

Ernest Orlando Lawrence Berkeley National Laboratory Records Transmittal

Division Information & Computing Sciences	Department Information Resources	Archives and Records Office Use Only
Group Audio-Visual		Filing Code ARO-2137
Location 90 Basement 0027		LBLN Accession Date
Transferee Jim Halverson		FRC Accession No.
Head of Department		

Records Title

LBL Film Collection I Originals and Work Prints

Inclusive Date of Records

1939 1984

No of Containers

28 FRC Box

Brief description of records

AT NARA - College Park, MD
TRANSFER ID--TR-0434-2016-0175

Series of working and master copies of motion picture film documenting some of the major Laboratory events, discoveries and scientific inventions. Sound and silent footage. Series includes copies of original film made by Donald Cooksey describing the early Radiation Laboratory and film of E.O Lawrence, a Cyclotroneer song, comments on film by Edwin McMillan and Luis Alvarez; construction and closing of the 60-inch Cyclotron facility; visit of the Atomic Energy Commission to the Laboratory in 1951; Bevatron accelerator facility; major particle detector instruments, including the bubble chamber and film scanners; major biomedical and nuclear medical research and development (including scintillation camera and whole body counter); dedication of Latimer Hall and ceremonies commemorating the discovery of plutonium, mendelevium, californium, and berkelium. Various film presentations on Laboratory safety, energy efficiency research and development; local television science programs. Series includes interviews with early Radiation Laboratory pioneers. This series contains 170 rolls of films in 28 FRC boxes. Box 1 to box 25 are arranged in chronological order from 1939 to 1982. Boxes 26 and 27 contain small rolls of films (7 1/4" and 5") arranged in chronological order from 1962 to 1984. Box 28 contains three rolls of films with no specific arrangement.

Materials

Motion Picture Film - Graphic Arts - Sound Recordings

Records Retention

- Historically Valuable Documents. Do not destroy. A detailed folder listing is included with the Records Transmittal
- Destroy/Review on a scheduled basis with a minimum retention of _____ years. Disposal/Review Date: _____ Perm.

This is in accordance with:

- The National Archive General Retention Schedule. Citation _____ DOE/ADM/21/12/1
- The Department of Energy Retention Schedule. Citation _____

Disposal Authorization:

The legal retention of the records listed on this Records Transmittal has elapsed. Since I foresee no use of these records, I authorize their disposal.

Signature of Department Head

Date

Ernest Orlando Lawrence Berkeley National Laboratory

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Division Information & Computing Sciences	Department Information Resources	Filing Code ARO-2137
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Container **Of**

- Film Reel Canister 1 Jan 15, 1939, Cooksey describes early Laboratory history, tapes 1-8. [Digitized 10/08]
- Film Reel Canister 2 Jan. 1939, Cooksey 1/4" tape, 9-16, audio history. [Digitized 10/08]
- Film Reel Canister 3 Feb. 1, 1939, Construction of 60" and 184" cyclotron, Dr. Cooksey, 60" w/p B&W. [Digitized 7/08]
- Film Reel Canister 4 Jan. 16, 1939, Cooksey tapes on cassettes. [Digitized 10/08]
- Film Reel Canister 5 Jan. 17, 1939, 1/4" tapes - E.O. Lawrence - Cyclotron song, "A Cyclotronist Nightmare." [Digitized 10/08]
- Film Reel Canister 6 Jan. 18, 1939 Comments on old film McMillan, Alvarez, etc. - Seaborg dedication of plaza at Gilman Hall. [Digitized 10/08]

Container **Of**

- Film Reel Canister 1 Jan. 30, 1939, Construction of 60" Cyclotron etc. "Cooksey Film."
- Film Reel Canister 2 Oct. 8, 1940, Construction of the 184" Cyclotron.
- Film Reel Canister 3 Combination of four prints: a) 1 LINAC - 2 model 184", Reynolds; Cooksey - 3 biological studies. b) 1960-4-7 Bevatron-silent spliced c) 1955-1956 historical construction of building 70 d) 1962-7 closing ceremony 60" Cyclotron showing McMillan Cooksey...
- Film Reel Canister 4 Jan. 1951 16mm, AEC of Radiation Lab
- Film Reel Canister 5 2 stock footage: Bevatron, Bevatron operations & Bubble Chamber research.
- Film Reel Canister 6 72" Bubble Chamber operations design - development - use.

Container **Of**

- Film Reel Canister 1 1957-9... Bubble Chamber construction. w/p building + construction of building, 1958-1962 construction of additions to Bevatron.
- Film Reel Canister 2 Bubble Chambers & data analysis, old release print has been revised shows 10", 15" & 72" Bubble Chambers and associated equipment revision 1.
- Film Reel Canister 3 Jan. 1, 1960, Bubble chambers, data analysis, Bubble Chambers - walking, etc.

Ernest Orlando Lawrence Berkeley National Laboratory

Records Transmittal

Division Information & Computing Sciences	Department Information Resources	Filing Code ARO-2137
Group Audio-Visual		
Records Title LBL Film Collection I Originals and Work Prints		

- Film Reel Canister 4 Jan. 1, 1961, TV doctors conference, Donner construction of 88" Cyclotron etc.
- Film Reel Canister 5 Jan. 2, 1962, 30" Bubble Chamber, propane showing Bev. control room, external work on Bubble Chamber, Bevatron data analysis outs...
- Film Reel Canister 6 Nov. 1, 1962, Ternary phase diagram.
- Film Reel Canister 7 Light struct. for Cam test (no data, file with 1962 tapes).

Container **Of**

- Film Reel Canister 1 Jan. 1, 1963, Cyclotron irradiation of the pituitary.
- Film Reel Canister 2 July 1, 1963 (est), UCLRL 'the pituitary and the Cyclotron' master pic., 'A' + 'B' file, Dr. E. McMillan + Dr. Binze in control room of Bevatron.
- Film Reel Canister 3 Jan. 15, 1965, Acromegaly Outs and photosynthesis, Br. J. Lawrence and C. Tobias discuss as equipment, shots of 1984 Cyclotron exterior, patient treatment for acromegaly.
- Film Reel Canister 4 From Nov. 1, 1965, White's walk in space [Edward White, Gemini IV, first American in space June 3, 1965], counting whole body Radiation; winding copper coil for 27" Cyclotron, Scintillation camera.
- Film Reel Canister 5 Jan. 1, 1966, Misc. biomedical research.
- Film Reel Canister 6 Feb. 1, 1966, 25th anniversary discovery of Pu. Seaborg dedication of plaque in Gilman Hall.

Container **Of**

- Film Reel Canister 1 Feb. 1, 1966, 16mm mag. Acceptance speech Latimer Hall: Seaborg and others.
- Film Reel Canister 2 Feb. 11, 1966, Misc. field miscoscope, pan over top of Bev. uncovered looks, acromegaly patient shots, Dr. E. McMillan viewing parts of first synchro-cyclotron
- Film Reel Canister 3 Feb. 21, 1966, Seaborg speech
- Film Reel Canister 4 Feb. 21, 1966, Seaborg speech, Seaborg pu. dedication lecture in Latimer Hall.
- Film Reel Canister 5 Feb. 21, 1966, Seaborg speech
- Film Reel Canister 6 March, 1966, NASA space flight

Ernest Orlando Lawrence Berkeley National Laboratory

Records Transmittal

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Film Reel Canister 7 July, 1966, puzzle problem.

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Film Reel Canister 1 Oct. 11, 1966, Effects of Radiation on inner ear functions.

Film Reel Canister 2 Nov. 1966, Garth Thomas.

Film Reel Canister 3 Jan. 1967, Misc. NASA vestibular studies, monkey radiation on 184" Cyclotron, happy I balloon launch.

Film Reel Canister 4 March 7, 1967, UC Nobel Laureates.

Film Reel Canister 5 June 1, 1967, a beginning with end.

Film Reel Canister 6 June 1, 1967, a beginning without end.

Container **Of**

Film Reel Canister 1 June 1, 1967 Matching Prints

Film Reel Canister 2 Nov. 20, 1967, "Puzzle, Happy I"

Film Reel Canister 3 Jan. 1, 1968, Bio-Satellite B - Flower Beetles

Film Reel Canister 4 Feb. 28, 1968, Trip Steel

Film Reel Canister 5 Feb. 28, 1968, Trip Steel

Film Reel Canister 6 Oct. 20, 1968, First Chemical Separation of Lawrencium."

Container **Of**

Film Reel Canister 1 Nov. 11, 1968, 'Cobweb.'

Film Reel Canister 2 March 7, 1969, Dr. Seaborg's visit to LRL.

Film Reel Canister 3 March 7, 1969, Dr. Seaborg's TV Clip.

Folder 4 April 10, 1969, Work print and track on Seaborg.

Ernest Orlando Lawrence Berkeley National Laboratory

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Division Information & Computing Sciences	Department Information Resources	Filing Code ARO-2137
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Folder 5 Dec. 20, 1969, Nuclear Finger printing

Folder 6 April 14, 1970, Electrolysis current.

Container **Of**

Film Reel Canister 1 April 14, 1970, Dr. kamen/c-14 TV clip

Film Reel Canister 2 April 14, 1970, The hazards of lampcord.

Film Reel Canister 3 Nov. 1970, Out-takes from "photosynthesis."

Film Reel Canister 4 Jan. 15, 1971, controlled photosynthesis.

Film Reel Canister 5 Jan. 18, 1971, German TV, can 9.

Film Reel Canister 6 Jan. 18, 1971, german TV show, can 9.

Container **Of**

Film Reel Canister 1 Jan. 18, 1971, German TV show, can 10

Film Reel Canister 2 Jan. 18, 1971, German TV show, can 10

Film Reel Canister 3 Jan. 18, 1971, German TV show, can 11.

Film Reel Canister 4 Jan. 18, 1971, German TV show, can 11.

Film Reel Canister 5 Jan. 18, 1971, German TV show, can 12.

Film Reel Canister 6 Jan. 18, 1971, German TV show, can 12.

Container **Of**

Film Reel Canister 1 Jan. 18, 1971, German TV Show, Can 13

Film Reel Canister 2 Jan. 18, 1971, German TV Show, Can 13

Film Reel Canister 3 Feb. 1, 1971, Electron Ring Accelerator

Ernest Orlando Lawrence Berkeley National Laboratory

Records Transmittal

Division Information & Computing Sciences	Department Information Resources	Filing Code ARO-2137
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Records Title LBL Film Collection I Originals and Work Prints		

- Film Reel Canister 4 Sept. 15, 1971, Original Outs--"Sac-Fac"
 - Film Reel Canister 5 Aug. 1, 1972, Radiation Dynamics
 - Film Reel Canister 6 March 1, 1973, Earthquake Study
- Container** **Of**
- Film Reel Canister 1 June 1, 1973 Atomic Accelerator [1 of 3]
 - Film Reel Canister 2 June 1, 1973 Atomic Accelerator [2 of 3]
 - Film Reel Canister 3 June 1, 1973 Atomic Accelerator [3 of 3]
 - Film Reel Canister 4 Sept. 15, 1973, "Heat Engine" original - Ridgway Banks
 - Film Reel Canister 5 May 1, 1974, Earthquake bridge and rats, orig., w/p - UC Eng. Department, David Williams
 - Film Reel Canister 6 May 1, 1974, Earthquake bridge and rats, orig., w/p - UC Eng. Department, David Williams
- Container** **Of**
- Film Reel Canister 1 Oct. 1974 Tracey Yang X-Ray radiation of neurons
 - Film Reel Canister 2 Sept. 1974 Discovery of elem 106, Ghiorso, Hulet, Nitsche, others & Seaborg
 - Film Reel Canister 3 March 1, 1975 "Light Flashes" orig. Dt. Tom Buddinger
 - Film Reel Canister 4 March 15, 1975 Seaborg 25 anniversary discovery of Cf, Bk, etc. roll 2, 3000 orig. + 1/4" tape with sync tone
 - Film Reel Canister 5 July 1, 1975 Earthquake bridge BBC usage, orig. UC Eng. Dept David Williams
 - Film Reel Canister 6 July 21, 1975 Heat Engine (Norgreen) orig & w/p about 800' and 55 nitinol (test bed)
- Container** **Of**
- Film Reel Canister 1 1976, 25th Anniversary Discovery of Cf & Bk--LBL Conference
 - Film Reel Canister 2 March 1, 1977--Knowledge Through Research Orig Only--See card for subject

Ernest Orlando Lawrence Berkeley National Laboratory

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Division Information & Computing Sciences	Department Information Resources	Filing Code ARO-2137
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- Film Reel Canister 3 Aug. 1 1977, "Plate of Brass" and East Mesa, Geothermal Test Facility
- Film Reel Canister 4 Tape Recording: 1/4" of 25 Anniversary Discovery of Berkelium & Californium bk cf, Seaborg host (no date, file with 1977 films)
- Film Reel Canister 5 Jan. 23, 1978, 25th Anniversary Dis. of elements 99 & 100--1/4" sync. tape
- Film Reel Canister 6 Jan. 23, 1978, 25th Anniversary Dis. of elements 99 & 100--2,300' orig.

Container **Of**

- Film Reel Canister 1 Mailing elements, 'but best' (no date)
- Film Reel Canister 2 Jan. 23, 1978, Video transfer - KQED: Seaborg Etc., 'The Elements'
- Film Reel Canister 3 March 1978, Energy efficient buildings vent. walls, windows, lighting, etc.
- Film Reel Canister 4 March 2, 1978, 'Energy Efficient buildings lighting, ventilation, walls, envelope, survey', etc.
- Film Reel Canister 5 July, 1978, 'High Voltage angel' - original outs
- Film Reel Canister 6 LBL 'High Voltage' -outs catalog roll 8-23 (no date, file with 1978 films)
- Film Reel Canister 7 Lawrence Berkeley Laboratory--"Thesaurus Graphics," A-Roll B2-263

Container **Of**

- Film Reel Canister 1 Jan. 1979, Fire place - sync sound of b? explaining energy efficiency & home fire place research
- Film Reel Canister 2 March 1, 1979, Ventilation program
- Film Reel Canister 3 March 15, 1979, Ventilation program, grade school in Columbus, Ohio
- Film Reel Canister 4 Aerial views of LBL, 16mm color film enclosed: one roll original film, one roll workprint prop. of LBL / J. Halverson (no date)
- Film Reel Canister 5 July 1, 1979, Views of LBL, Helicopter views 'best have seen so far' - pans from Berkeley toward LBL about 400'. ECO shot for 'Driver Awareness' & general use.
- Film Reel Canister 6 August 1979, Work print outs from MM shows 'knowledge through research' 1/4 tape 'driver awareness', orig. outs.

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Container **Of**

- Film Reel Canister 1 Feb. 1, 1980. Ventilation--Minn Min. + W.C. Research House
- Film Reel Canister 2 Feb. 2, 1980, Work Print Outs, Energy Efficient Buildings
- Film Reel Canister 3 Feb. 15, 1980, Energy efficient Buildings Working Print Outs
- Film Reel Canister 4 Aug. 6, 1980, Mamet--MMRD Heat Electron Murography-stressed Steel-Audit 7
- Film Reel Canister 5 Aug. 25, 1980, Work Print, Fiedley, Minnesota and Walnut Creek House

Container **Of**

- Film Reel Canister 1 Jan. 1981 1/4 tapes discovery of mendelevium
- Film Reel Canister 2 Jan. 25 1981 Anniversary - discovery mendelevium
- Film Reel Canister 3 Feb. 1981 Si Parr - bio med. Tec Film
- Film Reel Canister 4 March 25, 1981 anniversary Californium & Berkelium
- Folder 5 March 31, 1981 Seaborg 25th Anniversary of discovery of Cf, Bk

Container **Of**

- Film Reel Canister 1 Sept., 1981, "Heritage" - w/p & mag. J. Lawrence.
- Film Reel Canister 2 Sept., 1981, LBL "Heritage" tapes.
- Film Reel Canister 3 Sept., 1981, 'Stan Livingston, LBL 50 th anniversary interview,' 1. W.P./edit 2. Mag voice 3. Org ECO
- Film Reel Canister 4 Sept., 1981, 1/4" tape Narration-Chuck Leavy-1/4" sync tape Alvarez
- Film Reel Canister 5 Sept., 1981, 14" sync tapes: Alvarez (3), J. Lawrence (1of 2).

Container **Of**

- Film Reel Canister 1 Sept. 1981, F. Oppenheimer s/s, W. Salisbury, BF0000

Ernest Orlando Lawrence Berkeley National Laboratory

Records Transmittal

Division Information & Computing Sciences	Department Information Resources	Filing Code ARO-2137
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- Film Reel Canister 2 Sept. 1981, Interviews: de Bridgo/J. Brady
- Film Reel Canister 3 Sept. 1981, Interview: Martin Kamen
- Film Reel Canister 4 Sept. 1981, 1/4" Tapes of Interviews A1-4
- Film Reel Canister 5 Sept. 1981, Sync Tapes 1/4" of Interviews A5-A8

Container **Of**

- Film Reel Canister 1 Snell, BF0000, Sep 81, Heritage, 16 mm., Two reels in one canister
- Film Reel Canister 2 Mag Wild Sound, Interviews, 16 mm, Sept 81:
 - 1. Unlabelled
 - 2. Brady vo
 - 3. Brady R. T.
 - 4. DuBridge vo
 - 5. DuBridge R. T.
 - 6. Kamen vo
 - 7. Kamen R. T.
 - 8. Livingston vo
 - 9. Livingston R. T.
 - 10. Oppenheimer vo
 - 11. Oppenheimer R. T.
 - 12. Salisbury vo
 - 13. Salisbury R. T.
 - 14. Snell vo
- Film Reel Canister 3 Interviews, Original, Rolls, 9-11-12-13-14, 16 mm, Sep 81:
 - 1. 8 DuBridge, 10 Livingston (crossed out) 13- LBL R 9 & 10
 - 2. James Culp Heritage LBL 11-12-14 (Livingston lost part 400' reviewed by R. Jaeger, 1/30/82
 Two reels in one canister
- Film Reel Canister 4 R.Jaeger; LBL, Livingston- 16mm Pos Original, Livingston Interview Sep 81, 35mm and 2 Audio tapes:
 - 1. Original- Do Not Project, Dr. Livingston, Prop. of LBL
 - 2. Tape A-10, Livingston, Heads Out, L-2, 1-3, WILD, L-4, (started as L-5), (no L-5), L-6, L-7, L-8, XTAL, 10/4/81
 - 3. Tape A-11, Livingston, L9, 10, 11, 12, 13, 14 R. T. and Salisbury S-1, S-2, S-3, XTAL, 10/4/81
- Film Reel Canister 5 Pub Roll 2 Interviews, 2 rolls, 16 mm, Sep 81: Interview- Culp cut these out of interview rolls for the purpose of make a video transfer- F. Oppenheimer, M. Kamen, J. Brady

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Container **Of**

- Film Reel Canister 1 Sept., 1981, Outs from matching.
- Film Reel Canister 2 Sept., 1981, Original outs from matching.
- Film Reel Canister 3 Sept., 1981, Heritage - merge, news reel w/p & track 16mm + 35mm.
- Film Reel Canister 4 Sept., 1981, Rolls 1 to 4 interviews
- Film Reel Canister 5 Sept., 1981, Alvarez original & scanned.

Container **Of**

- Film Reel Canister 1 Heritage, Sep. cut w/p & 16 mag protection (no date file with Sept., 1981 films).
- Film Reel Canister 2 Sept., 1981, "Heritage," w/p outs.
- Film Reel Canister 3 Sept., 1981, rolls 5 of 8 interviews-original.
- Film Reel Canister 4 Sept., 1981, outs from matching - Alvarez
- Film Reel Canister 5 Sept., 1981, Pub roll 1 interviews.

Container **Of**

- Film Reel Canister 1 Sept. 1981 Sync tapes 1/4" of interviews 9, -12, 13
- Film Reel Canister 2 Oct. 1981 1/4 Multimedia show 1
- Film Reel Canister 3 Oct. 1981 1/4 Multimedia show
- Film Reel Canister 4 Feb. 1982 Seaborg interview sync sound w/p & 16 mag.
- Film Reel Canister 5 March 1982 Tobias sync & cu Seaborg, 1/4" tape

Container **Of**

- Film Reel Canister 1 March 1982, Seaborg interview 1,2,3 Don Eveng, EH&S

Ernest Orlando Lawrence Berkeley National Laboratory

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- Film Reel Canister 2 April, 1982 Tobias interview w/p & 16mm mag.
- Film Reel Canister 3 Tobias (no date)
- Film Reel Canister 4 Acromegaly, production 501 (no date)
- Film Reel Canister 5 Glenn Seaborg sync sound Shot April 1982
- Film Reel Canister 6 LBL "Multi-Media" A.B. + Mag -L-

Container **Of**

- Film Reel Canister 1 UC/LBL geothermal Buffalo Valley (no date)
- Film Reel Canister 2 Heavy particle radiation (no date)
- Film Reel Canister 3 Biosatellite B: post-flight analysis (no date)
- Film Reel Canister 4 First chemical separation of element 104 (no date)
- Film Reel Canister 5 First chemical separation of element 104 (no date)
- Film Reel Canister 6 Heat Engine, 55 nitinol test bed (no date)
- Film Reel Canister 7 Operation of 30" propane chamber at Bevatron Dr. Wilson Powell - about 1960 - 63 shows Bev. control room exterior and bubble chamber
- Film Reel Canister 8 March 16, 1962 Extraction of monkey's tooth
March 23, 1962 Spark Chamber
- Film Reel Canister 9 April 1963 Connection in low gravitation field polissar
- Film Reel Canister 10 April, 1963 Flying spot digitizer
- Film Reel Canister 11 April 1963 "Quest"
- Film Reel Canister 12 April 1963 Flying spot digiter: missing
- Film Reel Canister 13 LBL Jim Halverson--Comp. Sound Track, "High Voltage Angel," LBL, LBL "High Voltage" Mag Work Print
- Film Reel Canister 14 982-8266--LBL--"High Voltage" A&B Rolls--Cue Sheet

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- Film Reel Canister 15 Koehl/Lawrence Berkeley Lab--"DNA Simulation" Cut Workprint
- Film Reel Canister 16 LBL Gas Particles--A Roll + Ans. Pt.--B-2 #142
- Film Reel Canister 17 [Unlabeled]
- Film Reel Canister 18 [Unlabeled]
- Film Reel Canister 19 [Unlabeled]

Container 27 **Of** 28

- Film Reel Canister 1 April, 1965, Frozen Monkey
- Film Reel Canister 2 April, 1966, Studies of Some Liquid Drop Surface effects
- Film Reel Canister 3 Jan. 1968, Trip Steel
- Film Reel Canister 4 Jan. 1969, Puzzle
- Film Reel Canister 5 Jan. 1969, Spiral Reader
- Film Reel Canister 6 Feb. 1969, Electrolyte Films on Metal Surfaces
- Film Reel Canister 7 May 1973, Nobel Prize Winners
- Film Reel Canister 8 May 1977, Orig Banks
- Film Reel Canister 9 Nov. 1982 Five Test of a Glove Box
- Film Reel Canister 10 Nov. 1982 Color and B&W Infrared Film Orig. Film Dexter Masoletti shot #59474-594976
- Film Reel Canister 11 Nov. 1982, Head & Vibration Test Fusion Dump
- Film Reel Canister 12 Sept. 1984, TBSV
- Film Reel Canister 13 Oct. 1984, 72-Inch Bubble Chamber
- Film Reel Canister 14 Lawrence Berkeley Lab--Heritage 16 MM Mag Track
- Film Reel Canister 15 LBL "Heritage" A & B Orig.--7390, 814', 11-18-83

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Container **Of**

- | | |
|--------------------|---|
| Folder | 1 Graphic for Element 106 Film, Seaborg--Small Charts/Graphic for Technical Report Film |
| Film Reel Canister | 2 Dec. 9, 1960, Wood Glove Box Fire Tests |
| Film Reel Canister | 3 Dec. 9, 1960, Wood Glove Box Fire Tests |
| Film Reel Canister | 4 March 23, 1966, Gemini VI Film |
| Film Reel Canister | 5 Happe 3/4 Captive Balloon Launch, Color, 18 mins, 6501 |
| Film Reel Canister | 6 6834 |
| Film Reel Canister | 7 TASALS, Optical, 27 mins. |
| Film Reel Canister | 8 TASALS, Magnetic, 20 mins. |
| Film Reel Canister | 9 HEAD--W/P--[ori. inside this roll]--1-March-66 Parkinson Patient Walking |
| Film Reel Canister | 10 UCRL Tag 8B Donner Lab Master Pic. (PFH) HEADS |
| Film Reel Canister | 11 First Chem. Sep. LU--1380--89889--Atomoc Sythesis--#03712 |