

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number [434-90-0020]
2. LBL Accession Number 13-11-14
3. Location 6884 [NARA: 761364]
4. Division/Department or Research Group

LBL DIRECTOR'S OFFICE  
Business Manager

5. Description of Records

a. Record Title

R&D Administration Records. DC 1946 - 1957.  
"Projects & Buildings - Radiological Warfare. 1947." \*

b. Record Media

MIC (TEX)

c. Dates

1947

d. Size of Records

Cubic Feet 1 Folder  
Number of Units Roll 2 (65-70): [1 of 26].  
Dimension of Records

e. Arrangement

Series arranged chronologically, then by subject heading (e.g., Weapons Program).

No specific arrangement within folder.

f. Security Classification

Declassified.

g. Creating Individual or Organizational Unit

Biology and Medicine (?)

h. Series Description

The entire R&D Administrative Records series consists of correspondence, progress reports, personnel lists, accounting and purchasing memoranda pertaining to a wide range of Laboratory administrative activities. Those activity areas include major instrumentation (LINAC, Bevatron, etc.), buildings, research programs and projects (including nuclear weapons program); requisition of experimental materials; and personnel hours and travel time.

\*Relevant documents include study papers, a report, and memorandum concerning products as radiological weapons. See titles list attached.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

F.C. McLean, M.D.  
Col. John H. Hinds.  
William Manning.

j. Organizational Name(s) Reference

6. Test Data

a. Test Operation

Crossroads

b. Location

Bikini

c. Assignment

Radiological warfare project.

d. Organizational Responsibilities

e. Staff Position/Responsibilities

Biomedical; study of radiobiological effects and applications of  
nuclear fission products as radiological weapons.

Notes

R&D Administration Records. Business Manager.

MIC Roll 2 (65-70).

"Projects & Buildings: Radiological Warfare."

Research study papers.

"Notes on Biological & Medical Considerations."  
F.C. McLean, M.D. May 1948.

"Biological Aspects of Radiological Warfare."  
William Manning. Defense Considerations.  
May 1948.

Memorandum.

"Radiological Fission Products for Possible  
Applications in Radiological Warfare..."

Report.

"Desirable Characteristics of Radiological  
Weapons..." Col. John H. Hinds.  
(Mentions decontamination at Bikini.)

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number [434-90-0020]
2. LBL Accession Number 13-11-14
3. Location 6884 [NARA: 761384]
4. Division/Department or Research Group

LBL DIRECTOR'S OFFICE  
Business Manager.

5. Description of Records

- a. Record Title R&D Administrative Records. DC 1954.  
Folder Title: 1. "Project Whitney - Air Research - Project Sherwood  
Program: Health & Safety-Fallout."  
2. "Project Whitney - Health & Safety. Medical."  
b. Record Media 3. "Project Whitney - Personnel - Military." \*

MIC (TEX; MAP)

c. Dates

1954

d. Size of Records

Cubic Feet

Number of Units 4 folders; Roll 9 (279, 282) [Box 21 of 26]

Dimension of Records

e. Arrangement

Series arranged chronologically, then by subject (e.g., Weapons Program).

f. Security Classification

Declassified.

g. Creating Individual or Organizational Unit

LRL Business Manager's Office.

h. Series Description

The entire R&D Administrative Records series consists of correspondence, progress reports, personnel lists, accounting and purchasing memoranda pertaining to a wide range of Laboratory administrative activities. Those activity areas include major instrumentation (LINAC, Bevatron, etc.), buildings, research programs and projects (including nuclear weapons program); requisition of experimental materials; and personnel hours and travel time.

\* Relevant documents include a progress report concerning AeroJet's proposed cloud-sampling device; distribution lists; map of NPG and test operations plan; and memorandum concerning radiological safety at NPG. List of items attached.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

Frank Willig, UCRL Test Manager  
V.C. Smith

j. Organizational Name(s) Reference

Lawrence Radiation Laboratory.  
Ree Co.

6. Test Data

a. Test Operation

Buster-Jangle: Sugar Test

b. Location

NPG  
Eniwetok (PPG)

c. Assignment

d. Organizational Responsibilities

e. Staff Position/Responsibilities

Test Manager, LRL.  
Radiological Safety.

Notes

Roll 9. Project Sherwood Program. "Health & Safety - Fallout." 1954.

Folder

Contents

"Air Research."

Progress report concerning proposed cloud-sampling device by AeroJet, 1954.

"Health & Safety. Medical."

UCRL medical health and reporting procedures - Eniwetok, Feb. 1954. Tests of NPG, July 1954. "Experimental Hydrodynamic Group Tests & NPG."

Operation Sugar test plan; installation by ReeCo; test directed by Frank Willig, LRL.

Memorandum. V.C. Smith. Radiological safety at NPG.

Roll 9. "Project Whitney - 1954.

"Personnel-Military-1954."

Personnel list, Livermore site; agreements of AEC/DOD.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number [434-90-0020]
2. LBL Accession Number 13-11-14
3. Location 6884 [NARA: 761387]
4. Division/Department or Research Group

LBL DIRECTOR'S OFFICE  
Business Manager.

5. Description of Records

- a. Record Title R&D Administrative Records. DC 1946-1957.

Folder Title:

1. "Project Whitney - 1956. Air Sampling."	4. "Special Materials - 1956."
2. "Tests - NTS."	5. "Tests: Non-Military Uses. Project Plowshare 1956."
3. "Tests - Redwing."	6. "Work for Others."

- b. Record Media

MIC (TEX)

- c. Dates

1956

- d. Size of Records

Cubic Feet

Number of Units 6 Folders; Roll 10 (379, 416, 425, 433, 441).

Dimension of Records

[Box 24]

- e. Arrangement

Series arranged chronologically, then by subject (e.g., Weapons Program).

- f. Security Classification

Unclassified.

- g. Creating Individual or Organizational Unit

LBL Business Manager's Office.

- h. Series Description

Administrative correspondence concerning development of air sampling project at Altamont (Livermore), CA; transportation to NTS, housing, etc. Also memoranda, agreements, and correspondence concerning NTS operations; shipment of radioactive materials; waste handling.

See list of items.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

James Born, M.D.

j. Organizational Name(s) Reference

Naval Radiological Defense Laboratory (NRDL). Hunters Point, CA.  
LRL Business Services.

6. Test Data

a. Test Operation

b. Location

Berkeley & San Francisco (Hunters Point).

c. Assignment

d. Organizational Responsibilities

Atmospheric testing; transportation to and from NTS; housing;  
materials shipment and decontamination.

e. Staff Position/Responsibilities

Notes

Roll 10. Project Whitney - 1956.

<u>Folder</u>	<u>Contents</u>
1. "Air Sampling"	Requisition of equipment for Altamont, CA air sampling project; transportation & housing, NTS; agreements.
2. "Tests - NTS"	Correspondence re: Nevada operations, administrative organization outline.
3. "Tests-Redwing."	Cost reports.
4. "Special Materials-1956."	Draft report and memorandum re: shipment of radioactive materials and waste handling.
5. "Tests - Non-military uses- Project Plowshare-1956."	Memorandum, drawings, and cost calculation papers referring to thermonuclear detonation meetings.
6. "Work for Others." "NRDL Program."	Letter of James Born, M.D., LRL-Livermore head of medicine and biology, concerning outside (Laboratory) dosimetry levels; NRDL.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number [434-90-0157]
2. LBL Accession Number 13-11-14
3. Location 6884 [NARA: 761365]
4. Division/Department or Research Group

LRL DIRECTOR'S OFFICE.  
Business Manager.

5. Description of Records

a. Record Title

R&D Administrative Records. 1958-1963.  
Folder Title: See attached list.

b. Record Media

MIC (TEX; MAP)

c. Dates

1956, 1958

d. Size of Records

Cubic Feet

Number of Units Reel 12 (256, 325)

Dimension of Records

e. Arrangement

Series arranged chronologically, then by subject (e.g., "Weapons Program.")

f. Security Classification

Unclassified.

g. Creating Individual or Organizational Unit

LRL - Nevada & Livermore  
Business Services

h. Series Description

The entire R&D Administrative Records series consists of correspondence, progress reports, personnel lists, accounting and purchasing memoranda pertaining to a wide range of Laboratory administrative activities. Those activity areas include major instrumentation (LINAC, Bevatron, etc.), buildings, research programs and projects (including nuclear weapons program); requisition of experimental materials; and personnel hours and travel time.

Descriptive list of items attached.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

Sam Kelly, Jr.  
Robert Hennecke  
John Long  
John Winn  
Wana Allerton

j. Organizational Name(s) Reference

Cooper Development Corp.

6. Test Data

a. Test Operation

1. Hardtack (1958). Millrace.
2. Redwing (1956).
3. Plowshare Program: Gnome & Chariot Projects.

b. Location

NTS  
PPG

c. Assignment

d. Organizational Responsibilities

Test organizations; business and administrative services.

e. Staff Position/Responsibilities

Notes

Folder

Contents

1. "Tests - Non-Military Uses -  
General Correspondence.  
Project Plowshare - 1958." Memorandum regarding underground test program.  
Project papers: "Projects Gnome & Chariot -  
Corresp."; "Operational Concept of the Test  
Director."
2. "Weapons Program - 1958 -  
NTS." Memo; accounts chart; staff list.
3. "Tests - General Correspondence." Hardtack.
4. "Tests - Hardtack - U.N.  
Observer Program."  
Cooper Development Corp. Progress Reports.
5. "Tests - NTS - General  
Correspondence. ]958." NTS - test organization chart.
6. "Weapons Program - Tests.  
NTS - Millrace. Telegrams; memoranda regarding planned  
limited observer programs.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number [434-90-0157]
2. LBL Accession Number 13-11-14
3. Location 6884 [NARA: 761367]
4. Division/Department or Research Group  
LBL DIRECTOR'S OFFICE.  
Business Manager.
5. Description of Records
  - a. Record Title R&D Administrative Records, 1958 - 1963.  
Folder Title: See Descriptive List.
  - b. Record Media  
MIC (TEX)
  - c. Dates  
1959
  - d. Size of Records  
Cubic Feet 4 Folders.  
Number of Units Reel 13 (492); Reel 14 (55,90,104); [Box 4]  
Dimension of Records
  - e. Arrangement  
Series arranged chronologically, then by subject (e.g., "Weapons Program.")
  - f. Security Classification  
Unclassified.
  - g. Creating Individual or Organizational Unit  
Business Office/LRL Field Offices.
  - h. Series Description  
The entire R&D Administrative Records series consists of correspondence, progress reports, personnel lists, accounting and purchasing memoranda pertaining to a wide range of Laboratory administrative activities. Those activity areas include major instrumentation (LINAC, Bevatron, etc.), buildings, research programs and projects (including nuclear weapons program); requisition of experimental materials; and personnel hours and travel time.

Descriptive list of relevant documents attached.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

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j. Organizational Name(s) Reference

6. Test Data

a. Test Operation

1. Millrace - Hardtack II
2. Plowshare Program: Gnome & Chariot Projects.

b. Location

NTS  
Eniwetok - PPG

c. Assignment

d. Organizational Responsibilities

LRL personnel administration; contracted research.

e. Staff Position/Responsibilities

Notes

Weapons Program - 1959

<u>Reel</u>	<u>Folder</u>	<u>Content</u>
13 [492]	"Program Plowshare - General Correspondence Test."	Gnome Operation Plan; Chariot Field Organization Chart; operating procedures and responsibilities.
14 [55]	"Weapons Program - 1959 - Nevada Test Site."	Personnel list; LRL personnel policies for NTS assignments; compensation for NTS duty.
14 [90]	"Weapons Program - Millrace-Hardtack II." Stanford Research list.	Proposed research on Operation Gnome.
14 [104]	"Weapons - Tests - Eniwetok Proving Ground. 1959."	Funding & costs.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number [434-90-0205]
2. LBL Accession Number 13-11-14
3. Location LBL: 6884 [NARA: 401999-40200]
4. Division/Department or Research Group

LBL DIRECTOR'S OFFICE  
Business Manager.

5. Description of Records

- a. Record Title R&D Administrative Records. DC 1964.  
Folder Title: "Weapons Program - Rand Corp. - General Corp. - 1964"\*  
"Weapons Program - Tests - Pacific Proving Ground - 1964"\*  
"Weapons Program - Nevada Test Site - Gen'l Correspondence"\*

b. Record Media

MIC (TEX)

c. Dates

1964

d. Size of Records

Cubic Feet 3 Folders

Number of Units Roll 24 (87, 196, 38) [TEX: Boxes 4&5] 12 p.

Dimension of Records

e. Arrangement

Series arranged chronologically, then by subject heading (e.g., "Weapons Program"). Lists arranged alphabetically by surname.

f. Security Classification

Unclassified

g. Creating Individual or Organizational Unit

Lawrence Radiation Laboratory - Livermore/Business Services

h. Series Description

The entire R&D Administrative Records series consists of correspondence, progress reports, personnel lists, accounting and purchasing memoranda pertaining to a wide range of Laboratory administrative activities. Those activity areas include major instrumentation (LINAC, Bevatron, etc.), buildings, research programs and projects (including nuclear weapons program); requisition of experimental materials; and personnel hours and travel time.

\* Relevant documents include lists of personnel assigned to NTS & PPG (includes duty dates, classification). Also includes a list of personnel (Rand Corp.?) contracted for LRL projects, including study of nuclear weapons effects. Memorandum in Rand Corp. folder lists LBL, PPG, health physicists transferred

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

SEE lists: approximately 100 names.  
Leonard G. Mark; W.B. Reynolds, Business Office (LRL).

j. Organizational Name(s) Reference

LRL - Livermore Business Services and Field Services.  
Various LRL-L Divisions  
Rand Corporation

6. Test Data

a. Test Operation

Plowshare Program period.

b. Location

PPG: Hawaii, Johnston, Barber's Point.

c. Assignment

Test Division  
Physics Dept. Contract.

d. Organizational Responsibilities

Various operational and advisory PPG tasks.  
Nuclear weapons design, calculations, effects data (Rand).

e. Staff Position/Responsibilities

SEE lists. Include mechanical engineering, physics, test operation, electrical engineering, chemistry, hazards control, procurement, graphic arts, director's office.

Notes

SEE photocopies of records.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number [434-90-0205]
2. LBL Accession Number 13-11-14
3. Location [NARA: 402005]
4. Division/Department or Research Group

LBL DIRECTOR'S OFFICE  
Business Manager [Administration].

5. Description of Records

- a. Record Title R&D Administrative Records. DC 1965.

Folder Title: 1. "Tests - Weapons Program, 1965.  
Pacific Proving Ground (Operation Roundup)."\*

b. Record Media

TEX

c. Dates

1965

d. Size of Records

Cubic Feet

Number of Units 1 Folder (Box 10 of 48). 11 p.

Dimension of Records

e. Arrangement

Series arranged chronologically [e.g., DC (Year)], then by subject.  
List arranged alphabetically by surname.

f. Security Classification

Unclassified.

g. Creating Individual or Organizational Unit

Business Manager's Office, LRL.

h. Series Description

The entire R&D Administrative Records series consists of correspondence, progress reports, personnel lists, accounting and purchasing memoranda pertaining to a wide range of Laboratory administrative activities. Those activity areas include major instrumentation (LINAC, Bevatron, etc.), buildings, research programs and projects (including nuclear weapons program); requisition of experimental materials; and personnel hours and travel time.

\* Relevant documents include lists of LRL staff tour of duty at PPG, including names, department, duty station, and duty time.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

SEE Photocopies

j. Organizational Name(s) Reference

Lawrence Radiation Laboratory

6. Test Data

a. Test Operation

Roundup

b. Location

PPG

c. Assignment

Honolulu, Hawaii  
Johnston Island  
Barber's Point

d. Organizational Responsibilities

e. Staff Position/Responsibilities

LRL: L-Division  
Chemist  
B Division  
M.E.

K-Division  
Elec. Eng.  
Weapons

Graphic Arts  
Security  
Procurement

A-Division  
Hazards Control

Notes

SEE attached copies of records.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number ----
2. LBL Accession Number 16-5-44
3. Location Archives Vault
4. Division/Department or Research Group

LBL DIRECTOR'S OFFICE  
Director Ernest O. Lawrence

5. Description of Records

- a. Record Title Ernest O. Lawrence, Scientist's Papers, [1928] - 1968.  
University of California.

Folder Title: "Los Alamos Laboratory, 1943-1954."

- b. Record Media  
MIC (TEX)

- c. Dates

1943 - 1954

- d. Size of Records

Cubic Feet ----

Number of Units Total of 36 reels (original: 50 cartons).

Dimension of Records Reel #1 (original: Box 2)  
(Counter-071)

- e. Arrangement

Arranged alphabetically by subject, then chronologically within subject folder.

- f. Security Classification

Unclassified.

- g. Creating Individual or Organizational Unit

E.O. Lawrence, Helen Griggs.  
DIRECTOR'S OFFICE.

- h. Series Description

Microfilm of original textual records of Dr. E.O. Lawrence, founder and first director of the Radiation Laboratory, renamed the Lawrence Radiation Laboratory after his death. The records present detailed documentation of Lawrence's life, projects, and career, and instruments, including the cyclotrons, of the Laboratory. The collection includes correspondence (letters, telegrams, telephone transcripts), reports, newsclippings, notes, expense records, experimental notebooks. Letter, Carroll L. Tyler to E.O. Lawrence re:UCRL radiation monitoring of personnel, Jan 25, 1952. Also includes a letter of appreciation to Hugh Bradner and Herbert York, UCRL, from Frederick Reines, Director, Project 1, Operation Greenhouse, 26 May 1951.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

Ernest O. Lawrence  
Hugh Bradner  
Frederick Reines  
Herbert York

j. Organizational Name(s) Reference

U.C. Radiation Laboratory  
Joint Task Force 3

6. Test Data

a. Test Operation

Greenhouse

b. Location

PPG

c. Assignment

Task Force 3.1

d. Organizational Responsibilities

e. Staff Position/Responsibilities

(Reines) Director, Project 1, Operation Greenhouse, Task Force 3.1.

Notes

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number ----
2. LBL Accession Number 16-5-44
3. Location Archives Vault
4. Division/Department or Research Group

LBL DIRECTOR'S OFFICE.  
Director Ernest O. Lawrence.

5. Description of Records

a. Record Title Ernest O. Lawrence, Scientist's Papers, [1928] - 1968.  
Atomic Energy Commission.

b. Record Media  
MIC (TEX)

c. Dates

1947-50

d. Size of Records

Cubic Feet

Number of Units Roll #2 [058]. counter no. 058, 076, 078, 083.

Dimension of Records

e. Arrangement

Arranged chronologically within subject heading.

f. Security Classification

Unclassified.

g. Creating Individual or Organizational Unit

Director's Office.

h. Series Description

Microfilm of original textual records of Dr. E.O. Lawrence, founder and first director of the Radiation Laboratory, renamed the Lawrence Radiation Laboratory. The records present detailed documentation of Lawrence's life and career, and the development and administration of the Laboratory as well as projects and machines, e.g., cyclotrons. The collection includes correspondence, reports, newsclippings, notes, expense records.

See attached list of records pertinent to this survey.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

Ernest O. Lawrence.  
Carroll L. Wilson.  
James McCork.  
Robert S. Stone, M.D.  
Shields Warren.

j. Organizational Name(s) Reference

Joint AEC-Dept of Defense Radiological Warfare Panel.  
AEC Division of Biology and Medicine.  
U.S. Army Medical Dept.

6. Test Data

a. Test Operation

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b. Location

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c. Assignment

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d. Organizational Responsibilities

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e. Staff Position/Responsibilities

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Notes

h. Series Description (continued from Title Page)

Primarily general correspondence concerning the AEC.

Letter, AEC Joint AEC-DOD-Radiological Warfare Panel, June 27, 1950.  
Carroll L. Wilson. Also May 15, 1948, Brig. General James McCork.

Beryllium Oxide Production - Radiation Effect on staff member.  
Atomic weapons handbook.

Letter, Robert S. Stone, M.D., to Shields Warren, AEC Division of  
Biology and Medicine re: projects and proposed expansion of radio-  
biological studies.

Folder: "AEC 1947"

Army Medical Dept. "Training in Medical Aspects of Atomic Weapons,"  
Aug. 26, 1947. Walter J. Williams to Carroll L. Wilson.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number ----
2. LBL Accession Number 16-5-44
3. Location Archives Vault
4. Division/Department or Research Group

LBL DIRECTOR'S OFFICE  
Director Ernest O. Lawrence.

5. Description of Records

a. Record Title Ernest O. Lawrence: Scientist's Papers, [1928]-1968.  
U.C. Radiation Laboratory Records.\*

b. Record Media

MIC (TEX)

c. Dates

1947-1958

d. Size of Records

Cubic Feet

Number of Units 36 reels total (original: 50 cartons). Reel #4.

Dimension of Records

e. Arrangement

In the U.C. Radiation Laboratory Records, the series is arranged chronologically within subject area (i.e., "Livermore Laboratory.").

f. Security Classification

Unclassified.

[& Classified - "Box 99"]

g. Creating Individual or Organizational Unit

E.O. Lawrence, Helen Griggs.  
DIRECTOR'S OFFICE.

h. Series Description

Microfilm of original textual records of Dr. E.O. Lawrence, founder and director of Radiation Laboratory, renamed the Lawrence Radiation Laboratory. The records present detailed documentation of Lawrence's life and career, and the development, administration, and projects of the Laboratory. The collection includes correspondence (letters, telegrams, telephone transcripts), reports, newsclippings, notes, expense records, experimental notebooks.

The Lawrence Radiation Laboratory records were kept in series covering major subject.

\*See attached inventory of records relevant to this survey.



h. Record Description

<u>MIC Reel No.</u>	<u>Counter</u>	<u>Original Box No.</u>	<u>Folder Title</u>	<u>Contents</u>
4	005	3	"Livermore Laboratory, 1949-1958."	<p>Cover memorandum &amp; proposal. D.J. Leehey. "Proposed Organiza- tion for Continental Tests." Vern Denton To E.O. Lawrence.</p> <p>"Functional Statements for Proposed Continental Test Organization," draft, July 20, 1954. Santa Fe Operations. Includes organization chart.</p> <p>Letter, Brig. Gen. Leland S. Stranathan, USAF, to E.O. Lawrence re: assignment of "Liaison officers from Armed Forces Special Weapons Project to Project Whitney." [1953]</p> <p>Letter, John C. Bugher, M.D., AEC, to E.O. Lawrence, Oct. 23, 1952. Re: Div. of Bio. Medicine of AEC Project Fallout studies planned at NTS, 1952. Includes personnel List for Project Whitney. See Photocopies.</p> <p>"Radiation &amp; Man." Preliminary agenda. 7/1957.</p>
4			"Livermore Laboratory- Hydrogen Bomb."	<p>E.O. Lawrence &amp; Edward Teller statement on nuclear tests, Nov. 4, 1956. Letters of concerned scientists regarding disarmament and fall- out. Call for better detection methods. Norris Bradbury, LASL.</p>
4			"Livermore Laboratory- Tests, 1946-1967."	<p>Newsclippings on PPG, 1958. Announcement of Hardtack, Sept. 23, 1957. Nuclear Testing Program--Fallout government program. 1957.</p> <p>Chart: "Average Environmental External Whole Body Radiation," p. 3-4 ("Projected Fallout"). Instructions on full scale nuclear test operation, 1957. Restricted statements. Eniwetok, 17 Sep 1956. Operation Redwing re: security badge of E.O. Lawrence, Sept. 25, 1956.</p>

h. Record Description

<u>MIC Reel No.</u>	<u>Counter</u>	<u>Original Box No.</u>	<u>Folder Title</u>	<u>Contents</u>
4	015	3	"Livermore Laboratory Tests, 1946-1967."	<p>Re: Photographs which E.O. Lawrence took at Eniwetok, July, 1956. Gerald Wagashi to Donald Cooksey, July 3, 1956.</p> <p>C.L. Blue. Letter re: Task Force itinerary, 1956.</p> <p>Passenger List, May 5, 1956-- Special Air Mission, including observers Lawrence, and U.C. Regents Feston, Hager, Hanson, and UC Vice Pres. Corley. Shot cancelled.</p> <p>Declassification memo. re: Redwing information, May 15, 1956.</p> <p>Agreement between AEC and DOD on PPG operations responsibilities.</p> <p>U.S. Naval Radiological Defense Lab, S.F. Letter, R.A. Hinnners to E.O. Lawrence. re: James F. Ball and Carl L. Lindeken, members of Radiological Safety Task Force 7.3.</p>
4	---	3	"Livermore Laboratory Tests, 1947-1967."	<p>AEC, Spring 1955, Santa Fe, NM. Continental Test Announcement (Teapot, staff appointments).</p> <p>Organization chart, Teapot, 1955. directives, Donald J. Leehey, Mgr. Test Mgr. Office, NTS, list of UCRL-Livermore personnel.</p> <p>Memorandum, E.O. Lawrence to Herbert York re: recommendation of Duane Sewell as UCRL representative to Test Mgr. Advisory Panel, Operation Teapot, 18 Jan 1955.</p> <p>Organization charts. "Functional Statements for Joint Test Organization, Operation Teapot." Dec.15, 1954. Santa Fe Operations.</p>

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number -----
2. LBL Accession Number 16-5-44
3. Location Archives Vault
4. Division/Department or Research Group

LBL DIRECTOR'S OFFICE  
Director Ernest O. Lawrence.

5. Description of Records

- a. Record Title Ernest O. Lawrence, Scientist's Papers, [1928]-1968.  
General Record Files.

Folder Title: "Aebersold."

- b. Record Media

MIC (TEX)

- c. Dates

1949

- d. Size of Records

Cubic Feet -----

Number of Units 36 reels total (original: 50 cartons). Reel #6.

Dimension of Records

- e. Arrangement

Arranged alphabetically by subject.

- f. Security Classification

Unclassified.

- g. Creating Individual or Organizational Unit

Ernest O. Lawrence, Director's Office.

- h. Series Description

Microfilm of original textual records of Dr. E.O. Lawrence, founder and first director of the Radiation Laboratory, renamed the Lawrence Radiation Laboratory after his death. The records provide detailed documentation of Lawrence's life, projects, and career, and the development, administration, and scientific projects and instruments of the Laboratory. The collection includes correspondence (letters, telegrams, telephone transcripts), reports, newsclippings, articles, notes, expense records, and experiment notebooks.

See attached folder list.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

Donald Cooksey.  
Ernest O. Lawrence.  
Stafford Warren.

j. Organizational Name(s) Reference

AEC Division of Biology & Medicine.  
Dept. of Air Force.

6. Test Data

a. Test Operation

b. Location

c. Assignment

d. Organizational Responsibilities

e. Staff Position/Responsibilities

Notes

Continued from Page 1, h. Series Description.

Roll 6; counter 053. Folder: "Aebersold, Paul."  
(original: Box 1)

Contents: Letter, Stafford Warren, AEC, to Donald Cooksey, UCRL, referring to Dr. Warren on the radioisotope distribution for biological scientific uses.

064: Resume.

068: Folder: "Air Force, U.S. Dept." Letter referring to dosimetry use.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number -----
2. LBL Accession Number 16-5-44
3. Location Archives Vault
4. Division/Department or Research Group

LBL DIRECTOR'S OFFICE  
Director Ernest O. Lawrence

5. Description of Records

a. Record Title Ernest O. Lawrence, Scientist's Papers, [1928]-1968.  
General Record Files.\*

b. Record Media

MIC (TEX)

c. Dates

1968

d. Size of Records

Cubic Feet -----

Number of Units 37 reels total (original: 50 cartons)

Dimension of Records Roll#11 (09)

e. Arrangement

Alphabetically by subject or correspondent.

f. Security Classification

Unclassified.

g. Creating Individual or Organizational Unit

E.O. Lawrence. Director's Office.

h. Series Description

Microfilm of original textual records of Dr. E.O. Lawrence, founder and first director of Radiation Laboratory, renamed the Lawrence Radiation Laboratory. The records present detailed documentation of Lawrence's life and career, and the development, administration, and scientific projects and instruments, including the cyclotrons, of the Laboratory. The collection includes correspondence (letters, telegrams, telephone transcripts), reports, newsclippings, notes, expense records, and experiment notebooks.

\*Folder, "Hamilton, Joseph G., General" contains letter concerning Joseph Hamilton's records and their location. These records include Project Gabriel data, Crossroads data, 1945-1948, Radiological Warfare Chemistry Corps correspondence and reports, 1947-54.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

Ernest O. Lawrence  
Joseph G. Hamilton  
Patricia Durbin

j. Organizational Name(s) Reference

Radiological Warfare Chemistry Corps.  
U.C. Radiation Laboratory.

6. Test Data

a. Test Operation

(Hamilton records: Project Gabriel, Crossroads).

b. Location

PPG

c. Assignment

-----

d. Organizational Responsibilities

e. Staff Position/Responsibilities

(Hamilton) Director, Project 48A. & Crocker Radiation Laboratory.

Notes

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number ----
2. LBL Accession Number 16-5-44
3. Location Archives Vault
4. Division/Department or Research Group

LBL DIRECTOR'S OFFICE.  
Director Ernest O. Lawrence.

5. Description of Records

a. Record Title Ernest O. Lawrence. Scientist's Papers, [1928] - 1958.  
General Files.

b. Record Media

TEX (MIC)

c. Dates

d. Size of Records

Cubic Feet

Number of Units Roll 15: 1 Folder. [counter 056].

Dimension of Records

e. Arrangement

f. Security Classification

g. Creating Individual or Organizational Unit

h. Series Description

Folder 26, "Naval Radiological Defense Lab - SF" contains letters, reports, curriculum list of USN Joint Interim Schools Subcommittee of the "Radiological Safety Training Committee Armed Forces Special Weapons Project."

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

j. Organizational Name(s) Reference

6. Test Data

a. Test Operation

b. Location

c. Assignment

d. Organizational Responsibilities

e. Staff Position/Responsibilities

Notes

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number ----
2. LBL Accession Number 16-5-44
3. Location Archives Vault
4. Division/Department or Research Group

LBL DIRECTOR'S OFFICE  
Director Ernest O. Lawrence.

5. Description of Records

a. Record Title Ernest O. Lawrence, Scientist's Papers, [1928] - 1968.  
Manhattan Project.

b. Record Media  
MIC (TEX)

c. Dates  
1947, 1952, 1954, 1956.

d. Size of Records  
Cubic Feet  
Number of Units Roll #34. 4 folders.  
Dimension of Records

e. Arrangement  
By subject, then chronological.

f. Security Classification  
Declassified from Secret; unclassified.

g. Creating Individual or Organizational Unit  
Director's Office.

h. Series Description  
Progress Reports and proposals, lists, and correspondence pertaining to Manhattan Engineering District - Atomic Energy Commission projects at the Radiation Laboratory or involving Laboratory staff.

Pertinent Folders include the following records:

h. Series Description (from Title Page)

<u>Folder Title</u>	<u>Contents</u>
"Research Program of the Radiation Laboratory, U.C., Oct. 1, 1947."	"Biological and Medical Research at the 60-Inch Cyclotron, U.C. Hospital, Donner Laboratory." List and description of biological effects.  Cover Letter, Oct. 14, 1952.  "Progress Reports on Project Whitney." John Flaherty, Military Applications Division to E.O. Lawrence.  Letter, Dec. 30, 1952. Carroll Tyler, USAEC, to E.O. Lawrence. "Operations Future at Nevada Proving Grounds." Proposed thermonuclear research at Berkeley and Livermore, 1953-1954.  Letter, July 2, 1954. E.C. Shute, AEC, to E.O. Lawrence. Planning approval for Teapot.  Letter, May 27, 1954, William Brobeck to T.H. Johnson, Director of Research, AEC. William Brobeck's acceptance of membership on the Sherwood Project Steering Committee.  Cover Letter & distribution list. Donald J. Leehey, Test Manager. "Test Organization for Teapot." Aug. 13, 1954.  Letters, agenda, and participants list of the Sherwood Conference. Classification guide, 1956.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number 434-89-0034
2. LBL Accession Number 19-1-5
3. Location 322464, 322465, 322466.
4. Division/Department or Research Group

LBL DIRECTOR'S OFFICE  
Manhattan Engineering District.

5. Description of Records

- a. Record Title R&D Project Case Records. Reynolds.  
Manhattan Engineering District, 1939-1946.  
Folder Title: "Site X Individual Employee Folders."\*  
A-K, 1944-45
- b. Record Media K-W, 1944-45  
Y-Z, 1944-45

TEX

c. Dates

1944-1945

d. Size of Records

Cubic Feet

Number of Units 15, 16, 17, of 46

Dimension of Records

e. Arrangement

Relevant folders arranged alphabetically. (Overall series lacks specific arrangement.)

f. Security Classification

Unclassified (Classified documents removed)

g. Creating Individual or Organizational Unit

Director's Office.  
W.B. Reynolds, Business Manager.

h. Series Description

Series contains administrative records for the Manhattan Engineering District (MED). The Lawrence Radiation Laboratory administered a substantial portion of MED business operations. The records consist of personnel lists; general correspondence, cyclotron log books; engineering drawings and plans; engineering and scientific notebooks of key project members; administrative forms, minutes and project status reports. The primary projects pertain to Site X (Oak Ridge) and some records pertaining to Site Y (Los Alamos).

Classified files have been removed to LLNL.

\*Relevant documents consist of ORNL employee records, including name, location, classification, dept., transfer of severance. Also memoranda concerning travel and request forms.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

SEE folder.  
Various.

j. Organizational Name(s) Reference

Oak Ridge National Laboratory  
Manhattan Engineering District.  
University of California Radiation Laboratory.

6. Test Data

a. Test Operation

b. Location

Oak Ridge  
Los Alamos  
Berkeley

c. Assignment

Project X  
Project Y

d. Organizational Responsibilities

e. Staff Position/Responsibilities

Various - SEE folder.

Notes

Although these records do not directly relate to NTS or PPG, they may prove useful in identifying the early career of employees stationed at NTS and PPG.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

RECORDS OF  
OCCUPATIONAL HEALTH DIVISION  
Environmental Health and Safety

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number 434-90-0112
2. LBL Accession Number 8-7-2
3. Location 443423-443432
4. Division/Department or Research Group  
ENGINEERING. OCCUPATIONAL HEALTH.  
Environmental Health & Safety.  
Dosimetry Office.
5. Description of Records
  - a. Record Title Radiation Contamination Control Program Records. 1943-1971.
  - b. Record Media TEX, PHO.
  - c. Dates  
1946-1952
  - d. Size of Records  
Cubic Feet  
Number of Units  
Dimension of Records
  - e. Arrangement  
Chronologically and Building Number (rough arrangement).
  - f. Security Classification  
Unclassified.  
Restricted.
  - g. Creating Individual or Organizational Unit  
Personnel Dosimetry Office.
  - h. Series Description  
Electroscope (pocket) dosimeter records, including neutron and gamma film badge readings for LBL, Crocker Laboratory, and Livermore facility staff. Records are grouped by building or accelerator site or type of radiation reading. Includes dust samples, film, and dosimetry office reports.  
  
Series also includes some Nevada Test Site records which have been listed on a separate form. This form lists only those records referring to radiation monitoring and exposure standards:  
  
Box 2: "Rules & Procedures Concerning Radioactive Substances and Associated Hazards," 9/26/46. William Sullivan.  
Box 4: "Logbooks of Standards," 1952. Binder.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

Various Research Groups in accelerator, physics, and chemistry.  
William Sullivan  
H.F. Ballinger  
B. Newman  
P. Howe

j. Organizational Name(s) Reference

Donner Laboratory.	Cowell Hospital, UCSF.
Crocker Laboratory.	(Lawrence) Radiation Laboratory; LRL-Livermore.
Oak Ridge Laboratory.	Electronics Maintenance. Cyclotron; Inspection Technician Crew.

6. Test Data

[See additional survey form for Nevada records].

a. Test Operation

b. Location

c. Assignment

d. Organizational Responsibilities

e. Staff Position/Responsibilities

Notes

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number 434-90-0104
2. LBL Accession Number 25-6-3
3. Location 73365
4. Division/Department or Research Group  
ENGINEERING DIVISION  
Occupational Health  
Environmental Health & Safety -- Personnel Dosimetry Office

5. Description of Records

- a. Record Title Personnel Exposure Dose Records, 1937-1986.  
Folder Title:
  1. "Nevada Records." [1957-1963]
  2. "Palm Film." [1972-1978]
  3. "Film Calibration Log." [Standards, 1959]

b. Record Media

~~TEXT~~

c. Dates

d. Size of Records

Cubic Feet 3.5 total  
Number of Units SEE Box 4 of 4  
Dimension of Records

e. Arrangement

Boxes 1-3 arranged chronologically; box 4 lacks arrangement.

f. Security Classification

Secret & Restricted changed to Unclassified.

g. Creating Individual or Organizational Unit

Personnel Dosimetry Office (PDO).

h. Series Description

Workbooks, lists, reports and cover letters of dosimetry monitoring program of the Lawrence Radiation Laboratory. The workbooks contain radiation dosage data of employees from 1937 through 1986 as well as monitoring equipment calibrations; notes and standards of data interpretation.

\*Records especially pertinent to this survey are the Nevada Test Site dosimetry readings of personnel. The "Palm Film" folder lists employee data and dose readings for 1972-1978. The dosimeter users list (1958-1962), includes NRDL (Naval Radiological Defense Laboratory) dosimetry readings per employee at Crocker Laboratory, San Francisco and the NRDL, 1958-1960. "Nevada Records" folder (1957-1963) consists of dosimetry records for Redwing & Dominic operations. Also a binder, entitled "Notes explaining the start dates on individual personnel pages." Extensive photocopies of personnel

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

SEE personnel lists.  
Duane Sewell.

j. Organizational Name(s) Reference

U.C. Radiation Laboratory - Livermore and Berkeley.  
Headquarters, Jt. Task Force Eight, Redsafe Branch.  
Atomic Energy Commission, Germantown; MD.  
Atomic Energy Commission, Nevada Operations.  
U.S. Naval Radiological Defense Laboratory, S.F.

6. Test Data

a. Test Operation

Redwing            Teapot  
Dominic  
Wigwam

b. Location

NTS

c. Assignment

Shot -1, -2, -3 (1954); Tare

d. Organizational Responsibilities

Various

e. Staff Position/Responsibilities

Various

Notes

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number 434-90-0213
2. LBL Accession Number 25-7-5
3. Location 12799823
4. Division/Department or Research Group

FACILITIES MANAGEMENT.  
Medical Services.

5. Description of Records

a. Record Title Individual Health Case Files & Medical Records  
of Retired Employees, ca. 1936 - 1970.

b. Record Media

TEX

c. Dates

1944-1962.

d. Size of Records

Cubic Feet 2

Number of Units

Dimension of Records

e. Arrangement

Alphabetical by surname.

f. Security Classification

Unclassified.

g. Creating Individual or Organizational Unit

Medical Services.

h. Series Description

Medical records and case files consisting of correspondence, forms, examination and employee medical history records. Includes preemployment physical examinations, disability and retirement examinations.

Included in the record series are case files on radiation exposure, physical injury, contamination poisoning (e.g., beryllium). Employee medical history includes insurance, accident and medical reports, etc. Miscellaneous folders include blood counts of employees, listed by name, for 1937-1942, and radiochemical assays readings, 1944-1960. Folder list available. Last folder contains photocopy of Seymoor, Jablon and Joseph Belsky, Atomic Bomb Casualty Commission, "Radiation Induced Cancer in Atomic Bomb Survivors." 7 April 1970, Xth International Cancer Congress.

See attached page.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

R. Lowry Dobson, M.D.  
Gardner, Eugene.  
Hamilton, Joseph.  
McAdams, Thomas\*  
Simpson, Albert J.

Brewer, Leo.  
Gilles, Paul.  
DeJulio, James.\*\*  
McLaughlin, Ralph.  
Conway, John (1954).

Others.

j. Organizational Name(s) Reference

Los Alamos Scientific Laboratory.  
U.C. Lawrence Radiation Laboratory - Chemistry Bldg.  
Nevada Test Site\*

6. Test Data

a. Test Operation

----

b. Location

NTS - [McAdams only]

c. Assignment

----

d. Organizational Responsibilities

----

e. Staff Position/Responsibilities

----

Notes \*McAdams, Thomas, b. 1915, listed as working at NTS, 1962 (1 folder);  
Simpson, Albert J., longshoreman on ship Joe E. Mann, 1954 (2 folders).  
\*\*DeJulio, James (machinist) died from radioberyllium poisoning, 1961.  
He worked on MED atomic bomb project at Los Alamos.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number 434-90-0213
2. LBL Accession Number 25-7-5
3. Location 12799823
4. Division/Department or Research Group

FACILITIES MANAGEMENT.  
Medical Services.

5. Description of Records

a. Record Title Individual Health Case Files & Medical Records  
of Retired Employees, ca. 1936 - 1970.

b. Record Media

TEX

c. Dates

1944-1962.

d. Size of Records

Cubic Feet 2

Number of Units

Dimension of Records

e. Arrangement

Alphabetical by surname.

f. Security Classification

Unclassified.

g. Creating Individual or Organizational Unit

Medical Services.

h. Series Description

Medical records and case files consisting of correspondence, forms, examination and employee medical history records. Includes preemployment physical examinations, disability and retirement examinations.

Included in the record series are case files on radiation exposure, physical injury, contamination poisoning (e.g., beryllium). Employee medical history includes insurance, accident and medical reports, etc. Miscellaneous folders include blood counts of employees, listed by name, for 1937-1942, and radiochemical assays readings, 1944-1960. Folder list available. Last folder contains photocopy of Seymoor, Jablon and Joseph Belsky, Atomic Bomb Casualty Commission, "Radiation Induced Cancer in Atomic Bomb Survivors." 7 April 1970, Xth International Cancer Congress.

See attached page

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

R. Lowry Dobson, M.D.	Brewer, Leo.	Others.
Gardner, Eugene.	Gilles, Paul.	
Hamilton, Joseph.	DeJulio, James.**	
McAdams, Thomas*	McLaughlin, Ralph.	
Simpson, Albert J.	Conway, John (1954).	

j. Organizational Name(s) Reference

Los Alamos Scientific Laboratory.  
U.C. Lawrence Radiation Laboratory - Chemistry Bldg.  
Nevada Test Site\*

6. Test Data

a. Test Operation

----

b. Location

NTS - [McAdams only]

c. Assignment

----

d. Organizational Responsibilities

----

e. Staff Position/Responsibilities

----

Notes \*McAdams, Thomas, b. 1915, listed as working at NTS, 1962 (1 folder);  
Simpson, Albert J., longshoreman on ship Joe E. Mann, 1954 (2 folders).  
\*\*DeJulio, James (machinist) died from radioberyllium poisoning, 1961.  
He worked on MED atomic bomb project at Los Alamos.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

NUCLEAR SCIENCE DIVISION RECORDS

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number -----
2. LBL Accession Number 10-1-76
3. Location In process of transfer to NARA - Washington & microfilm copy:
4. Division/Department or Research Group Pacific-Sierra. Classified: DOE Hqtr.

NUCLEAR CHEMISTRY  
Glenn T. Seaborg.

5. Description of Records

a. Record Title General Records, 1943-1954.

Folder Titles: 1. "Operation Ivy-Heavy Nuclides in Bomb Debris." 11/1952.  
2. "Test Bulletins & Test Summaries." 1961-1969.  
3. "Relation Between Plowshare & Test Ban." 9/1966.

b. Record Media 1 & 3. PRM (J-17508)  
2. TEX

c. Dates 1952-1969

d. Size of Records

Cubic Feet

Number of Units

Dimension of Records 3 folders

e. Arrangement

-----

f. Security Classification

Official & Secret.

g. Creating Individual or Organizational Unit

Glenn T. Seaborg.

h. Series Description

Technical report, J-17508, "Heavy Nuclides in Bomb Debris, Operation Ivy." 1953-1962; Test Bulletins & Test Summaries; Memorandum.

[Series requires proper archival appraisal & description for identification of records pertinent to this survey.]

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

-----

j. Organizational Name(s) Reference

Atomic Energy Department (DOE).

6. Test Data

a. Test Operation

Ivy

b. Location

c. Assignment

d. Organizational Responsibilities

e. Staff Position/Responsibilities

Notes History Associates, Inc. - ReeCo. Inventory No. GSGF002-0004  
GSGF001-0032  
GSGF002-0003  
GSGF003-0021

SEE: h. Series Description.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

44-38861-1000  
44-38861-1000

PHYSICS DIVISION

2.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number ----
2. LBL Accession Number ----
3. Location The Bancroft Library. 74/89.
4. Division/Department or Research Group  
PHYSICS DIVISION.  
Burton J. Moyer.
5. Description of Records
  - a. Record Title Correspondence and Papers of Burton J. Moyer.
  - b. Record Media TEX; MAP.
  - c. Dates 1949 - 1970 (Box 1 only)
  - d. Size of Records

Cubic Feet	4.5 total
Number of Units	5 cartons total.
Dimension of Records	
  - e. Arrangement  
No arrangement.
  - f. Security Classification  
Unclassified. Classified documents have been removed by DOE (D. Arons).
  - g. Creating Individual or Organizational Unit  
Burton J. Moyer.
  - h. Series Description  
Carton No. 1 only. Record series consists of travel requests and authorization forms, conference agendas, draft research articles concerning radiation shielding (1959) and measurements, experimental research papers related to high energy physics and particle acceleration; reprints; NAL experimental proposal (1970).

Folder entitled "Neutron Dosimetry Data" contains the following documents pertinent to this survey: (See Attached Page)

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

R. Wallace.

B. Moyer.

W.S. Snyder

J. Neufeld.

j. Organizational Name(s) Reference

Lawrence Radiation Laboratory.

Oak Ridge National Laboratory.

6. Test Data

a. Test Operation

-----

b. Location

-----

c. Assignment

-----

d. Organizational Responsibilities

-----

e. Staff Position/Responsibilities

-----

Notes



LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

RECORDS OF  
RESEARCH MEDICINE AND RADIATION BIOPHYSICS DIVISION

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number ----
2. LBL Accession Number 10\*\*\*6
3. Location ? [LBL Building 74B, Room 101; LLL Site 300 for Classified Doc?]
4. Division/Department or Research Group  
RESEARCH MEDICINE AND RADIATION BIOPHYSICS  
(Biology & Medicine - Crocker Laboratory)  
Joseph G. Hamilton

5. Description of Records

a. Record Title

Technical Administrative Records - Dr. Joseph G. Hamilton.  
See attachments for folder list.

b. Record Media

TEX

c. Dates

1941-1957

d. Size of Records

Cubic Feet 1  
Number of Units 1  
Dimension of Records

e. Arrangement

f. Security Classification

Unclassified & Classified

g. Creating Individual or Organizational Unit

h. Series Description

Correspondence and report files of Dr. Hamilton, pertaining to technical and administrative concerns, primarily connected with defense, MED, and other governmental projects. Chief among the projects were the radiological and metabolic studies of nuclear fission products at the Crocker Laboratory, and the Trinity and Crossroads test operations.

SEE "File Contents" List. Series included research notebooks of animal studies, reports on fission products, radiological warfare, autoradiography, Crossroads and other test data.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

Joseph G. Hamilton.  
Unknown until further review.

j. Organizational Name(s) Reference

MED Project 48A	Los Alamos Scientific Laboratory
Crocker Laboratory	Clinton (Oak Ridge) Laboratory
U.C. Radiation Laboratory	
Metallurgical Laboratory. University of Chicago.	

6. Test Data

a. Test Operation

Trinity;  
Operation Crossroad.

b. Location

Berkeley; Los Alamos; Chicago; Knoxville, TN.

c. Assignment

Project NDP - 48A; Projects Gabriel & Rand.

d. Organizational Responsibilities

Defense Research. After WWII, Dr. Hamilton's group participated in the Bikini tests of 1946 and advised the U.S. Navy on the decontamination of ships exposed to nuclear explosives. Hamilton became chair of the Advisory Committee on Radioactive Warfare, U.S. Army Chemical Corps. The Crocker Lab studied the biological effects of fission products and radioactive aerosols.

e. Staff Position/Responsibilities

Directed, conducted, and reported on radiological studies of exposed biological systems under MED/AEC Contract NDP - 48A and National Defense Research Committee Contracts.

Notes

Attached are photocopies of correspondence concerning the search for the location and transfer of Joseph G. Hamilton's records. Selected letters found in the John H. Lawrence Papers, Ernest O. Lawrence Papers, and Archives and Records accession record.

LAWRENCE BERKELEY LABORATORY  
NUCLEAR TEST AND FALLOUT RECORDS

Division: Biomedical  
(Research Medicine & Radiation Biophysics)

Title: Joseph G. Hamilton: Project 48A Reports.  
(Technical Administrative Files).  
1941-1957. Declassified/Unclassified.

Includes File Contents List.

Note: "Preliminary Report. 'Trinity Survey Program -  
Soils Section.'" 78 p. Nov. 1947.

"Operations Crossroad Test Data, 1945-48."

"Radiological Warfare - Reports, General,  
1943-1952."

"Summary of Fission Products, 1942 - Work at  
Berkeley 48-A (1945)."

"Tests and Experiments at Los Alamos (1943-1951)."

"General Correspondence on Misc. Research."  
(1943-1954). 2 folders.

2  
/

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number 434-90-0218
2. LBL Accession Number 10-8-50
3. Location 88389, 88890, 88895, 88904, 88906.
4. Division/Department or Research Group  
RESEARCH MEDICINE & RADIATION BIOPHYSICS  
(BIOLOGY & MEDICINE).  
Radiation Biophysics Group.

5. Description of Records

a. Record Title R&D. Administrative Records, 1960-1979.

b. Record Media

TEX

c. Dates

1953-54; 1962-63.

d. Size of Records

Cubic Feet

Number of Units Boxes 4, 5, 10, 12.

Dimension of Records

e. Arrangement

Chronologically; minimum arrangement.

f. Security Classification

Unclassified.

g. Creating Individual or Organizational Unit

Radiation Biophysics Group. C.A. Tobias.

h. Series Description

Series consists of records maintained by the Radiation Biophysics Group of Donner Laboratory. These records include draft material for books & articles; biomedical class notes & student reports; travel reports; scientific papers and projects; papers on meetings of professional, scientific, and governmental organizations bibliographical notes; reprints; graphs and charts; glass plates.

Relevant documents for survey include a proposal for a committee on permissible radiation doses and protection; radiological notes; radiation research meeting correspondence; radiation standards; and a Federal Radiation Council report on fallout from nuclear weapons testing.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

j. Organizational Name(s) Reference

International Commission on Radiological Protection.  
U.S. Congress/Joint Committee on Atomic Energy.  
Federal Radiation Council.

6. Test Data

a. Test Operation

b. Location

c. Assignment

d. Organizational Responsibilities

e. Staff Position/Responsibilities

Notes

<u>Box No.</u>	<u>Folder No.</u>	<u>Contents</u>
4	9	International Commission on Radiological Protection, 1953-54; Proposals and list of members.
5	17-18	Radiobiological notes pertaining to manned space flight and radiation hazards in space.
8	30	Bioradiation studies of animals; progress reports.
10	17	U.S. Congress/Joint Committee on Atomic Energy: includes radiation standards; fallout, 1/64-7/62.
12	18	Report of the Federal Radiation Council, May 1963. "Estimates & Evaluation of Fallout in the United States from Nuclear Weapons Testing Conducted Through 1962."

7

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number 434-89-0199
2. LBL Accession Number 10-8-50
3. Location 1233854
4. Division/Department or Research Group

RESEARCH MEDICINE & RADIATION BIOPHYSICS  
Radiation Biophysics Group.

5. Description of Records

a. Record Title Research & Development Administrative Records. 1960-1979.

b. Record Media

TEX

c. Dates

1965

d. Size of Records

Cubic Feet

Number of Units Box 19 of 48; 4 folders.

Dimension of Records

e. Arrangement

Alphabetically and chronologically under subject, e.g., "Travel Reports."

f. Security Classification

Unclassified.

g. Creating Individual or Organizational Unit

Radiation Biophysics Group.

h. Series Description

Series consists of records maintained by the administrative office for Biology & Medicine, Radiation Biophysics Group. These records include draft material for books and articles; biomedical class notes and student reports; travel reports, 1968-1975; scientific papers and projects; bibliographic notes re: scientific and governmental organizations; galley proofs and reprints; graphs and charts; glass plate negatives of irradiated materials.

Relevant documents include the following folders (list attached).

BOX 19

Folder

"NCRP (Reports & Correspondence)"

"Neutron Report"  
ICRU (Reports & Correspondence.)"

"Dose-Effect Modifying Factors in  
Radiation Protection."

"C. Tobias. 'Effect of Radiation  
on the Nervous System.'"

"UNSCEAR (Reports & Correspondence)"

Content

Report draft/proof regarding protection  
against neutron radiation, working draft.

Correspondence.

Summary report.

Draft paper for 17th Session, UNSCEAR.

Studies of global fallout on Soviet territory.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

Cornelius Tobias.

j. Organizational Name(s) Reference

U.N. Scientific Committee on Effects of Atomic Radiation (UNSCEAR).  
National Council on Radiation Protection & Measures (NCRP).

6. Test Data

a. Test Operation

\_\_\_\_\_

b. Location

\_\_\_\_\_

c. Assignment

d. Organizational Responsibilities

e. Staff Position/Responsibilities

Notes

Folder list available.

2

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number 434-89-0100
2. LBL Accession Number 10-8-63
3. Location 401750; 401730
4. Division/Department or Research Group  
RESEARCH MEDICINE & RADIATION BIOPHYSICS  
(Biology and Medicine).  
Cornelius A. Tobias.
5. Description of Records
  - a. Record Title Cornelius Tobias, Scientist's Papers, 1943-1980.  
Manhattan Engineering District Research Papers. Declassified.
  - b. Record Media  
TEX
  - c. Dates  
[1948] 1951
  - d. Size of Records  
Cubic Feet  
Number of Units Box 24 of 38; -Box 4 of 38.  
Dimension of Records
  - e. Arrangement  
Some attempt at alphabetical arrangement by subject, e.g., Chromosomes).
  - f. Security Classification  
Unclassified.
  - g. Creating Individual or Organizational Unit  
Cornelius Tobias.
  - h. Series Description  
Research data, general correspondence and reference files of Dr. Cornelius A. Tobias, biophysicist and member of the LBL staff since 1942, Head of Biophysics Section of Donner Laboratory, and Professor of Medical Physics at U.C.

The record series, spanning the years 1943 through 1980, includes draft chapters and articles of Dr. Tobias' major publications; correspondence with scientific colleagues; article reprints; a collection of Manhattan District/AEC declassified reports, numerically arranged; governmental and professional bioradiation conference papers and reports; experiment photographs.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

Cornelius A. Tobias  
Joseph G. Hamilton  
M.L. Ingram and S.W. Barnes  
Robert L. Harvey

j. Organizational Name(s) Reference

Project 48A-1  
Crocker Laboratory  
Biology & Medicine

6. Test Data

a. Test Operation

-----

b. Location

Berkeley

c. Assignment

d. Organizational Responsibilities

e. Staff Position/Responsibilities

Notes

Folder list available.

(Continued from Page 1)

Primary references concern Dr. Tobias' studies of the biological effects of radiation, including genetic composition in relation to radiation sensitivity; cancer; metabolism; and space radiation.

Documents relevant to the survey include the following:

<u>Folder Title</u>	<u>Contents</u>
"Tobias, C.A., et al. 'Some Biological Effects Due to Nuclear Fission.'"	Draft paper.
"Hamilton, Joseph G."	"A Report of the Past, Present, and Future Research" for Project 48A-1; staff list, list of radioactive elements orally ingested by humans.
"Ingram, M.L. and S.W. Barnes, 'Observations on the Blood of Cyclotron Workers.'"	
"Harvey, Robert L., 'Maximum Allowable Concentrations of Fission Products in the Air as a Function of Exposure Time and Time After Detona- tion.'" 9 Nov. 1951.	Published report. Crocker Radiation Laboratory. CRL 1R64. Prog. 4-12-10-0002.

LAWRENCE BERKELEY LABORATORY  
ARCHIVES & RECORDS OFFICE  
NUCLEAR TESTING AND FALLOUT RECORDS SURVEY.

7  
mostly  
animal  
Studies

Division: Biomedical (RMRB).  
Series: Cornelius A. Tobias. Scientists' Records.  
Record Title: "Manhattan Engineering District Research Papers.  
(MDDC)."

---

BOX 4

Folder 1. "MDDC 100-194."

[Dr. San Sourci(s).] Ray, W.H. "Health Physics Bldg.  
Surveying at Clinton Laboratories." Decl. 1946.

Folder 2. "MDDC 200-299".

Bishop, F.W. & Tobias, C.A. "Comparison of X and B Radia-  
tion Effects in Rabbits." MDDC-203. Decl. 1946.

Harvey, Roger A. "Effect of Acute and Chronic Doses of  
Roentgen Rays on Monkey Finger, Ridge Detail." MDDC-215.  
Decl. 1946.

Henshaw, P.S., E.F. Riley, G.E. Stapleton-Mansanto. "The  
Biological Effects of Pile Radiation." MDDC-159. Decl. 1946.

Folder 4. "MDDC 300-399."

Lawrence, John H., et al. "The Effect of Radiation on Hemo-  
poiesis. Is There an Indirect Effect?" MDDC 326.

Orcutt, James A. "Pharmacology & Toxicology of Uranium Com-  
pounds; Toxicology of Compounds of Uranium Following Appli-  
cation to the Eye." USAEC. 1946.

Connick, R.E. & W.H. McVey. "Note on the Oxidation of Pu  
(III) by Oxygen." MDDC-338.

Jaffey, A.H., T.P. Kohman, J.A. Crawford. "A Manual on the  
Measurement of Radioactivity." MDDC-388. 1946.

Landsverk, O.G. ANL. "New Models of Integrating Gamma Ray  
and Slow Neutron Pocket Meters (Dosimeters) and Pocket Cham-  
bers." MDDC-395.

\_\_\_\_\_. "A Survey Meter for the Measurement of  
Alpha, Beta, and Gamma Rays, Fast and Slow Neutrons."  
MDDC-396.

LAWRENCE BERKELEY LABORATORY

ARCHIVES & RECORDS OFFICE

NUCLEAR TESTING AND FALLOUT RECORDS SURVEY.

Division: Biomedical (RMRB).

Series: Cornelius A. Tobias. Scientists' Records.

Record Title: "Manhattan Engineering District Research Papers.  
(MDDC)."

-----  
Folder 5. "MDDC 400-499."

Chadwick, S.R. "Alpha Counters as Used in Radioassay of Plutonium." LASL. MDDC.

Garrett, Allen J., Mary Milham, et al. ANL. "Hyperheparinemia - Cause Hemorrhage Disease Produced by Total-Body Exposure to Ionizing Radiations." MDDC-481. Nov. 1946. Decl. 1947.

Guzman Barron, E.S. "Some Aspects of the Biological Action of Radiation." MDDC-484. n.d., decl. 1946.

Raper, John R. CNL. "Effects of Total Surface Beta Irradiation." MDDC-499. Decl. 1946.

Axelrod, D.J. "An Improved Method for Cutting Undecalcified Bone Sections and Its Application to Radioautography. MDDC-450. Decl. 1946.

Folder 6. "MDDC 500-599."

Henshaw, P.S. and R.S. Snider. CNL. "Correlation of Tissue Responses Following Exposure to Penetrating Radiations." MDDC-569. 1946. Decl. 1946.

\_\_\_\_\_. "Review of Information Bearing on the Tumor Inducing Action of Superficial Radiations." MDDC-570. 1946.

Snider, Ray S. "Histopathological Studies on Mice Following External Beta Ray Treatment." MDDC-583. 1946.

Zirkle, R.E. "Components of the Acute Lethal Action of Slow Neutrons." MDDC-585. Symposium Talk, 1946. (Plutonium Project).

Schubert, Jack. "Treatment of Plutonium Poisoning by Metal Displacement." MDDC-595. 1946.

LAWRENCE BERKELEY LABORATORY

ARCHIVES & RECORDS OFFICE

NUCLEAR TESTING AND FALLOUT RECORDS SURVEY.

Division: Biomedical (RMRB).

Series: Cornelius A. Tobias. Scientists' Records.

Record Title: "Manhattan Engineering District Research Papers.  
(MDDC)."

-----  
Folder 6 (cont.)

Zinn, W.H., et al. "The Quantitative Estimation of the Activity of Beta Particle Emitters." MDDC-598. 1946.

Folder 9. "MDDC 800-899."

Simpson, J.A. ANL. "the Theory and Properties of Low Voltage Radiation Counters." MDDC-870. Decl. 1947.

n.a. "Alpha Air Monitoring System." MDDC-882. Dec. 1947

n.a. "Integration Radiation Meter for Beta and Gamma Rays, Sigmumon, Mark 10, Model 70." MDDC-884. Dec. 1947.

Checka, J.S. "Neutron Monitoring by Means of Special Fine-Grain Alpha-Emulsion Film." MDDC-890. Decl. 1947.

Brand, J.R., et al. ANL. "The Four-Fold Hand Counter." MDDC-899. 1944. Decl. 1947.

BOX 5

Folder. "MDDC 1000-1099."

Lorenz, E., et al. "Biological Action of Gamma and X-Rays." MDDC-907. 1944. Dec. 1947.

Marks, Edna K. "Effects of Radiation Exposure on the Cells of the Peripheral Blood." MDDC-912. 1947.

Lanz, H. and J. Teres. "The Metabolism of Short-Lived Air-Borne Fission Products." MDDC-954. 1945.

Bonner, John F. "Alpha and Beta Ray Counters." MDDC-967. Decl. 1947.

LAWRENCE BERKELEY LABORATORY

ARCHIVES & RECORDS OFFICE

NUCLEAR TESTING AND FALLOUT RECORDS SURVEY.

Division: Biomedical (RMRB).  
Series: Cornelius A. Tobias. Scientists' Records.  
Record Title: "Manhattan Engineering District Research Papers.  
(MDDC)."  
-----

Cantril, S.T., et al. "The Effects of Irradiation on Blood & Blood Forming Tissues." MDDC-991. 1943. Decl. 1946.

Ballou, C.O. "'Cutie Pie,' A Portable Radiation Instrument." MDDC-998. 1945.

Hamilton, J.G. "Metabolism of Fission Products." Program Report. 1944. UCRL. MDDC-1001.

Jacobson, L., R. Overstreet, I. Chaikoff, et al. "Metabolism of Fission Products - Radiotellurium." Decl. 1947.

Middlesworth, Lester Van. UCRL. "Study of Plutonium Metabolism in Bone." MDDC-1022. Decl. 1947.

Carlson, G.R. "Portable Probe Type Ionization Meter, Mark II, Model 10." MDDC-1057. 1945.

Folder. "MDDC 1200-1299."

Cantril, S.T., L. Jacobson, J.J. Nickson. "The Effects of Irradiation on the Blood and Blood Forming Tissues." MDDC-991. 1943.

Folder. "MDDC 1100-1199."

Dickie, Annamae and L.A. Hempelmann. LASL. "Morphologic Changes in the Lymphocytes of Persons Exposed to Ionizing Radiations." MDDC-1102. Decl. 1948.

Zumwalt, L.R. "Absolute Beta Counting Using End-Window Geiger-Muller Counter Tubes." Abstract. MDDC-1156. 1948.

Maxwell, Elizabeth, et al., LASL. "Determination of Plutonium in Human Feces." MDDC-1167. Decl. 1947.

Sullivan, W.H., et al. "A Low Absorption Counter of Improved Design." MDDC-1171. 1944.

LAWRENCE BERKELEY LABORATORY

ARCHIVES & RECORDS OFFICE

NUCLEAR TESTING AND FALLOUT RECORDS SURVEY.

Division: Biomedical (RMRB).  
Series: Cornelius A. Tobias. Scientists' Records.  
Record Title: "Manhattan Engineering District Research Papers.  
(MDDC)."  
-----

Cantril, S.T. and J.T. Nickson. "Uranium Poisoning."  
MDDC-1199. Decl. 1947.

Folder. "MDDC 1200-1299."

Rekers, Paul E. & John B. Field. "Control of Hemorrhagic  
Syndrome and Reduction in X-Irradiation Mortality with a  
Flavonone." MDDC-1219. 1947.

Boyd, George A. "The Physical Principles and Techniques of  
Autoradiographs." MDDC-1226. 1947.

Tobias, C.A., et al. "Some Biological Effects Due to  
Nuclear Fission." MDDC-1239. Decl. 1947.

Nickson, Margaret. ANL. "Effect of Single Dose X-Ray to  
the Nail Fold Area of Human Subjects." Preliminary Report.  
MDDC-1269. 1947.

\_\_\_\_\_. "Report on Hand Study." MDDC-1270.  
1947 Rev. (Orig. 1945).

Scott, K.G., R. Overstreet, L. Lacobson, J.G. Hamilton, et  
al. UCRL. "the Metabolism of Carrier-Free Fission Products  
in the Rat." MDDC-1275. Decl. 1947.

Folder. "MDDC 1300-1399."

Howland, Joe W. & Stafford L. Warren. "The Effects of Irra-  
diation from the Atomic Bomb on the Japanese." MDDC-1301.  
Decl. 1947.

Nickson, Margaret. "A Study of the Hands of Radiologists."  
MDDC-1309. 1947.

Simpson, Jr., J.A. ANL. "Air Proportional Alpha Counters  
...to 1944." MDDC-1315. Oct. 1945.

LAWRENCE BERKELEY LABORATORY

ARCHIVES & RECORDS OFFICE

NUCLEAR TESTING AND FALLOUT RECORDS SURVEY.

Division: Biomedical (RMRB).

Series: Cornelius A. Tobias. Scientists' Records.

Record Title: "Manhattan Engineering District Research Papers.  
(MDDC)."

---

Simpson, J.A. and Jerome Brewer. ANL. "Air Proportional  
Air Hand Counter." MDDC-1316. 1945.

Dandl, R.A. ORNL. "Walkie-Poppie -- A Portable Battery --  
Operated Proportional Type Alpha Survey Counter." MDDC-1331.  
1945.

Katz, Elaine J., Louise G. Holt, Samuel Schwartz. "The  
Effect of Uranium Exposure on urine Catalase Excretion."  
MDDC-1355. 1946.

Langham, Wright. LASL. "Medical and Biological Research  
Activities of the Los Alamos Laboratory." MDDC-1439.  
Decl. 1947. 16 pp. (3 p. text).

Neil, Hugh G., Tennessee-Eastman. "The B-3 Beta Counter."  
MDDC-1466. 1945.

Folder. "MDDC-1500-1599."

Hufford, D.L. and Scott, B.F. "Techniques for the Prepara-  
tion of Thin Films of Radioactive Material." MDDC-1515.  
1945.

Folder. "MDDC 1600-1699."

Krizek, H., I. Silverbach, S. Schwartz. "The Effect of  
Lethal Dose of Total Body X-Ray on Uric Acid and Allantoin  
Excretion in Dogs." MDDC-1647. 1946.

Cohn, Waldo E. Clinton Lab. "Radiotoxicity of Inhaled or  
Ingested Radioactive Products." MDDC-1656. Decl. 1948.

Various animal studies.

LAWRENCE BERKELEY LABORATORY

ARCHIVES & RECORDS OFFICE

NUCLEAR TESTING AND FALLOUT RECORDS SURVEY.

Division: Biomedical (RMRB).

Series: Cornelius A. Tobias. Scientists' Records.

Record Title: "Manhattan Engineering District Research Papers.  
(MDDC)."

---

Folder. "MDDC 1990-1999."

Rekes, Paul and Molly Counter. "A Hematological and Histological Study of the Bone Marrow and Peripheral Blood of the Adult Dog." AECD-1925. Decl. 1948.

Dessauer, Gerhard and James Rouvina. "Photographic Neutron Dosimetry II." AECD-1973. 1945.

Folder. "MDDC 2100-2199."

Tannebaum, Albert, et al. "Tracer Studies on the Distribution and Excretion of Uranium in Mice, Rats, and Dogs." MDDC-2167. Decl. 1948.

2

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number ----
2. LBL Accession Number New
3. Location Working
4. Division/Department or Research Group

RESEARCH MEDICINE & RADIATION BIOPHYSICS DIVISION.  
Cornelius A. Tobias.

5. Description of Records

- a. Record Title Cornelius A. Tobias Records, ca. 19 .  
[Series 7].

- b. Record Media

TEX; BND

- c. Dates

1980

- d. Size of Records

Cubic Feet ----

Number of Units Box 26; Folder no. 26

Dimension of Records 1 bound report

- e. Arrangement

---

- f. Security Classification

Unclassified [Restricted].

- g. Creating Individual or Organizational Unit

Dr. Cornelius A. Tobias.

- h. Series Description

United Nations Scientific Committee on the Effects of Atomic Radiations.  
Twenty-ninth Session, Vienna, 1-12 Sept. 1980. Radiation-Induced Life-Shortening. 15 Jan. 1980.

Includes "data from occupational exposed people," radio-therapy patients and survivors of the A-Bomb; biological and physical variables; treatment; effect of continuous life-time irradiation animal studies.

Series Description (continued from Page 1)

Beebe, Gilbert, Hirii Kato and Charles Land, "Mortality and Radiation Dose, Atomic Bomb Survivors, 1950-1966." IVth International Congress of Radiation Research, June 1970.

2

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number -----
2. LBL Accession Number New Accession
3. Location ARO
4. Division/Department or Research Group

RESEARCH MEDICINE & RADIATION BIOPHYSICS DIVISION.  
Cornelius A. Tobias.

5. Description of Records

- a. Record Title Cornelius A. Tobias. Biology & Radiation Studies ---  
Donner Laboratory Researchers. Series 10.

Folder Title: See List binder h. Series Description.

- b. Record Media

TEX; PRM

- c. Dates

1948 - 1967

- d. Size of Records

Cubic Feet 5  
Number of Units 5 boxes (See Boxes 3-5)  
Dimension of Records

- e. Arrangement

Alphabetical by author.

- f. Security Classification

Unclassified.

- g. Creating Individual or Organizational Unit

Cornelius A. Tobias.

- h. Series Description

Reference collection maintained by Dr. C.A. Tobias. The records consist of bioradiation reprints, preprints, abstracts and draft and original technical papers. Papers primarily pertain to radiobiological and genetic studies resulting from use of particle accelerator beams, radiological tracers in biological systems, and space flight radiation studies.

The following articles are pertinent to nuclear testing radiation and fallout studies: (See attached list)

From Title Page - h. Series Description (continued):

<u>Box Number</u>	<u>Folder Number</u>	<u>Title</u>
3	5	Tobias, C.A. "Dose-Effect Factors in Radiation Protection." Report of Subcommittee M-4 of the National Committee on Radiation Protection, Brookhaven National Laboratory, August 1967. Preprint.
3	13	Tobias, C.A., P.P. Weyman, L.R. Wasserman, G.E. Stapleton. "Some Biological Effects Due to Nuclear Fission." Jan. 30, 1948.
5	2	Raju, Mudundi. Articles on dosimetry and silicon detectors.
5	14	"Sondhaus, Charles A." Abstract reprint & photocopy of research address concerning the exposure to fallout radiation in the Marshall Islands. Refers to exposure time, visible fallout material, contamination of humans, and whole-body exposure. Prognosis and recommendations.
		Cronkite, E.P., N.R. Shulman, C.A. Sondhaus, R.A. Sharp and V.P. Bond. "The Characteristics of Fallout Material and the Effects of Fallout Radiation on Human Beings." May-Oct. 1955. 6 pages.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

---

j. Organizational Name(s) Reference

[Sondhaus folder]  
U.S. Naval Radiological Defense Laboratory.  
Naval Medical Research Institute.  
Medical Dept., U.S. Naval Station, Kwajalein.

6. Test Data

a. Test Operation

Castle

b. Location

PPG

c. Assignment

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d. Organizational Responsibilities

Task Force

e. Staff Position/Responsibilities

[Medical]

Notes

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number ---
2. LBL Accession Number New
3. Location ---
4. Division/Department or Research Group  
RESEARCH MEDICINE & RADIATION BIOPHYSICS DIVISION  
Cornelius A. Tobias.

5. Description of Records

- a. Record Title Cornelius A. Tobias. Biology & Radiation Studies Reprints.  
Folder Title: Sondhaus, Charles A. [Series of reprints].

b. Record Media

TEX

c. Dates

May-October, 1955

d. Size of Records

Cubic Feet 6 pages

Number of Units 1 folder. Series 10. Box 5, Folder #14.

Dimension of Records

e. Arrangement

Arranged alphabetically by author's surname.

f. Security Classification

Unclassified.

g. Creating Individual or Organizational Unit

Cornelius A. Tobias.

h. Series Description

Abstract reprint and typescript photocopy of research address concerning the exposure to fallout radiation in the Marshall Islands. The article describes the exposure time, visible fallout material, contamination of humans, and the level of whole-body exposure. Prognosis and recommendations were included.

Cronkite, E.P., N.R. Shulman, C.A. Sondhaus, R.A. Sharp, and V.P. Bond.  
"The Characteristics of Fallout Material and the Effects of Fallout Radiation on Human Beings."

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

----

j. Organizational Name(s) Reference

U.S. Naval Radiological Defense Laboratory.  
Naval Medical Research Institute.  
Medical Dept., U.S. Naval Station, Kwajalein.

6. Test Data

a. Test Operation

Castle

b. Location

PPG

c. Assignment

----

d. Organizational Responsibilities

Task Force

e. Staff Position/Responsibilities

----

Notes

Reprinted from RADIATION RESEARCH  
Volume 3, No. 2, October 1955  
Academic Press Inc.  
Printed in U.S.A.

29. *The Characteristics of Fallout Material and the Effects of Fallout Radiation on Human Beings*, E. P. CRONKITE, N. R. SHULMAN, C. A. SONDEHAUS, R. A. SHARP, and V. P. BOND, Naval Medical Research Institute, Bethesda, Maryland, and U. S. Naval Radiological Defense Laboratory, San Francisco, California.

Human beings were accidentally exposed to fallout radiation commencing approximately 5 hours after explosion of a large nuclear device. The fallout material was visible (snowlike). It contaminated skin, clothes, and surroundings, producing skin lesions, whole-body effects, and internal deposition of small amounts of radionuclides. Whole-body exposure occurred at four levels: 175 r, 78 r, 69 r, and 14 r midline dose of radiation. Nausea and some vomiting occurred on the day of exposure in the two highest exposure groups. Marked depression of granulocytes and platelets occurred, but agranulocytic infections and hemorrhage did not occur. No prophylactic therapy was administered. It can be concluded that after these levels of exposure prophylactic therapy is not indicated.

THE CHARACTERISTICS OF FALLOUT MATERIAL AND THE EFFECTS OF  
FALLOUT RADIATION IN HUMAN BEINGS

E. P. Cronkite, N. R. Shulman, C. A. Sondhaus, R. A. Sharp and V. P. Bond

For the Radiation Research Society

May 16-18, 1955 - New York, N. Y.

A 10 minute presentation

Copy of Original Document at  
LBL Archives & Records Office

On March 1, 1954, human beings were accidentally exposed to radiation from fallout. Approximately five hours or longer after the detonation, the fallout commenced. Marshallese and Americans were involved. The exposed individuals consisted of four groups, depending on location:

Rongelap	68 Marshallese	175 r.
Ailinginae	14 "	78 "
Rongerik	28 Americans	69 "
Utirik	159 Marshallese	14 "

(Make a slide)

The task force did not have a bio-medical program, and as soon as possible, a medical team and equipment was assembled between the Naval Medical Research Institute and the U. S. Naval Radiological Defense Laboratory, and transported to the field commencing studies on the ninth post-exposure day. Interim care and study was provided by the Medical Department, U.S. Naval Station, Kwajalein, to which all exposed people had been evacuated. On Rongelap, and to a lesser extent, on Ailinginae, the fallout was visible and was described as a light snowfall. The material consisted of flakes of CaO, incinerated coral, coated with FP. The material clung to skin, clothes, vegetation and buildings, thus producing a large planar source of gamma radiation and multiple small sources of  $\beta$  radiation when in contact with the skin. Indeterminate amounts of the material were inhaled and ingested. The overall result was the production of relatively uniform whole body irradiation, spotty  $\beta$  irradiation of the skin of varying degree, and the internal deposition of some radionuclides. I shall describe the exposure conditions, the general symptomatology and management, and others will amplify on the problems of hematologic changes, cutaneous lesions and internal deposition.

The Marshallese were exposed in the open or in thatched homes as illustrated (slide 2). The lightly constructed homes and clothing gave almost complete protection against skin lesions. Bathing during or immediately after the fallout reduced the severity of skin burns.

The gamma doses were estimated from consideration of the arrival time dose rates at various times, decay exponents, from a recording dosimeter and some film badges that were located on Rongerik. The values presented embrace all of the above factors and there was considerable internal consistency in dose estimation.

Nausea and vomiting occurred on the day of exposure in the two highest dose groups. Two-thirds of the Rongelap group were nauseated and one-tenth vomited and had diarrhea. One of the Ailinginae group was nauseated. The other groups 69 and 14 r. had no gastrointestinal symptoms.

Itching and burning of the skin occurred in 28% of the Rongelap group, 20% of Ailinginae and 5% of the Americans, but none of the Utirik group. Three of the Rongelap and one of the Ailinginae group had burning of the eyes with lacrimation. The cutaneous symptoms were most likely due to irradiation, since all of the ones with symptoms later developed skin lesions. However, the high pH of the fallout material when dissolved may have contributed to the cutaneous symptoms.

All individuals were kept under continuous medical observation. All of the gastrointestinal symptoms disappeared by the third day without therapy and there was no recurrence.

In the course of observation, miscellaneous disorders developed as listed in the next slide (slide 3). Initially, the URI caused some concern

because a granulopenia and thrombopenia was developing concomitantly. However, the incidence and severity of infectious processes in all of the dose groups, in the non-exposed Marshallese and in the American medical team was identical. A few individuals were given antibiotics at this time, but antibiotics were not used more freely than many physicians would have used them in a non-exposed population.

The decision not to use prophylactic antibiotics was based on the fact that the dose of radiation was known with fair accuracy and it was believed to be sublethal. However, as granulocytes reached  $1000/\text{mm}^3$  and some were as low as  $700/\text{mm}^3$ , some concern was felt about when and if prophylactic antibiotics should be used. However, all physicians present agreed that prophylactic antibiotics should not be instituted in these individuals because:

1. All were under continuous medical observation so that infection could be detected at onset.
2. Premature use of antibiotics might obscure indications for treatment and permit development of drug-resistant organisms in granulopenic individuals before antibiotics was needed.
3. There is no really accurate knowledge of level of granulocytes in man when infections develop and antibiotics might be needed.

Although some of the individuals had severe febrile respiratory infections of unknown etiology, they were able to resist the infections, despite their depressed hemopoiesis, as well as normal individuals.

A rather marked thrombopenia developed in all individuals from Rongelap and Ailinginae. Eleven had counts from 35,000 - 65,000 and all were below 150,000 at some time.

Four women were pregnant. No bleeding was observed. Two women menstruated excessively for several extra days with counts at 130,000 and 150,000. They were not concerned and bleeding stopped without therapy. A slight anemia was observed in 19 people; however, there were adequate physiologic explanations (repeated pregnancies, long-standing menorrhagia, childhood infestations, etc.).

SUMMARY & CONCLUSIONS:

1. 175 r. is sufficient whole-body radiation to produce a significant incidence of fleeting nausea, vomiting and diarrhea in an unsophisticated population.
2. 175 r. is a sublethal exposure.
3. The degree of granulopenia and thrombopenia induced was significant and temporarily alarming, but spontaneous uncontrollable infections and bleeding did not develop, despite skin lesions.
4. A population exposed to this amount of radiation need not be given any therapy other than what is clinically indicated.

3

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number ----
2. LBL Accession Number New Accession
3. Location ARO
4. Division/Department or Research Group

RESEARCH MEDICINE & RADIATION BIOPHYSICS DIVISION.  
Cornelius A. Tobias.

5. Description of Records

a. Record Title Cornelius A. Tobias. Biology & Radiation Studies Reprints.  
Series 12.

b. Record Media

TEX

c. Dates

ca. 1962. [n.d.]

d. Size of Records

Cubic Feet 5 total.

Number of Units 5 boxes. (See Box I)

Dimension of Records

e. Arrangement

Alphabetical by author.

f. Security Classification

Unclassified.

g. Creating Individual or Organizational Unit

Cornelius A. Tobias.

h. Series Description

Reference collection of bioradiation reports maintained by Dr. C.A. Tobias Donner Laboratory. The records consist of reprints, preprints, abstracts, draft and original technical papers. The papers primarily pertain to radiobiological and genetic studies of the use of particle accelerator beams, radiological tracers in biological systems, and space-flight radiation studies.

Box 1, folder 19, contains typescript report:

Anderson, Kinsey A. "Radioactive Clouds from Russian Nuclear Weapons Tests." n.d. 8 p. (includes tables).

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

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j. Organizational Name(s) Reference

University of Minnesota Cosmic Ray Group  
U.S. Atomic Energy Commission.

6. Test Data

a. Test Operation

[Soviet tests].

b. Location

Flin Flon, Manitoba, Canada.

c. Assignment

Cloud sampling/detection

d. Organizational Responsibilities

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e. Staff Position/Responsibilities

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Notes

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LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number 434-90A-0168
2. LBL Accession Number 19-14-6
3. Location A59 OL-A591M
4. Division/Department or Research Group

RESEARCH MEDICINE & RADIATION BIOPHYSICS.  
(BIOMEDICAL - DONNER LABORATORY)  
John H. Lawrence. Director.

5. Description of Records

a. Record Title John H. Lawrence. Scientist's Papers., 1941-1986.

Folder Title: 1. "AEC Monthly Reports."\*  
2. "M-N-O-P, 1970-1979."

b. Record Media

TEX

c. Dates

June 8, 1948; 1977.

d. Size of Records

~~Number of Feet~~ Box 22 of 34. Folder 5 (oversized).

Number of Units Box 23 of 34. Folder 8.

Dimension of Records

e. Arrangement

Primarily chronological, then alphabetically by correspondents.  
Items within each file are generally arranged chronologically.

f. Security Classification

Unclassified.

g. Creating Individual or Organizational Unit

John H. Lawrence.  
Director, Donner Laboratory.

h. Series Description The collection consists of correspondence, hand-written and typed drafts, postcards, memoranda, lists and schedules, proofs, brochures, research papers and articles, newsclippings, account books, speeches, bibliographies, resumes, and photographs.

Relevant documents to this survey include a letter from Dr. John W. Gofman to John H. Lawrence, June 8, 1948. "Proceedings of the AEC Washington Mtg, May 25-26." Page 3 of the Discussion transcript refers to radiation tolerances. Page 7 includes comments of Dr. Shields Warren, subsequent director of AEC Biology & Medicine. On p. 11, Dr. Warren refers briefly to examinations of the survivors of the Nagasaki atomic bomb. Box 22, folder 5 contains a letter concerning the possible location of Dr. Joseph Hamilton's research papers.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

John H. Lawrence

Karl Morgan

John W. Gofman

Joseph Hamilton

G. Failla

William White

Shields Warren

j. Organizational Name(s) Reference

Donner Laboratory

U.S. Atomic Energy Commission.

6. Test Data

a. Test Operation

----- [Nagasaki]

b. Location

c. Assignment

d. Organizational Responsibilities

e. Staff Position/Responsibilities

?

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number -----
2. LBL Accession Number 19-14-35
3. Location 5475E
4. Division/Department or Research Group

RESEARCH MEDICINE & RADIATION BIOPHYSICS.  
Joseph G. Hamilton.

5. Description of Records

a. Record Title

Joseph G. Hamilton: Project 48A Reports.  
(Technical Administrative Files)

b. Record Media

TEX

c. Dates

1946 - 1948

d. Size of Records

Cubic Feet

Number of Units 1 folder (10 pages):

Dimension of Records

e. Arrangement

No particular arrangement.

f. Security Classification

Declassified 1974.

g. Creating Individual or Organizational Unit

Joseph G. Hamilton, Crocker Laboratory director.

h. Series Description

(Photocopied) reports and correspondence pertaining to AEC Project 48A on the use of fission products as radioactive poisons in warfare and potential sources of radiation injury from an atomic bomb. Dr. Hamilton's correspondents were Dr. Ernest O. Lawrence, The Radiation Laboratory director, and Col. Kenneth D. Nichols, head of the Armed Forces Special Weapons Project. Dr. Hamilton was director of Metabolic Studies of Fission Products and Transuranic Elements, LBL.

Original documents were transferred to Dr. Patricia Durbin-Heavey.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

Dr. Joseph G. Hamilton  
Dr. Ernest O. Lawrence  
Col. K.D. Nichols  
Drs. Roy Overstreet & Louis Jacobson (Project Chemists).

j. Organizational Name(s) Reference

Crocker Laboratory  
U.C. Radiation Laboratory

6. Test Data

a. Test Operation

—

b. Location

Berkeley

c. Assignment

MED/AEC Project 48A

d. Organizational Responsibilities

Study of radioactive damage to biological systems; and possible application of radioactive agents as military weapons.

e. Staff Position/Responsibilities

Project Director

Notes

Also see Technical Administrative Records of Dr. Joseph G. Hamilton.  
1941 - 1957.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number -----
2. LBL Accession Number 19-14-38
3. Location 5445B
4. Division/Department or Research Group

RESEARCH MEDICINE AND RADIATION BIOPHYSICS  
Nuclear Medicine.

5. Description of Records

a. Record Title Kenneth Scott, Radiophysicologist. Oral History Interview Transcript.

b. Record Media

TEX

c. Dates

Dec. 17, 1979.

d. Size of Records

Cubic Feet approx. 63 pages total.

Number of Units 1

Dimension of Records

e. Arrangement

Chronological narrative.

f. Security Classification

Unclassified.

g. Creating Individual or Organizational Unit

S.S. Hughes/Kenneth Scott.

h. Series Description

Typed transcript (with handwritten corrections) of oral interview with Dr. Scott. Account concerns (1) family background; (2) undergraduate years at Berkeley; (3) early research using radioisotopes and radiation; (4) Crocker Radiation Laboratory experiments; (5) human use committees; (6) Bikini Bomb Tests; (7) Joseph Hamilton; (8) Radioactivity Research Center, UCSF.

Pertinent references for this survey concern plutonium radioautography; Manhattan District research; Bikini Test biological studies (p. 53ff); Joseph Hamilton's research; radiation safety. Dr. Scott tested radioactive biological samples from Crossroads-Baker Test.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

Joseph G. Hamilton  
John Lawrence  
Robert S. Stone

Paul Aebersold  
Dorothy Axelrod  
Sherburn Cook

Patricia Durbin  
Ernest Lawrence  
Stafford Warren

j. Organizational Name(s) Reference

Crocker Radiation Laboratory.  
Radioactivity Research Laboratory, University of California,  
San Francisco.

6. Test Data

a. Test Operation

[Crossroads:]  
Baker

b. Location

Bikini

c. Assignment

Radiobiological Studies.

d. Organizational Responsibilities

e. Staff Position/Responsibilities

Biologist.

Notes

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LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number ----
2. LBL Accession Number ----
3. Location The Bancroft Library. 80/80 c.
4. Division/Department or Research Group  
University of California, San Francisco.  
Medical Center.
5. Description of Records
  - a. Record Title Correspondence of Dr. Robert S. Stone, UCSF.

b. Record Media TEX

c. Dates : 1940 - 1956.

d. Size of Records

Cubic Feet 3"  
Number of Units 1 Manuscript box.  
Dimension of Records

e. Arrangement

Arranged chronologically within folders of outgoing and incoming letters.

f. Security Classification

Unclassified.

g. Creating Individual or Organizational Unit

Robert S. Stone, M.D.  
Chief Radiologist.

h. Series Description

Incoming and outgoing correspondence of Dr. Stone concerning the use of radioisotopes in treating disease, e.g., thyroid conditions; AEC review of patient reactions to radiation exposure. Also includes clinical data of patients, 1945-46 (folder 7); experiment notes on mice irradiation, 1940; and draft typescripts of two research articles. These articles are: (1) "Theoretical and Practical Considerations of Super Voltage X-Rays. Neutrons and Artificial Radio-Activities from Treatment of Cancer." (2) "An Evaluation of Super Voltage Radio Therapy Based on the Later Clinical Effects." 1950. Chief correspondents include Paul C. Aebersold, Isotopes Div, USAEC; and Shields Warren, USAEC.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

Paul C. Aebersold	H. Rowan Gaither, Jr.
Shields Warren, M.D.	Alan Gregg, M.D.
M. Lowry Allen, M.D.	Hugh F. Hare, M.D.
Reynold F. Brown.	T. Duckett Jones, M.D.

j. Organizational Name(s) Reference

Division of Biology and Medicine, Atomic Energy Commission.  
Isotopes Division, Atomic Energy Commission.  
AEC Subcommittee on Human Use of Radioisotopes (1954).  
University of California, San Francisco, Medical Center.

6. Test Data

a. Test Operation

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b. Location

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c. Assignment

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d. Organizational Responsibilities

e. Staff Position/Responsibilities

Notes

2  
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LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

1. NARA Accession Number ---
2. LBL Accession Number ---
3. Location The Bancroft Library 87/108 c
4. Division/Department or Research Group  
RESEARCH MEDICINE AND RADIATION BIOPHYSICS DIVISION  
Donner Laboratory  
John W. Gofman
5. Description of Records
  - a. Record Title Correspondence and Papers of John William Gofman, 1918 - .
  - b. Record Media TEX
  - c. Dates (bulk) 1935-1982  
(inclusive) 1970-1982
  - d. Size of Records  
Cubic Feet approx. 30  
Number of Units 32 ctns.  
Dimension of Records
  - e. Arrangement  
No arrangement except correspondence arranged alphabetically.
  - f. Security Classification  
Unknown
  - g. Creating Individual or Organizational Unit  
John W. Gofman
  - h. Series Description  
Correspondence, research and lecture notes, speeches, manuscripts, galley proofs, Congressional testimony (1972), and newsclippings. Speeches and writings chiefly relate to radiation exposure and occupational hazards in nuclear industry. Also includes bibliographies of Dr. Gofman's work and audiovisual tapes of interviews with Dr. Gofman. Subjects include cancer research, chromosomal studies, spectroscopy, radiation hazards, Donner Laboratory, AEC, Medical Physics, Plowshare, NDRC.

Carton 7 is unavailable for research. Entire record series is "Not Available to the Public without Permission of Head of Mss. Division," The Bancroft Library.

LBL Archives and Records Office  
Nuclear Testing and Fallout Records Survey

5. Description of Records

i. Personal Name(s) Reference

Cari Sagan	Sen. John Glenn, Abe Rubicoff, Howard Metzenbaum.
Glenn T. Seaborg	Linus Pauling, Arthur Schlesinger.
Edward Teller	Gunn (Contamination case)
G.E. Wade (GE Nuclear)	John Lawrence (Donner)
	Dr. Rosenthal (Donner). Many others
	Arthur Wahl. Joseph Kennedy.

j. Organizational Name(s) Reference

Donner Laboratory.  
U.S. Atomic Energy Commission.  
National Defense Research Committee (NDRC).  
Lawrence Livermore National Laboratory.

6. Test Data

a. Test Operation

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b. Location

c. Assignment

d. Organizational Responsibilities

e. Staff Position/Responsibilities

Notes



**LAWRENCE BERKELEY LABORATORY  
ARCHIVES AND RECORDS OFFICE  
RECORDS TRANSMITTAL**

TO TRANSFER RECORDS TYPE THIS FORM. Use one transmittal for each records series. A records series consists of records having the same disposal authority and disposition date. This form is to be used for unclassified records only. See transfer and packing instructions for details or call the Archives and Records Office at 486-5525.

**ARCHIVES AND RECORDS OFFICE USE ONLY**

<b>Division and Department</b> ADMINISTRATION DIV. Business & Protective Svcs		<b>LBL Accession Number</b> 19-10-137	
<b>Section, Group or Project</b> Archives & Records Office		<b>LBL Accession Date</b> 4/1/93	
<b>Building and Room Number</b> 69 - 104K	<b>Extension</b> 5525	<b>File Code</b> 19-10-137	
<b>Person Transferring the Records</b> Dennis Copeland		<b>NARA Accession Number</b>	
<b>Department Head</b>		<b>Archives Receipt (Signature and Date)</b> <i>Dennis Copeland</i>	
<b>Records Title</b> NUCLEAR TEST-RELATED RECORDS SURVEY <span style="float: right;">Bldg. 69/Shelf 6134B ✓</span>			
<b>Inclusive Dates of the Records</b> 1991		<b>Number of Records Boxes</b> 1 reg. manuscript box	
<b>Brief Description of the Records</b> Series consists of the surveys and introductory materials of the compiled descriptive surveys of Lawrence Berkeley Laboratory records which relate to or document nuclear testing and fallout. Records include personnel, travel, technical and scientific reports of the Lawrence Radiation Laboratory, Berkeley and Livermore. The survey was conducted in response to personnel request of the Defense Nuclear Agency Test Personnel Program.			
<b>Type of Materials: (Check all that apply.)</b> Provides inventory/index to key nuclear test documents			
<input type="checkbox"/> Architectural and Engineering Drawings		<input type="checkbox"/> Photographs	
<input type="checkbox"/> Electronic Data		<input type="checkbox"/> Sound Recordings	
<input type="checkbox"/> Graphs and Charts		<input type="checkbox"/> Transparencies	
<input type="checkbox"/> Microfilm		<input type="checkbox"/> X-Rays	
<input checked="" type="checkbox"/> Paper Files		<input type="checkbox"/> Other Specify <u>stored on ARO reference shelf</u>	
<b>Records Retention and Disposition (Call the Archives if you need this information.)</b>			
<input checked="" type="checkbox"/> Historically Valuable Records. Do not destroy. A detailed folder list is included with this Records Transmittal.			
<input type="checkbox"/> Destroy on a scheduled basis with a minimum retention of _____ years. Disposal date <u>Perm.</u>			
<b>This is in accordance with:</b>			
<input type="checkbox"/> The National Archives General Retention Schedule. Citation _____			
<input checked="" type="checkbox"/> The Department of Energy Retention Schedule. Citation <u>19.10.b.</u>			
<b>Disposal Authorization (To be signed at the expiration of retention.)</b>			
The legal retention of the records listed on this Records Transmittal has elapsed. Since I foresee no use of these records that would justify further retention, I authorize their disposal.			
_____ Signature of Department Head			_____ Date

LAWRENCE BERKELEY LABORATORY  
ARCHIVES AND RECORDS OFFICE  
RECORDS TRANSMITTAL ADDENDUM

PAGE 2

DIVISION: ADMINISTRATION

DEPT.: BUSINESS & PROTECTIVE SERVICES

SECTION: ARCHIVES & RECORDS OFFICE

RECORDS TITLE: NUCLEAR TEST RECORDS SURVEY, 1991

BOX NUMBER                      DESCRIPTION OF CONTENTS

1/1

Folders

1. Nuclear Test Records Survey: Introduction & Brief Program Descriptions.
2. Defense Nuclear Agency (DNA) Fact Sheets; Federal laws regarding radiation exposure (photocopies).
3. Nuclear Testing Records Survey.
4. Selected Nuclear Test Documents (Arranged alphabetically by division, dept.).

ID:AMC93-000260 RTYP:b ST: MS:n EL:5 AD:930211  
CC:d BLT:bc DCF:a CSC:d MOD: UD:02/11/93  
PP:cau L:eng PC:s PD:1991/ REP:  
MMD: OR: POL: DM: RR: COL: EML: GEN: BSE:  
040 Øclbl Øeappm.  
090 ØaADM-Bus 19-10-137.  
110 2 ØaLawrence Berkeley Laboratory. Administration Division. ØbBusiness  
and Protective Services ØbArchives and Records Office Ød1991.  
245 00 ØaNuclear Test-Related Records Survey Øf1991 ØkReport and surveys Øh  
(TEX).  
300 Øa0.4 Øfcubic foot: Øb(One letter archives box, Øc31.5 X 26.5 X 13  
cm.).  
351 ØaFour file folders: Introduction an dLaboratory Program Descriptions;  
Defense Nuclear Agency fact Sheets; Nuclear Testing Records Survey;  
Selected Nuclear Test Documents ØbNuclear Test Survey Documents  
arranged alphabetically by division and department name.  
520 8 ØaSeries consists of the surveys and introductory materials of the  
compiled record descriptions of Lawrence Berkeley Laboratory records  
related to or documenting nuclear testing and fallout, 1945-1971. Øb  
Records surveyed included personnel and travel records, and  
technical and scientific reports of the Lawrence Radiation  
Laboratory, Berkeley and Livermore. The survey was conducted i  
response to a request of the Defense Nuclear Agency Test Personnel  
Program.  
506 ØaAccess governed by the Freedom of Information Act and the Privacy  
Act. LBL personnel information is governed by the California  
Information Practices Act. ØbAccess to Records Survey by appointment  
with repository.  
524 8 ØaCite as: LBL Nuclear Test-Related Records Survey, 1991, Archives and  
Records Office, Lawrence Berkeley Laboratory.  
555 8 ØaRecords transmittal.  
561 ØaProvenance: Archives and Records Office.  
610 20 ØaDefense Nuclear Agency. ØbNuclear Test Personnel Program.  
650 0 ØaNevada Test Site (Nev.). ØxPersonnel.  
650 0 ØaNuclear reactors. ØxTesting ØzNevada.  
650 10 ØaNuclear weapons. ØxTesting ØxPersonnel Øy1946-1971.  
650 10 ØaNuclear weapons ØxNevada ØxTesting.  
650 20 ØaOperation Crossroads, 1946. ØxPersonnel.  
650 20 ØaOperation Hardtack, 1958 ØxPersonnel.  
655 7 Øareport Ø2aat.  
655 7 Øarecords survey Ø2aat.  
851 ØaLawrence Berkeley Laboratory ØbArchives and Records Office ØcOne  
Cyclotron Rd., Berkeley, CA 94720.  
902 ØaSchedule: 19.10.b. ØeCut off files every two years and send to FRC.  
Review every 15 years.

Accession Information

Immediate Source of Acquisition:

Source : Dennis Copeland/ARO  
Address : 69-107/X-5525  
Method : Records transfer  
Date acquired : 1992  
Accession # : ADM-Bus 19-10-137

Owner : LBL/DOE  
Purchase Price : n/a  
Extent : 0.4 cf (1 LTA-S)  
Extent :  
Type of unit : letter archives box  
Materials spec.: TEX (Report; records survey).  
Actions

Actions:

Action:	Action Id :
Time :	Interval :
Agent :	Contingency :
Method:	Authorization:
Site :	Jurisdiction :
Status:	Material :
Extent:	Type of Unit :

**Lawrence Berkeley Laboratory  
Archives and Records Office  
Records Transmittal**

**TO TRANSFER RECORDS, TYPE THIS FORM.** Use one transmittal for each records series. A records series consists of records having the same disposal authority and disposition date. See transfer and packing instructions for details or call the Archives and Records Office at 486-5525.

**ARCHIVES AND RECORDS OFFICE USE ONLY**

<b>Division and Department</b> Environment, Health and Safety--Environment Dept.		<b>LBL Accession Number</b> 19-10-308
<b>Section, Group or Project</b> Environmental Protection		<b>LBL Accession Date</b> 2/15/95
<b>Building and Room Number</b> B75B-101	<b>Extension</b> 7623	<b>File Code</b> 19-10-308
<b>Person Transferring the Records</b> John Stoner/Gary Schleimer		<b>NARA Accession Number</b> (434) 95-0161
<b>Department Head</b> Kam Tung		<b>Archives Receipt (Signature and Date)</b> 
<b>Records Title</b> Jensen Young's Group Leader's Administrative Subject Files		
<b>Inclusive Dates of the Records</b> 1951-1978		<b>Number of Records Boxes</b> 4 FRC Boxes

**Brief Description of the Records**  
 These administrative subject files of Jensen Young document primarily his activities as the Group Leader of the Airborne Engineering Group and the Section Leader for Engineering in the Health Chemistry Department (with some additional records documenting his leadership of the Special Technology Group and Safety Technology Group in the Engineering and Technical Services Division). The Airborne Engineering Group was responsible for all air treatment engineering and maintenance of airborne equipment at Lawrence Berkeley Laboratory (formerly the Lawrence Radiation Laboratory). Records in this series include

**Type of Materials:** *(Click on all that apply.)*

<input checked="" type="checkbox"/> Architectural and Engineering Drawings	<input checked="" type="checkbox"/> Photographs
<input type="checkbox"/> Electronic Data	<input type="checkbox"/> Sound Recordings
<input checked="" type="checkbox"/> Graphs and Charts	<input type="checkbox"/> Transparencies
<input type="checkbox"/> Microfilm	<input type="checkbox"/> X-Rays
<input checked="" type="checkbox"/> Paper Files	<input type="checkbox"/> Other Specify _____

**Records Retention and Disposition:** *(Call the Archivist if you need this information.)*

Historically Valuable Records. Do not destroy. A detailed folder list 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 Archives General Retention Schedule. Citation: \_\_\_\_\_

The Department of Energy Retention Schedule. Citation: 19.10.b(1)

**Disposal Authorization:** *(To be signed at the expiration of retention.)*

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

\_\_\_\_\_

Signature of Department Head Date

**Lawrence Berkeley Laboratory  
Records Transmittal Records  
Description Addendum**

<b>Division and Department</b> Environment, Health and Safety--Environment Dept.	<b>LBL Accession Number</b>
<b>Section, Group or Project</b> Environmental Protection	<b>Page Number</b> 2
<b>Records Title</b> Jensen Young's Group Leader's Administrative Subject Files	

**Brief Description of the Records (Continued)**

Lawrence Radiation Laboratory publications relating to health chemistry equipment and techniques, ventilation equipment design drawings, radioautographs of filter queen samples, schematics, plant engineering drawings, correspondence, draft notes, unit progress reports, memoranda, draft typescripts of reports, job orders, project authorizations, filter test results and filter specifications, description of ventilation procedures for various Laboratory facilities, equipment and personnel photographs. Subjects documented in this series include design, construction, and alteration of all air treatment engineering equipment at Lawrence Berkeley Laboratory (formerly the Lawrence Radiation Laboratory) for the time period covered and air sampling for local radioactivity and radioactive fallout (also included in these records are some files of Myron D. Thaxter of the Health Chemistry Department, relating to air sampling, dating back to 1951). Young joined the Laboratory in 1955 as a Chemist and retired in 1991 as the head of the Environmental Health and Safety Department and the Deputy Division Director of the Occupational Health Division. As these records document his early career as well as the operations of a key environment, health and safety unit at LBL, they have both historical and epidemiological value and should be retained permanently.

**NOTE:** A sample of CM-115E waterproofed glass-asbestos paper was removed from Box 2, the folder labeled "Filters, General," from a memorandum to Mike Thaxter from from Jack Murrow dated February 20, 1961," and accessioned separately.

## Lawrence Berkeley Laboratory Records Transmittal Addendum

<b>Division and Department</b> Environment, Health and Safety--Environment Dept.	<b>LBL Accession Number</b>
<b>Section, Group or Project</b> Environmental Protection	<b>Page Number</b> <div style="text-align: right;">3</div>
<b>Records Title</b> Jensen Young's Group Leader's Administrative Subject Files	

Office Box Number	Description of Records in Each Box	Box Location
1/4	<p>Health Chemistry Personnel's Publications Relating to Health Chemistry Equipment and Techniques--Bibliography, 1965</p> <p>Assorted LBL and non-LBL (unfoldered) reports relating to airborne engineering--</p> <p>Myron D. Thaxter "Summary of Air-Cleaning Activities," 1959 (UCRL-8863)</p> <p>J. Stafford Peck, "Self-Checking Alarm Technique for Exhauster Systems on Activity Enclosures," 1960 (USRL-9142)</p> <p>J. Stafford Peck, "Pressure Regulation in Activity Enclosures," 1960 (UCRL-9147)</p> <p>A.E. Salo and N.B. Garden, "Summary of Corrosion Spot-Test Results," 1959 (USRL-8812)</p> <p>Graham M. Hairr, "Health Physics Aspects of WHole-Body Irradiation," 1962 (UCRL-10215)</p> <p>Patrick W. Howe, "A Visit to Several European Laboratories to Discuss Alpha Handling Techniques," 1962</p> <p>W.A. Phillips and C.L. Lindeken, "Plutonium Alpha Air Monitor Using Solid State Detector, 1961 (UCRL-6692)</p> <p>C.L. Lindeken, et. al., "A Simple High-Level Alpha Monitor," 1961 (UCRL-6425)</p> <p>Nelson B. Garden and Carroll Dailey, "High Level Spill at the Hilac," 1959 (UCRL-8919)</p> <p>Neil C. Spencer, et. al., "Close-Capture Adsorption System for Remote Radioisotope Chemistry," 1961 (UCRL-9659)</p> <p>Albert E. Salo and Nelson B. Garden, "The Fabrication of Radioactive Sources," 1959 (UCRL-8928)</p> <p>Phillip A. Bohm, et. al., "1500-Curie Co<sup>60</sup> Biomedical Irradiator," 1962 (UCRL-10371)</p> <p>Howard G. Parker, et. al., "Current Status of Curium Inhalation Exposures in Humans," 1960 (UCRL-9361)</p> <p>Myron D. Thaxter, "Condition of Commercial High-Efficiency Filters Upon Receipt or Installation," 1959 (USRL-8862)</p>	

## Lawrence Berkeley Laboratory Records Transmittal Addendum

**Division and Department**  
Environment, Health and Safety--Environment Dept.

**LBL Accession Number**

**Section, Group or Project**  
Environmental Protection

**Page Number**

4

**Records Title**  
Jensen Young's Group Leader's Administrative Subject Files

Office Box Number	Description of Records in Each Box	Box Location
1/4 contd.	<p>W.F. Patton and J.A. Brink, Jr., "New Equipment and Techniques for Sampling Chemical Process Gases," 1962</p> <p>O.H. Hogan, et. al., Beta Spectra II. Spectra of Individual Negatron Emitters," 1964 (USNRDL-TR-802)</p> <p>Hazardous-Equipment Safety Review Committee and Liquid Hydrogen Safety Committee, "Procedures for the Design and Operation of Hazardous Research Equipment," 1961 (UCRL-9711)</p> <p>Charles L. Dunham, "United States Atomic Energy Commission Experience from Past Incidents," 1961</p> <p>Douglas K. Craig, "The Adsorption of Radioactive Fission Products onto Aerosols as a Function of Particle Size, n.d.</p> <p>E.L. Etheridge, "Field Leak Testing of Hapo Reactor Confinement Filter Installations, 1961 (HW-71083)</p> <p>Joseph J. Fitzgerald and Charles Detwiler, "Optimum Particle Size for Penetration Through the Millipore Filter," 1957</p> <p>W. B. Harris, et. al., "Environmental Hazards Associated with the Milling of Uranium Ore: A Summary Report," 1958 (HASL-40)</p> <p>J. A. Brink, Jr., "Mist Removal - P<sub>2</sub>O<sub>5</sub>," 1960</p> <p>Earl K. Hyde and Glenn T. Seaborg, "The Transuranium Elements," 1956 (USRL-3312)</p> <p>Fritz Bangert, "Influence of Speed of Flow, Size of Particle and Concentration of the Collection Efficiency of Aerosol Filters," 1964 (UCRL-Trans-1047) (and reprint in original German)</p> <p>Fritz Bangert, "Evaluation of Aerosol Filters by the Oil Mist Method, 1964 (UCRL-Trans-1045) (and reprint in original German)</p> <p>Fritz Bangert, "A New Dust Measuring Apparatus for Evaluation of Aerosol Filters," 1964 (UCRL-Trans-106) (and reprint in original German)</p>	

## Lawrence Berkeley Laboratory Records Transmittal Addendum

<b>Division and Department</b> Environment, Health and Safety--Environment Dept.	<b>LBL Accession Number</b>
<b>Section, Group or Project</b> Environmental Protection	<b>Page Number</b> <div style="text-align: right;">5</div>
<b>Records Title</b> Jensen Young's Group Leader's Administrative Subject Files	

Office Box Number	Description of Records in Each Box	Box Location
1/4 contd.	<p>Jensen Young, et. al., "Dry Scrubber Unit for Low-Leak Ventilation Systems," 1963 (UCRL-10953)</p> <p>Jensen Young and Will D. Phillips, "Explosion Tests in a Gloved Box with Either-Air Mixtures," 1965 (UCRL-16259)</p> <p>P.W. Howe and W. Pearce, "Ventilation System for Use in Transcurium Processing," n.d.</p> <p>Be Room Encl.--H.C. (Health Chemistry) ventilation equipment design drawings, black and white photographs of equipment and room layout of Beryllium Room (77-242), 1959-65</p> <p>DRI Scrubber--copies of cutaway equipment drawing for Dry Scrubber and schematic for "Low-leak" ventilation system for high-level enclosures, n.d.</p> <p>Cave System Layout--copies of schematic for "Low-leak" ventilation system for high-level enclosures and regular ventilation system, n.d.</p> <p>XIV A3 Lathe Enclosure--H.C. (Health Chemistry) equipment design drawings lathe enclosure (Building 7), typed sheet of XIV A 3 Lathe Enclosure LRL Health Chemistry Drawing Catalog (1959-60)</p> <p>Unlabeled press binder containing two copies of typescript "Hood Air Samplers (Stack Samplers)," 1959 and H.C. Lab Equipment drawings and sketches of stack sampler parts, 1960 by Jensen Young</p> <p>Radioautographs of Filter Queen Samples (labeled press binder)--radioautographs of filter queen air samples and relevant memorandums, 1959-61; includes 60" cyclotron Pu 239 spill and Building 70, Room 143-2</p> <p>4 ' H2O Cave Run DOR Slugs 5/63--Draft notes, graphs, charts, LRL environmental samples, 1963</p> <p>Nuclear Emulsion Studies on Radium 226 from Spill in Bldg 70, Room 147A, 10/25/56-10/26/56 (labeled press binder)--Filter queen sample radioautographs</p>	

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<b>Records Title</b> Jensen Young's Group Leader's Administrative Subject Files	

Office Box Number	Description of Records in Each Box	Box Location
1/4 contd.	<p>Radioactive Dust Collector, 6-2-60 (labeled press binder)--copy of memorandum from Jensen Young regarding experimentation with new model of disposable decon vacuum cleaner along with cutaway drawing, labeled photographs, and H.C. ventilation equipment drawings and sketches of radioactive dust collector, 1960-61</p> <p>Hood Air Samplers (labeled press binder)--labeled photographs, typescript "Hood Air Samplers (Stack Samplers)," copy of memorandum re stack sampler evaluation, H.C. lab equipment drawing and sketches, typescript list of hoods, and draft notes (1960-61)</p> <p>128 Channel Gamma PHA Rogue's Gallery (labeled press binder)--radioautographs of filter queen air samples, including swipes from Hilac post-stripper, 70-218, Crocker TMT Room</p> <p>Hood Air Samplers (labeled press binder)--labeled photographs, typescript "Hood Air Samplers (Stack Samplers)," copy of memorandum re stack sampler evaluation, H.C. lab equipment drawing and sketches</p> <p>Aries (Airborne Radiation in Environmental Sample) input cards and printouts, 1963-65</p> <p>Building 70A Ventilation and Hoods - Building 70--Multiple copies of ventilation system performance summaries (1965)</p> <p>Operating Instructions Hastings Air Velocity Meter (manila envelope)</p> <p>Unlabeled folder containing circular graphs, summary data charts (CF 750), and draft notes (1965)</p> <p>Operating Instructions and Parts List for David Bradley Generator, n.d.</p> <p>Hood Air Samplers Design Data (labeled press binder)--typescript "Hood Air Samplers (Stack Samplers)," copy of memorandum re stack sampler evaluation, H.C. lab equipment drawing and sketches (1959-61)</p> <p>Supervisory Tgn--draft notes, certificate of training (Jensen Young), class handouts, 1962</p>	

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**Records Title**

Jensen Young's Group Leader's Administrative Subject Files

Office Box Number	Description of Records in Each Box	Box Location
1/4 cont'd	<p>Airborne Program--annotated typescript outline, draft notes, annotated memoranda itemizing airborne programs at LRL, 1961</p> <p>Hood Patterns Donner B-1--Hood characteristics inspection charts, memoranda and meeting minutes relating to ventilation of Donner Laboratory, 1950-61</p> <p>Hood Patterns Crocker B-2--Hood characteristics inspection charts, memoranda relating to ventilation of Crocker, 1950-60</p> <p>Hood Patterns Bldg. 4--Hood characteristics inspection charts, memoranda, draft notes relating to ventilation of Building 4, 1950-62</p> <p>Hood Patterns Bldg. 5--Hood characteristics inspection charts, draft notes relating to ventilation of Building 5, 1950</p> <p>Hood Patterns Bldg. 50--Hood characteristics inspection charts, draft notes, memoranda relating to ventilation of Building 50, 1950</p> <p>Hood Patterns Gilman Hall--Hood characteristics inspection charts, draft notes, memoranda relating to ventilation of Gilman Hall, 1950</p> <p>Hood Patterns LSB--Hood characteristics inspection charts, memorandum relating to ventilation of Life Sciences Building, 1950</p> <p>Hood Patterns Lewis Hall--Hood characteristics inspection charts, memorandum relating to ventilation of Lewis Hall, 1950</p> <p>Stack Sampling Programs--Draft notes, copies of memoranda and equipment sketches, and non-LBL technical information re expansion of stack sampling installations, 1960-62</p> <p>Filter Checker--HCD Ventilation equipment design drawings for Filter Testing Equipment--Cloud Monitor (1961)</p> <p>HC - HC Symposium 1962--Draft typescripts of "Filter Testing at LRL Berkeley" (1962) by Jensen Young, Joint Symposium Ventilation of Hazardous Operations program materials, memoranda, presentation materials, 1962</p>	

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<b>Records Title</b> Jensen Young's Group Leader's Administrative Subject Files	

Office Box Number	Description of Records in Each Box	Box Location
1/4 cont'd	Cloud Monitor--H.C. Ventilation equipment design drawings for filter testing equipment, cloud monitor, draft notes, report (C.L. Lindeken, et. al., Portable DOP Tester for Inspection of High Efficiency Filters, 1962 (UCRL-6597), 1961-63 Hood Air Sampler PA 1157--H.C. lab equipment design drawings, job orders, sketches, draft notes for hood air samplers, 1957-59	
2/4	Hood Samplers--Correspondence re parts and samples for hood exhaust samplers, draft notes re hood samplers experiments and hood sampler program, 1957-58 Misc. Notes--Copies of memos re emergency procedures for building ventilation shutdown, summary of air sampling equipment and procedures in the U.S., report on supervisor's training course, newsletters, 1951-63 AEC Health and Safety Information newsletters, 1964-66 Filter, PO.--Memoranda, draft notes, draft specifications, H.C. ventilation equipment drawings re filters, 1962-63 Filters, Non-Metallic (Liv.), Vac-Line--job orders, copies of equipment design drawings for non-metallic filter, 1960 Hi-Eff. Filters--memoranda re high efficiency filter housing rework, multiple copies of specifications for high efficiency filter housings, photographs of Building 74 high efficiency filters, 1962 High efficiency particulate air (HEPA) filter unit materials--draft notes, AEC Health and Safety Information newsletters, specifications, 1962-71 Specs -Filter - Plywood, v.6, Burning, AEC--AEC Accident and Fire Prevention Information newsletters, non-LBL filter specifications, H.C. ventilation design drawings, 1958-59 Filters LRL #6 - E-130--Filter test results, draft specifications for Specifications E-130: Filter, Air, Particulate, Self-Contained, High efficiency, Fire and Humidity Resistive, LRL Model 6, H.C. ventilation equipment design drawings, 1962	

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<b>Records Title</b> Jensen Young's Group Leader's Administrative Subject Files	

Office Box Number	Description of Records in Each Box	Box Location
2/4 cont'd.	Filters Literature--Copies of memoranda, AEC Health Safety Information newsletters, testing and specification standards, 1958-65 Filters Cambridge--Cambridge Filter Corporation design drawings, 1958 Punctured Filters--photographs Specs Filters - LRL E-85 Model #4--Specification E-139 (LRL Model 4A) and E-85 (Model 4), with memoranda, annotations, HC ventilation equipment design drawings, 1960-62 Filters LRL Mod \$A, E-139 (2 profilters)--memoranda and test results (1964) Filters LRL #5 (rev), E-93A--memoranda, test results, Specifications E-93A, LRL Model 5, draft and final, 1963 Filters, General--Address lists, AEC newsletters, non-LBL design drawings, memoranda and correspondence to AEC and underwriter laboratories re LRL filter specifications, 1960-61 Filters LRL mod 7 (1 profilter), E 140--Test results, memoranda, correspondence, Specification E-142, LRL Model 7, 1965-68 Filter Specs LRL #5, E-93--Memoranda, purchase requisitions, draft and final Specification E-93, LRL Model 5, 1961 Filters, Livermore--Filter specifications, Mechanical Engineering Department, Livermore, 1959-62 Extra Copies of "Disposable Decon Vac Cleaner" Prints--memoranda, cutaway drawing, H.C. lab equipment design drawings of radioactive dust collector, 1960 Labeled Photos--equipment and scientists, labeled and with LBL photograph identification number, 1960-63 Napkin Ring 4A-B, 5AB, General Notes--equipment design sketches by Jensen Young, job orders and draft notes re leak rates of NR #5 boxes, 1956-57 Cave-Run Airborne Log (logbook)--ventilation procedures for 6 Inch Cave Run Operation cave boxes, memorandum with Cave Run 1959 Airborne assignments, survey readings, 1959	

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<b>Records Title</b> Jensen Young's Group Leader's Administrative Subject Files	

Office Box Number	Description of Records in Each Box	Box Location
2/4 cont'd.	Cave Run 1959--memoranda, project authorizations, equipment design sketches (J. Young), 1958-59 Cave Chemistry Index, Box Chemistry Index, n.d. NR IV AB-RR; MF--Memoranda, draft notes, graphs re ventilation system for NR IV AB-RR (napkin ring run, Building 70-141), 1958 NR # 4AB-RR--Flow sheet for cave run March 1958, equipment design sketches (J. Young), draft notes, project authorization, 1957-58 1961 Cave Run, PHA-MF--Graphs, draft notes, 1961 Cave Run 1961 (Neutron Shield)--Livermore Cave Run Feb. 1962 Log, Neutron shield ventilation schematic sketch (J. Young), draft notes, memoranda, ventilation reports re cave runs (1959-61) N.R. Runs-Vent. Equip. Reports--Ventilation reports and memoranda on cave runs, gas scrubbers, 1959 Closed Dissolver, Production Model, M.K. I--Draft notes for proposed design, 1956 Irradiation Slug Dissolving Off-Gas Capture--Abstract and draft notes, 1956 Dry Scrubber Report 4' & 6' Cave Run--Airborne Engineering Progress Reports a draft typescript of "Dry Scrubber Unit for Low Leak Ventilation Systems at Lawrence Radiation Laboratory," by J. Young, et. al., 1962-63 Equipment photographs (with LRL photographic identification number and wiring diagrams, 1963 LRL Health Chemistry Airborne Control's Radioactivity in Air graphs, 1952-62 NR-4AB-RR Report, Airborne--Memorandum re ventilation system for NR IV AB-RR and ventilation system diagram, 1958 CM <sup>244</sup> Capsuling Run, 8/12-8/13/58--Spiral notebook with draft notes, memorandum, draft graphs on manifold samples, 1956-58	

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<b>Records Title</b> Jensen Young's Group Leader's Administrative Subject Files	

Office Box Number	Description of Records in Each Box	Box Location
2/4 cont'd.	<p>Pu Spill Rm 5-105 Air Samples--Draft memo and notes by Myron D. Thaxter, 1951</p> <p>NR IV--Airborne Activity control Group's report on NR IV processing experiences and graphs on millipore filters alpha and beta counts, 1956</p> <p>Environ. Sampling (Air): Vanes &amp; Cloth--Memorandum, draft notes, graphs re radioisotope air sampling, 1957-58</p> <p>Atmospheric Background--Air sampling for radioactivity reports, summary graphs, draft notes, 1952-57</p> <p>Special Air Testing--Data sheets on air sampling for radioisotopes, graphs, draft notes, 1951</p> <p>1954 Spring Tests Atmospheric Activity at UCRL Berkeley--Air sampling for radioactivity reports, graphs, draft notes, 1954-55</p> <p>1955 Teapot Series Air Samples &amp; Documents--Memorandum, air sampling for radioactivity reports, graphs, draft notes, 1954-55</p> <p>Fallout Oct-Nov. '58 Letter to Dr. Dunning &amp; Worksheets--memorandum, graphs, charts, draft notes, correspondence, 1958</p> <p>Specia-Air Test-Graphs, 1951--Graphs, 1951</p> <p>1957 "Plumbob"--Graph on 1957 fallout data, clippings, draft notes</p> <p>Air Sampling Special--Correspondence and graphs re air sampling program for filterable beta-gamma variations, 1951</p> <p>Redwing 1956 Air Samples--Correspondence, draft notes, charts and graphs re radiological monitoring of outdoor air for fallout, 1956-57</p> <p>Fallout: Hardtack 1958, Apr. 5-Nov. 15--Correspondence and report re LRL Fallout Information (by M.D. Thaxter and J. Young), 1958-59</p> <p>Rain 58-59--Draft notes and chart</p> <p>Rainout '58--Charts, draft rainwater sampling procedures, draft memoranda, graphs, draft notes, correspondence re rainwater sampling for radioactivity, 1958</p>	



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<b>Records Title</b> Jensen Young's Group Leader's Administrative Subject Files	

Office Box Number	Description of Records in Each Box	Box Location
3/4	<p>Air Samples of Spills--Air Sampling for Radioactivity reports, graphs, draft notes, memoranda, radioautographs re air sampling of spills, 1953-59</p> <p>Handwritten ventilation progress reports/maintenance reports, 1967-78</p> <p>Environmental Reports--Annual summaries of sampling results (1964-65) and individual analysis results, 1962-66</p> <p>Progress &amp; Engin. Meeting Reports--Progress reports for Airborne Engineering (1961-66), Engineering Section (1966-67), Special Technology Group (1967-72), and Safety Technology Group (1970-77)</p> <p>PS &amp; ES Problems--Memoranda, draft notes, hood characteristics inspection charts re ventilation measurement problems, 1966</p> <p>Peracetic Acid, B. 74--Draft notes, correspondence re ventilation of 74-174 and fumes from peracetic acid spraying</p> <p>Critical Circuits--Correspondence, memoranda, wiring diagrams, emergency power panel board schedules re Health Chemistry Department's items supplied with emergency power during power shutdown, 1964-68</p> <p>Correspondence--1958-66</p> <p>Correspondence re B.75 Filter plenum--Correspondence and photograph re corrosion of Building 75 intake air system, 1965</p> <p>Budget Requests--Memoranda, budget worksheets, 1962-66</p> <p>I<sub>2</sub> Expt. Charcoal Filters--Charts, Reports of Special Analysis, 1964-65</p> <p>H2O Cave Slug Dissolving H2 Gopher--Draft notes and charts</p> <p>Tool List--List of tools for group use</p> <p>Stock List (LIV), Storage Tags (Army Perm)--Airborne apparatus lists (with drawing numbers) and service storage tags, 1960</p> <p>Job Orders Complete--Job orders and memoranda, 1959-78</p> <p>PO's Pending--Purchase orders, 1968-72</p> <p>PO's Rec'd--Purchase orders, 1962-68</p>	

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<b>Records Title</b> Jensen Young's Group Leader's Administrative Subject Files	

Office Box Number	Description of Records in Each Box	Box Location
3/4 cont'd.	Procurement Record--Health Chemistry Procurement and Work Order Requests and job orders, 1963-64 PO's Rec'd--Procurement reports, 1963-66 Airborne Notes (Reports, General)--Memoranda, draft notes, reports, 1959-64 Cave Fire Test CO <sub>2</sub> System--Draft notes PA's Pending--LRL Safety Service Project Authorizations, 1968-72 PA's Completed, 1964- --LRL Health Chemistry/Safety Service Project Authorizations, 1963-69 Completed PA's--LRL Health Chemistry Project Authorizations, 1958-63 Dry scrubber--H.C. ventilation equipment design drawings, memoranda, reports, charts, printouts, draft notes, 1963	
4/4	Sampling Equipment--H.C. ventilation equipment design drawings, 1960-68 ERAP Sampler--Design sketch, 1968 Charcoal Filters--H.C. ventilation equipment design drawings, 1962-66 Radioactive Dust Collector--Photographs, memoranda, draft notes, H.C. lab equipment design drawings, 1960 Environmental Shack Equipment--Plant Engineering plans, elevations, details for environmental monitoring stations, design sketches, 1961-70 Miehle-Goss-Dexter Vane Pump Air Flow Data--Draft notes, 1973 Blue Room Equipment--Summary of control of airborne hazards in Building 7 "Blue Room" (1959), equipment data sheet, H.C. enclosure design drawing, design sketches, memoranda, 1959-63 Blue Room Filters--H.C. ventilation design drawings, 1962 Experiments, NYO--Experiment descriptions, n.d. Pilot Tube 2"--Safety Services ventilation equipment design drawing, 1970 Tees--H.C. ventilation equipment design drawings, 1961	

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<b>Records Title</b> Jensen Young's Group Leader's Administrative Subject Files	

Office Box Number	Description of Records in Each Box	Box Location
4/4 cont'd.	Flanged Nipples--H.C. ventilation equipment design drawings, 1960-62 Nipples--H.C. ventilation equipment design drawings, sketches, Plant Engineering plans, 1955-63 ILG Blower Equipment--Design drawings, 1969 Cave Run Equipment--H.C. ventilation equipment design drawing, 1966 Adapters & Filter plenums--H.C. equipment design drawings, sketches, 1956-68 Elbows--H.C. ventilation equipment design drawings, 1956-61 Redmond Blwr Fitting--H.C. vent system design drawings, 1951-62 SR <sup>90</sup> -Y <sup>90</sup> Milking--H.C. equipment design drawing for SR <sup>90</sup> -Y <sup>90</sup> milking evaporation system, design sketches, project authorization, 1961 SR90-Y90 Condenser System--H.C. equipment design drawings, 1961 C1402 Traps--Correspondence, H.C. ventilation equipment design drawings, job orders, 1962-73 Cave Room Equipment--H.C. equipment design drawings, 1963 Mounting Brackets--H.C. equipment design drawings, 1961-63 Cave Area membrane Filters, Auto Count 6-5-64 Filter Phantoms, Bldg. 74--Plant engineering plans, 1964-66 Filters--Specifications E-142, LRL Model 7, H.C. laboratory equipment design drawings and sketches, 1960-67 Electrical and Electronic--H.C. equipment design drawings and schematics, 1957-69 Berkeley Box Man--H.C. equipment and enclosures design drawings, engineering notes, specifications, schematics, requisitions, draft notes re Berkeley Box manifolds, 1957-61 Pressure Relief Assembly--H.C. ventilation equipment design drawings, schematics, draft notes, fabrication plans for thermal type manifold control boxes, 1963-65	

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<b>Records Title</b> Jensen Young's Group Leader's Files	

Office Box Number	Description of Records in Each Box	Box Location
4/4 cont'd.	<p>Scrubber (Laura)--Design drawings and sketches for Laura ventilation equipment, Andrews Scrubber, 1954</p> <p>Calibration Equipment--H.C. ventilation equipment design drawing, 1965</p> <p>HClO4 Scrubber Glass--H.C. ventilation equipment design drawing, 1962</p> <p>Emergency Exhausters--Hood characteristics inspection chart, engineering note, 1954-69</p> <p>H.C. Ventilation design drawings for blower and filter, 1958</p> <p>Bldg. 70 Alterations - Additions--Job orders, plant engineering drawings, memoranda, sketches, draft notes, 1955-66</p> <p>Alterations, etc. B. 70A--Job orders, plant engineering drawings, memoranda, 1961-62</p> <p>70, 70A Roof Enclosure--Memorandum, draft notes, drawings, 1964</p> <p>70A Misc--Memoranda, plant engineering drawings, floor plans, job orders, 1961-65</p> <p>Alterations B. 71--Reports, draft notes, floor plans, memoranda, job orders, plant engineering drawings, 1959-73</p> <p>Alterations, Bldg. 74--Plant engineering drawing, memorandum, job order, 1964</p> <p>B75 Pit Room Pit Storage Exhaust--Draft notes, H.C. design drawings, 1965</p> <p>Floor Plans Bldg 70, 70A--Draft notes, floor plans, n.d.</p> <p>Alterations 77--Memorandum, job orders, 1964</p> <p>Other Bldgs. Alterations, Additions--Job orders, plant engineering drawings, memoranda, sketches, draft notes, floor plans, 1959-64</p> <p>Alterations Campus--Job orders, plant engineering drawings, memoranda, sketches, draft notes, floor plans, 1959-64</p>	

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<b>Records Title</b> Jensen Young's Group Leader's Files	

Office Box Number	Description of Records in Each Box	Box Location
4/4 cont'd.	Alterations Le Conte--Job orders, plant engineering drawings, specifications, schematics, 1959-64 "Particles" - HILAC Spill--Radioautographs, draft notes, memoranda, charts, graphs and LRL publication "High Level Spill at the HILAC" by N.B. Garden and C. Dailey (UCRL 8919, 1959) Ancient Rain Records--memoranda, charts, Health Chemistry Laboratory Equipment drawing, Radioactivity in Rainwater charts, procedures (1958-60) Jensen Young (previously unfolded material; refoldered)--Correspondence, non-LBL reports: K.J. Schiager, et. al., "Improved membrane Filter Air Sampling Methods for Environmental Control," R.E. Yoder, et. al., "Foam Suppression of Radioactive Iodine and Particulates" (1964), W.E. Browning, et. al., "Removal of fission Product Gases from Reactor Off-Gas streams by Absorption" (1959), L. Silverman and R.A. Gussman, "Air Cleaning Studies; Diffusion Board Project; Summary Progress Report" (1963), draft notes (1959-64) Livermore Cave Run - 1962--Photograph, draft notes, memoranda, graphs, H.C. Equipment diagram (1962-63) 169 Manifold, B70 Y <sup>90</sup> Expt, 6/6/60--Draft notes, samples (1960) "In-Line" Filter Testing--Memoranda, draft notes, diagrams (1957-60) PHA - NR IV AB - RR MF--Graphs (n.d.) Cave Run - 1959 MF's--Draft notes, schematics, graphs, H.C. Ventilation Equipment drawing (1959-61)	

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245 00 #aJensen Young's Group Leader's Administrative Subject Files, #f  
1951-1978 #h[architectural and engineering drawings; maps and  
charts; textual; photographs].  
300 #a4 cubic ft.  
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Information Act and the U.S. Privacy Act. #bLawrence Berkeley  
Laboratory, Archives and Records Office #cAccess by appointment with  
repository #eContract DE-AC03-76SF00098.  
520 8 #aThese records document the administrative activities and  
responsibilities of Jensen Young as the group leader of the Airborne  
Engineering Group and the section leader for Engineering in the  
Health Chemistry Department (with some additional records  
documenting his leadership of the Special Technology Group and  
Safety Technology Group in the Engineering and Technical Services  
Division). The Airborne Engineering Group was responsible for all  
air treatment engineering and maintenance of airborne equipment at  
Lawrence Berkeley Laboratory (formerly Lawrence Radiation  
Laboratory). The records include publications relating to health  
chemistry equipment and techniques, ventilation equipment design  
drawings, radioautographs of filter queen samples, schematics, plant  
engineering drawings, correspondence, draft notes, unit progress  
reports, memoranda, job orders, project authorizations, filter test  
results, and personnel photographs. Also included are some files of  
Myron D. Thaxter of the Health Chemistry Department. The records  
were maintained by the Environment, Health & Safety Division,  
Environment Department, Environmental Protection.  
555 8 #aRecords transmittal with container list #bavailable for use at the  
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590 #aAuthorized disposition: (Schedule 19.10.b[1]) Permanent. Cut off  
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Airborne Engineering Group #xManagement.  
610 20 #aLawrence Radiation Laboratory. #bSupport. #bHealth Chemistry. #b  
Engineering #xManagement.  
650 0 #aIndustrial safety.  
650 0 #aEnvironmental protection.  
650 0 #aEnvironmental monitoring.  
690 4 #aAirborne engineering.  
700 1 #aYoung, Jensen.  
700 1 #aThaxter, Myron D.

710 2 †aLawrence Berkeley Laboratory. †bEnvironment, Health and Safety  
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Type of unit :  
Materials spec.:

Actions

Actions:

Action: Condition reviewed	Action Id :
Time : 10/12/93	Interval :
Agent :	Contingency :
Method:	Authorization:
Site :	Jurisdiction :
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Status: Preservation concern:	
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<b>Section, Group or Project</b> William E. Siri		<b>LBL Accession Date</b>  2/28/91
<b>Building and Room Number</b> 90-4129A	<b>Extension</b> 5396	<b>File Code</b>  19-14-18
<b>Person Transferring the Records</b> William E. Siri		<b>NARA Accession Number</b>  (434) 91-0131
<b>Department Head</b>		<b>Archives Receipt (Signature and Date)</b>  <i>Don Hefner (HR) 2/28/91</i>
<b>Records Title</b> Papers of William E. Siri		
<b>Inclusive Dates of the Records</b> 1945 - 1989		<b>Number of Records Boxes</b> 9 BOXES
<b>Brief Description of the Records</b> Correspondence collected in binders and folders; manuscripts, drafts, and article reprints pertaining to human gross body composition research; includes test subject charts & graphs; American Mt. Everest Expedition notes & logbooks; altitude chamber logbooks; subjects include hydrogen exchange, acromegalia, hypoxia; cytology. Also various biophysics conference papers; travel papers; Nat'l Research Council Comm. papers; papers pertaining to energy & Environmental impact analyses; energy storage systems. <p style="text-align: right;">Arranged chronologically and by subject.</p>		
<b>Type of Materials: (Check all that apply.)</b>		
<input checked="" type="checkbox"/> Architectural and Engineering Drawings <input type="checkbox"/> Photographs <input type="checkbox"/> Electronic Data <input type="checkbox"/> Sound Recordings <input checked="" type="checkbox"/> Graphs and Charts <input checked="" type="checkbox"/> Transparencies <input type="checkbox"/> Microfilm <input type="checkbox"/> X-Rays <input checked="" type="checkbox"/> Paper Files <input checked="" type="checkbox"/> Other Specify <u>1 carton electrocardiograph tapes.</u>		
<b>Records Retention and Disposition (Call the Archives if you need this information.)</b>		
<input checked="" type="checkbox"/> Historically Valuable Records. Do not destroy. A detailed folder list is included with this Records Transmittal. <input type="checkbox"/> Destroy on a scheduled basis with a minimum retention of _____ years. Disposal date <u>Perm.</u>		
<b>This is in accordance with:</b>		
<input checked="" type="checkbox"/> The National Archives General Retention Schedule. Citation <u>IN-434-89-8 Sch. 19 Item 14.a.</u> <input type="checkbox"/> The Department of Energy Retention Schedule. Citation _____		
<b>Disposal Authorization (To be signed at the expiration of retention.)</b>		
The legal retention of the records listed on this Records Transmittal has elapsed. Since I foresee no use of these records that would justify further retention, I authorize their disposal.		
_____ Signature of Department Head		_____ Date

**LAWRENCE BERKELEY LABORATORY  
RECORDS TRANSMITTAL ADDENDUM**

<b>Division and Department</b> Applied Science Division	<b>LBL Accession Number</b>
<b>Section, Group or Project</b> William E. Siri	<b>Page Number</b> 2
<b>Records Title</b> Papers of William E. Siri	

Office Box Number	Description of Records in Each Box	Box Location
1	<p><u>Binders:</u></p> <ol style="list-style-type: none"> <li>1. Inter-Office Correspondence, 1945-1957.</li> <li>2. Inter-Office Correspondence, 1958-1960.</li> <li>3. Inter-Office Memoranda through 1969.</li> <li>4. All Correspondence, 1945-1949.</li> <li>5. All Correspondence, 1950-1953.</li> <li>6. All Correspondence, 1954-1957.</li> <li>7. Miscellaneous Correspondence, 1958-1960.</li> <li>8. Miscellaneous Correspondence, 1961-1964.</li> <li>9. Miscellaneous Correspondence, 1965-1970.</li> <li>10. Miscellaneous Correspondence, 1971-19__.</li> </ol>	<p>FRC LOCATION</p> <p>416841-416849</p>
2	<ol style="list-style-type: none"> <li>11. Peruvian Trip. 1952</li> <li>12. Third International Conference on Medical Electronics. Olympia, London. July 21-27, 1960.</li> <li>13. "Techniques of Organic Chemistry."</li> <li>14. "The Gross Composition of the Body." Advances in Biological Physics, Academic Press, 1956 (manuscript and article reprint).</li> <li>15. Manuscript, "Body Composition from Fluid Spaces and Density: Analysis of Methods." (includes correspondence, draft, manuscript)</li> <li>16. "An Apparatus for Measuring Human Body Volume," abstract and paper.</li> <li>17. "Apparatus for Measuring Human Body Volume," correspondence, galley proof, draft).</li> <li>18. NAS,NRC Conference on Body Composition, Natick, Mass., Jan. 21-22, 1959. Two manuscripts.</li> </ol>	

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<b>Records Title</b> Papers of William E. Siri	

Office Box Number	Description of Records in Each Box	Box Location
2 (cont)	19. Osygen Warning System (draft, graphs). 20. Bolivia. Fe <sup>59</sup> Turnover. (notebook, graphs, charts). 21. Peruvian Data. (Patient rate charts, electro-cardiogram display, correspondence, draft paper) 22. Handbook of Biological Data, NRC (correspondence). 23. Extra Copies and Pages. Chamber Experiments. (draft research appers) 24. "Hydrogen Exchange in Biological Systems," Revised. 25. "A Mass Spectroscope for Low Mass Analysis," (paper draft, 1947) 26. Conference on Body Composition (correspondence and program, 1962).	
3	27. Altitude Chamber Sign-up Book. (human and animal, 1963-1969) 28. Low Pressure Chamber Logbook, No. 1, Feb. 15, 1957-1962, 1971-75. 29. Patient Graphs. Fatty Acid Composition of Human Adipose Tissue. 30. Fatty Acid Papers. 31. Altitude Chamber (Operating instructions and drawing).	

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Office Box Number	Description of Records in Each Box	Box Location
3 (cont)	32. Acromegalic Patients (1970). 33. Calculations - Body Volume. 34. Charles Donaldson - Pub. Health subjects. 35. Patient Data. 36. Physical Education Subjects. 1st Run. 37. Body Volume. Chamber Tests. 38. Body Composition and Blood Volume Data. 39. "Dr. Gutentag" (Patient Charts) 40. Human Volume Chamber Engineering Drawings (1953). 41. Hydrogen Exchange. 42. "Old Coffin Research." (1951-1952) 43. (Blood Count Graphs - rats) 44. "Will Siri. Altitude Chamber Portfolio" (1). 45. "Will Siri. Altitude Chamber Portfolio" (2). 46. Normal Men and Blood Volumes. 1953/1954. (Binder of Patient Charts). 47. Normal Women (Binder of Patient Charts). 48. "Body Composition Determinations" (Patient Charts, #1) 49. "Body Composition Determinations" (Patient Charts, #1)	

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<b>Division and Department</b> Applied Science Division	<b>LBL Accession Number</b>
<b>Section, Group or Project</b> William E. Siri	<b>Page Number</b> 5
<b>Records Title</b> Papers of William E. Siri	

Office Box Number	Description of Records in Each Box	Box Location
4	<p><u>Binders.</u></p> <p>50. Body Composition - Everest Team. (Filed by team member)</p> <p>51. Pre-Expedition Laboratory Reports and Records (1962-1963, charts).</p> <p>52. Post-Expedition Laboratory Records and Reports.</p> <p>53. Normal Patients 1952. Volume and Water.</p> <p>54. Body Volume Standards. 1971 Jan-June.</p> <p>55. Body Volume App. Parts List. (Drawings)</p> <p>56. Body Composition and Test Data for TBW. B.V. App. (1954)</p>	
5	<p>57. Graphs, Normal Patients</p> <p>58. Body Volume (B.V.D.) Calculations. Drawings, Designs. BV App.</p> <p>59. Public Health Study - 1962.</p> <p>60. Patients, 100-119, Arblaster - , No. 1. (1956 - 1970)</p> <p>61. Patients, 120-130, 1970, No. 2.</p> <p>62. Patients, 131-150, 1971, No. 3.</p> <p>63. Patients, 251-275, No. 8.</p>	

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<b>Records Title</b> Papers of William E. Siri	

Office Box Number	Description of Records in Each Box	Box Location
6	<u>Binders</u>  64. Patients, 276, No. 9.  65. Index.  66. Acromegalics 1971.  67. Blood Analysis. (he, Ret, Hb Content, Index).  68. Bed Rest Studies, 1/69-3/70.  69. Counting Data, 1-1-71.	
7	<u>Folders</u>  70. Abstracts - Manuscripts: "Red Blood Cell Production in Man at Moderate and Extreme Altitudes."  71. (LRL memoranda, instructions for manuscripts)  72. Reports, Donner Laboratory. Annual Reports (U.S.A.E.C. and Smithsonian project proposals, manuscript guidelines, project descriptions).  73. <u>Binder</u> : "High Altitude Chamber Test with a Human Subject, October 1962, William E. Siri." (charts, research notes, graphs).  74. Interoffice, 1970 through 1972.  75. Interoffice, 1973 - (LRL memoranda)  76. A. R. Betinke	

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<b>Records Title</b> Papers of William E. Siri	

Office Box Number	Description of Records in Each Box	Box Location
7 (cont)	77. Dr. Leo Meyer (Marshall Island Natives) 78. High School Training Program - Summer 1960. 79. Summer Institute in Radiation Biology. Ext. Div. July 1962. 80. Extension Division - Institute in Radiobiology, 1965. 81. Summer Institute Radiation Biology 1968. 82. Summer Institute Radiation Biology 1967. 83. Summer Institute Radiation Biology 1971. 84. Summer Institute in Radiobiology 1970. 85. Summer Institute in Radiobiology 1969. 86. Summer Institute in Radiobiology 1972. 87. Office of Civil Defense. Radiological Course. 88. Biomedical Program Directors Meeting, 1955. AEC. 89. VRU12-2 Civilian Defense Committee. Correspondence. 90. Radioactivity and Radiation for Atomic Medicine. 91. McGraw-Hill Correspondence. 92. Donner Shelter Program. 93. Campus Shelter Committee.	

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<b>Records Title</b> Papers of William E. Siri	

Office Box Number	Description of Records in Each Box	Box Location
7 (cont)	94. Campus Redwood Grove. 95. State Public Health. Body Composition Program- R. Steinkamp. 96. Radioisotope Committee - Veterans Hospital. 97. Biophysics Graduate Student Conference. Jan. 30, 1971. 98. R.N. Pierson. 99. Equipment. 100. Form 189. 1974-75. Tritium. 101. Reports. 102. European Trip. 1959. 103. Abstracts for Feb. 1961, AEC Directors Meeting. 104. National Instrument Laboratories. B.V.D. Correspondence. 105. National Instrument Laboratories, B.V.D. 106. Gerontological Conference. S.F., Aug. 7-11, 1960. 107. Trips, 1958. 108. European Trip, July 20 - Aug. 6, 1960. 109. Dr. Torun. 110. Body Composition Report/Paper. Steinkamp, et.al.	

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<b>Records Title</b> Papers of William E. Siri	

Office Box Number	Description of Records in Each Box	Box Location
7 (cont)	<p>111. Body Composition Conference, May 1967.</p> <p>112. Lecture Course for American College of Physicians, 1967.</p> <p>113. Hydrogen - Tritium Exchange <u>Notes</u>.</p> <p>114. Nutrition Today.</p> <p>115. Science Paper, "Determination of Human Body Composition."</p> <p>116. Hypophy. Paper. Berlin, Van Dyke, Siri.</p> <p>117. Abstracts (written).</p> <p>118. Berlin and Siri. "Isotopic Determination of Body Composition in Man."</p> <p>119. "Bolivian High Altitude Laboratory." Aviation Medicine.</p> <p>120. C<sup>14</sup> - Labeled Glicene - Dose Estimations.</p> <p>121. Ca<sup>14</sup> - Tobias</p> <p>122. Water Intake of Grazing Sheep - Luick, Torell, and Siri.</p> <p>123. Tritium Symposium. Aug. 30-Sep. 2, Las Vegas.</p> <p>124. "Biomedical Applications of Short-lived Radionuclides" (carbon copy); "Proposal for an Integrated Low-Background Counting Gacility for the Omnitron."</p>	

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<b>Records Title</b> Papers of William E. Siri	

Office Box Number	Description of Records in Each Box	Box Location
7 (cont)	125. Physiology Chapter for "Americans on Everest." 126. Introductory Remarks, "Nuclear Power: Public Benefits - Public Concern," Denver, Feb. 21-22, 1974. 127. FASEB. Table of Radionuclides in Research. 128. Tritium Body Water. 129. FASEB. Altitude and Cold Symposium. Colorado. 1968. 130. "Calcium-47" Meeting (binder, correspondence, internal report).	
8	131. Energy Storage Meeting, Dec. 8, 1976. 132. National Research Council. Executive Summary. Asilomar Conference. 133. National Research Council. Draft Reports. 4176. 134. National Research Council. Committee on Advanced Energy Storage Systems. Meetings - Correspondence. 135. Hydrogen Panel. National Research Council. 136. National Research Council. Committee on Advanced Storage Systems. 137. National Research Council. Energy Storage/H <sub>2</sub> . 138. Laboratory Equipment Committee.	

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<b>Records Title</b> Papers of William E. Siri	

Office Box Number	Description of Records in Each Box	Box Location
8 (cont)	<p>139. Group Memos and Staff Meetings.</p> <p>140. Energy and Environment Division (E&amp;E) Council (1980-1981). (Project Evaluation Criteria Drafts.)</p> <p>141. LBL Monthly Reports for Office of Environmental Assessment Programs.</p> <p>142. Division Publications Committee. Annual Report Recommendations.</p> <p>143. LBL. Energy Analysis Program - Descriptive. (Energy and Environment Division (1979)</p> <p>144. Hydrogen Fuel. (memoranda)</p> <p>145. Energy Policy for Local Governments Conference. Ed. Allen. (1975).</p> <p>146. U.C. Energy and Resources Council. (1977-1979)</p> <p>147. U.C. Energy Council (agenda; correspondence, minutes)</p> <p>148. Radiation Dose Calculations (1972) (research notes, calculations)</p> <p>149. Van Dyke, J.H. Lawrence, Siri, "Erythropoietin as an Etiologic Factor in Blood Dyscrasias" (1961) (reprint)</p> <p>150. Western Systems Coordinating Council (1974)</p>	

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Office Box Number	Description of Records in Each Box	Box Location
8 (cont)	<p>151. National Cancer Institute. Committee, Automation in Cytology. (Correspondence, minutes, reports, Confidential form).</p> <p>152. William Siri - Consulting Cytology Automation Committee. (1977)</p> <p>153. William Siri, National Research Council.</p> <p>154. Cytology Automation Committee - LASL (minutes, agenda, progress report)</p> <p>155. Cytology Automation Committee Meeting. (memoranda, correspondence)</p> <p>156. WINB (Western Interstate Nuclear Board). Waste Management Committee. Correspondence and Reports, 1972.</p> <p>157. WINB General. Meeting Notices.</p> <p>158. WINB, Waste Management Committee. Correspondence - Reports, 1973.</p> <p>159. WINB. Correspondence, Reports, 1974-1975-1976. (agenda, memoranda)</p>	
9	<p>160. Applied Science Division Annual Review (1986-1987).</p> <p>161. Applied Science Division. Project Leaders Meeting (1989).</p> <p>162. L.A.N.L. - International Study (Report, Correspondence (1985 - )).</p>	

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<b>Records Title</b> Papers of William E. Siri	

Office Box Number	Description of Records in Each Box	Box Location
9 (cont)	163. Local - Regional Government. 164. Washington Trip (1978) - E&E Division. 165. Correspondence (1982-1989). 166. LBL Anniversary Committee (1980-1981). 167. William Siri. LBL 1974-75. 168. William Siri. LBL 1976 Correspondence. 169. William Siri. LBL 1977 Correspondence. 170. William Siri. Correspondence 1978. 171. William Siri. Correspondence 1979. 172. William Siri. Correspondence 1980. 173. William Siri. Correspondence. 1981. 174. LBL Memoranda. 175. Energy and Environment Division. Memoranda, 1974-1980. 176. Energy Analysis Program - Description. 177. Regional Studies - 1974. 178. Energy Emergency Program. Transparencies. 179. Energy Alternative - CA. Transparencies.	

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<b>Records Title</b> Papers of William E. Siri	

Office Box Number	Description of Records in Each Box	Box Location
9 (cont)	<p>180. Western States. Impacts Project (report and correspondence).</p> <p>181. Travel.</p> <p>182. National Research Council (NRC).</p> <p>183. Sid Moglewer - Nuclear Material Accounting.</p> <p>184. NRC Proposal.</p> <p>185. NRC Nov. 1977.</p> <p>186. (Test Results. Body Composition. Arranged by test subject) (1971-1973).</p> <p>187. Rats -- First Try. 2.21.66-3.7.66 (graphs)</p> <p>188. Strawberry Canyon (Reserve System Proposal)</p> <p>189. U.C. Committee on Conservation and Environmental Quality. I. (member list, emmoranda, concerned with Strawberry Canyon environment).</p> <p>190. Americas' Center for Technology.</p> <p>191. Cardiovascular Graph Tapes (Pulse Rates on Climbers, pre-exercise).</p>	

**Lawrence Berkeley Laboratory  
Archives and Records Office  
Records Transmittal**

TO TRANSFER RECORDS, TYPE THIS FORM. Use one transmittal for each records series. A records series consists of records having the same disposal authority and disposition date. See transfer and packing instructions for details or call the Archives and Records Office at 486-5525.

**ARCHIVES AND RECORDS OFFICE USE ONLY**

Division and Department Information Systems and Services		LBL Accession Number
Section, Group or Project Archives and Records		LBL Accession Date
Building and Room Number 69-107	Extension 5525	File Code 100-21
Person Transferring the Records		NARA Accession Number
Department Head Lori Hefner		Archives Receipt (Signature and Date) <i>Lori Hefner April 6, 1994</i>
Records Title Anna Berge's Human Radiation Experiment Records Search <del>Project</del> Notes <span style="float: right;">606858</span>		
Inclusive Dates of the Records 1994		Number of Records Boxes 1 folder in 1 small mss box

**Brief Description of the Records**  
 These records consist of notes based on a review of the Human Subject Radiation Experiment records from a number of different records collections, including the E.O. Lawrence, Edwin MacMillan, John Lawrence, Cornelius Tobias, Robert Stone, Kenneth G. Scott, and D.C. Files. They were produced by Anna Berge, archivist in the Archives and Records Office (ARO) at the Lawrence Berkeley Laboratory, from January to March, 1994, as part of the ARO's response to Department of Energy Secretary Hazel O'Leary's directive to review all documents pertaining to human experimentation. They are arranged in the order in which they were produced.

**Type of Materials:** (Click on all that apply.)

<input type="checkbox"/> Architectural and Engineering Drawings	<input type="checkbox"/> Photographs
<input type="checkbox"/> Electronic Data	<input type="checkbox"/> Sound Recordings
<input type="checkbox"/> Graphs and Charts	<input type="checkbox"/> Transparencies
<input type="checkbox"/> Microfilm	<input type="checkbox"/> X-Rays
<input checked="" type="checkbox"/> Paper Files	<input type="checkbox"/> Other Specify _____

**Records Retention and Disposition:** (Call the Archivist if you need this information.)

Historically Valuable Records. Do not destroy. A detailed folder list is included with the Records Transmittal.

Destroy/Review on a scheduled basis with a minimum retention of \_\_\_\_\_ years. Disposal/Review date: \_\_\_\_\_

**This is in accordance with:**

The National Archives General Retention Schedule. Citation: \_\_\_\_\_

The Department of Energy Retention Schedule. Citation: 19.1

**Disposal Authorization:** (To be signed at the expiration of retention.)

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

\_\_\_\_\_  
Signature of Department Head Date



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**ARCHIVES AND RECORDS OFFICE USE ONLY**

<b>Division and Department</b> ICSD - Archives and Records Office		<b>LBL Accession Number</b> 10-1-81
<b>Section, Group or Project</b> Human Radiation Experiments (HRE) Search & Retrieval		<b>LBL Accession Date</b>
<b>Building and Room Number</b> 69-101	<b>Extension</b> 5525	<b>File Code</b>
<b>Person Transferring the Records</b> HRE Team		<b>NARA Accession Number</b>
<b>Department Head</b> Lori Hefner		<b>Archives Receipt (Signature and Date)</b> <i>[Signature]</i>
<b>Records Title</b> Human Radiation Experiments Search & Retrieval Project Experiment Summaries		
<b>Inclusive Dates of the Records</b> ca. 1940's - ca. 1980's		<b>Number of Records Boxes</b> (6262, 6272, 6282) 3

**Brief Description of the Records**  
This series contains the write-ups of Human Radiation Experiments done at Lawrence Berkeley Laboratory, as well as University of California at Berkeley, UC San Francisco, and UC Los Angeles. These descriptions were done as a part of the Human Radiation Experiment Records Retrieval Project, July to April, 1994-1995.

**Type of Materials:** (Click on all that apply.)

<input type="checkbox"/> Architectural and Engineering Drawings	<input type="checkbox"/> Photographs
<input type="checkbox"/> Electronic Data	<input type="checkbox"/> Sound Recordings
<input type="checkbox"/> Graphs and Charts	<input type="checkbox"/> Transparencies
<input type="checkbox"/> Microfilm	<input type="checkbox"/> X-Rays
<input checked="" type="checkbox"/> Paper Files	<input type="checkbox"/> Other Specify _____

**Records Retention and Disposition:** (Call the Archivist if you need this information.)

Historically Valuable Records. Do not destroy. A detailed folder list is included with the Records Transmittal.

Destroy/Review on a scheduled basis with a minimum retention of \_\_\_\_\_ years. Disposal/Review date: \_\_\_\_\_

**This is in accordance with:**

The National Archives General Retention Schedule. Citation: 19.1.1(D)

The Department of Energy Retention Schedule. Citation: \_\_\_\_\_

**Disposal Authorization:** (To be signed at the expiration of retention.)

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

\_\_\_\_\_  
Signature of Department Head

\_\_\_\_\_  
Date

**Lawrence Berkeley Laboratory  
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<b>Division and Department</b> ICSD - Archives and Records Office	<b>LBL Accession Number</b>
<b>Section, Group or Project</b> Human Radiation Experiments (HRE) Search & Retrieval Project	<b>Page Number</b>  1
<b>Records Title</b> Human Radiation Experiments Search & Retrieval Project Experiment Summaries	

Office Box Number	Description of Records in Each Box	Box Location
1	<p><b>Rewrites of Three DOE "Roadmap" Experiments (Published February 1995):</b></p> <ol style="list-style-type: none"> <li>1. LBL-14 Rewrite. Studies on the Rate of Uptake of Iodine-131 in the Thyroid</li> <li>2. LBL-18 Rewrite. Studies on the Metabolism of Glycine Labeled with Carbon-14</li> <li>3. LBL-21 Rewrite. Pituitary Irradiation with High-Energy Proton Beams</li> </ol> <p><b>Expanded LBL Experiments Summaries:</b></p> <ol style="list-style-type: none"> <li>4. Incidence of Acute Leukemia and Bone Marrow Studies in Polycythemia Vera Patients Treated with Phosphorus-32 and X-rays.</li> <li>5. Treatment of Multiple Myeloma with Phosphorus-32, Strontium-89 and Yttrium-90</li> <li>6. Studies on Iodine-131 Uptake in Euthyroid and Hypothyroid Children</li> <li>7. Studies on the Distribution of Gases, Water and Electrolytes in the Human Body</li> <li>8. Hematological Studies on Patients Treated by Total Body Exposure to X-Rays</li> <li>9. Measurement of Inert Gas Exchange and Blood Circulation Using Radioactive Nitrogen, Argon, Krypton, and Xenon</li> <li>10. Carbon-14 Tracer Studies, Morphine and Codeine</li> <li>11. Blood Oxygen Studies in Patients with Polycythemia and in Normal Subjects Using Zirconium and Yttrium Colloids</li> <li>12. Roentgen Ray Therapy</li> <li>13. Studies of Sulfur-35-Labeled Methionine in Normal Adults and in Patients Chronic Hepatic Disease, Idiopathic Hypoproteinemia and Cushing's Syndrome</li> </ol>	5250

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<b>Section, Group or Project</b> Human Radiation Experiments (HRE) Search & Retrieval Project	<b>Page Number</b>  2
<b>Records Title</b> Human Radiation Experiments Search & Retrieval Project Experiment Summaries	

Office Box Number	Description of Records in Each Box	Box Location
1 Cont'd	<p><b>Expanded LBL Experiments Summaries Cont'd:</b></p> <p>14. Studies of Gastric Electric Potentials</p> <p>15. Uptake Studies and Therapy using Phosphorus-32 at the Laboratory of Experimental Oncology</p> <p>16. Treatment of Bladder Tumors Using Radiocobalt</p> <p>17. Studies of the Effect of Hypophysectomy Upon Neoplastic Growth</p> <p>18. Studies of Total Body Water with Tritium - San Quentin</p> <p>19. Study on the Effects of Injection Volume on Intramuscular Radiosodium Clearance Rates</p> <p>20. Body Composition Studies using Tritium</p> <p>21. Measurement of Residual Fluid in the Fasting Stomach, Using Zr-95-Nb-95</p> <p>22. Treatment of Cancer with Heavy Charged Particles</p> <p>23. Radiogold and Yttrium Treatments of Women with Cancer and Ascites</p> <p>24. Measurement of Total Sodium Space and Total Body Sodium in Normal Subjects and in Patients with Cardiac Edema</p> <p>25. Blood Volume Studies on Normal Human Subjects and in Pregnancy, Portal Cirrhosis, and Cancer Using Phosphorus-32</p> <p>26. Total Red Cell Volume, Plasma Volume and Sodium Space in Congestive Heart Failure Using Phosphorus-32 and Sodium-24</p> <p>27. Phosphorus-32 Treatments for Breast Cancer</p> <p>28. Studies on Blood Volume Measurement Using Chromium 51</p> <p>29. Studies on the Metabolism of Tritium-Labeled Cholesterol</p> <p>30. Local Blood Flow in Human Bone Marrow in Leukemia and Neoplastic Diseases Using Iodine-131</p> <p>31. Sodium Space and Body Sodium Content, Exchangeable with Sodium-24, in Normal Individuals and Patients with Ascites</p> <p>32. Potassium-42 in the Localization of Deep-Seated Tumors</p> <p>33. Longitudinal Studies</p>	

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<b>Division and Department</b> ICSD - Archives and Records Office	<b>LBL Accession Number</b> 
<b>Section, Group or Project</b> Human Radiation Experiments (HRE) Search & Retrieval Project	<b>Page Number</b> <p style="text-align: center;">3</p>
<b>Records Title</b> Human Radiation Experiments Search & Retrieval Project Experiment Summaries	

Office Box Number	Description of Records in Each Box	Box Location
1 Cont'd	<b>Expanded LBL Experiments Summaries Cont'd:</b> 34. The Clearance of Silver-111 from Plasma and Liver of Cirrhotic and Non-Cirrhotic Patients 35. Measurement of Sodium-24 Movement in Normal Humans 36. Blood Studies in Bolivia 37. Development of Imaging Techniques to Visualize Certain Organs Using Radioactive Isotopes of Gold, Gallium, Technetium, Mercury and Iodine 38. Uptake of I-131 into the Thyroids of Cancer Patients 39. Chelated Yttrium-90 as Internal Radiation Therapy for Leukemia 40. Metabolism Studies Using Palmitic Acid Labeled With Carbon-14 41. The Effect of Erythropoietic Stimulation on Marrow Distribution in Man, Rabbit and Rat Using Iron-59 and Iron-52 42. Physiological Studies on Mount Everest Climbers 43. Sodium Selenite-Se75 for Tumor Localization Studies 44. Iron Kinetics - Classification and Evaluation of Patterns of Erythropoiesis in Polycythemia Vera 45. Bone Blood Flow Shown with Fluorine-18 and the Positron Camera 46. Diminished Oxidation of 14C-UL-L-Asparagine to 14CO2 in Mice and Humans with Tumors 47. Carbon-14 Bicarbonate Kinetics in Adult Males 48. Radioisotope Kinetics Studies in Erythropoeisis Using Iron-59 49. Effect of L-Methionine Ingestion on 14CO2 Excretion from L-Histidine (Imidazole-2-14C) in Folic Acid and Vitamin B12 Deficient Humans 50. Effects of Heavy Ions on the Neuron System with Special Reference to Vision 51. Serum Glyceride Turnover Studies in Obese Women Using Carbon-14-Labeled Glycerol 52. C-14 Labeled Glycine 53. Radioactive Aspirin 54. Fe-59 - 12 Healthy Men, 1964 Sargent, Saito, Parker, Lawrence	

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<b>Division and Department</b> ICSD - Archives and Records Office	<b>LBL Accession Number</b>
<b>Section, Group or Project</b> Human Radiation Experiments (HRE) Search & Retrieval Project	<b>Page Number</b> 4
<b>Records Title</b> Human Radiation Experiments Search & Retrieval Project Experiment Summaries	

Office Box Number	Description of Records in Each Box	Box Location
1 Cont'd	<p><b>Additional Backup Information for DOE "Roadmap" Experiments Published February 1995:</b></p> <p>LBL-1 Treatment of Leukemia with Phosphorous-32            LBL-2. Metabolic Studies of Bone Tumors Using Strontium-89            LBL-3. Inhalation Studies Using Carbon            LBL-4. Inhalation of Zirconium-89 on Smoke Particles            LBL-5. Radioactive Phosphorous as a Possible Diagnostic Procedure for Breast Tumors            LBL-8. Durbin's Followup of Pu and Americium Injections            LBL-9. Uptake of Iodine-131 in Thyroids of Psychiatric Patients            LBL-11. Radiation-Related Studies Involving Inmates at San Quentin Prison            LBL-12. Blood and Tissue Studies with Iron-59            LBL-15. Measures of Body Fat and Related Factors in Normal Adults Using Potassium-40 and Cesium-137            LBL-17. A Physiological Study in the Peruvian Andes Using Iron-59            LBL-18. Studies on the Metabolism of Glycine Labeled with Carbon-14            LBL-19. Astatine-211 and the Thyroid            LBL-23. Radionuclide Studies to Determine Bone Marrow Distribution in Man</p>	1.
2	<p><b>Leads to Experiments - Not Enough Info.to Write-Up</b></p> <p><b>ARSENIC</b> 1. Arsenic</p> <p><b>CADMIUM</b> 2. Cadmium</p>	6272

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<b>Records Title</b> Human Radiation Experiments Search & Retrieval Project Experiment Summaries	

Office Box Number	Description of Records in Each Box	Box Location
2 Cont'd.	<p><b>CARBON</b></p> <p>3. C-14 Carboxyl Labeled Tyrosine - Dl-dihydroxy phenylalanine (DODA)</p> <p>4. NASA - Carbon Monoxide Analyzer Studies Kinetics of Heme Catabolism and Red Blood Cell Survival</p> <p>5. Administration of C-14 Labeled Bicarbonate and Acetate to Diabetics</p> <p>6. C-14, H-3 Metabolic Studies, Pollycove</p> <p>7. C-14 and N-15 Labeled Amino Acids</p> <p>8. C-14 Labeled Analgetics, Elliott 65/66</p> <p>9. C-14 Diabetic Young Patients, Havel, 1962</p> <p>10. C-14 on Skin, Maibach</p> <p>11. C-14 in Pregnant Women Getting Abortion</p> <p>12. C-14, H-3 Skin Studies, William Epstein</p> <p>13. UCSF MSS 83-5 Dr. Harvey M. Patt Papers, Alpen, Edward cv</p> <p>14. C-14 Labeled Stilbamidine</p> <p><b>CESIUM</b></p> <p>15. Cesium-137 Mid 1960's Intercomparison Program</p> <p><b>CHROMIUM-51</b></p> <p>16. Chromium-51 Tagged Cells from Patient with Hemolytic Episodes Injected Into Normals</p> <p>17. Cr-51 Hematological Studies in Cancer, Petrakis</p> <p>18. Cr-51 Blood Volume Determinations</p> <p>19. Cr-51 Blood Volume Determinations in Infants with Pulmonary Hyperfusion</p> <p><b>COBALT</b></p> <p>20. Co-60 Labeled Vitamin B-12</p> <p>21. Co-60 in Anemia</p>	

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<b>Records Title</b> Human Radiation Experiments Search & Retrieval Project Experiment Summaries	

Office Box Number	Description of Records in Each Box	Box Location
2 Cont'd.	<p><b>Leads to Experiments, Not Enough Info to Write-Up Contd</b></p> <p><b>COLLOIDS</b> 22. Colloids - Chromic Phosphate, Yttrium Citrate, Zirconium Lactate, Zirconium Phosphate</p> <p><b>COPPER</b> 23. Cu-64 Uptake</p> <p><b>FALLOUT</b> 24. Fallout - Marshall Islanders, 1955</p> <p><b>FLUORINE</b> 25. F-18 Dr. Herman Bechs</p> <p><b>GALLIUM</b> 26. Ga-72 Uptake, Laboratory of Experimental Oncology</p> <p><b>PHOSPHOROUS</b> 27. P-32 Treatment for Skin Cancer and Disorders, Low-Beer 28. P-32, Na-24, and I-131 Di-iodofluorescein Experiments on Cancer Patients at the Laboratory of Experimental Oncology 29. Chromic Phosphate Hepatoma Patient (Jones &amp; Wrobel, 1941) 30. Phosphorus, Strontium, Chromate in Children, Yeazell, UCSF</p> <p><b>PLUTONIUM</b> 31. Plutonium Tracer Studies</p> <p><b>POTASSIUM</b> 32. K-42 Total Body Potassium in Man, UCSF 33. K-42 in Normals (Nello Pace) 1950 34. K-42 in Pregnant Women</p>	



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<b>Records Title</b> Human Radiation Experiments Search & Retrieval Project Experiment Summaries	

Office Box Number	Description of Records in Each Box	Box Location
2 Cont'd.	<p><b>RADIOACTIVE SUBSTANCES</b> 35. Uptake and Concentration of Radioactive Substances 36. Experimental Radiation Techniques</p> <p><b>RUBIDIUM</b> 37. Brain Tumor Localization and Blood Barrier Studies Using Rb-82, 1980 Chi-Kwan Yen, Yukio Yano, R. Friedland, T.F. Budinger</p> <p><b>SODIUM</b> 38. Sodium, Zirconium, Yttrium Fitness Studies 39. Na-24 Patients with Hypertension, Edelman, 1962</p> <p><b>STRONTIUM</b> 40. Sr-90, Sr-85, Carr et al 1954</p> <p><b>SULFUR</b> 41. Sulfur-35 Labeled Albumin, Sulfur/Protein Turnover Studies 42. Sulfur-35 on Skin, Maibach 43. Sulfur-35 Labeled Methionine and Cystine/I-131 Labeled Albumin - Twenty Adult Males, Margen Tarver, 1956</p> <p><b>THORIUM</b> 44. Thorium for Retrograde Ateriography</p> <p><b>TRITIUM</b> 45. Tritium Labeled Vitamin-D, Smyth 46. Labeled Albumen (Tritium?) Nutritional Studies 47. Tritium-Doc Secretion, 1962 Biglieri</p> <p><b>URANIUM</b> 48. Uranium-26 Short Term Dose Tolerance</p>	

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<b>Records Title</b> Human Radiation Experiments Search & Retrieval Project Experiment Summaries	

Office Box Number	Description of Records in Each Box	Box Location
2 Cont'd.	<p><b>VITAMIN D</b> 49. Vitamin D Metabolism in Uremic Children</p> <p><b>X-RAYS</b> 50. X-ray Treatment of Brain Tumors, UCSF, Boldrey</p> <p><b>XENON, ARGON, KRYPTON</b> 51. Studies on Children Using Xenon, Argon, Krypton</p> <p><b>YTTRIUM</b> 52. Yt-95 Tagged Cross Transfusion Experiments at the Laboratory of Experimental Oncology 53. Y-91 John Lawrence, 1948-49</p> <p><b>ZIRCONIUM, ZINC</b> 54. Zr-95, Zn-65, and Cb-95, 1949-50, Low-Beer and Scott 55. Zirconium Studies of Intestinal Absorption, 1965 56. Zinc-65 Possible Use on Diabetics, Patients with Xanthoma Tuberosum, Leukemia, etc., 1962, Sargent</p> <p><b>Documentation Not used for Expanded Experiment List</b> 57. Gas Exchange Studies with Argon, Xenon, Krypton, Nitrogen 58. Xenon at White Mountain (Included in #6 experiment list) 59. Materials on Captive / Vulnerable Populations</p> <p><b>Early Hamilton (Various Isotopes on Normals and Patients)</b> 60. Hamilton - Sodium, Potassium, Chlorine, Bromine, Iodine</p>	

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<b>Records Title</b> Human Radiation Experiments Search & Retrieval Project Experiment Summaries	

Office Box Number	Description of Records in Each Box	Box Location
2 Cont'd.	<p><b>Outside Scope</b></p> <p>61. Contact Therapy for Skin Cancer with Beta-Ray Emitting Isotopes using Radioactive Phosphorus, Low-Beer (Doesn't say humans used.)</p> <p>62. Irradiation of Skin - Grant Proposal, Not AEC Funded</p> <p>63. Fetal Thyroidal Uptake of I-127, Fallout</p> <p>64. Rubidium-86 Uptake by Red Blood Cells from Control and Cancer Subjects (done on cells, not subjects)</p> <p>65. Iron Metablosim Studies in Infants using Fe-59 at UCLA</p> <p>66. Testicular Irradiation Study 1963-1973, Swedish Hospital, Seattle, WA</p> <p><b>Reference Materials</b></p> <p>67. Research Projects Using Radioactivity at UC campuses</p> <p>68. AEC Contracts</p> <p>69. Veterans Hospital Research (references in correspondence, no experiments stated)</p> <p>70. Privately Funded Experiments / Military Experiments</p> <p>71. State Funded Cancer Research (Radiation Experiments on Humans)</p> <p>72. Publications Made Possible by Use of the 60" Cyclotron</p> <p>73. Background Information on Why/How P-32, Cr-51 Used to Determine Blood Volume - Fe-59 to Determine Rate of Fomration of Red Cells</p> <p>74. Histories of Laboratories, etc. for Reference Purposes</p> <p>75. Hardin B. Jones Biographical - Contains Bibliography</p> <p>76. Bibliographies for Various Topics(Possible Leads - Lit Search)</p>	

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<b>Records Title</b> Human Radiation Experiments Search & Retrieval Project Experiment Summaries	

Office Box Number	Description of Records in Each Box	Box Location
2 Cont'd.	<p><b>Reprints Not Applicable to Expanded Experiment List</b></p> <p>77. Already Cited in Roadmap 78. Not Applicable - Non-AEC Funding, No Radioactivity of Humans Used, etc. 79. Cs-137, K-40, H-3 Determinations of Body Fat</p>	
Box 3	<p><b>University of California Los Angeles Experiment List Summaries</b></p> <p>UCLA 1 - Scans of the Thyroid Gland Using Iodine 131 UCLA 2 - Strontium Studies in Patients with Osteoporosis, Paget's Disease, Tumor Metastases to Bone, and in Normal Human Subjects UCLA 3 - Studies of Hepatic Function and Hepatic Blood Flow Using Rose Bengal Iodine 131 and Colloidal Gold 198 UCLA 4 - Investigations Using Iodine 131 for Reticuloendothelial System Studies UCLA 5 - Studies of the Behavior of Vitamin B-12 Labeled with Radioactive Cobalt 60 UCLA 6 - Comparison Of Fifteen Minute Urinary Excretion Values Of Hippuran I-131 With Other Indices Of Renal Function UCLA 7 - Iodine 131 and 125 as a Diagnostic Tool in Renal Disease UCLA 8 - Retention of I-131 Labeled Human Serum Albumin UCLA 9 - Photoscans with Colloidal Aggregates of Radioalbumin UCLA 10 - Calcium 47 Absorption Studies in Man UCLA 11 - Lung Scans Using Technetium-labeled Radioalbumin Macroaggregates UCLA 12 - Brain Tumor Scanning Using Technetium UCLA 13 - Measurement of Loss of Labeled Albumin in Children By Means of Total Body Counting UCLA 14 - Copper Absorption in Patients with Disorders of Iron Metabolism UCLA 15 - Total Body Counting-Labeled Gamma Globulins</p>	6282

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<b>Records Title</b> Human Radiation Experiments Search & Retrieval Project Experiment Summaries	

Office Box Number	Description of Records in Each Box	Box Location
3 Cont'd	<p><b>University of California Los Angles Experiment List Summaries Cont'd</b></p> <p>UCLA 16 - Manganese Absorption and Retention in Humans            UCLA 17 - Brain Studies in Seizure Disorders Using Technetium            UCLA 18 - Kidney Function Studies in Renal Transplant Recipients Using Tc-99m and Iodine-131m Chelates            UCLA 19 - Liver Studies Using Radiopharmaceutical Technetium Sulfur Colloid (Tc-99m) Macroaggregates of Albumin            UCLA 20 - Demonstration of Vascularity of the Femoral Head Using Technetium Sulfur Colloid            UCLA 21 - Thrombophlebitis Scanning Using Technetium-99m Macroaggregates of Albumin            UCLA 22 - Hepatic Portal System Study Involving Injection with Au198 Colloid and Tc99m Microaggregated Albumin            UCLA 23 - A Comparison of Heart Chamber Dilution Curves and Pulmonary Dilution Curves for the Diagnosis of Congenital Heart Disease            UCLA 24 - Fluorine-18 in Children with Skull Abnormalities</p> <p><b>Reference Materials</b>            UCLA Atomic Energy Commission Reports, Publications Lists</p>	

**UNITED STATES DEPARTMENT OF ENERGY  
HUMAN EXPERIMENT INVENTORY FORM**

DESTROYED (EXPLAIN IN ITEM 27)

<b>1. NAME OF FACILITY</b> Lawrence Berkeley Laboratory 1 Cyclotron Road Berkeley, California 94720		<b>2. RESPONSIBLE OFFICE</b> Archives and Records Office Building 69-107	
<b>3. CONTACT NAME</b> Loretta L. Hefner Form completed by Lawrence Berkeley Laboratory Archives and Records Office		<b>4. CONTACT TELEPHONE</b> 510-486-5525 [Telephone] 510-486-7200 [FAX]	
<b>5. SERIES TITLE</b> Experiment Summaries and Documentation Compiled at the Request of the Department of Energy Advisory Committee on Human Radiation Experiments		<b>6. INCLUSIVE DATES</b> 1935-1980's	
<b>7. ACCESS RESTRICTIONS</b> <input type="checkbox"/> PRIVACY ACT <input type="checkbox"/> OTHER <input type="checkbox"/> COMPANY CONFIDENTIAL <input type="checkbox"/> SECRET <input type="checkbox"/> PROPRIETARY <input checked="" type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> UCNI <input type="checkbox"/> RD		<b>8. PERCENT CLASSIFIED</b> 0	<b>9. MEDIUM</b> <input checked="" type="checkbox"/> PAPER <input type="checkbox"/> ELECTRONIC <input type="checkbox"/> MICROFORM <input type="checkbox"/> OTHER
<b>10. DESCRIPTION OF RECORDS</b> This series contains documentation of radiation experiments conducted on human subjects by investigators affiliated with Lawrence Berkeley Laboratory (LBL), Donner Laboratory, University of California, San Francisco School of Medicine, and University of California, Los Angeles School of Medicine, found during the course of the Human Radiation Records Retrieval Project at LBL. This series contains files pertaining to documented experiments, including photocopies and reprints, which are organized by the name of experiment. This series also contains files with leads to other experiments, including photocopies and bibliographic information. Files containing leads to experiments are organized according to isotope name, and subdivided by experiment when possible. The series is contained in 3 cartons, divided into the following categories: Box 1 - Rewrites of 3 DOE "Roadmap" experiments (published 2/95); Expanded LBL experiments summaries; Additional backup information for DOE "Roadmap" experiments (published 2/95); Box 2 - Leads to experiments (not enough information to write up); Documentation not used for expanded experiment list; Early Joseph Hamilton (various isotopes on normal subjects and patients); Materials outside the scope of search; Reference materials; Reprints not applicable to expanded experiment list; Box 3 - University of California Los Angeles experiment list summaries; Reference materials. A complete folder list is attached on pages 2-6.			
<b>11. SCHEDULED</b> <input type="checkbox"/> NO <input type="checkbox"/> YES      DOE/GRS SCHEDULE CITATION: GRS19.18a: permanent			
<b>12. INFORMATIONAL ANALYSIS</b>    			
<b>13. INFORMATIONAL RANKING</b> <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3		<b>14. LOCATION OF RECORDS (FULL ADDRESS, BLDG NO., ROOM NO.)</b> Lawrence Berkeley Laboratory Archives and Records Office 69-102 Shelf # Accession Number:	
<b>15. TYPE OF RECORD</b> <input checked="" type="checkbox"/> PROGRAM <input checked="" type="checkbox"/> PERSONNEL <input checked="" type="checkbox"/> MEDICAL <input type="checkbox"/> OTHER		<b>16. ARRANGEMENT</b> By experiment name or isotope name; UCLA records in separate box	<b>VOLUME CUBIC FEET</b> 3

IF SPECIFIC INFORMATION IS KNOWN REGARDING EXPERIMENTS OR RELEASES, PLEASE COMPLETE ITEMS 18-24

18. CATEGORY (CHECK ALL THAT APPLY) <input type="checkbox"/> EXPERIMENT <input type="checkbox"/> RADIATION <input type="checkbox"/> RELEASE <input type="checkbox"/> TOXIC CHEMICAL <input type="checkbox"/> CONTROLLED SUBSTANCE			Lawrence Berkeley Laboratory Archives and Records Office 69-102 Shelf # Accession Number:		
19. TITLE OF EXPERIMENT(S)/RELEASE(S)					
20. PRINCIPAL INVESTIGATOR			21. INVESTIGATOR'S AFFILIATION		
22. DESCRIPTION <b>BOX 1</b> <b>Rewrites of Three DOE "Roadmap" Experiments (Published February 1995):</b> 1. LBL-14 Rewrite. Studies on the Rate of Uptake of Iodine-131 in the Thyroid 2. LBL-18 Rewrite. Studies on the Metabolism of Glycine Labeled with Carbon-14 3. LBL-21 Rewrite. Pituitary Irradiation with High-Energy Proton Beams  <b>Expanded LBL Experiments Summaries:</b> 4. Incidence of Acute Leukemia and Bone Marrow Studies in Polycythemia Vera Patients Treated with Phosphorus-32 and X-rays. 5. Treatment of Multiple Myeloma with Phosphorus-32, Strontium-89 and Yttrium-90 6. Studies on Iodine-131 Uptake in Euthyroid and Hypothyroid Children 7. Studies on the Distribution of Gases, Water and Electrolytes in the Human Body 8. Hematological Studies on Patients Treated by Total Body Exposure to X-Rays 9. Measurement of Inert Gas Exchange and Blood Circulation Using Radioactive Nitrogen, Argon, Krypton, and Xenon 10. Carbon-14 Tracer Studies, Morphine and Codeine 11. Blood Oxygen Studies in Patients with Polycythemia and in Normal Subjects Using Zirconium and Yttrium Colloids 12. Roentgen Ray Therapy 13. Studies of Sulfur-35-Labeled Methionine in Normal Adults and in Patients Chronic Hepatic Disease, Idiopathic Hypoproteinemia and Cushing's Syndrome 14. Studies of Gastric Electric Potentials 15. Uptake Studies and Therapy using Phosphorus-32 at the Laboratory of Experimental Oncology 16. Treatment of Bladder Tumors Using Radiocobalt 17. Studies of the Effect of Hypophysectomy Upon Neoplastic Growth 18. Studies of Total Body Water with Tritium - San Quentin 19. Study on the Effects of Injection Volume on Intramuscular Radiosodium Clearance Rates 20. Body Composition Studies using Tritium 21. Measurement of Residual Fluid in the Fasting Stomach, Using Zr-95-Nb-95 22. Treatment of Cancer with Heavy Charged Particles 23. Radiogold and Yttrium Treatments of Women with Cancer and Ascites 24. Measurement of Total Sodium Space and Total Body Sodium in Normal Subjects and in Patients with Cardiac Edema					
23. DATE(S) OF EXPERIMENT(S)/RELEASE(S)			24. CONDUCTED BY		
25. LOCATION(S) OF EXPERIMENT(S)/RELEASE(S) (FACILITY, ORGANIZATION, CITY, STATE)					
26. CROSS REFERENCES (TO OTHER RECORDS; EXPERIMENTS)					
28. PROVENANCE/RECORDS LIAISON OFFICER		29. TELEPHONE		30. MAILSTOP OF PROVENANCE	
Lawrence Berkeley Laboratory Archives and Records Office					
31. QA REVIEWER		32. TELEPHONE		33. DATE OF REVIEW	
		510-486-5525 [Phone] 510-486-7200 (FAX)		4/24/95	

## 34. Additional Comments

Page 3

### Expanded LBL Experiments Summaries Cont'd:

25. Blood Volume Studies on Normal Human Subjects and in Pregnancy, Portal Cirrhosis, and Cancer Using Phosphorus-32
26. Total Red Cell Volume, Plasma Volume and Sodium Space in Congestive Heart Failure Using Phosphorus-32 and Sodium-24
27. Phosphorus-32 Treatments for Breast Cancer
28. Studies on Blood Volume Measurement Using Chromium 51
29. Studies on the Metabolism of Tritium-Labeled Cholesterol
30. Local Blood Flow in Human Bone Marrow in Leukemia and Neoplastic Diseases Using Iodine-131
31. Sodium Space and Body Sodium Content, Exchangeable with Sodium-24, in Normal Individuals and Patients with Ascites
32. Potassium-42 in the Localization of Deep-Seated Tumors
33. Longitudinal Studies
34. The Clearance of Silver-111 from Plasma and Liver of Cirrhotic and Non-Cirrhotic Patients
35. Measurement of Sodium-24 Movement in Normal Humans
36. Blood Studies in Bolivia
37. Development of Imaging Techniques to Visualize Certain Organs Using Radioactive Isotopes of Gold, Gallium, Technetium, Mercury and Iodine
38. Uptake of I-131 into the Thyroids of Cancer Patients
39. Chelated Yttrium-90 as Internal Radiation Therapy for Leukemia
40. Metabolism Studies Using Palmitic Acid Labeled With Carbon-14
41. The Effect of Erythropoietic Stimulation on Marrow Distribution in Man, Rabbit and Rat Using Iron-59 and Iron-52
42. Physiological Studies on Mount Everest Climbers
43. Sodium Selenite-Se75 for Tumor Localization Studies
44. Iron Kinetics - Classification and Evaluation of Patterns of Erythropoiesis in Polycythemia Vera
45. Bone Blood Flow Shown with Fluorine-18 and the Positron Camera
46. Diminished Oxidation of  $^{14}\text{C}$ -UL-L-Asparagine to  $^{14}\text{CO}_2$  in Mice and Humans with Tumors
47. Carbon-14 Bicarbonate Kinetics in Adult Males
48. Radioisotope Kinetics Studies in Erythropoiesis Using Iron-59
49. Effect of L-Methionine Ingestion on  $^{14}\text{CO}_2$  Excretion from L-Histidine (Imidazole-2- $^{14}\text{C}$ ) in Folic Acid and Vitamin B12 Deficient Humans
50. Effects of Heavy Ions on the Neuron System with Special Reference to Vision
51. Serum Glyceride Turnover Studies in Obese Women Using Carbon-14-Labeled Glycerol
52. C-14 Labeled Glycine
53. Radioactive Aspirin
54. Fe-59 - 12 Healthy Men, 1964 Sargent, Saito, Parker, Lawrence

### Additional Backup Information for DOE "Roadmap" Experiments Published February 1995:

- LBL-1 Treatment of Leukemia with Phosphorous-32
- LBL-2. Metabolic Studies of Bone Tumors Using Strontium-89
- LBL-3. Inhalation Studies Using Carbon
- LBL-4. Inhalation of Zirconium-89 on Smoke Particles
- LBL-5. Radioactive Phosphorous as a Possible Diagnostic Procedure for Breast Tumors
- LBL-8. Durbin's Followup of Pu and Americium Injections
- LBL-9. Uptake of Iodine-131 in Thyroids of Psychiatric Patients
- LBL-11. Radiation-Related Studies Involving Inmates at San Quentin Prison
- LBL-12. Blood and Tissue Studies with Iron-59
- LBL-15. Measures of Body Fat and Related Factors in Normal Adults Using Potassium-40 and Cesium-137
- LBL-17. A Physiological Study in the Peruvian Andes Using Iron-59
- LBL-18. Studies on the Metabolism of Glycine Labeled with Carbon-14
- LBL-19. Astatine-211 and the Thyroid
- LBL-23. Radionuclide Studies to Determine Bone Marrow Distribution in Man

### Box 2

Leads to Experiments - Not Enough Information to Write Up

#### ARSENIC

1. Arsenic

#### CADMIUM

2. Cadmium

#### CARBON

3. C-14 Carboxyl Labeled Tyrosine - DI-dihydroxy phenylalanine (DODA)
4. NASA - Carbon Monoxide Analyzer Studies Kinetics of Heme Catabolism and Red Blood Cell Survival
5. Administration of C-14 Labeled Bicarbonate and Acetate to Diabetics
6. C-14, H-3 Metabolic Studies, Pollycove
7. C-14 and N-15 Labeled Amino Acids
8. C-14 Labeled Analgetics, Elliott 65/66

**Leads to Experiments, Not Enough Info to Write Up Cont**

**CARBON contd**

9. C-14 Diabetic Young Patients, Havel, 1962
10. C-14 on Skin, Maibach
11. C-14 in Pregnant Women Getting Abortion
12. C-14, H-3 Skin Studies, William Epstein
13. UCSF MSS 83-5 Dr. Harvey M. Patt Papers, Alpen, Edward cv
14. C-14 Labeled Stilbamidine

**CESIUM**

15. Cesium-137 Mid 1960's Intercomparison Program

**CHROMIUM-51**

16. Chromium-51 Tagged Cells from Patient with Hemolytic Episodes Injected Into Normals
17. Cr-51 Hematological Studies in Cancer, Petrakis
18. Cr-51 Blood Volume Determinations
19. Cr-51 Blood Volume Determinations in Infants with Pulmonary Hyperfusion

**COBALT**

20. Co-60 Labeled Vitamin B-12
21. Co-60 in Anemia

**COLLOIDS**

22. Colloids - Chromic Phosphate, Yttrium Citrate, Zirconium Lactate, Zirconium Phosphate

**COPPER**

23. Cu-64 Uptake

**FALLOUT**

24. Fallout - Marshall Islanders, 1955

**FLUORINE**

25. F-18 Dr. Herman Bechs

**GALLIUM**

26. Ga-72 Uptake, Laboratory of Experimental Oncology

**PHOSPHOROUS**

27. P-32 Treatment for Skin Cancer and Disorders, Low-Beer
28. P-32, Na-24, and I-131 Di-iodofluorescein Experiments on Cancer Patients at the Laboratory of Experimental Oncology
29. Chromic Phosphate Hepatoma Patient (Jones & Wrobel, 1941)
30. Phosphorus, Strontium, Chromate in Children, Yeazell, UCSF

**PLUTONIUM**

31. Plutonium Tracer Studies

**POTASSIUM**

32. K-42 Total Body Potassium in Man, UCSF
33. K-42 in Normals (Nello Pace) 1950
34. K-42 in Pregnant Women

**RADIOACTIVE SUBSTANCES**

35. Uptake and Concentration of Radioactive Substances
36. Experimental Radiation Techniques

**RUBIDIUM**

37. Brain Tumor Localization and Blood Barrier Studies Using Rb-82, 1980 Chi-Kwan Yen, Yukio Yano, R. Friedland, T.F. Budinger

**SODIUM**

38. Sodium, Zirconium, Yttrium Fitness Studies
39. Na-24 Patients with Hypertension, Edelman, 1962

**STRONTIUM**

40. Sr-90, Sr-85, Carr et al 1954

**SULFUR**

41. Sulfur-35 Labeled Albumin, Sulfur/Protein Turnover Studies
42. Sulfur-35 on Skin, Maibach
43. Sulfur-35 Labeled Methionine and Cystine/I-131 Labeled Albumin - Twenty Adult Males, Margen Tarver, 1956

**THORIUM**

44. Thorium for Retrograde Ateriography

**TRITIUM**

45. Tritium Labeled Vitamin-D, Smyth
46. Labeled Albumen (Tritium?) Nutritional Studies
47. Tritium-Doc Secretion, 1962 Biglieri

**URANIUM**

48. Uranium-26 Short Term Dose Tolerance

**VITAMIN D**

49. Vitamin D Metabolism in Uremic Children

**X-RAYS**

50. X-ray Treatment of Brain Tumors, UCSF, Boldrey

**XENON, ARGON, KRYPTON**

51. Studies on Children Using Xenon, Argon, Krypton

**YTTRIUM**

52. Yt-95 Tagged Cross Transfusion Experiments at the Laboratory of Experimental Oncology

53. Y-91 John Lawrence, 1948-49

**ZIRCONIUM, ZINC**

54. Zr-95, Zn-65, and Cb-95, 1949-50, Low-Beer and Scott

55. Zirconium Studies of Intestinal Absorption, 1965

56. Zinc-65 Possible Use on Diabetics, Patients with Xanthoma Tuberosum, Leukemia, etc., 1962, Sargent

**Documentation Not Used for Expanded Experiment List**

57. Gas Exchange Studies with Argon, Xenon, Krypton, Nitrogen

58. Xenon at White Mountain (Included in #6 experiment list)

59. Materials on Captive / Vulnerable Populations

**Early Hamilton (Various Isotopes on Normals and Patients)**

60. Hamilton - Sodium, Potassium, Chlorine, Bromine, Iodine

**Outside Scope**

61. Contact Therapy for Skin Cancer with Beta-Ray Emitting Isotopes using Radioactive Phosphorus, Low-Beer (Doesn't say humans used.)

62. Irradiation of Skin - Grant Proposal, Not AEC Funded

63. Fetal Thyroidal Uptake of I-127, Fallout

64. Rubidium-86 Uptake by Red Blood Cells from Control and Cancer Subjects (done on cells, not subjects)

65. Iron Metabolism Studies in Infants using Fe-59 at UCLA

66. Testicular Irradiation Study 1963-1973, Swedish Hospital, Seattle, WA

**Reference Materials**

67. Research Projects Using Radioactivity at UC campuses

68. AEC Contracts

69. Veterans Hospital Research (references in correspondence, no experiments stated)

70. Privately Funded Experiments / Military Experiments

71. State Funded Cancer Research (Radiation Experiments on Humans)

72. Publications Made Possible by Use of the 60" Cyclotron

73. Background Information on Why/How P-32, Cr-51 Used to Determine Blood Volume - Fe-59 to Determine Rate of Formation of Red Cells

74. Histories of Laboratories, etc. for Reference Purposes

75. Hardin B. Jones Biographical - Contains Bibliography

76. Bibliographies for Various Topics (Possible Leads - Lit Search)

**Reprints Not Applicable to Expanded Experiment List**

77. Already Cited in Roadmap

78. Not Applicable - Non-AEC Funding, No Radioactivity of Humans Used, etc.

79. Cs-137, K-40, H-3 Determinations of Body Fat

**BOX 3**

**University Of California Los Angeles Experiment List Summaries**

UCLA 1 - Scans of the Thyroid Gland Using Iodine 131

UCLA 2 - Strontium Studies in Patients with Osteoporosis, Paget's Disease, Tumor Metastases to Bone, and in Normal Human Subjects

UCLA 3 - Studies of Hepatic Function and Hepatic Blood Flow Using Rose Bengal Iodine 131 and Colloidal Gold 198

UCLA 4 - Investigations Using Iodine 131 for Reticuloendothelial System Studies

UCLA 5 - Studies of the Behavior of Vitamin B-12 Labeled with Radioactive Cobalt 60

UCLA 6 - Comparison Of Fifteen Minute Urinary Excretion Values Of Hippuran I-131 With Other Indices Of Renal Function

UCLA 7 - Iodine 131 and 125 as a Diagnostic Tool in Renal Disease

UCLA 8 - Retention of I-131 Labeled Human Serum Albumin

UCLA 9 - Photoscans with Colloidal Aggregates of Radioalbumin

**University of California Los Angeles Experiment List Summaries Cont'd**

- UCLA 10 - Calcium 47 Absorption Studies in Man
- UCLA 11 - Lung Scans Using Technetium-labeled Radioalbumin Macroaggregates
- UCLA 12 - Brain Tumor Scanning Using Technetium
- UCLA 13 - Measurement of Loss of Labeled Albumin in Children By Means of Total Body Counting
- UCLA 14 - Copper Absorption in Patients with Disorders of Iron Metabolism
- UCLA 15 - Total Body Counting-Labeled Gamma Globulins
- UCLA 16 - Manganese Absorption and Retention in Humans
- UCLA 17 - Brain Studies in Seizure Disorders Using Technetium
- UCLA 18 - Kidney Function Studies in Renal Transplant Recipients Using Tc-99m and Iodine-131m Chelates
- UCLA 19 - Liver Studies Using Radiopharmaceutical Technetium Sulfur Colloid (Tc-99m) Macroaggregates of Albumin
- UCLA 20 - Demonstration of Vascularity of the Femoral Head Using Technetium Sulfur Colloid
- UCLA 21 - Thrombophlebitis Scanning Using Technetium-99m Macroaggregates of Albumin
- UCLA 22 - Hepatic Portal System Study Involving Injection with Au198 Colloid and Tc99m Microaggregated Albumin
- UCLA 23 - A Comparison of Heart Chamber Dilution Curves and Pulmonary Dilution Curves for the Diagnosis of Congenital Heart Disease
- UCLA 24 - Fluorine-18 in Children with Skull Abnormalities

**Reference Materials**

- UCLA Atomic Energy Commission Reports, Publications Lists

## Lawrence Berkeley Laboratory Archives and Records Office Records Transmittal

TO TRANSFER RECORDS, TYPE THIS FORM. Use one transmittal for each records series. A records series consists of records having the same disposal authority and disposition date. See transfer and packing instructions for details or call the Archives and Records Office at 486-5525.

ARCHIVES AND RECORDS OFFICE USE ONLY											
<b>Division and Department</b> Information & Computing Sciences Division/ISS	<b>LBL Accession Number</b> 1000-21										
<b>Section, Group or Project</b> Archives and Records	<b>LBL Accession Date</b>										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"><b>Building and Room Number</b> 69/102</td> <td style="width: 50%;"><b>Extension</b> 5525</td> </tr> </table>	<b>Building and Room Number</b> 69/102	<b>Extension</b> 5525	<b>File Code</b>								
<b>Building and Room Number</b> 69/102	<b>Extension</b> 5525										
<b>Person Transferring the Records</b> Gary L. Novak	<b>NARA Accession Number</b>										
<b>Department Head</b> Lori Hefner	<b>Archives Receipt (Signature and Date)</b> <span style="float: right;">L. Hefner</span>										
<b>Records Title</b> Oral Histories conducted by Department of Energy Office of Human Radiation Experiments & Lawrence Berkeley Laboratory Archives and Records Office											
<b>Inclusive Dates of the Records</b> 1994-1995	<b>Number of Records Boxes</b> 3 boxes (5"x10"x12") & (2 1/2"x10 1/2"x12 1/4") & 1 shoebox										
<b>Brief Description of the Records</b> This series consists of oral history transcripts (in paper and electronic word processing format), cassette tapes, release forms, correspondence, and other supporting documents. Interviews were conducted in the Fall of 1994 by personnel of the Department of Energy Office of Human Radiation Experiments (DOE/OHRE) and Lawrence Berkeley Laboratory Archives and Records Office (LBL/ARO). The interviewees were involved with human use radionuclide studies. Interviewees are as follows: E. Alpen, W. Bair, A. Dettner, P. Durbin, H. Friedell, N. Foremen, J. Healy, E. Hyde, H. Kohn, C. Lushbaugh, E. Miller, W. Moss, N. Pace, D. Peterson, W. Siri, G. Voelz, G. Walpole, B. Whaley.											
<b>Type of Materials: (Click on all that apply.)</b> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Architectural and Engineering Drawings</td> <td><input type="checkbox"/> Photographs</td> </tr> <tr> <td><input checked="" type="checkbox"/> Electronic Data</td> <td><input checked="" type="checkbox"/> Sound Recordings</td> </tr> <tr> <td><input type="checkbox"/> Graphs and Charts</td> <td><input type="checkbox"/> Transparencies</td> </tr> <tr> <td><input type="checkbox"/> Microfilm</td> <td><input type="checkbox"/> X-Rays</td> </tr> <tr> <td><input checked="" type="checkbox"/> Paper Files</td> <td><input checked="" type="checkbox"/> Other Specify <u>Cassette Tapes</u></td> </tr> </table>		<input type="checkbox"/> Architectural and Engineering Drawings	<input type="checkbox"/> Photographs	<input checked="" type="checkbox"/> Electronic Data	<input checked="" type="checkbox"/> Sound Recordings	<input type="checkbox"/> Graphs and Charts	<input type="checkbox"/> Transparencies	<input type="checkbox"/> Microfilm	<input type="checkbox"/> X-Rays	<input checked="" type="checkbox"/> Paper Files	<input checked="" type="checkbox"/> Other Specify <u>Cassette Tapes</u>
<input type="checkbox"/> Architectural and Engineering Drawings	<input type="checkbox"/> Photographs										
<input checked="" type="checkbox"/> Electronic Data	<input checked="" type="checkbox"/> Sound Recordings										
<input type="checkbox"/> Graphs and Charts	<input type="checkbox"/> Transparencies										
<input type="checkbox"/> Microfilm	<input type="checkbox"/> X-Rays										
<input checked="" type="checkbox"/> Paper Files	<input checked="" type="checkbox"/> Other Specify <u>Cassette Tapes</u>										
<b>Records Retention and Disposition: (Call the Archivist if you need this information.)</b> <p><input type="checkbox"/> Historically Valuable Records. Do not destroy. A detailed folder list is included with the Records Transmittal.</p> <p><input type="checkbox"/> Destroy/Review on a scheduled basis with a minimum retention of _____ years. Disposal/Review date: _____</p>											
<b>This is in accordance with:</b> <p><input type="checkbox"/> The National Archives General Retention Schedule. Citation: _____</p> <p><input type="checkbox"/> The Department of Energy Retention Schedule. Citation: _____</p>											
<b>Disposal Authorization: (To be signed at the expiration of retention.)</b> The legal retention of the records listed on this Records Transmittal has elapsed. Since I foresee no use of these records that could justify further retention, I authorize their disposal.											
_____ Signature of Department Head	_____ Date										

## Lawrence Berkeley Laboratory Records Transmittal Addendum

<b>Division and Department Information &amp; Computing Sciences Division/ISS</b>	<b>LBL Accession Number</b>
<b>Section, Group or Project Archives and Records</b>	<b>Page Number</b> <div style="text-align: center;">1</div>
<b>Records Title</b> Oral Histories conducted by Department of Energy Office of Human Radiation Experiments & Lawrence Berkeley Laboratory Archives and Records Office	

Office Box Number	Description of Records in Each Box	Box Location
1	<p>Cassette tapes of oral interviews for E. Alpen (4), W. Bair (3), H. Friedell (3), N. Foreman (1), E Hyde (1), H. Kohn (2), C. Lushbaugh (4), E. Miller (3), N. Pace (1), and B. Whaley (3).</p> <p>Four DOS formatted high density, double sided 3.5 inch compact diskettes with electronic files in Word Perfect 5.1 word processing program of the text of the oral histories for Alpen, Durbin, Foreman, Healy, Kohn, Miller, Pace, and Whaley.</p> <p>Two Macintosh formatted high density, double sided 3.5 inch compact diskettes with electronic files in Microsoft Word 5.0 word processing program of the text of the oral histories for Alpen, Bair, Durbin, Forman, Healy, Kohn, Miller, Moss, Pace, Peterson, Whaley, and Voelz.</p>	
2	<p>Correspondence "Relating to Oral History Project"</p> <p>Ed Alpen Oral History Interviewed by Anna Berge &amp; Gregg Herken</p> <p>William Bair Oral History Interviewed by Cindy Schindlecker &amp; David Herald</p> <p>Anne Dettner Oral History Interviewed by S. Hughes [Draft] (2)</p> <p>Patricia Durbin Oral History Interviewed by Marisa Caputo &amp; Darrell Fisher, 2nd by Gregg Herken</p> <p>Hymer Friedell Oral History Interviewed by Eleanore Melamed &amp; Darrell Fisher</p> <p>Nadine Foreman Oral History Interviewed by Anna Berge</p> <p>Jack Healy Oral History Interviewed by Marisa Caputo, Darrell Fisher, &amp; George Voelz</p> <p>Earl Hyde Oral History Interviewed by Anna Berge</p> <p>Henry Kohn Oral History Interviewed by Anna Berge</p> <p>Clarence Lushbaugh Oral History Interviewed by Roger Anders &amp; Darrell Fisher</p>	

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<b>Section, Group or Project Archives and Records</b>	<b>Page Number</b> <div style="text-align: center;">2</div>
<b>Records Title</b> Oral Histories conducted by Department of Energy Office of Human Radiation Experiments & Lawrence Berkeley Laboratory Archives and Records Office	

Office Box Number	Description of Records in Each Box	Box Location
2 cont'd.	Earl Miller Oral History Interviewed by Anna Berge & Gregg Herken (1 of 2) Earl Miller Oral History Interviewed by Anna Berge & Gregg Herken (2 of 2)	
3	William Moss Oral History Interviewed by Marisa Caputo & Darrell Fisher Nello Pace Oral History Interviewed by Anna Berge Donald Peterson Oral History Interviewed by Marisa Caputo & Darrell Fisher William Siri Oral History by Prita Pillai George Voelz Oral History Interviewed by Marisa Caputo & Darrell Fisher Grace Walpole Oral Interview by Gregg Herken Baird Whaley Oral History Interviewed by Anna Berge	

**Lawrence Berkeley Laboratory  
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**ARCHIVES AND RECORDS OFFICE USE ONLY**

<b>Division and Department</b> Information & Computing Sciences Division		<b>LBL Accession Number</b> 19-21
<b>Section, Group or Project</b> Information Systems and Serv, Arch & Rec Office		<b>LBL Accession Date</b>
<b>Building and Room Number</b> 69-107	<b>Extension</b> 5525	<b>File Code</b>
<b>Person Transferring the Records</b> Lori Hefner		<b>NARA Accession Number</b>
<b>Department Head</b> Carl Eben		<b>Archives Receipt (Signature and Date)</b> Lori Hefner May 4, 1995

**Records Title**  
Lori Hefner, Human Radiation Experiment Administrative Files

<b>Inclusive Dates of the Records</b> 1994 - 1995	<b>Number of Records Boxes</b> 8
--	-------------------------------------

**Brief Description of the Records**  
Lori Hefner's Administrative files from the LBL Human Radiation Experiment research and retrieval project.

**Type of Materials:** (Click on all that apply.)

<input type="checkbox"/> Architectural and Engineering Drawings	<input type="checkbox"/> Photographs
<input type="checkbox"/> Electronic Data	<input type="checkbox"/> Sound Recordings
<input type="checkbox"/> Graphs and Charts	<input type="checkbox"/> Transparencies
<input type="checkbox"/> Microfilm	<input type="checkbox"/> X-Rays
<input checked="" type="checkbox"/> Paper Files	<input checked="" type="checkbox"/> Other Specify <u>Video</u>

**Records Retention and Disposition:** (Call the Archivist if you need this information.)

Historically Valuable Records. Do not destroy. A detailed folder list is included with the Records Transmittal.

Destroy/Review on a scheduled basis with a minimum retention of \_\_\_\_\_ years. Disposal/Review date: \_\_\_\_\_

**This is in accordance with:**

The National Archives General Retention Schedule. Citation: \_\_\_\_\_

The Department of Energy Retention Schedule. Citation: 19.1

**Disposal Authorization:** (To be signed at the expiration of retention.)

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

\_\_\_\_\_  
Signature of Department Head

\_\_\_\_\_  
Date

## Lawrence Berkeley Laboratory Records Transmittal Addendum

<b>Division and Department</b> Information & Computing Sciences Division	<b>LBL Accession Number</b>
<b>Section, Group or Project</b> ISS, ARO	<b>Page Number</b> <div style="text-align: center;">2</div>
<b>Records Title</b> Lori Hefner, Human Radiation Experiment Administrative Files	

Office Box Number	Description of Records in Each Box	Box Location
1	1: HRE Records Project - Candidate Not Hired 2: DOE HRE Proj. Presentation 5/10/94 ✓ 3: Pat Durbin - FOIA 4: LBL HRE Records/Patient Search 5: E-Mail 6: HRE Ugly Transcription 7: HRE File Trac - Vendor Addresses 8: LBL HRE Records Search 011 Related to Search 9: Human Radiation Plan - Transparency 10: HRE Transparencies Presentations 11: HRE Records Project Bancroft Microfilm Project 12: HRE Bi-monthly Reports ✓ 13: HRE Records Project 5/94 14: HRE & Retrieval Project Washington Visit 5/19/94 - 5/20/94 15: HRE Summaries 16: E-Mail 17: Human Radiation-Draft Chatterjee Document 18: HRE Records Search Specifics Individual Searches as Requested by Patients or Repres. 19: LBL HRE Records Search Electronic Database Search 20: HRE Bernstein - FOIA 21: Chatterjee Document 23: DOE - Classification Office De-Classification Office 24: LBL HRE Records Search John Stoner Inventories 25: DOE Records Search - 1/94 ✓ 26: Records Search Plan ✓ 27: LBL HRE Records Search Joseph Hamilton Info. 28: LBL HRE Records Search Info. to Lab Task force 29: Budget Justification	<del>6283</del> 6105

## Lawrence Berkeley Laboratory Records Transmittal Addendum

<b>Division and Department</b> Information & Computing Sciences Division	<b>LBL Accession Number</b> 
<b>Section, Group or Project</b> ISS, ARO	<b>Page Number</b> <p style="text-align: center;">3</p>
<b>Records Title</b> Lori Hefner, Human Radiation Experiment Administrative Files	

Office Box Number	Description of Records in Each Box	Box Location
Box 1	30: LBL HRE Records Search Budget Docs - 2/94 31: LBL HRE Records Search Weekly Reports 32: HRE Records Search LLNL Notes 33: DOE Guidance 34: HRE Records Search Guidance 35: HRE Records Inventory Form & Instruction 36: LBL HRE Records Search John Stoner Notes from LH Absence 37: HRE Records Search DOE - DOO Guidance Meeting 38: Pat Durbin 39: FOIA Requests 40: HRE Postmortum on Phase I 41: Document Transmittal for Cal 1, 2, 3, 4 from the CIC 42: Document Transmittal for Cal 1, 2, 3, 4 from the CIC (2 of 2) 43: HRE - Cal 3 Pat Medina Legal Counsel 44: HRE - Cal 3 Legal Case Matter 45: CAL 4 file sent to Washington DC 46: CAL 4 file Redacted 47: Joseph Charles Trela III v. Regents, et al., 1982 Case 48: Rothman Gamble Access to Records Initiative 49: HRE Herbert Parker FindingAid 50: HRE Nelson Typing Oral History Transcripts 51: HRE - Marvin Goldman 52: HRE Oral History Project 53: John Gofman Oral History Interview 54: HRE Oral History Correspondence and Reports (For additional oral history project information see Gary Novak HRE accession.) 55: HRE Oral History Effort 55: SAA Dinstinguish Service Awards	6105

## Lawrence Berkeley Laboratory Records Transmittal Addendum

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<b>Section, Group or Project</b> ISS, ARO	<b>Page Number</b> <p style="text-align: center;">4</p>
<b>Records Title</b> Lori Hefner, Human Radiation Experiment Adminstrative Files	

Office Box Number	Description of Records in Each Box	Box Location
1	56: SAA Dinstinguish Service Awards-Packet Sent 57: OHRE Field and Staff Conference February 14-15, 1995 Packet 58: HRE Washington Trip 2/12/95 - 2/16/95 59: DOE-OHRE Quality Review Audit April 3-6, 1995 60: HRE TEam Project Plan Diagram, Jan 1995 61: HRE LBL ARO Team Rewrite of Experiments, Mar 95 62: Media Training, LH April 1995 63: LH Thank You Letter [at Project Closing] 64: Site Quality Check Folder [at Project Closing] 65: Hamilton/Durbin Microfilm Finding Aid w/JG Hamilton 5x7 photograph and letter from Grace Walpole.	6105
2	1: LBL HRE Records. Jan., 1994 2: LBL HRE Records. Feb., 1994 3: LBL HRE Records. Mar., 1994 4: LBL HRE Records. Mar., 1994 5: LBL HRE Records. Apr., 1994 6: LBL HRE Records. Apr., 1994 7: LBL HRE Records. May, 1994 8: LBL HRE Records. Jun., 1994 9: LBL HRE Records. Jul., 1994 10: LBL HRE Records. Aug., 1994 11: LBL HRE Records. Sep., 1994 12: LBL HRE Records. Oct., 1994 13: LBL HRE Records. Nov., 1994 1 of 2 14: LBL HRE Records. Nov., 1994 2 of 2 15: LBL HRE Records. Dec., 1994 1 of 2 16: LBL HRE Records. Dec., 1994 2 of 2 17: LBL HRE Records. Jan., 1995 1 of 2 18: LBL HRE Records. Feb., 1995 19: LBL HRE Records. Mar., 1995 17: LBL HRE Records. Arpil., 1995 1 of 2 18: LBL HRE Records. April., 1995 2 of 2 19: LBL HRE Records. May, 1995 20: LBL HRE Records. June, 1995 21: LBL HRE Records. July, 1995	6082

## Lawrence Berkeley Laboratory Records Transmittal Addendum

<b>Division and Department</b> Information & Computing Sciences Division	<b>LBL Accession Number</b>
<b>Section, Group or Project</b> ISS, ARO	<b>Page Number</b> 5
<b>Records Title</b> Lori Hefner, Human Radiation Experiment Adminstrative Files	

Office Box Number	Description of Records in Each Box	Box Location
3	1: HRE LH Washington DC Trip Sept 94 2: Los Alamos HRE Presentation 3: Stafford Leak Warren Papers Finding Aid 4: Finding Aids from Stanford Hoover 5: HRE Hanford 6: HRE File Trac - Projects 7: HRE File Trac 8: Marshall Island Rec Search 9: DOE Headquarters Budget Proposal 8/94 10: Docs from DOE - DC Human Rad Review 11: DOE Assistance Visit Guides (3) 12: HRE Exp. Rec. Project - Hamilton Zirconium Studies 13: HRE Research Notes 14: Joseph Hamilton 48A -A-1 Reprt 1948 - 49 15: HRE - Returned SR90 Patient Case File 16: HRE - LBL Site Narative 17: Lori November, 94 Washington DC Trip 18: DOE-OHRE Historians Meeting 19: HRE - 49er Research Issue 20: 49ers 21: HRE - 49ers Research 22: 49ers Addresses, Roster 23: 49ers 24: HRE LBL Press Release on 49ers 25: DOE OHRE Roadmap December Draft (2 reviews) 26: Lori Hefner DOE HRE Presentation May 10, 1994 27: HRE Media Articles 28: HRE Magazine and Broadcast Media Stories 29: LBL HRE Media Transcripts	6092



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<b>Division and Department</b> Information & Computing Sciences Division	<b>LBL Accession Number</b>
<b>Section, Group or Project</b> ISS, ARO	<b>Page Number</b> 6
<b>Records Title</b> Lori Hefner, Human Radiation Experiment Administrative Files	

<b>Office Box Number</b>	<b>Description of Records in Each Box</b>	<b>Box Location</b>

**Lawrence Berkeley Laboratory  
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<b>Division and Department</b> Information & Computing Sciences Division	<b>LBL Accession Number</b>
<b>Section, Group or Project</b> ISS, ARO	<b>Page Number</b> 7
<b>Records Title</b> Lori Hefner, Human Radiation Experiment Administrative Files	

Office Box Number	Description of Records in Each Box	Box Location
4	<p>LBL Archives and Records Office Human Radiation Experiment Records Search and Retrieval Project Binder with approx 17 tabs of high level management information about the formation of the project.</p> <p>Archives and Records Office Human Radiation Exepriments Search and Retrieval Project Training Packet, May-September, 1994 (2 copies)</p> <p>Larence Berkeley Laboratory, Archives and Records Office Human Radiation Experiments Records Search and Retrieval Project Online Bibliographic Databases Searching Guides, Oct 7, 1994</p> <p>Transparencies for the Speech: "Openness: A Cultural Shift The Lawrence Berkeley Laboratory's Archives and Records Office's Role in the U.S. Department of Energy's Human Radiation Experiment Records Search and Retrieval Project Loretta L. Hefner to the Society of California Archivists Annual Meeting, Keynote Address, April 28, 1995 Oakland, California</p>	6842

**Lawrence Berkeley Laboratory  
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<b>Division and Department</b> Information & Computing Sciences Division	<b>LBL Accession Number</b>
<b>Section, Group or Project</b> ISS, ARO	<b>Page Number</b> 8
<b>Records Title</b> Lori Hefner, Human Radiation Experiment Administrative Files	

Office Box Number	Description of Records in Each Box	Box Location
5	<p><b>Presidential Advisory Committee on Human Radiation Experiments</b></p> <ol style="list-style-type: none"> <li>1: Presidential Advisory Committee Documents</li> <li>2: Advisory Committee on Human Radiation Exp-Press Packer October 11-13, 1994 Meeting in San Francisco</li> <li>3: HRE Interim PAC Report Draft ?October 1994</li> <li>4: HRE PAC</li> <li>5: HRE October SF PAC Meeting (2 folders)</li> <li>6: ACHRE Draft REport April 21, 1995</li> <li>7: Interim Report of the Advisory Committee on Human Radiation Experiments, October 21, 1994</li> <li>8: Transcripts of the 4" of Advisory Committee on Human Radiation Experiments from the October 11-13, 1994 Meeting in San Francisco</li> <li>9: ACHRE Second Draft of Final Report April 7</li> <li>10: ACHRE Second Draft of Final Report</li> <li>11: Senate Hearing on HRE Progress on Records Search &amp; Ethical Evluation, December 1, 1994</li> <li>12. LBNL HRE's Team's response to the ACHRE-Herken UC North Final Report Chapter July, 1995</li> </ol>	6793

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<b>Division and Department</b> Information & Computing Sciences Division	<b>LBL Accession Number</b>
<b>Section, Group or Project</b> ISS, ARO	<b>Page Number</b> 9
<b>Records Title</b> Lori Hefner, Human Radiation Experiment Administrative Files	

Office Box Number	Description of Records in Each Box	Box Location
6	<p>HRE UCSF Consent Forms  HRE UCSF Report for FAX Feb 1995  HRE UCSF Budget Proposal  UCSF HRE Efforts</p> <p>Report of UCSF AD Hoc Fact Findings Committee: On World War II Human Radiation Experiments  Vol 1  Vol 2  Report  (2 Copies)</p> <p>Coordination and Information Center response to Dr. Michael Banda, UCSF, request for information on Contract 48A, March 8, 1995  (3 folders)</p> <p>Human Radiation Experiments: The Department of Energy Roadmap to the Story and the Records  (5 Copies)</p>	6232

## Lawrence Berkeley Laboratory Records Transmittal Addendum

<b>Division and Department Information &amp; Computing Sciences Division</b>	<b>LBL Accession Number</b>
<b>Section, Group or Project</b> ISS, ARO	<b>Page Number</b> 10
<b>Records Title</b> Lori Hefner, Human Radiation Experiment Administrative Files	

Office Box Number	Description of Records in Each Box	Box Location
7	<p>Computer Print Out of All LBL Human Radiation Experiments found in database at the Office of Scientific and Technical Information (OSTI) 3-31-94. Provided by the DOE, Office of Human Radiation Experiments</p> <p>Review of the Records Series Descriptions of the DOE Office of Human Radiation Experiments-for DOE Complex</p> <p>DOE Info for ACHRE Briefing Book, 12-12-94</p>	6243
8	<p>Draft chapters of the Presidential Advisory Committee on Human Radiation Experiments Report.</p> <p>Non-record-destroy one year after report is released.</p>	6244

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**ARCHIVES AND RECORDS OFFICE USE ONLY**

<b>Division and Department</b> ICSD - Archives and Records Office		<b>LBL Accession Number</b> 19-1-21
<b>Section, Group or Project</b> Human Radiation Experiments (HRE) Search & Retrieval		<b>LBL Accession Date</b>
<b>Building and Room Number</b> 69-101	<b>Extension</b> 5525	<b>File Code</b>
<b>Person Transferring the Records</b> HRE Team		<b>NARA Accession Number</b>
<b>Department Head</b> Lori Hefner		<b>Archives Receipt (Signature and Date)</b> 4/10/95

**Records Title**  
Human Radiation Experiments Search & Retrieval Project Photocopies of Significant Documents

<b>Inclusive Dates of the Records</b> ca. 1930's - ca. 1980's	<b>Number of Records Boxes</b> (6712-14, 6722-24, 6733-6734) 89
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**Brief Description of the Records** 6295

These records are the photocopies of documents related to the Human Radiation Records Retrieval Project at Lawrence Berkeley Laboratory (LBL). They document the development of experiments using isotopes for the purposes of diagnosis, therapy, research on somatic effects, and uptake by the human body from 1935 to the early 1980's. Documents are variously kept by subject, by provenance order, and by date & include the following: LBL photocopies, University of California Archives, Bancroft Manuscripts Collection (UCB), UC Office of the President Regents Minutes, UC San Francisco Special Collections, Hoover Institute (Stanford), LBL Public Information Office materials, University of Washington, University of California, Los Angeles, and 47 of the top "Hot Documents" chosen by the team for posting on the internet.

**Type of Materials:** (Click on all that apply.)

<input type="checkbox"/> Architectural and Engineering Drawings	<input type="checkbox"/> Photographs
<input type="checkbox"/> Electronic Data	<input type="checkbox"/> Sound Recordings
<input type="checkbox"/> Graphs and Charts	<input type="checkbox"/> Transparencies
<input type="checkbox"/> Microfilm	<input type="checkbox"/> X-Rays
<input checked="" type="checkbox"/> Paper Files	<input type="checkbox"/> Other Specify _____

**Records Retention and Disposition:** (Call the Archivist if you need this information.)

Historically Valuable Records. Do not destroy. A detailed folder list is included with the Records Transmittal.

Destroy/Review on a scheduled basis with a minimum retention of \_\_\_\_\_ years. Disposal/Review date: \_\_\_\_\_

**This is in accordance with:**

The National Archives General Retention Schedule. Citation: 19-1-21(1)

The Department of Energy Retention Schedule. Citation: \_\_\_\_\_

**Disposal Authorization:** (To be signed at the expiration of retention.)

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

\_\_\_\_\_  
Signature of Department Head

\_\_\_\_\_  
Date

## Lawrence Berkeley Laboratory Records Transmittal Addendum

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<b>Records Title</b> Human Radiation Experiments Search & Retrieval Project Photocopies of Significant Documents	

Office Box Number	Description of Records in Each Box	Box Location
1	Photocopies of Significant Documents from: <b>Lawrence Berkeley Laboratory</b> (photocopied 6/94 - 9/94) <ul style="list-style-type: none"> <li>Aeroembolism</li> <li>Aerosols</li> <li>Annual Reports - Human Subjects</li> <li>Atomic Energy Commission (AEC)</li> <li>Atomic Radiation - Bibliography</li> <li>Attitudes - Politics</li> <li><b>Bikini - Marshall Islands</b></li> <li>Bedrest Studies</li> <li>Blood Reimbursement Approvals</li> <li>Carbon 14 Studies</li> <li>CAL-3</li> <li>Hamilton, Human Experimentation (2 files sent to DOE)</li> <li>Cesium 137</li> <li>Cobalt 60</li> <li>Consent Forms</li> <li>Chromium 57 and 49ers</li> <li>Contract 48A</li> <li>Crocker Laboratory Historical - Personnel</li> <li>Documentation of Human Subject Experiments - Correspondence</li> <li>Donner Laboratory Historical - Personnel</li> <li>Donner Laboratory - History</li> <li>Donner Laboratory Monthly Reports</li> <li>Donner Laboratory Space Issues</li> <li>Durbin 1977</li> <li>Experiments/Reports</li> <li>For Markey</li> <li>General Background/History</li> <li>Gofman - Mental Patients</li> </ul>	6714



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Office Box Number	Description of Records in Each Box	Box Location
1	Gold Studies Heavy Ion Therapy Hospitals and Collaboration Howard Parker - Radiation Injury Incidences Human Use Protocols/Policies Iodine 131 - Pregnant Women Institutional History Institutional Policy Introduction to Medical Physics Isotopes - Isotope Production Hardin Jones J.H. Lawrence Livermore Leo Meyer/Will Siri Total Body Water Studies of Marshall Islanders Minutes of Advisory Committee to Division of Medical Physics National Research Council - Project 49A51 Organization Charts	
2	Peru, Bolivia Project Proposals - 1950s Project Proposals - 1970s Projects and Studies - 1980s Public Press Releasing/Reporting Radioactive Releases - Reports 1987-88 Repositories Research Programs/Proposals/Descriptions San Quentin Siri - Body Composition Studies Siri - Everest, Antarctica Human Adaptation Projects Robert Stone - UCSF Robert Stone	6724



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Office Box Number	Description of Records in Each Box	Box Location
2	<p>Strontium Use in Humans Studies of Contamination Accidents Tobias - Scientific Committee on the Effects of Radiation UCSF - Histories Various and Sundry Studies on Humans with Radioactive Isotopes Last - General Meetings and Correspondence Studies - Lawrence and Others</p> <p><b>Biographies</b> Hal Anger Ed Alpen (mostly from Public Information Office, unless marked) Nathaniel I. Berlin James Born Thomas F. Budinger Donald Cooksey (mostly from Public Information Office) Joseph Garcia Rex Lamar Huff John Lawrence (mostly) B.V.A. Low-Beer Earl Miller Howard Parker John C. Schooley Newell Stannard Cornelius Tobias Donald Van Dyke</p> <p><b>Oral Histories</b> Kenneth G. Scott, Transcription of Oral History Interview, RM &amp; RB Divisions Cornelius Tobias, Excerpts from Oral History Documents used by Herken in Preparation for Oral History Interviews History of White Mountain, donated by Nello Pace Bragging Letters to Editor, Earl R. Miller, M.D.</p>	

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Office Box Number	Description of Records in Each Box	Box Location
3	<p>Photocopies of Significant Documents from: <b>University of California Office of the President Files</b> (Kaiser Building, Oakland, California)</p> <p>Folder 1: UCOP - Regents General Minutes. Vol. XXXI (7/14/39 - 12/13/40) Folder 2: UCOP - Regents General Minutes. Vol. XXXVI (8/17/45 - 5/17/46) Folder 3: UCOP - Regents General Minutes. Vol. XXXVII (11/15/46 - 6/27/47) Folder 4: UCOP - Regents General Minutes. Vol. XXXVIX (7/25/47 - 12/12/47) Folder 5: UCOP - Regents General Minutes. Vol. XL (1/23/48 - 7/2/48) Folder 6: UCOP - Regents General Minutes. Vol. XLI (7/23/48 - 4/22/49) Folder 7: UCOP - Regents General Minutes. Vol. XLII (5/27/49 - 7/22/49) Folder 8: UCOP - Regents General Minutes. Vol. XLIII (8/26/49 - 3/31/50) Folder 9: UCOP - Regents General Minutes. Vol. XLIV (4/21/50 - 7/21/50) Folder 10: UCOP - Regents General Minutes. Vol. XLV (8/25/50 - 2/23/51) Folder 11: UCOP - Regents General Minutes. Vol. XLVII (3/30/51 - 6/11/51) Folder 12: UCOP - Regents General Minutes. Vol. LIII (8/24/54 - 4/25/55) Folder 13: UCOP - Regents Committee Minutes. Committee on AEC Projects Vol. 1-6</p>	6734

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Office Box Number	Description of Records in Each Box	Box Location
3	<p>Folder 14: UCOP - Regents Committee Minutes. Committee on Medical and Health Sciences Vol. I (1/52-12/55)</p> <p>Folder 15: UCOP - Regents Committee Minutes. Committee on Medical and Health Sciences Vol. II (1/9/56-9/17/59)</p> <p>Folder 16: UCOP - Regents Committee Minutes. Committee on Finance &amp; Business Management Vol. XLI (1941)</p> <p>Folder 17: UCOP - Regents Committee Minutes. Committee on Finance &amp; Business Management Vol. XLVI (1946)</p> <p>Folder 18: UCOP - Regents Committee Minutes. Committee on Finance &amp; Management Vol. XLVII (1947)</p> <p>Folder 19: UCOP - Regents Committee Minutes. Committee on Finance &amp; Business Management Vol. X (7/69-6/71)</p> <p>Folder 20: UCOP - Regents Executive Session Minutes. Vol. III ( )</p> <p>Folder 21: UCOP - Regents Executive Session Minutes. Vol. IV (1/52-2/58)</p> <p>Photocopies of Significant Documents from:  <b>University of California at San Francisco</b>            (Special Collections Library)</p> <p>Folder 22: UCSF MSS 59-1 Hooper Foundation</p> <p>Folder 23: UCSF MSS 78-6 Dr. Chauncey D. Leake Papers</p> <p>Folder 24: UCSF MSS 83-5 Patt, Dr. Harvey M. Papers</p> <p>Folder 25: UCSF MSS 83-5 Patt, Dr. Harvey M. Papers (De-classified – Dr. Stone)</p> <p>Folder 26: UCSF MSS 87-42 Dr. Ellen Brown Papers</p> <p>Folder 27: UCSF MSS 88-56 Carton 1/25 Boldrey, Edwin Barkley. Papers</p> <p>Folder 28: UCSF MSS 88-56 Carton 6/25 Boldrey, Edwin Barkley. Papers (Cancer Board – 1949-50)</p>	

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Office Box Number	Description of Records in Each Box	Box Location
3	Folder 29: UCSF MSS 88-56 Carton 6/25 Boldrey, Edwin Barkley. Papers (Cancer Board – 1951-52) Folder 30: UCSF MSS 88-56 Carton 6/25 Boldrey, Edwin Barkley. Papers (Cancer Board – 1953-54) Folder 31: UCSF MSS 88-56 Carton 6/25 Boldrey, Edwin Barkley. Papers (Cancer Research Coordinating Committee 1950-52) Folder 32: UCSF AR-24.1 School of Medicine - Committee Reports Folder 33: UCSF AR 59-1 Hooper Foundation Folder 34: UCSF AR 76-4 School of Nursing Administrative Records (Moffitt Hospital Teaching Unit) Folder 35: UCSF AR 79-5 Chancellor, Administrative Records 1955-63 Folder 36: UCSF AR 79-21 Accounting Office Budget Reports 1935-57 Folder 37: UCSF AR 80-4 Hospital and Clinic Admin. Records. Annual Reports (1921-70) Folder 38: UCSF AR 82-2 Moffitt Hospital Folder 39: UCSF AR 84-12 Academic Senate Folder 40: UCSF AR 86-2 Hospital Administration Folder 41: UCSF AR 86-23 Committee on Human Experimentation 1961-72 Folder 42: UCSF AR 87-46 School of Medicine – Dept. of History and Health Sciences Folder 43: UCSF AR 90-56 School of Medicine – Dean – Papers Folder 44: UCSF AR 91-73 University Hospital Admissions and Discharge (Strontium Patients) Folder 45: UCSF AR 91-109 Langley Porter Psychiatric Institute Folder 46: UCSF OH-23 Oral History of Dr. Robert S. Stone	

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Office Box Number	Description of Records in Each Box	Box Location
4	Photocopies of Significant Documents from: <b>The Bancroft Library</b> <b>University of California at Berkeley</b>  Folder 1: Banc Mss 79/112c Hardin B. Jones Committees, Speeches, Reprints, Papers. Cartons 1,3 and 4 Folder 2: Banc Mss 79/112c Hardin B. Jones Committees, Speeches, Reprints, Papers. Carton 2 Folder 3: Banc Mss 79/112c Hardin B. Jones Committees, Speeches, Reprints, Papers. Carton 5 Folder 4: Banc Mss 79/112c Hardin B. Jones Correspondence and Papers. Boxes 3, 6, 7 and 9 Folder 5: Banc Mss 79/112c Hardin B. Jones Correspondence and Papers. Boxes 10, 11, 12, 13, 14 and 15 Folder 6: Banc Mss 80/80c Robert S. Stone Papers Folder 7: Banc Mss 80/81c Kenneth Scott Papers Folder 8: Banc Mss 87/86c John Hundale Lawrence Writings. Carton 1 Folder 9: Banc Mss 87/86c John Hundale Lawrence Writings. Carton 2 Folder 10: Banc Mss 87/86c John Hundale Lawrence Correspondence. Carton 4 Folder 11: Banc Mss 87/86c John Hundale Lawrence Correspondence. Carton 5 Folder 12: Banc Mss 87/86c John Hundale Lawrence Correspondence. Carton 6 Folder 13: Banc Mss 87/86c John Hundale Lawrence Correspondence. Carton 7 Folder 14: Banc Mss 87/86c John Hundale Lawrence Correspondence. Carton 8 Folder 15: Banc Mss 87/86c John Hundale Lawrence Subject Files. Carton 9	6713

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Office Box Number	Description of Records in Each Box	Box Location
4	Folder 16: Banc Mss 87/86c John H. Lawrence Subject Files. Box 1 Folder 17: Banc Mss 87/108c John W. Gofman Papers Folder 18: Banc Mss 88/22c William E. Siri 1963 American Mt. Everest Expedition Files Folder 19: Oral History - William Siri, 1987. Interview conducted by Sally Smith Hughes.	
5	Photocopies of the Ernest O. Lawrence Papers microfilm which is located at the following institutions: <b>Lawrence Berkeley Laboratory, the Bancroft Library, and Centers Information Coordination, Las Vegas, NV.</b> Documents photocopied after September 30 1994 are from the following locations: <b>Lawrence Berkeley Laboratory and Lawrence Berkeley Laboratory Public Information Office;</b> Albert Behnke Papers, photocopied from the <b>Hoover Institute, Stanford University;</b> Radioisotope Conference, 1954 materials photocopied from the <b>Technical Information Department at Lawrence Livermore National Laboratory;</b> R Stone Papers from Herbert M. Parker Papers at the <b>University of Washington.</b>  Folder 1: EOL- Actinium Folder 2: EOL- Paul C. Aebersold Folder 3: EOL- Air Force, Dept. of Folder 4: EOL- American Cynamid Co. Folder 5: EOL- Army, Dept. of Folder 6: EOL- Astatine (EKA-Iodine) Folder 7: EOL- Atom Bomb Folder 8: EOL- AEC Organization Folder 9: EOL- AEC Reports Folder 10: EOL- Barium Folder 11: EOL- Beryllium Folder 12: EOL- Betatron	6723

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Office Box Number	Description of Records in Each Box	Box Location
5 Cont'd	<ul style="list-style-type: none"> <li>Folder 13: EOL- Bikini</li> <li>Folder 14: EOL- Biog.</li> <li>Folder 15: EOL- Bromide Ion and Chloride Ion</li> <li>Folder 16: EOL- Brookhaven, General</li> <li>Folder 17: EOL- Calcium</li> <li>Folder 18: EOL- CA. State Department of Public Health</li> <li>Folder 19: EOL- Cancer Research, Misc.</li> <li>Folder 20: EOL- Carbon 14</li> <li>Folder 21: EOL- Coagulant Studies</li> <li>Folder 22: EOL- Conferences</li> <li>Folder 23: EOL- Donald Cooksey- Diary of Events 1940-1949</li> <li>Folder 24: EOL- Course Descriptions</li> <li>Folder 25: EOL- 60" Cyclotron</li> <li>Folder 26: EOL- Element Naming</li> <li>Folder 27: EOL- Employee Health Hazards, Insurance, Accidents</li> <li>Folder 28: EOL- Fallout</li> <li>Folder 29: EOL- Gofman, John, Biog.</li> <li>Folder 30: EOL- David Greenberg</li> <li>Folder 31: EOL- Heavy Ion</li> <li>Folder 32: EOL- Human Use</li> <li>Folder 33: EOL- Hunter's Point Radiation Lab</li> <li>*Folder 34: EOL- Knolls Atomic Power Lab</li> <li>Folder 35: JHL Biog.</li> <li>Folder 36: EOL- Loyalty Oath</li> <li>Folder 37: EOL- Marshall Islands</li> <li>Folder 38: EOL- Medical Physics Division</li> <li>Folder 39: EOL- National Defense Research Committee (NDRC), General</li> <li>Folder 40: EOL- Naval Radiological Defense Lab</li> <li>Folder 41: EOL- NEPA</li> <li>Folder 42: EOL- Neutron Ray</li> <li>Folder 43: EOL- Non-UC Cyclotrons</li> </ul>	



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5 Cont'd	Folder 44: EOL- Operation Crossroads Folder 45: EOL- Organic and Biochemical Group (Melvin Calvin) Folder 46: EOL- Personnel- Crocker Radiation Lab Folder 47: EOL- Personnel- Hamilton Group Folder 48: EOL- Plutonium, Fission Products Studies Folder 49: EOL- Polonium Folder 50: EOL- Potassium Folder 51: EOL- Project 48-A Folder 52: EOL- Protactinium Folder 53: EOL- Publications and Bibliographies of Hamilton, et al. Folder 54: EOL- Radiation Lab, History Folder 55: EOL- NIH Radiation Safety Folder 56: EOL- Radioarsenic Folder 57: EOL- Radioflourine Folder 58: EOL- Radioiodine Studies Folder 59: EOL- Radioiron Folder 60: EOL- Radiophosphorous Folder 61: EOL- Radiosodium Folder 62: EOL- Rare Earth Folder 63: EOL- Reports, Hamilton, et al. Folder 64: EOL- Strontium Folder 65: EOL- Thorium *Folder 66: EOL- Tritium Folder 67: UC Isotope Authority *Folder 68: EOL- VA Folder 69: EOL- Yttrium Folder 70: EOL- Zirconium Folder 71: LBL 434 90 0209 R & D Administrative Files of Administrative Assistants to Directors of Biomed Division and Donner Lab Folder 72: LBL- Siri #434 91 0131- K40 Body Comp Public Health Study	



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5 Cont'd	Folder 72: LBL- Siri #434 91 0131 Folder 73: LBL Copies Coped During Phase II For Response to DOE Washington Folder 74: LBL Copies Coped During Phase II For Response to DOE Washington Folder 75: Materials Collected from LBL Public Information Office Folder 76: Hoover- MSS 93006-28-03 Albert Behnke Papers Folder 77: "Volume I: Medical and Physiological Applications, Radioisotope Conference, 1954" Folder 78: Stone, (Robert S.) [Herbert M. Paker Papers; University of Washington] [1942-1946]	
6	Photocopies of Significant Documents from: <b>University Archives</b> <b>University of California at Berkeley</b>  1. University Archives CU 1.8, California University Regents, Contracts, Carton 11, Folders 11.6, 11.11, 11.14, 11.15 2. University Archives CU 1.8, California University Regents, Contracts, Carton 11, : Folder 11.25, N7-onr-295 3. University Archives CU 1.8, California University Regents, Contracts, Carton 11, : Folder 11.27, N7-onr-295 4. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.2, AEC general 1947-1949 5. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.3, AEC general 1950-51 6. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.4, AEC 1952 7. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.5, AEC 1947-1948 8. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.14, W-7405-eng-48	4733

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6 Cont'd	9. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.15, W-7405-eng-48 Budget Request 10. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.20, Eng-48 1943 11. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.22, Eng-48 Jul.-Dec. 1944 12. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.24, Eng-48 Jul.-Dec. 1945 13. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.25, Eng-48 Jan.-Jun. 1946 14. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.26, Eng-48 Jul.-Dec. 1946 15. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.29, Eng-48 Jan.-Jun. 1948 16. University Archives CU 1.8, California University Regents, Contracts, Carton 13, Folder 13.3, W7405-eng-48 17. University Archives CU 1.8, California University Regents, Contracts, Carton 13, Folder 13.26, OSRD 18. University Archives CU 1.8, California University Regents, Contracts, Carton 14, Folder 14.1, GEN-12 1947 19. University Archives CU 1.8, California University Regents, Contracts, Carton 14, Folder 14.3, GEN-12 1949 20. University Archives CU 1.8, California University Regents, Contracts, Carton 14, Folder 14.5, GEN-12 1951 21. University Archives CU 1.8, California University Regents, Contracts, Carton 14, Folder 14.6, GEN-12 1952 22. University Archives CU 1.8, California University Regents, Contracts, Carton 14, Folder 14.7, GEN-12 1953-54 23. University Archives CU 1.8, California University Regents, Contracts, Carton 61, Folder 855-20-1, 1957 24. University Archives CU-5, California University President, Correspondence and Papers, Carton 740, Folder 1319-18-007	

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6	25. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 763, Folder 13 26. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 835, Folder 13 #2 27. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 835, Folder 13 Finance & Bus. Mgmt. #2 28. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 507, Folder 112 Langley Porter 29. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 536, Folder 112 30. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 722, Folder 112 31. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 799, Folder 112 32. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 1180a, Folder 112 Langley Porter Clinic 33. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 649, Folder 121 34. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 699, Folder 140 #1 Cancer 35. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 699, Folder 140 #2 Cancer 36. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 722, Folder 140 Cancer Funds 37. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 745, Folder 140 38. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 745, Folder 140-B 39. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 745, Folder 140-K Cancer 40. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 745, Carton 140-L Cancer	

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6	41. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 745, Folder 140-S Cancer 42. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 745, Folder 140-Reports Cancer 43. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 770, Folder 140 Cancer Research 44. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 840, Folder 140 #2 Cancer Research 45. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 864, Folder 140 A-F 1954 46. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 864, Folder 140 L-P 1954 47. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 864, Folder 140 R-T 48. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 864, Folder 140 1954 49. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 887, Folder 140 B, P, R-S 50. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 887, Folder 140 #4 Cancer Research 51. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 888, Folder 140- Reports 52. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 915, Folder 140 C, Ctee, F, Rpts. 53. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 1128, Folder 140 Rpts. 54. Univ. Archives CU-5, CA. Univ. Pres., Corresp. & Papers, Carton 1169, Folder Cancer Project-SF Dormant Special Problem 55. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton [not noted], Folder 140 L-Z 1948 56. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 749, Folder 360-Berkeley	

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<b>Section, Group or Project</b> Human Radiation Experiments (HRE) Search & Retrieval Project	<b>Page Number</b> 3
<b>Records Title</b> Human Radiation Experiments Search & Retrieval Project Photocopies of Significant Documents	

Office Box Number	Description of Records in Each Box	Box Location
6	57. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 775, Folder 360-Berkeley 58. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 844, Folder 360-Berk 59. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 867, Folder 360 60. Univ. Archives CU-5, CA. Univ. Pres., Corresp. & Papers, Carton 867, unbound Annual Report of the Univ. Physician 1952-53 61. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 892, Folder 360-Rpts.	
7	Photocopies of Significant Documents from: <b>University Archives</b> <b>University of California at Berkeley</b>  1. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 496, Folder 415 #2 2. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 685, Folder 419 3. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 807, Folder 419 4. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 846, Folder 419 5. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 870, Folder 419 6. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 752, Foder 420 psych 7. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 826, Folder 420 8. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 895, Folder 420 9. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 1149, Folders 419, 420	6712

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Office Box Number	Description of Records in Each Box	Box Location
7	10. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 706, Folders 419, 420, 421 11. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 728, Folders 419, 420, 421 12. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 752, Folder 425 13. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 870, Folder 425 14. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 686, Folder 435, 1946 (Research Board) 15. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 728, Folder 735, 1948 (Research Board) 16. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 807, Folder 435, 1951 (Research Board) 17. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 870, Folder 435, 1954 18. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 896, Folder 435 N.R. 1955 (Research Board) 19. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 605, Folder 436 #2 20. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 484, Folder 483-Medicine 21. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 484, Folder 483-H 22. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 708, Folder 484-folder 1 23. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 755, Folder 483-H 24. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 810, Folder 483-H #1 25. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 871, Folder 483	

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<b>Records Title</b> Human Radiation Experiments Search & Retrieval Project Photocopies of Significant Documents	

Office Box Number	Description of Records in Each Box	Box Location
7	26. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 871, Folder 483-H #1 27. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 871, Folder 483-H #2 28. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 871, Folder 483-Medicine 29. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 897, Folder 483-H #1 30. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 897, Folder 483-H #2 31. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 897, Folder 483-Medicine 32. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 897, Folder 483-Obstetrics/Gynecology 33. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 926, Folder 483-MED 34. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 1182, Bound Folder "Special Problem: Relationship of Medical School & Divison of Medical Physics" 35. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 758, Folder 644 36. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 758, Folder 644-B 37. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 829, Folder 644-B #2 38. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 829, Folder 644-L 39. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 830, Folder 644-M 40. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 851, Folder 644-A 41. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 852, Folder 644-H	

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<b>Records Title</b> Human Radiation Experiments Search & Retrieval Project Photocopies of Significant Documents	

Office Box Number	Description of Records in Each Box	Box Location
7	42. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 852, Folder 644-J 43. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 852, Folder 644-M #1 44. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 852, Folder 644-N 45. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 852, Folder 644-R 46. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 852, Folder 644-W #1 47. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 874, Folder 644 48. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 874, Folder 644-A 49. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 874, Folder 644-B #1 50. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 874, Folder 644-B #2 51. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 875, Folder 644-N 52. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 875, Folder 644-S #1 53. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 875, Folder 644-T 54. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 875, Folder 644-W #1 55. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 875, Folder 644-W #2 56. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 899, Folder 644 57. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 900, Folder 644-L	

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<b>Records Title</b> Human Radiation Experiments Search & Retrieval Project Photocopies of Significant Documents	

Office Box Number	Description of Records in Each Box	Box Location
7	58. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 900, Folder 644-M 59. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 900, Folder 644-S #2 60. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 929, Folder 644-B #1 61. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 711, Folder 650 62. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 733, Folders 650 #1 & 650 Contracts #1 63. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 788, Folder 650 Contracts #1 64. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 813, Folders 650, 650 Contracts #1 & 650 Contracts #2 65. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 830, Folder 650 Contracts 66. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 852, Folder 650 Contracts #1 67. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 901, Folder 650 & 650 Contracts #2 68. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 759, Folder 713 69. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 667, Folder 748 #1 70. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 691, Folder 748 71. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 713, Folders 748 #2 & 748 #4 72. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 735, Folder 748 #1 73. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 736, Folder 748-L	

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<b>Records Title</b> Human Radiation Experiments Search & Retrieval Project Photocopies of Significant Documents	

Office Box Number	Description of Records in Each Box	Box Location
7	74. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 760, Folder 748-L 75. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 791, Folder 748-L 76. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 817, Folder 748 #2 77. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 818, Folder 748-P #1 78. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 855, Folder 748-1953 79. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 879, Folder 748-P 80. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 933, Folder 748-A 81. Univ. Archives 301, CA Univ. President, Personal Papers, Carton 11 82. University Archives CU-301, California University President, Personal Papers, Carton 39	
8	<b>Phase II - UCLA Photocopies</b> 1. Box 4 - 255; Admin. Files of Jeanne Williams 2. Box 5 - 255; Admin. Files of Jeanne Williams 3. Box 10 - 255; Admin. Files of Jeanne Williams 4. Box 25 - 300.500; UCLA Administrative Files - S. Warren Atomic Bomb & Atomic Energy, 1949 5. Box 27 - Series 300, Subseries 500; Admin. Files/Stafford Warren -Atomic Energy Commission (AEC) Gen'l.; 1940-56 6. Box 28 - 300.500; Admin./Stafford Warren - AEC Gen'l. - 1952 7. Box 29 - 300.500; UCLA Admin. Files - S. Warren AEC-General; 7/54 - 56	<div style="font-size: 2em; font-family: cursive;">6722</div>



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Office Box Number	Description of Records in Each Box	Box Location
8 Cont'd	8. Box 29 - 300.500; UCLA Administrative Files - S. Warren AEC General; 7/54 - 56 9. Box 31 - 300.600; UCLA Administrative Files - S. Warren AEC Project - UCLA; 11/51 - 52 10. Box 32 - 300.600; UCLA Admin. Files - S. Warren AEC Project -UCLA - General; Jan.-July 1957 11. Box 32 - 300.600; UCLA Admin. Files - S. Warren AEC Project -UCLA - General; Aug.-Dec. 1957 12. Box 32 - 300.600; UCLA Admin. Files - S. Warren AEC Project - UCLA - General; Aug.-Dec. 1957 13. Box 32 - 300.600; UCLA Admin. - S. Warren - AEC Project - UCLA - General - School of Medicine Reports; 1957 14. Box 32 - 300.600 - UCLA Admin. Files - S. Warren - AEC Project -UCLA - General - School of Medicine Reports; 1959 15. Box 33 - 300.600; UCLA Admin. Files - S. Warren - AEC Project -UCLA - General; Jan.-Mar. 1958 16. Box 33 - 300.600; UCLA Admin. Files - S. Warren AEC Project - UCLA - General; Apr.-June 1958 17. Box 33 - 300.600; UCLA Admin. Files - S. Warren - AEC Project -UCLA - General; July-Dec. 1958 18. Box 33 - 300.600; UCLA Admin. Files - S. Warren - AEC Project -UCLA - General; July-Dec. 1958 19. Box 34 - 300.600; Admin./Stafford Warren - AEC UCLA Gen'l.; 1947-60 20. Box 35 - 300.600; Admin. Files/Stafford Warren - AEC UCLA Gen'l.; 1947-66 21. Box 59 - 401; Admin. Subject Files of Franklin Murphy 22. Box 64 - 300-1800; Admin. Files of Stafford Warren 23. Box 65 - 300-1800; Admin. Files of Stafford Warren 24. Box 66 - 300-1800; Admin. Files of Stafford Warren 25. Box 67 - 300-1800; Admin. Files of Stafford Warren 26. Box 68 - 300-1800-2; Admin. Files of Stafford Warren	

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Office Box Number	Description of Records in Each Box	Box Location
8	27. Box 71 - 300-1800-2; Admin. Files of Stafford Warren 28. Box 73 - 300-1900; Admin. Files of Stafford Warren 29. Box 73 - 401; Admin. Subject Files of Franklin Murphy 30. Box 76 - 300-2400; Admin. Files of Stafford Warren 31. Box 77 - 300-2600; Admin. Files of Stafford Warren 32. Box 78 - 300-2600; Admin. Files of Stafford Warren 33. Box 82 - 300-2600; Admin. Files of Stafford Warren 34. Box 83 - 300-2600; Admin. Files of Stafford Warren 35. Box 86 - 300-3000; Admin. Files of Stafford Warren 36. Box 87 - 300-3000; Admin. Files of Stafford Warren 37. Box 88 - 300.3000; Admin. Files/Stafford Warren U.S. Gov't.; 1945-63 38. Box 88 - 300.3000; Admin. Files of Stafford Warren U.S. Gov't.;1945-63/V.A. 1950 39. Box 89 - 300-3000.5; Admin. Files of Stafford Warren 40. Box 96 - 300-2100; Admin. Files of Stafford Warren 41. Box 97 - 300- ; Admin. Files of Stafford Warren 42. Box 98 - 300- ; Admin. Files of Stafford Warren 43. Box 98 - 401; Admin. Subject Files of Franklin Murphy 44. Box 98 - Collection #987; UCLA - Warren, Stafford Personal Papers 45. Box 99 - Collection #987; UCLA - Warren, Stafford Personal Papers 46. Box 102 - Collection #987; UCLA - Warren, Stafford Personal Papers 47. Box 103 - Collection #987; UCLA - Warren, Stafford Personal Papers 48. Box 105 - Collection #987; UCLA - Warren, Stafford Personal Papers 49. Box 132 - 300- ; Admin. Files of Stafford Warren 50. Box 134 - 300- ; Admin. Files of Stafford Warren	

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<b>Records Title</b> Human Radiation Experiments Search & Retrieval Project Photocopies of Significant Documents	

Office Box Number	Description of Records in Each Box	Box Location
8 Cont'd	51. Box 135 - 300-2100-6; Admin. Files of Stafford Warren 52. Box 147 - 300-2100-6; Admin. Files of Stafford Warren 53. Box 148 - 200-2100 -; Admin. Files of Stafford Warren 54. Box 158 - 300-2100-6; Admin. Files of Stafford Warren 55. Box 159 - 300-2100-6; Admin. Files of Stafford Warren 56. Box 163 - 300-3100-1; Admin. Files of Stafford Warren 57. Box 179 - 300-3100-2; Admin. Files of Stafford Warren 58. Box 260 - Collection #987; UCLA - Warren, Stafford Personal Papers 59. Box 283 - Collection #987; UCLA - Warren, Stafford Personal Papers  <b>46 Hot Documents for the Internet (Hollanger Box)</b>  1. Hot Docs - for Internet	
9	<b>UCSF Special Collections Radiological Laboratory Reports AR 86-34:</b>  1. UCSF-0 2. UCSF-1 3. UCSF-2 4. UCRL-948 5. UCRL-949 6. UCSF-5 7. Department of Radiology Progress Report 8. UCSF-7 9. UCSF-8 10. UCSF-9 11. UCSF-10 12. UCSF-11 13. UCSF-12 14. UCSF-13	<div style="font-size: 2em; font-family: cursive;">6295</div>

**Lawrence Berkeley Laboratory  
Records Transmittal Addendum**

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<b>Records Title</b> Human Radiation Experiments Search & Retrieval Project Photocopies of Significant Documents	

Office Box Number	Description of Records in Each Box	Box Location
9 cont'd	<b>UCSF Special Collections Radiological Laboratory Reports AR 86-34 Cont'd:</b>  15. UCSF-14 16. UCSF-15 17. UCSF-16 18. UCSF-17 19. UCSF-18 20. UCSF-19 21. UCSF-20 22. UCSF-21 23. UCSF-22 24. UCSF-23	

**UNITED STATES DEPARTMENT OF ENERGY  
HUMAN EXPERIMENT INVENTORY FORM**

DESTROYED (EXPLAIN IN ITEM 27)

<b>1. NAME OF FACILITY</b> University of California Lawrence Berkeley Laboratory 1 Cyclotron Road		<b>2. RESPONSIBLE OFFICE</b> Archives and Records Office Building 69-107	
<b>3. CONTACT NAME</b> Loretta L. Hefner Form completed by Lawrence Berkeley Laboratory Archives and Records Office		<b>4. CONTACT TELEPHONE</b> 510-486-5525 [Telephone] 510-486-7200 [FAX]	
<b>5. SERIES TITLE</b> Human Radiation Experiments Significant Documents Photocopies		<b>6. INCLUSIVE DATES</b> 1935-1980's	
<b>7. ACCESS RESTRICTIONS</b> <input type="checkbox"/> PRIVACY ACT <input type="checkbox"/> OTHER <input type="checkbox"/> COMPANY CONFIDENTIAL <input type="checkbox"/> SECRET <input type="checkbox"/> PROPRIETARY <input checked="" type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> UCNI <input type="checkbox"/> RD		<b>8. PERCENT CLASSIFIED</b> 0	<b>9. MEDIUM</b> <input checked="" type="checkbox"/> PAPER <input type="checkbox"/> ELECTRONIC <input type="checkbox"/> MICROFORM <input type="checkbox"/> OTHER
<b>10. DESCRIPTION OF RECORDS</b> These records are the photocopies of documents related to the Human Radiation Records Retrieval Project at Lawrence Berkeley Laboratory (LBL). They document the development of experiments using isotopes for the purposes of diagnosis, therapy, research on somatic effects, and uptake by the human body from 1935 to the early 1980's. Documents are variously kept by subject, by provenance order, and by date. The series is divided into the following subseries: LBL photocopies, University of California Archives photocopies, Bancroft Manuscripts Collection photocopies (UCB), University of California Office of the President Regents Minutes photocopies, University of California, San Francisco Special Collections photocopies, Hoover Institute photocopies (Stanford), LBL Public Information Office materials, University of Washington photocopies (photocopies from Herbert Parker Papers related to Dr. Robert Stone), and responses to information requests from the Department of Energy Advisory Committee on Human Radiation Experiments, Washington D.C. Series descriptions for materials uncovered from each series examined at these institutions are available.			
<b>11. SCHEDULED</b> <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES      DOE/GRS SCHEDULE CITATION: GRS19.18a: permanent			
<b>12. INFORMATIONAL ANALYSIS</b> This series represents the bulk of material available related to Human Radiation Experiments at the above institutions. Some relevant materials were not photocopied at the discretion of the individual researcher. Series descriptions provide a valuable pointer for materials that are not included in this series. These documents include the correspondence showing the development of experiments and experimental technique, scientific reports to the Atomic Energy Commission, meeting minutes documenting funding decisions and project steering, as well as the attitudes towards human experimentation held by the individual researchers. All photocopies have the provenance information on the header of the legal-sized paper.			
<b>13. INFORMATIONAL RANKING</b> <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3		<b>14. LOCATION OF RECORDS (FULL ADDRESS, BLDG NO., ROOM NO.)</b> Lawrence Berkeley Laboratory Archives and Records Office 69-102 Shelf #6102 Accession Number:	
<b>15. TYPE OF RECORD</b> <input type="checkbox"/> PROGRAM <input type="checkbox"/> PERSONNEL <input type="checkbox"/> MEDICAL <input type="checkbox"/> OTHER		<b>16. ARRANGEMENT</b> LBL: by subject All other institutions: by provenance info.	
		<b>VOLUME CUBIC FEET</b> 8.34	

IF SPECIFIC INFORMATION IS KNOWN REGARDING EXPERIMENTS OR RELEASES, PLEASE COMPLETE ITEMS 18-24

<b>18. CATEGORY (CHECK ALL THAT APPLY)</b> <input type="checkbox"/> EXPERIMENT <input type="checkbox"/> RADIATION <input type="checkbox"/> RELEASE <input type="checkbox"/> TOXIC CHEMICAL <input type="checkbox"/> CONTROLLED SUBSTANCE		Lawrence Berkeley Laboratory Archives and Records Office 69-102 Shelf #6102 Accession Number:
<b>19. TITLE OF EXPERIMENT(S)/RELEASE(S)</b>		
<b>20. PRINCIPAL INVESTIGATOR</b>		<b>21. INVESTIGATOR'S AFFILIATION</b>
<b>22. DESCRIPTION</b> Photocopies of Significant Documents from: <b>Lawrence Berkeley Laboratory</b> (photocopied 6/94 - 9/94) Box 1: Aeroembolism Aerosols Annual Reports - Human Subjects Atomic Energy Commission (AEC) Atomic Radiation - Bibliography Attitudes - Politics <b>Bikini - Marshall Islands</b> Bedrest Studies Blood Reimbursement Approvals Carbon 14 Studies CAL-3 Hamilton, Human Experimentation (2 files sent to DOE) Cesium 137 Cobalt 60 Consent Forms Chromium 57 and 49ers Contract 48A Crocker Laboratory Historical - Personnel Documentation of Human Subject Experiments - Correspondence Donner Laboratory Historical - Personnel Donner Laboratory - History Donner Laboratory Monthly Reports Donner Laboratory Space Issues Durbin 1977 Experiments/Reports For Markey General Background/History Gofman - Mental Patients		
<b>23. DATE(S) OF EXPERIMENT(S)/RELEASE(S)</b>		<b>24. CONDUCTED BY</b>
<b>25. LOCATION(S) OF EXPERIMENT(S)/RELEASE(S) (FACILITY, ORGANIZATION, CITY, STATE)</b>		
<b>26. CROSS REFERENCES (TO OTHER RECORDS; EXPERIMENTS)</b>		
<b>28. PROVENANCE/RECORDS LIAISON OFFICER</b> Perry Hall Lawrence Berkeley Laboratory Archives and Records Office		<b>29. TELEPHONE</b>
<b>31. QA REVIEWER</b>		<b>30. MAILSTOP OF PROVENANCE</b>
<b>32. TELEPHONE</b> 510-486-5525 [Phone] 510-486-7200 (FAX)		<b>33. DATE OF REVIEW</b> 4/25/95

### 34. Additional Comments

Page 3

#### Box 1 Cont'd:

Gold Studies  
Heavy Ion Therapy  
Hospitals and Collaboration  
Howard Parker - Radiation Injury Incidences  
Human Use Protocols/Policies  
Iodine 131 - Pregnant Women  
Institutional History  
Institutional Policy  
Introduction to Medical Physics  
Isotopes - Isotope Production  
Hardin Jones  
J.H. Lawrence  
Livermore  
**Leo Meyer/Will Siri Total Body Water Studies of Marshall Islanders**  
Minutes of Advisory Committee to Division of Medical Physics  
National Research Council - Project 49A51  
Organization Charts

#### Box 2:

Peru, Bolivia  
Project Proposals - 1950s  
Project Proposals - 1970s  
Projects and Studies - 1980s  
Public Press Releasing/Reporting  
Radioactive Releases - Reports 1987-88  
Repositories  
Research Programs/Proposals/Descriptions  
San Quentin  
Siri - Body Composition Studies  
Siri - Everest, Antarctica Human Adaptation Projects  
Robert Stone - UCSF  
Robert Stone  
Strontium Use in Humans  
Studies of Contamination Accidents  
Tobias - Scientific Committee on the Effects of Radiation  
UCSF - Histories  
Various and Sundry Studies on Humans with Radioactive Isotopes  
Last - General Meetings and Correspondence  
Studies - Lawrence and Others

#### **Biographies**

Hal Anger  
Ed Alpen (mostly from Public Information Office, unless marked)  
Nathaniel I. Berlin  
James Born  
Thomas F. Budinger  
Donald Cooksey (mostly from Public Information Office)  
Joseph Garcia  
Rex Lamar Huff  
John Lawrence (mostly)  
B.V.A. Low-Beer  
Earl Miller  
Howard Parker  
John C. Schooley  
Newell Stannard  
Cornelius Tobias  
Donald Van Dyke

**UNITED STATES DEPARTMENT OF ENERGY  
HUMAN EXPERIMENT INVENTORY FORM**

DESTROYED (EXPLAIN IN ITEM 27)

1. NAME OF FACILITY Special Collections, Library UC San Francisco San Francisco, CA 94143-0840		2. RESPONSIBLE OFFICE Robin Chandler, UCSF	
3. CONTACT NAME Robin Chandler Form completed by Lawrence Berkeley Laboratory Archives and Records Office		4. CONTACT TELEPHONE (415) 476-8112 FAX: (415) 476-4653	
5. SERIES TITLE University of California, San Francisco - Radiological Laboratory Reports		6. INCLUSIVE DATES 1949-63	
7. ACCESS RESTRICTIONS <input type="checkbox"/> PRIVACY ACT <input type="checkbox"/> COMPANY CONFIDENTIAL <input type="checkbox"/> PROPRIETARY <input type="checkbox"/> UCNi <input type="checkbox"/> OTHER <input type="checkbox"/> SECRET <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> PD		8. PERCENT CLASSIFIED 0	9. MEDIUM <input checked="" type="checkbox"/> PAPER <input type="checkbox"/> ELECTRONIC <input type="checkbox"/> MICROFORM <input type="checkbox"/> OTHER
10. DESCRIPTION OF RECORDS This series contains reports written by the Radiological Laboratory at the University of California at San Francisco, under contract with the Atomic Energy Commission. They record the progress of medical experiments conducted by the Radiological Laboratory, including experiments and medical technology concerning the 70 Mev synchrotron, and hematological studies. Among the diseases treated were cancers, thyroid disorders and studies on the hematological effects on total body irradiation. Accession Number: UCSF AR 85-34 Based on sampling for Human Radiation Experiments Retrieval Project- Boxes examined- Box numbers 1 of 1			
11. SCHEDULED <input type="checkbox"/> NO <input type="checkbox"/> YES      DOE/GRS SCHEDULE CITATION: Not applicable			
12. INFORMATIONAL ANALYSIS Contains some material of interest to the Human Radiation Experiments Retrieval Project. See page 2 for detail description.			
13. INFORMATIONAL RANKING <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3		14. LOCATION OF RECORDS (FULL ADDRESS, BLDG NO., ROOM NO.) Special Collections UC San Francisco San Francisco, CA 94143-0840 Accession Number: AR-85-34	
15. TYPE OF RECORD <input checked="" type="checkbox"/> PROGRAM <input type="checkbox"/> PERSONNEL <input type="checkbox"/> MEDICAL <input type="checkbox"/> OTHER		16. ARRANGEMENT Chronological	VOLUME CUBIC FEET 1

IF SPECIFIC INFORMATION IS KNOWN REGARDING EXPERIMENTS OR RELEASES, PLEASE COMPLETE ITEMS 18-24

<b>18. CATEGORY (CHECK ALL THAT APPLY)</b> <input checked="" type="checkbox"/> EXPERIMENT <input checked="" type="checkbox"/> RADIATION    Special Collections <input type="checkbox"/> RELEASE <input type="checkbox"/> TOXIC CHEMICAL    UC San Francisco <input type="checkbox"/> CONTROLLED SUBSTANCE    San Francisco, CA 94143-0840 Accession Number: AR-85-34		
<b>19. TITLE OF EXPERIMENT(S)/RELEASE(S)</b> Hematological Effects of Total Body Irradiation; Metabolism and Effects of Radioiodine		
<b>20. PRINCIPAL INVESTIGATOR</b> Low-Beer, Alexander, Stone, Miller, Aggeler, Holmes, Dailey, Sheline		<b>21. INVESTIGATOR'S AFFILIATION</b> UCSF
<b>22. DESCRIPTION</b> Report #1- 7/1/49-4/15/50 Biological Effects of Radiations from External and Internal Sources- States that psychiatric patients from Langley Porter Clinic were used as controls in radioiodine/thyroid tests. Descriptions of a number of experiments using X-rays, radioiodine, and radiophosphorus. There is also a report of thyroid uptake studies that used I131. Report #2- 4/1/49-2/28/50 Hematological Effects of Ionizing Radiations VII- This report follows up the hematological studies in the above mentioned report. Gives detailed information on blood counts before and after irradiation. Report #3- 10/50 Experience at the University of California with the Treatment of Patients with Hyperthyroidism by I131- This report gives a history of the use of radioiodine, dosages, methods of administration, and results. Report #4- 10/50 The Correlation of the Initial Rate of I131 Uptake in the Thyroid with the Clinical Evaluation of Thyroid Function- I131 uptake research. Report #5- 3/28/52- Hematology Section, Part C Hematological Effects of Total Body Irradiation- Reports of blood counts done on both patients irradiated and normal subjects. Report #5- 3/28/52- Radioiodine Section- I131 studies on patients with thyroid disorders. Some patients appear to have been given tracers for the purpose of examination upon the removal of their thyroids. Report #6- 1/27/53- Hematology Section- I. Studies of Bone Marrow of Patients with Cancer of the Thyroid Treated with Radioiodine- This reports uses humans irradiated with I131 as part of their cancer treatment to study the effects of radiation on the blood. Report #6- 1/27/53- Radioiodine Section- These experiments involve research into the uptake of I131. Report #8, 1953 Annual Report contains documentation (Section 2 of the Hematology Section) of an experiment titled "The Effect of I131 on the Bone Marrow" by Paul Aggeler. The experiment's purpose "was to determine the degree and types of changes which occur in bone marrow of patients with carcinoma of the thyroid treated with large, repeated doses of I131. Some patients showed severe bone marrow damage. In the course of the investigation, some patients were also studies who subsequently proved not to have carcinoma of the thyroid and were therefore given only tracer or thyroidectomizing doses of I131." In the Radioiodine Section of the same report, there is documentation of an experiment on 18 patients with cancer of the thyroid. They were given I131 as an experimental therapy and observed. Another experiment involved the pathology of irradiated thyroids and a follow-up study of 175 previously irradiated thyroid patients. (See Page 3 for more notes on this series)		
<b>23. DATE(S) OF EXPERIMENT(S)/RELEASE(S)</b>		<b>24. CONDUCTED BY</b>
<b>25. LOCATION(S) OF EXPERIMENT(S)/RELEASE(S) (FACILITY, ORGANIZATION, CITY, STATE)</b>		
<b>26. CROSS REFERENCES (TO OTHER RECORDS; EXPERIMENTS)</b>		
<b>28. PROVENANCE/RECORDS LIAISON OFFICER</b> Andy Mugnier Lawrence Berkeley Laboratory Archives and Records Office		<b>29. TELEPHONE</b>
<b>31. QA REVIEWER</b>		<b>30. MAILSTOP OF PROVENANCE</b>
<b>32. TELEPHONE</b> 510-486-5525 [Phone] 510-486-7200 (FAX)		<b>33. DATE OF REVIEW</b> 10/12/94

Report #10, 12/31/54 documents continued follow-up studies of patients irradiated with I131. Dailey, Miller, and Lindsay conducted the experiments.

Report #11, 6/30/55 contains more follow-up reports pertaining to patients given I131. Low-Beer was Radioiodine Section Chief by that time. Also, some publications using human radiation experiments are noted in the Publications Section of this report.

Report #13, 6/30/ 56 In the Clinical Section of this report there is a list of the conditions and illnesses of those patients selected to be subjects of an experiment involving the use of beam radiation, probably from the 70 MeV synchrotron.

Report #14, 12/31/56 This report contains documentation pertaining to patients treated on the 70 MeV synchrotron. It also contains publication information on experiments that used human subjects.

Reports #15-23 The Clinical Section of these reports contain more follow-up research on the 70 MeV synchrotron patients.

### 35. Further Additional Comments

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Box 2 Cont'd:

#### **Oral Histories**

Kenneth G. Scott, Transcription of Oral History Interview,  
RM & RB Divisions

Cornelius Tobias, Excerpts from Oral History  
Documents used by Herken in Preparation for Oral History  
Interviews

History of White Mountain, donated by Nello Pace  
Bragging Letters to Editor, Earl R. Miller, M.D.

Box 3:

Photocopies of Significant Documents from:

**University of California Office of the President Files**  
(Kaiser Building, Oakland, California)

Folder 1: UCOP - Regents General Minutes. Vol. XXXI  
(7/14/39 - 12/13/40)

Folder 2: UCOP - Regents General Minutes. Vol. XXXVI  
(8/17/45 - 5/17/46)

Folder 3: UCOP - Regents General Minutes. Vol. XXXVII  
(11/15/46 - 6/27/47)

Folder 4: UCOP - Regents General Minutes. Vol. XXXVIX  
(7/25/47 - 12/12/47)

Folder 5: UCOP - Regents General Minutes. Vol. XL  
(1/23/48 - 7/2/48)

Folder 6: UCOP - Regents General Minutes. Vol. XLI  
(7/23/48 - 4/22/49)

Folder 7: UCOP - Regents General Minutes. Vol. XLII  
(5/27/49 - 7/22/49)

Folder 8: UCOP - Regents General Minutes. Vol. XLIII  
(8/26/49 - 3/31/50)

Folder 9: UCOP - Regents General Minutes. Vol. XLIV  
(4/21/50 - 7/21/50)

Folder 10: UCOP - Regents General Minutes. Vol. XLV  
(8/25/50 - 2/23/51)

Folder 11: UCOP - Regents General Minutes. Vol. XLVII  
(3/30/51 - 6/11/51)

Folder 12: UCOP - Regents General Minutes. Vol. LIII  
(8/24/54 - 4/25/55)

Folder 13: UCOP - Regents Committee Minutes. Committee on AEC Projects Vol. 1-6

Folder 14: UCOP - Regents Committee Minutes. Committee on Medical and Health Sciences Vol. I (1/52-12/55)

Folder 15: UCOP - Regents Committee Minutes. Committee on Medical and Health Sciences Vol. II (1/9/56-9/17/59)

Folder 16: UCOP - Regents Committee Minutes. Committee on Finance & Business Management Vol. XLI (1941)

Folder 17: UCOP - Regents Committee Minutes. Committee on Finance & Business Management Vol. XLVI (1946)

Folder 18: UCOP - Regents Committee Minutes. Committee on Finance & Management Vol. XLVII (1947)

Folder 19: UCOP - Regents Committee Minutes. Committee on Finance & Business Management Vol. X (7/69-6/71)

Folder 20: UCOP - Regents Executive Session Minutes. Vol. III ( )

Folder 21: UCOP - Regents Executive Session Minutes. Vol. IV (1/52-2/58)

Photocopies of Significant Documents from:

**University of California at San Francisco**  
(Special Collections Library)

Folder 22: UCSF MSS 59-1 Hooper Foundation

Folder 23: UCSF MSS 78-6 Dr. Chauncey D. Leake Papers

Folder 24: UCSF MSS 83-5 Patt, Dr. Harvey M. Papers

Folder 25: UCSF MSS 83-5 Patt, Dr. Harvey M. Papers (De-classified - Dr. Stone)

Folder 26: UCSF MSS 87-42 Dr. Ellen Brown Papers

Folder 27: UCSF MSS 88-56 Carton 1/25 Boldrey, Edwin Barkley. Papers

Folder 28: UCSF MSS 88-56 Carton 6/25 Boldrey, Edwin Barkley. Papers (Cancer Board - 1949-50)

## 36. Further Additional Comments

Page 5

### Box 3 Cont'd:

- Folder 29: UCSF MSS 88-56 Carton 6/25 Boldrey, Edwin Barkley. Papers (Cancer Board – 1951-52)
- Folder 30: UCSF MSS 88-56 Carton 6/25 Boldrey, Edwin Barkley. Papers (Cancer Board – 1953-54)
- Folder 31: UCSF MSS 88-56 Carton 6/25 Boldrey, Edwin Barkley. Papers (Cancer Research Coordinating Committee 1950-52)
- Folder 32: UCSF AR-24.1 School of Medicine - Committee Reports
- Folder 33: UCSF AR 59-1 Hooper Foundation
- Folder 34: UCSF AR 76-4 School of Nursing Administrative Records (Moffitt Hospital Teaching Unit)
- Folder 35: UCSF AR 79-5 Chancellor, Administrative Records 1955-63
- Folder 36: UCSF AR 79-21 Accounting Office Budget Reports 1935-57
- Folder 37: UCSF AR 80-4 Hospital and Clinic Admin. Records. Annual Reports (1921-70)
- Folder 38: UCSF AR 82-2 Moffitt Hospital
- Folder 39: UCSF AR 84-12 Academic Senate
- Folder 40: UCSF AR 86-2 Hospital Administration
- Folder 41: UCSF AR 86-23 Committee on Human Experimentation 1961-72
- Folder 42: UCSF AR 87-46 School of Medicine – Dept. of History and Health Sciences
- Folder 43: UCSF AR 90-56 School of Medicine – Dean – Papers
- Folder 44: UCSF AR 91-73 University Hospital Admissions and Discharge (Strontium Patients)
- Folder 45: UCSF AR 91-109 Langley Porter Psychiatric Institute
- Folder 46: UCSF OH-23 Oral History of Dr. Robert S. Stone

### Box 4:

Photocopies of Significant Documents from:

#### **The Bancroft Library**

#### **University of California at Berkeley**

- Folder 1: Banc Mss 79/112c Hardin B. Jones Committees, Speeches, Reprints, Papers. Cartons 1,3 and 4
- Folder 2: Banc Mss 79/112c Hardin B. Jones Committees, Speeches, Reprints, Papers. Carton 2
- Folder 3: Banc Mss 79/112c Hardin B. Jones Committees, Speeches, Reprints, Papers. Carton 5
- Folder 4: Banc Mss 79/112c Hardin B. Jones Correspondence and Papers. Boxes 3, 6, 7 and 9
- Folder 5: Banc Mss 79/112c Hardin B. Jones Correspondence and Papers. Boxes 10, 11, 12, 13, 14 and 15
- Folder 6: Banc Mss 80/80c Robert S. Stone Papers
- Folder 7: Banc Mss 80/81c Kenneth Scott Papers
- Folder 8: Banc Mss 87/86c John Hundale Lawrence Writings.  
Carton 1
- Folder 9: Banc Mss 87/86c John Hundale Lawrence Writings.  
Carton 2
- Folder 10: Banc Mss 87/86c John Hundale Lawrence Correspondence. Carton 4
- Folder 11: Banc Mss 87/86c John Hundale Lawrence Correspondence. Carton 5
- Folder 12: Banc Mss 87/86c John Hundale Lawrence Correspondence. Carton 6
- Folder 13: Banc Mss 87/86c John Hundale Lawrence Correspondence. Carton 7
- Folder 14: Banc Mss 87/86c John Hundale Lawrence Correspondence. Carton 8
- Folder 15: Banc Mss 87/86c John Hundale Lawrence Subject Files. Carton 9
- Folder 16: Banc Mss 87/86c John H. Lawrence Subject Files. Box 1
- Folder 17: Banc Mss 87/108c John W. Gofman Papers
- Folder 18: Banc Mss 88/22c William E. Siri 1963 American Mt. Everest Expedition Files
- Folder 19: Oral History - William Siri, 1987. Interview conducted by Sally Smith Hughes.

### Box 5:

Photocopies of the Ernest O. Lawrence Papers microfilm which is located at the following institutions: **Lawrence Berkeley Laboratory, the Bancroft Library, and Centers Information Coordination, Las Vegas, NV.** Documents photocopied after September 30 1994 are from the following locations: **Lawrence Berkeley Laboratory and Lawrence Berkeley Laboratory Public Information Office;** Albert Behnke Papers, photocopied from the **Hoover Institute, Stanford University;** Radioisotope Conference, 1954 materials photocopied from the **Technical Information Department at Lawrence Livermore National Laboratory;** R Stone Papers from Herbert M. Parker Papers at the **University of Washington.**

- Folder 1: EOL- Actinium
- Folder 2: EOL- Paul C. Aebersold
- Folder 3: EOL- Air Force, Dept. of
- Folder 4: EOL- American Cynamid Co.
- Folder 5: EOL- Army, Dept. of
- Folder 6: EOL- Astatine (EKA-Iodine)
- Folder 7: EOL- Atom Bomb

### 37. Further Additional Comments

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Box 5:

Folder 8: EOL- AEC Organization  
Folder 9: EOL- AEC Reports  
Folder 10: EOL- Barium  
Folder 11: EOL- Beryllium  
Folder 12: EOL- Betatron  
**Folder 13: EOL- Bikini**  
Folder 14: EOL- Biog.  
Folder 15: EOL- Bromide Ion and Chloride Ion  
Folder 16: EOL- Brookhaven, General  
Folder 17: EOL- Calcium  
Folder 18: EOL- CA. State Department of Public Health  
Folder 19: EOL- Cancer Research, Misc.  
Folder 20: EOL- Carbon 14  
Folder 21: EOL- Coagulant Studies  
Folder 22: EOL- Conferences  
Folder 23: EOL- Donald Cooksey- Diary of Events 1940-1949  
Folder 24: EOL- Course Descriptions  
Folder 25: EOL- 60" Cyclotron  
Folder 26: EOL- Element Naming  
Folder 27: EOL- Employee Health Hazards, Insurance, Accidents  
Folder 28: EOL- Fallout  
Folder 29: EOL- Gofman, John, Biog.  
Folder 30: EOL- David Greenberg  
Folder 31: EOL- Heavy Ion  
Folder 32: EOL- Human Use  
Folder 33: EOL- Hunter's Point Radiation Lab  
\*Folder 34: EOL- Knolls Atomic Power Lab  
Folder 35: JHL Biog.  
Folder 36: EOL- Loyalty Oath  
**Folder 37: EOL- Marshall Islands**  
Folder 38: EOL- Medical Physics Division  
Folder 39: EOL- National Defense Research Committee (NDRC), General  
Folder 40: EOL- Naval Radiological Defense Lab  
Folder 41: EOL- NEPA  
Folder 42: EOL- Neutron Ray  
Folder 43: EOL- Non-UC Cyclotrons  
**Folder 44: EOL- Operation Crossroads**  
Folder 45: EOL- Organic and Biochemical Group (Melvin Calvin)  
Folder 46: EOL- Personnel- Crocker Radiation Lab  
Folder 47: EOL- Personnel- Hamilton Group  
Folder 48: EOL- Plutonium, Fission Products Studies  
Folder 49: EOL- Polonium  
Folder 50: EOL- Potassium  
Folder 51: EOL- Project 48-A  
Folder 52: EOL- Protactinium  
Folder 53: EOL- Publications and Bibliographies of Hamilton, et al.  
Folder 54: EOL- Radiation Lab, History  
Folder 55: EOL- NIH Radiation Safety  
Folder 56: EOL- Radioarsenic  
Folder 57: EOL- Radioflourine  
Folder 58: EOL- Radioiodine Studies  
Folder 59: EOL- Radioiron  
Folder 60: EOL- Radiophosphorous  
Folder 61: EOL- Radiosodium  
Folder 62: EOL- Rare Earth  
Folder 63: EOL- Reports, Hamilton, et al.  
Folder 64: EOL- Strontium  
Folder 65: EOL- Thorium  
\*Folder 66: EOL- Tritium

## 38. Further Additional Comments

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Box 5 Cont'd:

Folder 67: UC Isotope Authority

\*Folder 68: EOL- VA

Folder 69: EOL- Yttrium

Folder 70: EOL- Zirconium

Folder 71: LBL 434 90 0209 R & D Administrative Files of Administrative Assistants to Directors of Biomed Division and Donner Lab

Folder 72: LBL- Siri #434 91 0131- K40 Body Comp Public Health Study

Folder 72: LBL- Siri #434 91 0131

Folder 73: LBL Copies Copied During Phase II For Response to DOE Washington

Folder 74: LBL Copies Copied During Phase II For Response to DOE Washington

Folder 75: Materials Collected from LBL Public Information Office

Folder 76: Hoover- MSS 93006-28-03 Albert Behnke Papers

Folder 77: "Volume I: Medical and Physiological Applications, Radioisotope Conference, 1954"

Folder 78: Stone, (Robert S.) [Herbert M. Paker Papers; University of Washington] [1942-1946]

Box 6:

Photocopies of Significant Documents from:

### **University Archives**

### **University of California at Berkeley**

1. University Archives CU 1.8, California University Regents, Contracts, Carton 11, Folders 11.6, 11.11, 11.14, 11.15
2. University Archives CU 1.8, California University Regents, Contracts, Carton 11, : Folder 11.25, N7-onr-295
3. University Archives CU 1.8, California University Regents, Contracts, Carton 11, : Folder 11.27, N7-onr-295
4. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.2, AEC general 1947-1949
5. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.3, AEC general 1950-51
6. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.4, AEC 1952
7. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.5, AEC 1947-1948
8. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.14, W-7405-eng-48
9. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.15, W-7405-eng-48 Budget Request
10. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.20, Eng-48 1943
11. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.22, Eng-48 Jul.-Dec. 1944
12. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.24, Eng-48 Jul.-Dec. 1945
13. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.25, Eng-48 Jan.-Jun. 1946
14. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.26, Eng-48 Jul.-Dec. 1946
15. University Archives CU 1.8, California University Regents, Contracts, Carton 12, Folder 12.29, Eng-48 Jan.-Jun. 1948
16. University Archives CU 1.8, California University Regents, Contracts, Carton 13, Folder 13.3, W7405-eng-48
17. University Archives CU 1.8, California University Regents, Contracts, Carton 13, Folder 13.26, OSRD
18. University Archives CU 1.8, California University Regents, Contracts, Carton 14, Folder 14.1, GEN-12 1947
19. University Archives CU 1.8, California University Regents, Contracts, Carton 14, Folder 14.3, GEN-12 1949
20. University Archives CU 1.8, California University Regents, Contracts, Carton 14, Folder 14.5, GEN-12 1951
21. University Archives CU 1.8, California University Regents, Contracts, Carton 14, Folder 14.6, GEN-12 1952
22. University Archives CU 1.8, California University Regents, Contracts, Carton 14, Folder 14.7, GEN-12 1953-54
23. University Archives CU 1.8, California University Regents, Contracts, Carton 61, Folder 855-20-1, 1957
24. University Archives CU-5, California University President, Correspondence and Papers, Carton 740, Folder 13
25. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 763, Folder 13
26. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 835, Folder 13 #2
27. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 835, Folder 13 Finance & Bus. Mgmt. #2
28. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 507, Folder 112 Langley Porter
29. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 536, Folder 112
30. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 722, Folder 112
31. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 799, Folder 112
32. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 1180a, Folder 112 Langley Porter Clinic
33. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 649, Folder 121
34. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 699, Folder 140 #1 Cancer
35. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 699, Folder 140 #2 Cancer
36. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 722, Folder 140 Cancer Funds
37. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 745, Folder 140
38. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 745, Folder 140-B
39. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 745, Folder 140-K Cancer
40. Univ. Archives CU-5, CA. Univ. President, Corresp. & Papers, Carton 745, Carton 140-L Cancer

### 39. Further Additional Comments

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41. Univ. Archives CU-5, CA Univ. President, Corresp. & Papers, Carton 745, Folder 140-S Cancer
42. Univ. Archives CU-5, CA Univ. President, Corresp. & Papers, Carton 745, Folder 140-Reports Cancer
43. Univ. Archives CU-5, CA Univ. President, Corresp. & Papers, Carton 770, Folder 140 Cancer Research
44. Univ. Archives CU-5, CA Univ. President, Corresp. & Papers, Carton 840, Folder 140 #2 Cancer Research
45. Univ. Archives CU-5, CA Univ. President, Corresp. & Papers, Carton 864, Folder 140 A-F 1954
46. Univ. Archives CU-5, CA Univ. President, Corresp. & Papers, Carton 864, Folder 140 L-P 1954
47. Univ. Archives CU-5, CA Univ. President, Corresp. & Papers, Carton 864, Folder 140 R-T
48. Univ. Archives CU-5, CA Univ. President, Corresp. & Papers, Carton 864, Folder 140 1954
49. Univ. Archives CU-5, CA Univ. President, Corresp. & Papers, Carton 887, Folder 140 B, P, R-S
50. Univ. Archives CU-5, CA Univ. President, Corresp. & Papers, Carton 887, Folder 140 #4 Cancer Research
51. Univ. Archives CU-5, CA Univ. President, Corresp. & Papers, Carton 888, Folder 140- Reports
52. Univ. Archives CU-5, CA Univ. President, Corresp. & Papers, Carton 915, Folder 140 C, Ctee, F, Rpts.
53. Univ. Archives CU-5, CA Univ. President, Corresp. & Papers, Carton 1128, Folder 140 Rpts.
54. Univ. Archives CU-5, CA Univ. Pres., Corresp. & Papers, Carton 1169, Folder Cancer Project-SF Dormant Special Problem
55. Univ. Archives CU-5, CA Univ. President, Corresp. & Papers, Carton [not noted], Folder 140 L-Z 1948
56. Univ. Archives CU-5, CA Univ. President, Corresp. & Papers, Carton 749, Folder 360-Berkeley
57. Univ. Archives CU-5, CA Univ. President, Corresp. & Papers, Carton 775, Folder 360-Berkeley
58. Univ. Archives CU-5, CA Univ. President, Corresp. & Papers, Carton 844, Folder 360-Berk
59. Univ. Archives CU-5, CA Univ. President, Corresp. & Papers, Carton 867, Folder 360
60. Univ. Archives CU-5, CA Univ. Pres., Corresp. & Papers, Carton 867, unbound Annual Report of the Univ. Physician 1952-53
61. Univ. Archives CU-5, CA Univ. President, Corresp. & Papers, Carton 892, Folder 360-Rpts.

Photocopies of Significant Documents from:

**University Archives**

**University of California at Berkeley**

**Box 7**

1. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 496, Folder 415 #2
2. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 685, Folder 419
3. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 807, Folder 419
4. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 846, Folder 419
5. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 870, Folder 419
6. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 752, Folder 420 psych
7. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 826, Folder 420
8. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 895, Folder 420
9. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 1149, Folders 419, 420
10. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 706, Folders 419, 420, 421
11. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 728, Folders 419, 420, 421
12. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 752, Folder 425
13. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 870, Folder 425
14. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 686, Folder 435, 1946 (Research Board)
15. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 728, Folder 735, 1948 (Research Board)
16. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 807, Folder 435, 1951 (Research Board)
17. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 870, Folder 435, 1954
18. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 896, Folder 435 N.R. 1955 (Research Board)
19. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 605, Folder 436 #2
20. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 484, Folder 483-Medicine
21. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 484, Folder 483-H
22. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 708, Folder 484-folder 1
23. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 755, Folder 483-H
24. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 810, Folder 483-H #1
25. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 871, Folder 483
26. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 871, Folder 483-H #1
27. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 871, Folder 483-H #2
28. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 871, Folder 483-Medicine
29. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 897, Folder 483-H #1
30. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 897, Folder 483-H #2
31. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 897, Folder 483-Medicine
32. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 897, Folder 483-Obstetrics/Gynecology
33. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 926, Folder 483-MED
34. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 1182, Bound Folder "Special Problem: Relationship of Medical School & Division of Medical Physics"

-40. Further Additional Comments

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Box 7 Cont'd

35. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 758, Folder 644
36. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 758, Folder 644-B
37. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 829, Folder 644-B #2
38. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 829, Folder 644-L
39. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 830, Folder 644-M
40. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 851, Folder 644-A
41. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 852, Folder 644-H
42. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 852, Folder 644-J
43. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 852, Folder 644-M #1
44. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 852, Folder 644-N
45. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 852, Folder 644-R
46. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 852, Folder 644-W #1
47. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 874, Folder 644
48. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 874, Folder 644-A
49. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 874, Folder 644-B #1
50. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 874, Folder 644-B #2
51. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 875, Folder 644-N
52. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 875, Folder 644-S #1
53. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 875, Folder 644-T
54. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 875, Folder 644-W #1
55. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 875, Folder 644-W #2
56. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 899, Folder 644
57. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 900, Folder 644-L
58. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 900, Folder 644-M
59. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 900, Folder 644-S #2
60. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 929, Folder 644-B #1
61. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 711, Folder 650
62. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 733, Folders 650 #1 & 650 Contracts #1
63. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 788, Folder 650 Contracts #1
64. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 813, Folders 650, 650 Contracts #1 & 650 Contracts #2
65. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 830, Folder 650 Contracts
66. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 852, Folder 650 Contracts #1
67. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 901, Folder 650 & 650 Contracts #2
68. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 759, Folder 713
69. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 667, Folder 748 #1
70. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 691, Folder 748
71. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 713, Folders 748 #2 & 748 #4
72. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 735, Folder 748 #1
73. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 736, Folder 748-L
74. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 760, Folder 748-L
75. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 791, Folder 748-L
76. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 817, Folder 748 #2
77. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 818, Folder 748-P #1
78. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 855, Folder 748-1953
79. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 879, Folder 748-P
80. Univ. Archives CU-5, CA Univ. President, Corres. & Papers, Carton 933, Folder 748-A
81. Univ. Archives 301, CA Univ. President, Personal Papers, Carton 11
82. University Archives CU-301, California University President, Personal Papers, Carton 39

Box 8

**Phase II - UCLA Photocopies**

1. Box 4 - 255; Admin. Files of Jeanne Williams
  2. Box 5 - 255; Admin. Files of Jeanne Williams
  3. Box 10 - 255; Admin. Files of Jeanne Williams
  4. Box 25 - 300.500; UCLA Administrative Files - S. Warren Atomic Bomb & Atomic Energy, 1949
  5. Box 27 - Series 300, Subseries 500; Admin. Files/Stafford Warren -Atomic Energy Commission (AEC) Gen'l.; 1940-56
  6. Box 28 - 300.500; Admin./Stafford Warren - AEC Gen'l. - 1952
  7. Box 29 - 300.500; UCLA Admin. Files - S. Warren AEC-General;
- 7/54 - 56

#### 41. Further Additional Comments

Page 10

8. Box 29 - 300.500; UCLA Administrative Files - S. Warren AEC General; 7/54 - 56
9. Box 31 - 300.600; UCLA Administrative Files - S. Warren AEC Project - UCLA; 11/51 - 52
10. Box 32 - 300.600; UCLA Admin. Files - S. Warren AEC Project -UCLA - General; Jan.-July 1957
11. Box 32 - 300.600; UCLA Admin. Files - S. Warren AEC Project -UCLA - General; Aug.-Dec. 1957
12. Box 32 - 300.600; UCLA Admin. Files - S. Warren AEC Project - UCLA - General; Aug.-Dec. 1957
13. Box 32 - 300.600; UCLA Admin. - S. Warren - AEC Project - UCLA - General - School of Medicine Reports; 1957
14. Box 32 - 300.600 - UCLA Admin. Files - S. Warren - AEC Project -UCLA - General - School of Medicine Reports; 1959
15. Box 33 - 300.600; UCLA Admin. Files - S. Warren - AEC Project -UCLA - General; Jan.-Mar. 1958
16. Box 33 - 300.600; UCLA Admin. Files - S. Warren AEC Project - UCLA - General; Apr.-June 1958
17. Box 33 - 300.600; UCLA Admin. Files - S. Warren - AEC Project -UCLA - General; July-Dec. 1958
18. Box 33 - 300.600; UCLA Admin. Files - S. Warren - AEC Project -UCLA - General; July-Dec. 1958
19. Box 34 - 300.600; Admin./Stafford Warren - AEC UCLA Gen'l.; 1947-60
20. Box 35 - 300.600; Admin. Files/Stafford Warren - AEC UCLA Gen'l.; 1947-66
21. Box 59 - 401; Admin. Subject Files of Franklin Murphy
22. Box 64 - 300-1800; Admin. Files of Stafford Warren
23. Box 65 - 300-1800; Admin. Files of Stafford Warren
24. Box 66 - 300-1800; Admin. Files of Stafford Warren
25. Box 67 - 300-1800; Admin. Files of Stafford Warren
26. Box 68 - 300-1800-2; Admin. Files of Stafford Warren
27. Box 71 - 300-1800-2; Admin. Files of Stafford Warren
28. Box 73 - 300-1900; Admin. Files of Stafford Warren
29. Box 73 - 401; Admin. Subject Files of Franklin Murphy
30. Box 76 - 300-2400; Admin. Files of Stafford Warren
31. Box 77 - 300-2600; Admin. Files of Stafford Warren
32. Box 78 - 300-2600; Admin. Files of Stafford Warren
33. Box 82 - 300-2600; Admin. Files of Stafford Warren
34. Box 83 - 300-2600; Admin. Files of Stafford Warren
35. Box 86 - 300-3000; Admin. Files of Stafford Warren
36. Box 87 - 300-3000; Admin. Files of Stafford Warren
37. Box 88 - 300.3000; Admin. Files/Stafford Warren U.S. Gov't.; 1945-63
38. Box 88 - 300.3000; Admin. Files of Stafford Warren U.S. Gov't.;1945-63/V.A. 1950
39. Box 89 - 300-3000.5; Admin. Files of Stafford Warren
40. Box 96 - 300-2100; Admin. Files of Stafford Warren
41. Box 97 - 300- ; Admin. Files of Stafford Warren
42. Box 98 - 300- ; Admin. Files of Stafford Warren
43. Box 98 - 401; Admin. Subject Files of Franklin Murphy
44. Box 98 - Collection #987; UCLA - Warren, Stafford Personal Papers
45. Box 99 - Collection #987; UCLA - Warren, Stafford Personal Papers
46. Box 102 - Collection #987; UCLA - Warren, Stafford Personal Papers
47. Box 103 - Collection #987; UCLA - Warren, Stafford Personal Papers
48. Box 105 - Collection #987; UCLA - Warren, Stafford Personal Papers
49. Box 132 - 300- ; Admin. Files of Stafford Warren
50. Box 134 - 300- ; Admin. Files of Stafford Warren
51. Box 135 - 300-2100-6; Admin. Files of Stafford Warren
52. Box 147 - 300-2100-6; Admin. Files of Stafford Warren
53. Box 148 - 200-2100 -; Admin. Files of Stafford Warren
54. Box 158 - 300-2100-6; Admin. Files of Stafford Warren
55. Box 159 - 300-2100-6; Admin. Files of Stafford Warren
56. Box 163 - 300-3100-1; Admin. Files of Stafford Warren
57. Box 179 - 300-3100-2; Admin. Files of Stafford Warren
58. Box 260 - Collection #987; UCLA - Warren, Stafford Personal Papers
59. Box 283 - Collection #987; UCLA - Warren, Stafford Personal Papers

#### 46 Hot Documents for the Internet (Hollanger Box)

1. Hot Docs - for Internet

# RECORDS TRANSMITTAL

DEPARTMENT / DIVISION		BLDG	RM.	RECORDS MANAGEMENT USE ONLY	
Biology & Medicine		Donner	466	FILE UNIT CODE	DATE
SECTION-GROUP-PROJECT		EXT.		ERDA MANUAL REF	LBL SCHEDULE REF
Administration Office		5206		CRS 16.5.b	
PERSON TO CONTACT		EXT.		1324.2	CUBIC FEET
Lori Ryan		4910			6
DEPARTMENT HEAD OR DESIGNEE (Signature Required)		DATE		RMA BLDG LOCATION/INCLUSIVE SHELF SPACES	
Igor Blake, Division Administrator		6/24/87		BLDG 50A SEAT No's	
				TRANSFERRED TO DATE below	
				RETENTION PERIOD	REVIEW YEAR
				* 15 yrs	1996 2001

TITLE OF RECORDS OR FILE UNIT	INCLUSIVE DATES
	1976 - 1986
ARRANGEMENT OF RECORDS	CLASSIFICATION
	<input checked="" type="checkbox"/> UNCL. <input type="checkbox"/> CLASS.

BRIEF DESCRIPTION OF RECORDS

Travel and general office files from Biology & Medicine Division Office.

\* Some of these files are permanent but the collection should be carefully weeded in 5 yrs

NO.	INCLUSIVE CONTENTS	SEAT LOCATION	NO.	INCLUSIVE CONTENTS	SEAT LOCATION
Box 1	"Director's Prog. Dev. Fund. 1982 to "A to Z Correspondence (see attached)	4342 ✓	Box 5	Alphabetized correspondence including "Accelerator Project Exec. Comm." to "Telexes Sent" (see attached)	4346 ✓
Box 2	"Dr. Alpen's Correspondence Chron 1/81-5/86" to "Heavy Ion Workshop/Paris 5/18-21/84" (see attached)	4343 ✓	Box 6	"Miscellaneous Alpen/Hayes correspondence, A to Z" to "LBL Management Institute Proceedings - 1984 (see attached)	4347 ✓
Box 3	"Human Affairs Commission 12/8-9/83 to Int'l Conf. on Liquid Scintillation, SF 8/2-24/79" (see attached)	4344 ✓			
Box 4	"Alphabetical A-Z Alpen" to "Potchen Committee Visit 12/16-17/75" (see attached)	4345 ✓			

THE ABOVE RECORDS WERE RECEIVED AND ARE AVAILABLE FOR REFERENCE  
SEE REVERSE SIDE FOR DISPOSAL CERTIFICATE  
XRG-627

*Dorothy Tuley* 6/29/87  
 (Signature of Records Center Head or Designee) (Date)

Box 1

Receipt # 2

Director's Prog. Dev. Fund - 1982 ✓  
Director's Prog. Dev. Funds - 1978 ✓  
" " " " - 1977 ✓  
" " " " - 1979 ✓  
" " " " - 1980 ✓  
" " " " - Progress Rpts. on FY79\$ ✓  
" " " " - 1983-85 ✓

Institutional Plan 1980 ✓  
Equipment Committee FY80-81 ✓  
Donner Foundation 1976-79 ✓  
TRIPS: P. SILVERMAN: M  
UCLA Biotech Steering Comm. 11-7-86 ✓  
DOE/Germantown 10/86 ✓  
Bozeman 10/86 ✓  
Albany, NY 9/86 ✓  
Correspondence Chron 1982 ✓

Dr. Hayes' Correspondence 1981 ✓

Dr. Hayes' Correspondence December 1980 ✓

DAC Committee ✓

EEOC Committee ✓

Equipment Committee M

Laboratory staff committee ✓

Reprints - Dr. Hayes ✓

Dr. Hayes - Student Recommendations ✓

Group Representatives - Space Planning ✓

Dr. Hayes - Travel Taken ✓

Correspondence Chron 1983 ✓

Dr. Hayes/Chicago 9/21/82 Argonne ✓

Dr. Hayes/Berkeley 7/19-21/83 Med. Accel. Meeting ✓

EMSA Meeting 8/13-20/83 Phoenix, AZ ✓

Dr. Hayes/Phoenix EMSA Meeting 4/6-8/83 ✓

OHER Prog. Dir. Meeting Portland, NV August 3-4, 1983 ✓

DOE, OHER Task Force Meeting 4/20-24/82 ✓

Dr. Hayes/Washington OHER Meeting 1/27-28/83 ✓

Dr. Hayes/Washington D.C. 6/28-7/1/83 ✓

OFAI - MEETING 6/13/82

Dr. Hayes/Washington 9/1-3/82 DOE ✓

Washington, D.C. 5/23-24/82 ✓

DOE Visit, Washington, DC 10/27-28/81 ✓

OHER Prog. Dir. Meeting Brookhaven N.L. 4/28-29/83 ✓

Dr. Bennye Henderson Berkeley 8/7-11/83 from Jackson St.U ✓

Tenforde/Boston 9/6-7/83 ERAB/MIT Meeting ✓

Tenforde/Princeton, NJ 6/9-11/83 ✓

Tenforde/Boulder, CO BEMS Meeting 6/12-17/83 ✓

Tenforde/Chicago 11/2-3/82 ✓

Tenforde/Boulder, CO 2/23-24/83 BEMS Meeting ✓

Tenforde Palo Alto 8.8-10/83 EPRI Meeting ✓

Tenfore/Washington/Chicago 8/29-9/1/83 ✓

DOE/Washington Nov 18-19, 1982 White, M. ✓

A-Z Correspondence Files by TO: and RE: ✓

2

Box 2 - Recep #3

Dr. Alpen Correspondence Chron. May 86 to January 81 (several folders) ✓

NCRP Prog. Comm. Chicago O'hare 7/31/86 ✓

Gray Conf. London July 14-18, 1986 ✓

SAAC Los Alamos 5/27-30/86 ✓

OHER Prog. Directors May 7, 1986 Wahington, DC ✓

Dr. Alpen Las Vegas 4/14-17 ✓

NCRP LD-50 File annual meeting 4/1-3/86 ✓

NCRP Washington 3/31-4/5 ✓

JAPAN HIRS Heavy Particle Accel. March 6-7, 1986 ✓

WASH/DOE 1/20-21/86 ✓

SAAC LASL 11/21-22 ✓

NCRP Chicago 11/17-18

Las Vegas DAAG ✓  
10/23-26

OHER Prog Dir. Mtg. Ney York 10/16-17/85 ✓

Dr. Alpen San Diego 10/10/85 ✓

DOE Review Wash. DC Sept 23-26, 1985 ✓

LH Gray Conf Manchester, England ✓

NCRP Board of Directors Chicago August 27, 1985 ✓

NCRP PROG. Comm. Chicago Aug. 12 1985 ✓

DOE/NCI Washington DC 7/21-25 ✓

NCRP - Ad Hoc Group Mtg May 5, 1985 Los Angeles ✓

RAD. RES SOC MTG May 5-9, 1985 Los Angeles ✓

NCRP Board MTG. WASH DC April 2-3, 1985 ✓

NCRP 5/5/85 RAD RES SOC 5/5-9/85 Los Angeles ✓

Heavy Charged Particle Symposium May 1-3, 1985 Berkeley ✓

NEI SITE VISIT - CONFERENCE CITY ✓  
4/24 - 26/85

AFFRI 11/12 - 1985 - CONFERENCE ✓

DAAG Las Vegas Feb 21-22, 1985 ✓  
NCI FEB 14,1985 Bethesda, MD ✓  
NCRP Philadelphia, FEB 7-8 Chicago ✓  
DOE Site Visit Budinger,Chatterjee,Fabrikant Feb 5-6, 1985 ✓  
Jackson state U/ NCRP Meeting In Houst. Jacosn,MI 12/3-6/84 ✓  
INTL. Atomic Energy Agency Symp. Paris Nov 19-23, 1984 ✓  
AWU Education Research Comm Meeting Golden,CO 10/7-8/84 ✓  
Hayes/Merritt-Peralta Meeting Hyatt Regency Oakland 11/26-27/84 ✓  
Dr. Alpen/Washington 3/5-7/84 House Comm on SCI&TECH/ Headquarters ✓  
ABAEM Meeting/Venice,Italy Dr. Alpen/2/22-27/84 ✓  
AFFRI Meeting/Washington DC, June 11-12,1984 ✓  
AD HOC REV COMM CPHL june 6-8,1984 Fort Collins,CO Dr. Alpen ✓  
Seminar Nov. 9,1981 ✓  
Arms Control (livermore) 5/25-27/81 ✓  
Los Angeles BEMS Meeting June 28-July 2,1982 ✓  
CROS/RTOG Workshop FEB 8-12,1982 Houston Texas ✓  
DAAG Meeting/Las Vegas July 12-13,1984 ✓  
ALPEN/Las Vegas Daag Meeting 2/15-17/84 ✓  
DAAG Meeting/Las Vegas 10/19-21/83 ✓  
DAAG Meeting did not attend 12/2 & 3/81 ✓  
ALPEN/WASHINGTON DOE 11/20-21/83 ✓  
DOSE ASSESSMENT Meeting 5/5-7/82 Las Vegas ✓  
DOSE assesment Meeting 7/21-23/81 ✓  
Heavy Ion Workshop/ Paris 5/18-21/84 ✓

3

BOX 3 Recep #5

Human Affairs Commission 12/8-9/83 Alpen/New York

Inter. Union of Radio Science - XXth Assembly Wash. DC 8/10-19-/81 (Not Going)

Lawrence Fermi Award Ceremony 5/7-10/84 Washington, DC ✓

Los Alamos - Dr. Dicello Feb. 26-27, 1981 ✓

Haven, PA Oct 21-26, 1984 Cancelled ✓

Morehouse School of Medicine Atlanta, GA Aug 27-29, 1984 ✓

NCRP BOD Meeting Chicago, 7/16/84 ✓

NCRP Nominating Comm. Meeting 2.14/84 Orlando Florida ✓

ALPEN/Berk 2/10-12/82 DOE ✓

Hirro Rehearsal Visit 11/13-12/1/82 London/Berkeley ✓

NCRP\$M Meeting Victoria BC 7/27-28/82 ✓

NCRP Visitors June 1-3, 1982 Fac. Club ✓

NCRP&M-SC53 Meeting 4/15-16/82 Kansas City, MO

Annual 1982 NCRP Meeting - April 5-7, 1982

NCRP&M OCT 1-2.1981 ✓

NCRP&M 4/8-9/81 ✓

NCRP Meeting - Feb 18-19, 1982 ✓

NCRP Meeting Atlanta 2/6/81 Nominating-Election Procedures ✓

ALPEN/Germany Microdosimetry Meeting 9/27-10/1/82 ✓

ALPEN/ Oak Ridge NTL. Lab/Tenn. 11/2-4/83 ✓

OHER Prog. Dir. MTG. Alken, SC Oct 23-24, 1984 ✓

OHER Prog. Dir. MTg. March 8-9, 1982

Middlesex Hosp. ENGLAND 8/18-30/81 /

Roger Schneider Visit - Sept. 5 1979 ✓

AS of RT oct. 23 -27 1979 did not attend ✓

State of the Lab Speech, November 1979 ✓

Minilesion Workshop - Nov. 8, 1979 ✓  
Executive Seminar, S. Houston 11/27/79 ✓  
Sinclair's ad hoc panel Jan 8 1980, Washington, DC ✓  
Oxidants workshop Jan 28-30 ✓  
Site Visit (lindren) Feb 1, 1980 ✓  
FCRI Beard Mtg. Feb 8 1980 ✓  
Amer. Physio. soc. Fin. Dev. Comm. Anaheim April 16, 1980 ✓  
Los Alamos research committee Nick Matwiyoff ✓  
"How Malignancy spreads: Metaastasis/invasion" 10/1/80 ✓  
UCSF - School of pharmacy lectures October 27-28, 1980 ✓  
RDRC - 10/29/80 ✓  
PAC meeting 11/13-14/80 ✓  
SAC Meeting on LLL/LBL Los Alamos 11/19-21/80 ✓  
Bevalac Review Agenda - 12/2-4/80 ✓  
Amer. Soc. of Hematology (blood) ✓  
APS Financial Development Committee ✓  
Bioelectromagnetic society 1980 ✓  
BEMS Numinations ✓  
NIH Scientific review group ✓  
Study Section Reviews NIH ✓  
Misc. Papers ✓  
Pres. Sci. Adv. Comm. 10/5-7/81 ✓  
32nd Annual Rad. Res. Soc. Mtg. Orlando Florida 3/25-29/84 ✓  
Rad. Res. Inst. DOE OHER 5/30-6/9/81 ✓  
SAAC Meeting/Los Alamos/NM 9/20 ✓  
ALPEN/SACC Meeting/ Livermore 6/28-29/84 ✓  
SAAC Meeting/ Los Alamos 1/13-2/4/84 ✓

Alpen Sabbatical London 8/82-8/83 ✓  
SAAC Meeting/Livermore 11/10-11/83 ✓  
SAAC Meeting Los Alamos 11/28-29/83 ✓  
ALpen/SAAC Meeting/ Los Alamos Mtl.L. 9/8-9/83 ✓  
SAAC at livermore mtl. lab 7/8-9/82 ✓  
Scientific advisory Comm 4/14-15/81 ✓  
SAC Meeting Los Alamos 4/29-30/82 Cancelled ✓  
LLNL SCI. ACAD. ADV. COMM. 2/25-26/82 ✓  
NCRP meeting/Washington DC Cancelled ✓  
1/13-16/82- SAC Meetin- Las Vegas ✓  
Sci Adv. Comm. Meeting 11/11-13/81 ✓  
Sci. Adv. Comm. 2/24-25/81 ✓  
Alpen/ San Juan 7/1-8/84 ✓  
UCSF Grand Rounds Meeting 12/3/81 ✓  
Alpen/ Washington 6/19-20/84 *out-land* ✓  
Cat Scanner Review - Feb 20, 1978 ✓  
Relativistic heavy Ion Research Symp. Germany March 7-11, 1978 ✓  
London/Hague Sept. 9-16, 1978 ✓  
NCRP and Hanford Symp. Oct 13-18, 1978 ✓  
NCI Site Visit oct 25-26/1978 ✓  
SEAC Nov. 9-10, 1978 ✓  
Visit of Chinese Delegation of Science and Technology to LBL - NOV 10, 1978 ✓  
UCLA Med. & Society Forum Jan 25, 1979 ✓  
Ad Hoc EV Interlab Adv. Panel Jan 11-12, 1979 Washington ✓  
~~UCLA Med & Society Form~~ Jan 25, 1979 ✓  
EPA Meeting - Washington, D.C. March 8, 1979 ✓  
Invited Participants - Peralta Symp. April 5-7, 1979 ✓

UC Santa Cruz - April 9, 1979 ✓

Cell Transform/Metstasis/invasion lecture april 11, 1979 ✓

Bio-Med Review, May 1-2, 1979 ✓

Sci. Adv. Com. Livermore May 16-18, 1979 ✓

John Deutch Visit, June 6, 1979 ✓

Bioelectromagnetics Society Meeting, June 16-22, 1979 ✓

NCRP SC#53 - July 18-20, 1979 Berkeley ✓

Radiation Workshop July 19, 1979 Postponed ✓

NCI Site Visit July 31- August 1, 1979 ✓

EPA Site visit - August 3, 1979 ✓

Visit by Sadoff - August 7-8, 1979 ✓

Int'l Conf on Liquid Scintillation counting - SF Aug 21-24, 1979 ✓

*Am. Society of Therapeutic Rad - New Orleans Oct 23-27, 1979*

*NCCP Board Mtg - Nov. 27, 1979*

*NASA (H. Julian Allen Awards*

*Proceedings of the IEEE*

*Ohio Nuclear - Dec. 8, 1978*

Box 4 [RECEP] #8

4

Contains Alphabetical A-Z sorted Letters, etc., of Dr. Alpen ✓

Dooner Staff Memos - 1978 & Prior ✓

Bio-Med Staff Memos - 1977 and 1978 M ✓

Bio-Med Staff Memos - 1979 ✓

DOE 1977-1978 ✓

DOE 1979 ✓

Lead Laboratory Assignments ✓

Inquires 1978 & Prior ✓

Inquires - 1979 ✓

Potchen Committee Visit Dec 16-17 1975 ✓

Group Leaders (Memos to -)  
Report Review

Alphabetized Correspondence including:

- Accelerator Project Exec. Comm. ✓
- Alameda Superior Court U.C. Nuclear Weapons Lab, C. Schwartz et al ✓
- Alta Bates ✓
- Alberta Research Council ✓
- Am. Heart Assoc. - Alameda Co, ✓
- Annual report 1980-81 ✓
- Associate Directors ✓
- CA Inst for Medical Therapeutics ✓
- Cancer Research Magazine ✓
- Computer Policy Board ✓
- Currents LBL ✓
- DOE ✓
- DOEFY82 Fiscal Guidance ✓
- Director Exec. Comm. ✓
- Division Adv. Comm. ✓
- Graduate Group in Biophysics & Medphy ✓
- Heller Paper ✓
- Human Use Comm. , LBL ✓
- Laboratory Staff Comm. ✓
- Medical Accelerator Mgt. ✓
- NCI Site Visit ✓
- OFCCP Review ✓
- (Peralta Cancer Re. Inst.) ✓
- Program Advisory Comm. Biomed ✓
- Radiation Therapy ✓
- Radioactive Drug Research Committee ✓

Letters of Recommendation ✓

Reviews of papers for publication ✓

TELEX SENT ✓

6

Miscellaneous ALPEN/HAYES correspondence - "A" to "Z"  
Jackson State University ✓  
Italy-U.S. Post-Doc Agreement - '84 ✓  
Int'l Congress of Genetics 12/83 New Delhi, India ✓  
Human Affairs Commission 1984 ✓  
DOE correspondence (Misc) - 1985-86 ✓  
DAC background, agendas 1983-86 ✓  
Rick Wall correspondence - 1984 ✓  
CIRRPC - 1985 ✓  
Biomedical Res. Support Grant 1984 ✓  
UCB/UCSF Joint Graduate Group ✓  
ABRA Director's Review 1984-85 ✓  
5-year plans (1985) ✓  
Radiation Incidents - 1984-85 ✓  
Bio-Med Staff Committee 1985 ✓  
Bio-Med Safety " 1985 ✓  
SAN appraisals 1984-85 ✓  
RABD Site Visit 7/84 ✓  
Quality Assurance Task Force 1983 ✓  
OHER overview - 1984 ✓  
OHER overview - 1983 ✓  
DOE review - 1985 (OHER) ✓  
OHER - Chatterjee site visit 2/86 ✓  
OHER program directors' meeting - LBL 2/86 ✓  
OHER Program Review - Rad & Exper An. 1985 ✓  
LBL Management Institute Proceedings - 1984 ✓

*Annual Review 1979 (Add)*

**UNITED STATES DEPARTMENT OF ENERGY  
HUMAN EXPERIMENT INVENTORY FORM**

DESTROYED (EXPLAIN IN ITEM 27)

<b>1. NAME OF FACILITY</b> University of California Lawrence Berkeley Laboratory 1 Cyclotron Road Berkeley, California 94720		<b>2. RESPONSIBLE OFFICE</b> Archives and Records Office Building 69-107	
<b>3. CONTACT NAME</b> Loretta L. Hefner		<b>4. CONTACT TELEPHONE</b> 510-486-5525 [Telephone] 510-486-7200 [FAX]	
<b>5. SERIES TITLE</b> R & D Administrative Files of Dr. Edward L. Alpen		<b>6. INCLUSIVE DATES</b> 1976-1986	
<b>7. ACCESS RESTRICTIONS</b> <input checked="" type="checkbox"/> PRIVACY ACT <input type="checkbox"/> OTHER <input type="checkbox"/> COMPANY CONFIDENTIAL <input type="checkbox"/> SECRET <input type="checkbox"/> PROPRIETARY <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> UCNi <input type="checkbox"/> PD		<b>8. PERCENT CLASSIFIED</b> 0	<b>9. MEDIUM</b> <input checked="" type="checkbox"/> PAPER <input type="checkbox"/> ELECTRONIC <input type="checkbox"/> MICROFORM <input checked="" type="checkbox"/> OTHER Photographs, slides
<b>10. DESCRIPTION OF RECORDS</b> This series documents the administrative work of Dr. Edward L. Alpen as both Director of the Donner Laboratory, and Director of the Biology and Medicine Division. Included is documentation of Alpen's involvement in various professional activities and committees, and his participation in numerous professional conferences. Also represented are legal proceedings involving Dr. Alpen (Goodman vs. Regents, UC Nuclear Weapons Lab Conversion Project vs. Regents) and a chronicling of Dr. J.A. Linfoot's dismissal for insubordination. Records consist of correspondence, group progress reports, project proposals, drafts, papers, manuscript reviews, travel vouchers and arrangements, space planning, and requests for funding. Also present are correspondence and travel records for Dr. Thomas L. Hayes in his capacity as Acting Division Head of the Biology and Medicine Division, and Acting Director of the Donner Laboratory. Arrangement is loosely alphabetical for correspondence, though sometimes by year. Travel records are arranged by conference attended. Project proposals are by year. The series is also referred to simply as "Biology and Medicine Division. R & D Administrative Files." These are record copies.			
<b>11. SCHEDULED</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO        DOE/GRS SCHEDULE CITATION: Pending Schedule 19 10.b (1)			
<b>12. INFORMATIONAL ANALYSIS</b> Committee members are often listed by name, institution, title and address. Included is one piece of correspondence having to do with improper access to AVM patients for NMR studies. This lists patients by number. There are thorough descriptions of proposed projects in the Director's Fund files. Some records indicate that Alpen had knowledge of experimental work with radioactive elements. Included is a request to compile a list of experts to represent the Federal Government in the "Down winders" suit filed by cancer patients in Arizona and Utah. There is also background information on responses of different species to total body irradiation, and the value of LD50 in man.			
<b>13. INFORMATIONAL RANKING</b> <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3		<b>14. LOCATION OF RECORDS (FULL ADDRESS, BLDG NO., ROOM NO.)</b> National Archives, Federal Records Center 1000 Commodore Drive San Bruno, California 94066 Accession Number: 434-89-0070 <span style="float: right; font-family: cursive;">110-05-034</span>	
<b>15. TYPE OF RECORD</b> <input type="checkbox"/> PROGRAM <input type="checkbox"/> PERSONNEL <input type="checkbox"/> MEDICAL <input checked="" type="checkbox"/> OTHER		<b>16. ARRANGEMENT</b> Loose arrangement; some alphabetical, some chronologically by year, some by conference or project. See above for details.	<b>VOLUME CUBIC FEET</b> 6

IF SPECIFIC INFORMATION IS KNOWN REGARDING EXPERIMENTS OR RELEASES, PLEASE COMPLETE ITEMS 18-24

<b>18. CATEGORY (CHECK ALL THAT APPLY)</b> <input type="checkbox"/> EXPERIMENT <input type="checkbox"/> RADIATION <input type="checkbox"/> RELEASE <input type="checkbox"/> TOXIC CHEMICAL <input type="checkbox"/> CONTROLLED SUBSTANCE		National Archives, Federal Records Center 1000 Commodore Drive San Bruno, California 94066 Accession Number: 434-89-0070	
<b>19. TITLE OF EXPERIMENT(S)/RELEASE(S)</b>			
<b>20. PRINCIPAL INVESTIGATOR</b>		<b>21. INVESTIGATOR'S AFFILIATION</b>	
<b>22. DESCRIPTION</b>  Each of the 6 boxes in this series was inventoried.			
<b>23. DATE(S) OF EXPERIMENT(S)/RELEASE(S)</b>		<b>24. CONDUCTED BY</b>	
<b>25. LOCATION(S) OF EXPERIMENT(S)/RELEASE(S) (FACILITY, ORGANIZATION, CITY, STATE)</b>			
<b>26. CROSS REFERENCES (TO OTHER RECORDS; EXPERIMENTS)</b>			
<b>27.</b>		<b>Epidemiology Data Elements</b>	
Yes    No <i>(Please click on appropriate boxes)</i>		<input type="text" value="7, 8, 11, 12, 22"/>	
a.	<input checked="" type="checkbox"/> <input type="checkbox"/>	Does the record series have epidemiologic or health study value? If YES:	
b.	<input type="checkbox"/> <input checked="" type="checkbox"/>	Will the records series be needed at the LBL Emergency Command Center?	
c.	<input type="checkbox"/> <input checked="" type="checkbox"/>	Does the record series document legal rights & interests of the Laboratory, its employees, guests and patients?	
d.	<input type="checkbox"/> <input checked="" type="checkbox"/>	Does the record series relate to a Quality Assurance project?	
<b>28. PROVENANCE/RECORDS LIAISON OFFICER</b> Biology and Medicine Division		<b>29. TELEPHONE</b>	<b>30. MAILSTOP OF PROVENANCE</b>
<b>31. QA REVIEWER</b> Karen Holmes Lawrence Berkeley Laboratory Archives and Records Office		<b>32. TELEPHONE</b> 510-486-6475 [Telephone] 510-486-7200 [FAX]	<b>33. DATE OF REVIEW</b> 6/17/94

Week of 6/13 - 6/17

Accession # 434 89 0070

File Code: 16-5-34

6 of 6 boxes

Series Description on Transmittal Form: "R & D Administrative Files  
Biology and Medicine Division  
1976 - 1986"

This series is primarily composed of Dr. Edward L. Alpen's Administrative files. Alpen was the Director of the Biology and Medicine Division, and the Director of the Donner Laboratory during the time period covered in these records. It seems highly probable from these records that Dr. Alpen was well-informed on a number of studies using human experimentation.

Also present is the correspondence of Dr. Thomas L. Hayes. Hayes was the Acting Division Head of the Biology and Medicine Division, and the Acting Director of the Donner Laboratory during the time period covered in these records.

Many references to Dr. Cornelius Tobias and Dr. Patricia Durbin, and occasional mentions of Dr. Joseph Garcia.

Types of records: Correspondence (letters of recommendation, inquiries about LBL programs, committee-related, planning for sabbatical in England), editorial reviews, travel vouchers and arrangements, a court summons and complaint, space planning, paper reprints, Director's Discretionary Funds proposals (acceptances and rejections - including Alpen's comments and recommendations), conference agendas, requests for equipment etc.

Some records in this series were used as exhibits in suit of Dr. Joan Goodman against Dr. Alpen and the Regents of the University of California. She claimed they were in conspiracy with DOE Headquarters staff to reduce her funding.

## Items of Interest

Box 1: Director's Program Development Funds (late 70's - early 80's). Fairly thorough descriptions of (Senior Scientists'?) projects seeking funding. Alpen notes his recommendations to Dr. Shirley, Director of LBL at the time. Projects involved use of human cells, lipoproteins, etc., animal studies, ultra-low dose diagnostic X-rays among others.

In folder labeled: Director's Program Development Funds (Director's Funds) 1978 there is correspondence originating from Dr. Durbin requesting funds to publish previously "unpublished Crocker Laboratory wartime research." There is a list of 5 completely cited works which she wishes to include, all having to do with the Plutonium Project. In a letter to Dr. Sessler she states: "In view of the important decisions that must be made about nuclear power development and radioactive waste management, and of the high degree of public criticism and questioning of radiation protection standards, it seems wise to make the experimental methodology and the original data available for public scrutiny." {Photocopied these documents.}

In folder labeled: "C" there is a letter re: the sudden death of Dr. Joseph Garcia with the recommendation that Gisela Clemons be his replacement, "as she is familiar with all aspects of erythropoietin radioimmunoassay." Attached is a list of Outside Collaborators of J.F. Garcia's lab (with names, departments, addresses and phone numbers.)

Box 2: In folder labeled June/July/August (1986) there is a note from Alpen to Henry Stauffer, Chair, LBL Human Use Committee criticizing the fact that Drs. Budinger and Valk have been directly accessing Dr. Fabrikant's AVM patients for NMR studies rather than going through Dr. Fabrikant. There is a list of the Patient Numbers in question. {Photocopied this document.}

In folder labeled Chron File 1983, in a letter dated October 27, 1983, Alpen expresses concern about research on human subjects - "we have put severe constraints on the use

of laboratory staff as subjects. This is the only captive population of which I am aware."

In folder labeled January 1982 Chron File, in a letter dated January 27, 1982, Alpen asks for better tracking of radioisotope doses administered to research subjects.

In folder labeled Dr. Alpen Correspondence - January, in a letter dated January 14, 1981, Alpen responds to a Department of Justice request for a list of potential expert witnesses for the Irene H. Allen litigation. The requester is William G. Schaffer, Special Litigation Counsel. Schaffer includes a list of 26 cases which theoretically represent a cross section of the plaintiff population in the Allen litigation. This list includes the cancer contracted, the name, residence, date of death, age at death, date of diagnosis and occupation of those living "down wind" from Nevada test sites. Schaffer states: "Ultimately, of course, we may elect to downplay the clinical aspects of the cases or some of them, and concentrate on the radiobiological aspects." "... I want to leave no stone unturned in the full exploration and analysis of these cases."

In folder labeled NCRP Annual Mtg. - 4/1 - 3/86 Washington, (also sports a handwritten label: "NCRP LD - 50 file") in a note dated 2/14/86, Jim Buchanan says "Attached is from L.S. Taylor's 'Big Black Book'. It is the earliest reference I have to the legendary 'vote on the value of LD 50'." This refers to the gathering of "experts" in 1947 to determine the median lethal dose of radiation from atomic bombs necessary to immobilize troops. Attendees included James Cooney, G. Failla, Pendergrass, R.R. Newell, U.V. Portmann, L.S. Taylor and Shields Warren. Folder contains copies of papers on exposure criteria, response of different species to total body irradiation, etc. These seem to be in preparation for Alpen to write a speech for the NCRP Annual Meeting on such topics.

In a letter dated January 29, 1986, Lewis V. Spencer, Chmn, SC-63 of NCRP states to Alpen "I understand that you have been asked to chair a panel of NCRP for response to a formal request (Bensen, 10/3/85) to review the guidance presented in Home Office Publication 20/85. This request was addressed to SC-63; but while this committee has a direct concern I felt that it would be inappropriate for us to attempt it."

Box 3: Nothing especially "hot" noticed.

#### Box 4: Notes by Roberto Landazuri

Correspondence A-Z [alpha by correspondent] of Edward L. Alpen, Director, Donner Laboratory/Donner Pavilion. Approximate date range 1975-1979.



<- filing reference (correspondent/subject name) penciled-in here on most documents. Most items are originals; many incoming items are attached to Alpen's response.

Following A-Z files, some files on individual correspondents/subjects: DOE, Lead Laboratory Assignments, Inquiries, Potchen [DOE] Committee site visit, memos to group leaders, etc., but comprehensiveness of some of these is doubtful.

Contents of A-Z files include:

- correspondence and internal memoranda re: equipment, animals, patents, budgets, donation funds/endowments, NIH grant print review, travel requests, entertainment, work space, parking, security clearance, research plans/proposals, recommendations, inquiries (re: employment/internships/visitor appointments), and other administrative matters. A few pieces relate to publications by Alpen or to Alpen's professional affiliations (e.g. lists of potential Sustaining Associates of the American Physiological Society), and there is some personal correspondence, mostly relative to Alpen's 1975 appointment as Director.

Possibly significant items:

- "Ball": Correspondence between Alpen and Anne P. Ball re: Human Urinary Erythropoietin, evidently for use in cultures [see also "Dukes" for copies of this correspondence].
- "Berry": Correspondence between Alpen, Fabrikant and Roger J. Berry re: radiotherapy for Berry's patient Miss Grove.
- "Box": Memo from Tobias re: inviting Harold Box "to give Bevalac Seminar on the effects of radiation on DNA."
- "Budinger": Correspondence re: animal hyperthermia experiments (proposed). Internal correspondence re: AB1545, which would regulate nuclear medicine technology [see also "Cole" for more items on critical attitudes toward AB1545].
- "Budnitz": Memo "What Donner can do for the oil shale business," about Donner capabilities for animal studies in mutagenesis/carcinogenesis.
- "Burr": DOE site review visit 1/24/78: report.

- "Comar": report on "Visit at the Health Research Laboratory / Los Alamos Scientific Laboratory / March 14, 1978." Mentions "long-standing plutonium epidemiology program ... going on at Los Alamos Laboratory for nearly two decades at this point."

- "Durbin": Alpen/DOE correspondence re: Durbin project "Radionuclides in Monkey Tissue" 1978/1979. "... treatment of plutonium toxicology is not a high-priority problem for DOE ..." [see also "Raymond" for Alpen's memo to Dr. Kenneth Raymond on this subject].

Durbin correspondence to DOE re: above project having been terminated 8/79 [see also "Shanahan" for Alpen's memo to W.J. Shanahan which refers to a new project that "replaces Durbin's Project 4432" on Radionuclides/Metabolism/Toxicity].

- "Everette": cc: of memo from R.H. Thomas re: "Radiation Exposure Incident - July 27, 1978" ["Biomedical beam room 1 (B1)"].

- "Frey": Alpen to Charles F. Frey, Chief of Surgical Service, Veterans Administration Hospital, Martinez, CA, re: "... radiotherapy trial of heavy charged particle beams including helium, carbon, neon and argon ions. Among the tumor types to be tested are localized, unresectable cancer of the pancreas without evidence of intraabdominal or distant metastases." "... exploring possibility of collaboration with the Veterans Administration Hospital system in either of these areas."

- "Heyman": Correspondence between Vice Chancellor Ira Heyman, Alpen, David S. Saxon [President, UC Systemwide Administration] re: medical care for human subjects injured during research. Mainly covers points on UC liability.

- "Lindgren": Includes list of Donner Laboratory Seminars for 1975 and 1976. On 9/22/75: Dr. Patricia W. Durbin on "Reassessment of the Distribution of Plutonium in the Human Body Based on Experiments with Non-Human Primates."

- "Meyers": Alpen to Frederick H. Meyers, Professor of Pharmacology at UCSF, 8/23/78. Meyers believes the drug 4-Bromo-2, 5 dimethoxy phenyl isopropylamine [an amphetamine, Schedule 1 since 9/73] "was not investigated in human beings without proper clearances and reviews." Alpen states the protocol "was submitted by the investigators to the LBL Committee for Safeguards in Research on Human Subjects. The committee membership at that time was as follows: James Born, MD, chairperson, William Siri, Ph.D., Howard Parker, MD, Thomas Budinger, MD, Ph.D., and James McCrae, MD. The committee reviewed and approved the protocol, and the work was conducted as outlined. Further review, not required by law or regulation, by the UCB Committee on Radiation Safety was also requested and concurrence received from them."

Attached to this:

- Meyers' photocopy of item from *The Toxicology Newsletter* describing death/injury from this drug, with handwritten note: "This is a Donner compound

- 'studied' in humans without clearance from FDA, a human use committee, or the research advisory panel of the staff."
- 2/7/73 protocol "for the use of <sup>77</sup>Br and <sup>82</sup>Br on a labeled compound in humans. This is the research which Dr. Kalbhen came to Donner to do." From Dr. Thornton (Tony) Sargent to Dr. James Born.
  - A. Dobie Jenkins' 11/21/78 internal correspondence to Alpen: "I am wholly befuddled as to Professor Meyer's purposes and concerns," attached to Meyers' 11/14/78 cover note sent, with Alpen's 8/23/78 letter, to "Committee on Research on Human Subjects" at UCB.
- "Mortimer": 12/16/77 memo Alpen to Robert Mortimer: "I am not presently doing research that falls under the regulations of the Biohazards Control policy of the Campus."
  - "NIH Peer Review": 1/76: Budinger, Tobias, Schooley, Alpen, Glaeser.
  - "Opalka": Alpen to Ms. Josephine Opalka, Patent Administrator UCB, 7/6/77. "Re: Specific Sequestering Agents for Actinides ... used to remove plutonium from victims accidentally contaminated." Alpen's professional opinion on patentability. Attached: Record of Invention and Report of Possible Invention. Compounds developed by Professor Kenneth N. Raymond and Dr. Frederick L. Weitzl.
  - "Owens": To Mark Owens, Deputy Division Head, Administrative Division. Form memo [n.d., probably 1979] to cover compliance with Confidentiality of Medical Information Act.
  - "Schmidt": 12/75 exchange of memos between him and Alpen re: "Research Involving Human Subjects." Penciled on Schmidt's memo to Alpen: "Employee Involvement." Reference to <sup>99m</sup>Tc [Technecium]-labeled albumin microspheres injected IV, "calibration of whole body counters for the detection of lung burdens of <sup>239</sup>Pu in humans."
  - "Shanahan": 4/11/79 memo from Alpen -- "following projects are suggested for candidates for additional funding ... GK0102012 Epidemiology of Magnetic Effects on Human Beings, T.F. Budinger" [data evidently obtained from cyclotron workers and research investigators, according to DOE's 2/13/79 Congressional Budget Request Narrative for FY1980, in large "ENERGY, Department of" folder found later in this box].
  - "Tobias": 5/16/77 memo from Alpen -- "LBL Human Use Committee has not yet received the Diagnostic Contract human subject protocols for annual review and renewal ... (I)f your protocols don't make the June 24 agenda, or aren't approved at that meeting, we will have to stop all human subject activity on the contract."

- Folder "ENERGY, Department of": 2/15/78 form memo ["To:" space is blank] from Alpen re: "DOE 189-proposal" [schedule 189] requirement of "either proper human subject documentation or a statement that human subjects are not involved in the research."

Also in this folder:

- Committee on DOE Research on Health Effects of Ionizing Radiation, with 1/4/79 agenda for Committee meeting, and "Proposal for the Review and Evaluation of the Research and Development Program in the Health Effects of Low-Level Radiation of the DOE for the Period August 1, 1978 - July 31, 1979."
- Committee Statement of Purpose.
- Roster of Committee members.
- Summary of [25] Projects: human studies are on plutonium workers, **Marshall Islanders**, uranium miners, Japanese survivors, inhabitants of Palomares, Spain ["plutonium released into rural agricultural environment"], nuclear shipyard workers, "tuberculosis patients subjected to repeated fluoroscopy for pneumothorax and pneumoperitoneum," and "population living in areas of high natural background" [Brasil?].

- Folder "Group Leaders (memos to -)": 6/29/78 memo Alpen to Andrew M. Sessler attaches "DOE reviews of three so-called `nuclear' projects ..."

- "Tobias - Molecular Mechanism of Cellular Heavy Ion Effects" [mice]
- "Durbin - Metabolism of Transuranic Elements" [monkeys]
- "Alpen - LBL" [hamsters]

All three reviews reveal DOE attitudes toward researchers/methodologies, particularly Durbin -- section on her project is longer, more detailed and more critical.

Box 5: In folder labeled Alameda Superior Court U.C. Nuclear Weapons Lab, C. Schwartz et al. there is a court Summons and Complaint against the Regents and certain named individuals, including Dr. Alpen. The plaintiffs complain of nuclear arms research undertaken by the University at LLL and at Los Alamos and the alleged improprieties on the part of seven members of the Board of Regents. The counsel for the case, Donald L. Reidhaar, hopes "that we will be able to dispose of much and perhaps all of this suit through various procedures and motions prior to trial."

In folder labeled Kennedy, Wm there is a report entitled "Response of Human Bone Marrow Cells to Timed Exposure of Erythropoietin 'in vitro.'" On page 2, there is a comment "EPO: Human urinary erythropoietin was generously supplied by Dr. Joseph F. Garcia of the Lawrence Berkeley Laboratory, Berkeley, CA."

In folder labeled LINFOOT, Dr. J.A. there is a chronicling of Dr. Linfoot's dismissal from LBL for insubordination, specifically for referring follow-ups of Donner patients to the Alta Bates Center and using Donner patient records outside of his employment at Donner Lab.

In folder labeled HUMAN USE COMM., LBL there is a list of members of the LBL Human Use Committee for 1981 (Born - died 10/81; Siri retired; new members: Schimmerling and Ms. Kathleen E. Handron; Dr. Henry H. Stauffer was named Chairman of the Committee.) Members of the LBL Radioactive Drug Research Committee: (Born - died 10/81; new member: Dr. Stephen B. Lewis; Dr. Fabrikant named Chairman of the Committee.

There is also a note to Miss Jan DeMoor, Executive Officer of the LBL Human Use Committee dated October 30, 1981 describing a collaborative study with Dr. Bert Lubin of Children's Hospital Medical Center of Northern California, Oakland to study lipoproteins in cord blood (approved by the Alta Bates Human Use Committee in August, 1981) Trudy Forte and Alpen (authors of note) state: "we have had no problems in obtaining and processing the samples."

Also there is a Memo dated September 25, 1981 from Alpen to the Bio-Med Scientific Staff RE: Research Involving Human Subjects. This reminds all investigators that any project at LBL whether DOE, NIH, or other source, which will in any way involve human subjects must be approved by the LBL Human Use Committee and the Campus Committee for Protection of Human Subjects prior to initiation of research. (Photocopied this document).

Box 6 of 6: In folder titled ABRA Director's Review 9/10 -11/84 there is a review (and supporting documentation and correspondence) of a proposed initiative for research into the biomedical applications of charged particle beams, including the construction of an Advanced Biomedical Research Accelerator (ABRA). The review was requested by Dr. D.A. Shirley, Director of Lawrence Berkeley Laboratory.

In a folder entitled 5-Year Plans there are 5-year plans for the Biology and Medicine Division broken down into groups (Lipoprotein and Structural Biology Group, Radiation Biophysics Group, Cellular and Molecular Biology Group, etc.)

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