebook). Balzers. DAVI - San Diego convention, April 24-28, 1966. Physical Description: (Booklet)
Box 40, Folder 7 Box 40, Folder 8	Cenco audio-visual catalog. Miscellaneous materials. Correspondence, Flicker and Shutter Data, Miscellaneous Photographs & Negatives

Box 41, Folders 1-2	Correspondence and related miscellaneous materials.
Box 41, Folder 3	R. Howard Cricks, "Shutter efficiency and flicker," Ideal Kinema May 6, 1937.
Box 41, Folder 3	Karl Marbe, "Flicker theory," Die Kinotechnik, September 20, 1935.
Box 41, Folder 4	Blueprint: shutter characteristics (July 10, 1951). Physical Description: [2 copies]
Box 41, Folder 4	Blueprint: E-7 and super simplex double or rear single shutter alterations (June 16, 1952).
Box 41, Folder 4	Blueprint: XL simplex shutter alterations (May 16, 1952).
Box 41, Folder 4	Blueprint: Film flickering.
Box 41, Folder 5	Miscellaneous materials and blueprints.
Box 41, Folder 6	Miscellaneous negatives.
Box 41, Folder 7	Miscellaneous photographs.
	Miscellaneous Materials (Hardware)
Box 42, Folder 1	Panavision brightness meter.
Box 42, Folder 2	Film clippings.
Box 42, Folder 3	Philips cinema film length/showing time calculator.
Box 42, Folder 4	Sylvania theatre, television & photographic lamp rule.
Box 42, Folder 5	Hilux focal length rule.
Box 42, Folder 6	Consolidated film industries running time/ footage/ cost estimateor. Physical Description: [2 items]
Box 42, Folder 7	Kelly ciné calculator.
Box 42, Folder 8	Slides: Ashcraft lamp; Bauer dual film; Xenon doubles. Physical Description: [1 box]
Box 42, Folder 9	Bell and Howell electric eye slides. Physical Description: [1 box]
Box 43, Folder 1	Miscellaneous slides, transparencies, filmstrips etc. Physical Description: [1 box]
Box 43, Folder 2	Liquid gate transparencies. Physical Description: [3 items]
Box 43, Folder 3	Miscellaneous assorted film clippings. Physical Description: [1 can]
Box 43, Folder 4	Miscellaneous slides, re wide screen, drive-ins 70mm; project automation; turret. Physical Description: [1 box]
Box 43, Folder 5	35mm film leader, 1.5" roll. Physical Description: [in box]
Box 44, Folder 1	70mm film leader, 1" roll.
Box 44, Folder 2	Wood film splicer.
Box 44, Folder 3	Kodak wratten gelatin filters. Physical Description: [5 items]
Box 44, Folder 4	Colored gelatine for the theater school and community playhouse. Physical Description: [Booklet]
Box 44, Folder 5	Blue screen slides and transparencies. Physical Description: [1 box]

Box 44, Folder 6	Miscellaneous filmstrips. Physical Description: [1 box]
Box 44, Folder 7 Box 44, Folder 8	Syvannia lighting handbook, 1967. Miscellaneous diffusion materials. Physical Description: [4 items]
Box 44, Folder 9	Miscellaneous. Physical Description: [21 pieces]
	Slide Box
Box 45 Box 46	Universal city studios box no.1: 50 assorted transparencies. Universal studios box no.2: 48 assorted slides. Additional Miscellaneous
Box 47, Folder 1	ASC overlays for 1.85/1 - television - aspect ratio. Physical Description: [10 sheets]
Box 47, Folder 2	Overlays from Dr. Gerhardt: negative-positive vs. reversal. Physical Description: [Envelope with 5 sheets]
Box 47, Folder 3	Technical information bulletin for <i>Spartacus</i>. Physical Description: [18 copies]
Box 47, Folder 4 Box 47, Folder 5 Box 47, Folder 6 Box 47, Folder 7 Box 47, Folder 8	Blue transparent screen test data and materials. Color chart. Matte chart. Lecture notes. Memorandum and patent application (1964-1966). Oversize Materials Physical Description: (9 rolled charts, 9 charts, 1 envelope with 2 sheets of film)
Box 48, Folder 1 Box 48, Folder 2	Graph: proposed new wide screen system: Universal super 70. Blueprint: VistsVision standard single frame optical release print. Physical Description: [2 oversize]
Box 48, Folder 3 Box 48, Folder 4 Box 48, Folder 5	Blueprint: standard 16mm print from VistaVision negative. Blueprint: VistaVision double frame print (standard). Blueprint: VistaVision four track magnetic release print (on film with narrow perforations).
Box 48, Folder 6 Box 48, Folder 7 Box 48, Folder 8 Box 48, Folder 9 Box 48, Folder 10 Box 48, Folder 11	Blueprint: vistaVision double frame print: optical and magnetic sound (tentative). Blueprint: VistaVision double frame print: optical multi-track sound (tentative). MPRC resolution test chart (damaged). Photograph and negatives [2]. Charts and blueprints [2]. Unidentified materials. Physical Description: [6 items]