Ernest Orlando Lawrence Berkeley National Laboratory
Records Transmittal

Division
Directorate

Department
Public Affairs

Group
Creative Services Offices (CSO)/PhotoLab

Location 46R0125

Transferee Bailey,Marilee B

Head of Department
Pamela Patterson

Archives and Records Office Use Only

Filing Code
ARO-5878

LBNL Accession Date
11/6/2009

FRC Accession No.

Records Title

Public Affairs Creative Services Office's PhotoLab's Historic Donald Cooksey Nitrate Film And Digital Photographs

Inclusive Date of Records

1932 1939

No of Containers

1 FRC Box

Brief description of records

AT NARA
This accession provides photographic documentation of the early history of Lawrence Berkeley National Laboratory (LBNL). Significant individuals, projects, instruments and events were photographed in the early days of what was then know as the University of California Radiation Laboratory (UCRL) by Donald Cooksey (May 15, 1892 – August 19, 1977).

Donald Cooksey received his PhD from Yale in 1932, becoming a physicist specializing in designing and building scientific instruments, especially detectors for measuring sub-atomic particles such as neutrons. When Ernest O. Lawrence was at Yale during the 1920s, Cooksey and Lawrence became friends. In 1932, after Lawrence had moved to Berkeley, California to set up the Radiation Laboratory, Lawrence asked Cooksey to come to Berkeley to make detectors for use with Lawrence's cyclotrons. Cooksey participated in the first observations of nuclear disintegration by cyclotron-accelerated protons and in 1935 designed a new and more reliable cyclotron chamber. Two years later became the chief designer for the 37-inch cyclotron. Cooksey continued to be a close associate of Lawrence and became Associate Director of the Lawrence Radiation Laboratory of the University of California at Berkeley on July 1, 1936. Although he was particularly interested in the mechanical shops and the improvement of design and engineering standards, he became E.O. Lawrence's "right-hand-man" and eventually moved into the role of an administrator. Donald Cooksey took it upon himself to document the early Radiation Laboratory events, building construction, equipment, and individuals through photography. His early work was captured on 35 mm nitrate film and later on 21/4 X 3 1/4 film.

Original analog photo formats include 35 mm, 2.25 x 3.35 inches, and 8 x 10 inches. The majority of the original analog negatives are nitrate based film. The analog originals in this accession include both negatives and prints. The analog originals were scanned at 2100 DPI using a Microtek ScanWizard Pro to TIF files. These photographs were selected for digitizing based both on their historical significance as well as the preservation challenges posed by the original nitrate analog photographs. The 201 TIFF images of photographs from Donald Cooksey Photographic Collection are contained on a Verbatim Archival Grade DVD-R BX. The analog originals are either in a box marked XBD200106-00965 through XBD200909-00764 or in a folder marked XBD 9606-0257 through XBD 200908-00732, depending on the size of the original analog photograph.

On November 6, 2009 the accession was sent to:
Nick Natanson, Archivist,
NWCS-Stills Processing, Room 5350
National Archives at College Park,
8601 Adelphi Road, College Park, MD 20740-6001
TEL 301-837-1904
this begins the process of transferring permanent digital photographic records and their analog originals to the National Archives.

Materials

Optical Digital Data Disks - Photographs - Photographs, Black and White Negative

Records Retention

☐ Historically Valuable Documents. Do not destroy. A detailed folder listing is included with the Records Transmittal

☐ Destroy/Review on a scheduled basis with a minimum retention of years. Disposal/Review Date: Perm.

This is in accordance with:

☐ The National Archive General Retention Schedule. Citation DOE/ADM/21/1/1A-E

☐ The Department of Energy Retention Schedule. Citation

Disposal Authorization:

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

Signature of Department Head Date

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Group Creative Services Offices (CSO)/PhotoLab

Records Title

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Container 1 **Of** 1

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Disk Pack

1 Verbatim Archival Grade DVD-R BX [201 TIFF images of photographs from Donald Cooksey Photographic Collection.
Contents:
XBD9606-02527.TIF -- David Sloan and J.J. Livingood work on the Sloan x-ray tube built at the University of California Hospital in San Francisco in 1932-33. With this machine Lawrence's backers hoped to break the stranglehold of the large electrical manufacturers on the high-voltage x-ray tube market.
XBD9706-02525.TIF -- Early Radiation Laboratory staff framed by the magnet for the 60-inch cyclotron in 1938. Front row, left to right: John H. Lawrence, Robert Serber, Franz N.D. Kurie, Raymond T. Birge, Ernest O. Lawrence, Donald Cooksey, Arthur H. Snell, Luis W. Alvarezz, Philip H. Abelson. Second row: John Backus, Wilfred B. Mann, Paul C. Aebersold, Edwin M. McMillan, Ernest Lyman, Martin D. Kamen, D.C. Kalbfell, W.W. Salisbury. Back row: Alex S. Langsdorf, Jr., Sam Simmons, Joseph G. Hamilton, David H. Sloan, J. Robert Oppenheimer, William Brobeck, Robert Cornog, Robert R. Wilson, Eugene Viez, J.J. Livingood.
XBD200106-00965.TIF -- Ernest O. Lawrence and workers sitting inside and on top of of 60" cyclotron magnet yoke in August 1938. Originally from film #8, page 2, frame #6. See also B&W nitrate negative Cooksey-789.
XBD200106-00966.TIF -- Ernest O. Lawrence and workers sitting inside and on top of of 60" cyclotron magnet yoke in August 1938. Originally from film #8, page 2, frame #7. See also B&W nitrate negative Cooksey-789.
XBD200903-00103.TIF -- Artists conceptual drawing of David Sloan x-ray tube, 1934
XBD200903-00122.TIF -- Staff of the Radiation Laboratory and those of the Physics Department closely associated with the work on the 60-inch cyclotron., taken September, 1938. First row (left to right): J.H. Lawrence, R. Serber, P.C. Aebersold, F.N.D. Kurie, R.T. Birge, E.O. Lawrence, D. Cooksey, A.H. Snell, L.W. Alverez, P. Abelson. Middle row: J.G. Backus, A. Langsdorf, J.G. Hamilton, S.J. Simmons, E.M. McMillan, R.R.Wilson, W.M. Brobeck, E.M. Lyman, J.J. Livingood. Back row: D.H. Slone, R. Corog, M.D. Kamen, W.B. Mann, J.R. Oppenheimer, E.S. Viez, D.C. Kalbfell, W.W. Silisbury.
XBD200907-00395.TIF -- The 37-inch cyclotron accelerated deuterons to 8 MeV and alpha particles to 16 MeV. It was also used to create radio isotopes and the first artificial element, technetium. This cyclotron was used in one of the first attempts to treat cancer. Cooksey label: Cancer Room, Old Lab, with Paul Aebersold. Cooksey 1-7 (nitrate), September 20,1938.
XBD200907-00396.TIF -- The 37-inch cyclotron accelerated deuterons to 8 MeV and alpha particles to 16 MeV. It was also used to create radio isotopes and the first artificial element, technetium. This cyclotron was used in one of the first attempts to treat cancer. Cooksey label: Cancer Room Construction, Old Lab. Cooksey 1-4 (nitrate), September 20, 1938. _
XBD200907-00397.TIF -- The 37-inch cyclotron accelerated deuterons to 8 MeV and alpha particles to 16 MeV. It was also used to create radio isotopes and the first artificial element, technetium. This cyclotron was used in one of the first attempts to treat cancer. Cooksey label: Cancer Room, with Paul Aebersold as patient. Cooksey 1-9 (nitrate), Septemver 26, 1938.
XBD200907-00398.TIF -- The 37-inch cyclotron accelerated deuterons to 8 MeV and alpha particles to 16 MeV. It was also used to create radio isotopes and the first artificial element, technetium. This cyclotron was used in one of the first attempts to treat cancer. Shown with Paul Aebersold looking on. Cooksey label: Cancer Room, note proton snout. Cooksey 1-12 (nitrate), September 20, 1938.
XBD200907-00399.TIF -- The 37-inch cyclotron accelerated deuterons to 8 MeV and alpha particles to 16 MeV. It was also used to create radio isotopes and the first artificial element,

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technetium. This cyclotron was used in one of the first attempts to treat cancer. Shown with Paul Aebersold (standing) and Bill Brobeck as patient.Cooksey 1-14 (nitrate), September 20, 1938._
XBD200907-00400.TIF -- The 37-inch cyclotron accelerated deuterons to 8 MeV and alpha particles to 16 MeV. It was also used to create radio isotopes and the first artificial element, technetium. This cyclotron was used in one of the first attempts to treat cancer. Cooksey label: Cancer Room, note proton snout. Cooksey 1-10 (nitrate), September 20, 1938.
XBD200907-00401.TIF -- Paul Aebersold, standing.Cooksey 3-15 (nitrate), September 26, 1938.
XBD200907-00402.TIF -- Lampros, the first patient to be treated with neutron beam. Cooksey Label: Lampross, seated. Cooksey 3-18 (nitrate), September 26, 1938.
XBD200907-00403.TIF -- Lampros, being prepared for treatment with neutron beam. Cooksey label: Lampross. Cooksey 3-19 (nitrate), September 26, 1938. See also XBB707-2938
XBD200907-00404.TIF -- Franz N.D. Kurie with 60-inch cyclotron. Cooksey 4-33 (nitrate), April 1, 1938.
XBD200907-00405.TIF -- 60-inch cyclotron coil installation with unidentified individual. Cooksey 4-21 (nitrate), April 1, 1938.
XBD200907-00406.TIF -- 60-inch cyclotron with William Brobeck (second from right) and unidentified individuals. Damaged negative . Cooksey 4-27 (nitrate), April 1, 1938.
XBD200907-00407.TIF -- 60-inch cyclotron with Stamper and Kaler. Cooksey 4-30 (nitrate), April 1, 1938.
XBD200907-00408.TIF -- 60-inch cyclotron with Stamper and Kaler. Cooksey 4-31 (nitrate), April 1, 1938.
XBD200907-00409.TIF -- 60-inch cyclotron with Franz N.D. Kurie and Edwin McMillan. Cooksey 4-34 (nitrate), April 1, 1938.
XBD200907-00410.TIF -- John Lawrence standing in lab coat. Cooksey 3-16 (nitrate)
XBD200907-00411.TIF -- Robert L. Thornton with 27-inch cyclotron Michigan. Damaged negative. Cooksey 7-5 (nitrate), April 22, 1938.
XBD200907-00412.TIF -- Van Voorhis and Paul Aebersold. Cooksey 5-40 (nitrate), May 1, 1938.
XBD200907-00413.TIF -- Paul Aebersold standing on crates at 60-inch cyclotron. Cooksey 5-33 (nitrate), May 1, 1938.
XBD200907-00414.TIF -- Equipment labeled: 60-inch Cyclotron Vacuum Chamber Wall, University of California, Radiation Laboratory, William Brobeck (left). Cooksey 6-33 (nitrate), May 1, 1938.
XBD200907-00415.TIF -- Ernest "Ernie" C. Pollard with cyclotron at Yale. Cooksey 7-31 (nitrate), May 2, 1938.
XBD200907-00416.TIF -- William Brobeck and Arthur H. Snell at Berkeley Steel Construction 60-inch cyclotron. Cooksey 8-14 (nitrate), March 1, 1938.
XBD200907-00417.TIF -- Berkeley Steel Construction 60-inch cyclotron. Cooksey 8-13 (nitrate), March 1, 1938.
XBD200907-00418.TIF -- Unidentified individuals at 60-inch cyclotron magnet yoke. Cooksey 8-2 (nitrate), March 1, 1938.
XBD200907-00419.TIF -- Unidentified workmen at 60-inch cyclotron magnet yoke. Cooksey 8-3 (nitrate), March 1, 1938.
XBD200907-00420.TIF -- Unidentified workmen at 60-inch cyclotron magnet yoke. Cooksey 8-42 (nitrate), March 1, 1938.
XBD200907-00421.TIF -- D.C. Kalbfell, Martin Kamen, Paul Aebersold, and Donald Cooksey in front of 60-inch cyclotron. Cooksey 11-9 (nitrate), March 1, 1938.
XBD200907-00422.TIF -- D. Corson with 60-inch cyclotron tanks. Cooksey 12-2 (nitrate), January

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18, 1939.
XBD200907-00423.TIF -- L. Jackson Laslett at 60-inch cyclotron with tank out. Cooksey 12-13 (nitrate), January 18, 1939.
XBD200907-00424.TIF -- Ed McMillan with 60-inch cyclotron and tank. Cooksey 12-17 (nitrate), January 18, 1939.
XBD200907-00425.TIF -- Donald Cooksey and William Brobeck battling in front of 60-inch cyclotron. Cooksey 12-19 (nitrate), January 18, 1939.
XBD200907-00426.TIF -- Donald Cooksey and William Brobeck with 60-inch cyclotron. Cooksey 12-20 (nitrate), January 18, 1939.
XBD200907-00427.TIF -- Ernest Orlando Lawrence with wife, Molly and children, Eric and Margaret on stoop of Crocker Lab. Cooksey 12-29 (nitrate), January 18, 1939.
XBD200907-00428.TIF -- Ernest Orlando Lawrence with wife, Molly and children, Eric and Margaret on stoop of Crocker Lab. Cooksey 12-32 (nitrate), January 18, 1939.
XBD200907-00429.TIF -- Ernest Orlando Lawrence with wife, Molly and children, Eric and Margaret on stoop of Crocker Lab. Cooksey 12-36 (nitrate), January 18, 1939.
XBD200907-00430.TIF -- D.C. Kalbfell (left) working on 60-inch cyclotron tank. Cooksey 13-23 (nitrate), January 18, 1939.
XBD200907-00431.TIF -- The rf power cavity for the 60-inch cyclotron with D.C. Kalbfell. Cooksey 13-24 (nitrate), Feburary 6, 1939.
XBD200907-00432.TIF -- Thornton (back to camera) , Ernest Orlando Lawrence, and D.C. Kalbfell at 60-inch cyclotron tank. Cooksey 13-30 (nitrate), Feburary 6, 1939.
XBD200907-00433.TIF -- 60-inch cyclotron magnet at right with associated equipment. Cooksey 13-40 (nitrate), Feburary 6, 1939.
XBD200907-00434.TIF -- D.C. Kalbfell standing by the cover of the dees (D's) with water cooling tubes, 60-inch cyclotron. Cooksey 14-20 (nitrate), Feburary 15, 1939.
XBD200907-00435.TIF -- Cover of the dees (D's) with water cooling tubes, 60-inch cyclotron. Cooksey 14-21 (nitrate), Feburary 15, 1939.
XBD200907-00436.TIF -- Equipment related to the 60-inch cyclotron with scale (possibly electrical feedthrough.) Cooksey 14-23 (nitrate), Feburary 15, 1939.
XBD200907-00437.TIF -- The 37-inch cyclotron accelerated deuterons to 8 MeV and alpha particles to 16 MeV, and used to create radio isotopes and the first artificial element, technetium. Cooksey 24-31 (nitrate), September 1, 1935.
XBD200907-00438.TIF -- 60-inch cyclotron magnet. Cooksey 14-28 (nitrate), Feburary 15, 1939.
XBD200907-00439.TIF -- William Farley and John Backus behind 60-inch cyclotron vacuum chamber. Cooksey 14-30 (nitrate), Feburary 15, 1939.
XBD200907-00440.TIF -- Donald Cooksey beside 60-inch cyclotron vacuum chamber. Cooksey 14-31 (nitrate), Feburary 15, 1939.
XBD200907-00441.TIF -- William Farley working on 60-inch cyclotron. Cooksey 14-35 (nitrate), Feburary 15, 1939.
XBD200907-00442.TIF -- 60-inch cyclotron looking into vacuum chamber. Cooksey 14-39 (nitrate), Feburary 15, 1939.
XBD200907-00443.TIF -- 60-inch cyclotron looking into vacuum chamber. Cooksey 14-40 (nitrate), Feburary 15, 1939.
XBD200907-00444.TIF -- Assembly of 60-inch cyclotron tanks RF system. Cooksey 14-44 (nitrate), Feburary 15, 1939.
XBD200907-00445.TIF -- 60-inch cyclotron tanks. Cooksey 14-3 (nitrate), Feburary 1, 1939.
XBD200907-00446.TIF -- William Brobeck (left) and Corson (right) with 60-inch cyclotron tanks.

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Cooksey 14-6 (nitrate), Feburary 1, 1939.
XBD200907-00447.TIF -- Lab setup with rectifiers. Damaged negative. Cooksey 15-20 (nitrate), March 1, 1939.
XBD200907-00448.TIF -- 60-inch dee (D) on cart. Cooksey 15-22 (nitrate), March 1, 1939.
XBD200907-00449.TIF -- Paul Aebersold at control panel at 60-inch cyclotron. Cooksey 15-25 (nitrate), March 1, 1939.
XBD200907-00450.TIF -- Paul Aebersold at control panel at 60-inch cyclotron. Cooksey 15-23 (nitrate), March 1, 1939.
XBD200907-00451.TIF -- Donald Cooksey at control panel at 60-inch cyclotron. Cooksey 15-27 (nitrate), March 1, 1939.
XBD200907-00452.TIF -- John Backus at control panel at60-inch cyclotron. Cooksey 15-28 (nitrate), March 1, 1939.
XBD200907-00453.TIF -- Robert Thornton at control panel at 60-inch cyclotron. Cooksey 15-29 (nitrate), March 1, 1939.
XBD200907-00454.TIF -- Robert Marshak at control panel at 60-inch cyclotron. Cooksey 15-30 (nitrate), March 1, 1939.
XBD200907-00455.TIF -- 60-inch cyclotron "spider." Cooksey 15-31 (nitrate), March 1, 1939.
XBD200907-00456.TIF -- Mayor Rossi and Charles Seymour. Cooksey 15-34 (nitrate), March 1, 1939.
XBD200907-00457.TIF -- Jim Moulton, Charles Seymour, and Mayor Rossi at the St Francis Hotel in San Francisco. Cooksey 15-37 (nitrate), March 1, 1939.
XBD200907-00458.TIF -- Luis Alvarez, Charles Seymour, and Ernest Orlando Lawrence in front of 60-inch n cyclotron. Cooksey 15-38 (nitrate), March 16, 1939.
XBD200907-00459.TIF -- Donald Cooksey, Charles Seymour, and Ernest Orlando Lawrence in front of 60-inch cyclotron. Cooksey 15-40 (nitrate), March 16, 1939.
XBD200907-00460.TIF -- John Lawrence. Cooksey 15-44 (nitrate), March 16, 1939.
XBD200907-00461.TIF -- 27 1/2-inch cyclotron beam out. Cooksey 17-6 (nitrate), September 25. 1936. See also: Cooksey 756
XBD200907-00462.TIF -- 27 1/2-inch cyclotron beam out. Cooksey 17-7 (nitrate), September 25. 1936. See also: Cooksey 757
XBD200907-00463.TIF -- Lampi and Paul Aebersold at desk. Cooksey 17-9 (nitrate), September 25. 1936.
XBD200907-00464.TIF -- Miss Condit (?) Cooksey 17-14 (nitrate), September 25. 1936.
XBD200907-00465.TIF -- John H. Lawrence at desk. Cooksey 17-13 (nitrate), September 25. 1936. See also: __XBD9606-02745.TIF for similar image.
XBD200907-00466.TIF -- Lampi and Paul Aebersold with notes. Cooksey 17-19 (nitrate), September 25. 1936
XBD200907-00467.TIF -- Dissected mouse. Cooksey 17-20 (nitrate), September 25. 1936.
XBD200907-00468.TIF -- 37-inch cyclotron accelerated deuterons to 8 MeV and alpha particles to 16 MeV, also used to create radio isotopes and the first artificial element, technetium. Cooksey 18-2 (nitrate), October 13, 1937
XBD200907-00469.TIF -- 37-inch cyclotron. Cooksey 18-9 (nitrate), October 13, 1937.
XBD200907-00470.TIF -- 37-inch cyclotron with components. Cooksey 18-10 (nitrate), October 13, 1937.
XBD200907-00471.TIF -- 37-inch cyclotron. Cooksey 18-1 (nitrate), October 13, 1937.
XBD200907-00472.TIF -- 37-inch cyclotron. Cooksey 18-3 (nirate), October 13, 1937.
XBD200907-00473.TIF -- Bill Brobeck. Cooksey 18-8 (nitrate), October 13, 1937.

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XBD200907-00474.TIF -- 37-inch plywood cyclotron. Cooksey 19-3 (nitrate), November 1, 1937.
XBD200907-00505.TIF -- David Sloan with owl. See also XBB 6808-4746.
XBD200907-00506.TIF -- Lab set up with sodium from Joseph Gilbert Hamilton's radiosodium experiment. January 1939. See also XBB 6808-4749.
XBD200907-00507.TIF -- Joseph Gilbert Hamilton's radiosodium experiment lab set up with controls. January 1939. See also XBB 6808-4751 (FMP record missing).
XBD200907-00508.TIF -- Joseph Gilbert Hamilton's radiosodium experiment lab set up. January 1939. See also XBB 6808-4752 (FMP record missing).
XBD200907-00509.TIF -- Joseph Gilbert Hamilton's radiosodium experiment lab set up. January 1939. See also XBB 6808-4753(FMP record missing).
XBD200907-00510.TIF -- Joseph Gilbert Hamilton with radiosodium experiment equipment. January 1939. See also XBB 6808-4755(FMP record missing).
XBD200907-00511.TIF -- Joseph Gilbert Hamilton with radiosodium experiment equipment. January 1939. See also XBB 6808-4757(FMP record missing).
XBD200907-00512.TIF -- Robert Marshak (right), a scientist and author of Menson Physics, who volunteered to drink radiosodium. Joseph Gilbert Hamilton at controls. January 1939. See also XBB 6808-4759(FMP record missing).
XBD200907-00513.TIF -- Joseph Gilbert Hamilton radiosodium experiment. January 1939. See also XBB 6808-4763(FMP record missing).
XBD200907-00514.TIF -- Dick Connell (center) and Donald Cooksey with camera. Early 1940s. See also XBB 7302-710.
XBD200907-00515.TIF -- David Sloan X-ray tube in treatment room at U.C. Hospital in San Francisco.1934. See also XBB 7606-8035.
XBD200907-00516.TIF -- David Sloan X-ray tube in treatment room at U.C. Hospital in San Francisco.1934. See also XBB 7606-8038 (FMP record missing).
XBD200907-00566.TIF -- 37-inch plywood cyclotron frame. Cooksey 19-14 (nitrate), November 1, 1937.
XBD200907-00567.TIF -- 37-inch plywood cyclotron form. Cooksey 19-18 (nitrate), November 1, 1937.
XBD200907-00568.TIF -- Arthur H. Snell's oscillators. Cooksey 20-21 (nitrate), November 1, 1937.
XBD200907-00569.TIF -- Wilfred Mann, Martin Kamen, Arthur H. Snell, and Franz Kurie. Cooksey 20-27 (nitrate), November 1, 1937.
XBD200907-00570.TIF -- Wilfred Mann, Arthur H. Snell, Martin Kamen, and Franz N.D. Kurie. Cooksey 20-28 (nitrate), November 1, 1937.
XBD200907-00571.TIF -- Arthur H. Snell and Wilfred Mann walking on the U.C. Berkeley campus. Cooksey 20-25 (nitrate), November 1, 1937.
XBD200907-00572.TIF -- Arthur H. Snell and Wilfred Mann in conversation on the U.C. Berkeley campus. Cooksey 20-26 (nitrate), November 1, 1937.
XBD200907-00573.TIF -- Arthur Snell, Wilfred Mann, Franz N.D.Kurie, Martin Kamen, and Edwin McMillan. Cooksey 20-30 (nitrate), November 1, 1937.
XBD200907-00574.TIF -- Charles Litton working on a glass blowing lathe of his design which revolutioized the vacuum tube industry. Founder of Litton Industries. Cooksey 21-1 (nitrate), November 16, 1937.
XBD200907-00575.TIF -- First "snout" to bring beam out of magnetic field. Associated individuals Edwin McMillan, Luis Alverez and Arthur H. Snell, not pictured. Cooksey 21-9 (nitrate), November 16, 1937.

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XBD200907-00576.TIF -- First "snout" to bring beam out of magnetic field. Associated individuals Edwin McMillan, Luis Alverez and Arthur H. Snell, not pictured. Cooksey 21- 4 (nitrate), November 16, 1937.
XBD200907-00577.TIF -- Bill Brobeck and Reynolds looking at coils. __Cooksey caption: First coil wound Jan 31st for Japan, Feb 2nd shorts found, Feb second completed rewinding Ist coil. Our Ist coil started April 13th - finished- delivered may 19th. Cooksey 22 - 19 (nitrate), April 13, 1938.
XBD200907-00578.TIF -- Bill Brobeck, Reynolds, and Sagene looking up from coils. __Cooksey caption: First coil wound Jan 31st for Japan, Feb 2nd shorts found, Feb second completed rewinding Ist coil. Our Ist coil started April 13th - finished- delivered may 19th. Cooksey 22 - 20 (nitrate), April 13, 1938.
XBD200907-00579.TIF -- Sagene, Bill Brobeck, and unnamed individuals looking at plans. __Cooksey caption: First coil wound Jan 31st for Japan, Feb 2nd shorts found, Feb second completed rewinding Ist coil. Our Ist coil started April 13th - finished- delivered may 19th. Cooksey 22 - 22 (nitrate), April 13, 1938.
XBD200907-00580.TIF -- Workmen by coil. __Cooksey caption: First coil wound Jan 31st for Japan, Feb 2nd shorts found, Feb second completed rewinding Ist coil. Our Ist coil started April 13th - finished- delivered may 19th. Cooksey 22 - 25 (nitrate), April 13, 1938.
XBD200907-00581.TIF -- Bill Brobeck (left) l ooking at plans. __Cooksey caption: First coil wound Jan 31st for Japan, Feb 2nd shorts found, Feb second completed rewinding Ist coil. Our Ist coil started April 13th - finished- delivered may 19th. Cooksey 22 - 26 (nitrate), April 13, 1938.
XBD200907-00582.TIF -- Sagene (second from left), William Brobeck Brobeck, and Reynolds (right) looking at plans.__Cooksey caption: First coil wound Jan 31st for Japan, Feb 2nd shorts found, Feb second completed rewinding Ist coil. Our Ist coil started April 13th - finished- delivered may 19th. Cooksey 22 - 27 (nitrate), April 13, 1938.
XBD200907-00583.TIF -- Edwin McMillan looking at coil.__Cooksey caption: First coil wound Jan 31st for Japan, Feb 2nd shorts found, Feb second completed rewinding Ist coil. Our Ist coil started April 13th - finished- delivered may 19th. Cooksey 22 - 32 (nitrate), April 13, 1938.
XBD200907-00584.TIF -- Dissected mouse, lukemia research. Cooksey 22 - 6 (nitrate), January 1, 1938.
XBD200907-00585.TIF -- Bill Brobeck (right) working on drawings. Cooksey 22 - 9 (nitrate), January 1, 1938.
XBD200907-00586.TIF -- Arthur H. Snell writing in notebook. Cooksey 23-8 (nitrate), January 30, 1938.
XBD200907-00587.TIF -- Quackenbush in machine shop. Damaged negative. Cooksey 23-3 (nitrate), January 30, 1938.
XBD200907-00588.TIF -- Oscillator, experimental set-up by Winfield Salisbury. Cooksey 23-6 (nitrate), January 30, 1938. Damaged negative.
XBD200907-00589.TIF -- Dottie Kurie at typewriter. Damaged negative. Cooksey 23-21 (nitrate), January 30, 1938.
XBD200907-00590.TIF -- Dee (D) accelerator component. Cooksey 24-1 (nitrate), September 1, 1935.
XBD200907-00591.TIF -- The 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Cooksey 24-11 (nitrate), September 1, 1935.
XBD200907-00592.TIF -- The 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Cooksey 24-12 (nitrate), September 1, 1935.

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XBD200907-00593.TIF -- The 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Cooksey 24-15 (nitrate), September 15, 1935.
XBD200907-00594.TIF -- Livingood and Lehmann working on the 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Cooksey 24-30 (nitrate), September 1, 1935.
XBD200907-00595.TIF -- Krause and Lehmann working on the 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Cooksey 24-31 (nitrate), September 1, 1935
XBD200907-00596.TIF -- Krause, Donald Cooksey, Livingood, and Lehmann with the 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Cooksey 24-32 (nitrate), September 1, 1935.
XBD200907-00597.TIF -- Kurie and Livingood working on the 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Cooksey 24-33 (nitrate), September 1, 1935.
XBD200907-00598.TIF -- The 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Cooksey 24-27 (nitrate), September 1, 1935.
XBD200907-00599.TIF -- The 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Cooksey 25-5 (nitrate), September 1, 1935.
XBD200907-00600.TIF -- The 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Cooksey 25-6 (nitrate), September 1, 1935.
XBD200907-00601.TIF -- The 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Cooksey 25-10 (nitrate), September 1, 1935.
XBD200907-00602.TIF -- L. Emo seated. Cooksey 26-2 (nitrate), November 1, 1936.
XBD200907-00603.TIF -- Franz N.D. Kurie and the 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Note two deflections. Cooksey 27-0 (nitrate), June 1, 1936.
XBD200907-00604.TIF -- Sid Barnes at Rochester Lab with equipment. Cooksey 27-6 (nitrate), June 1, 1936.
XBD200907-00605.TIF -- Franz N.D. Kurie (standing), Arthur H. Snell (laying down) and others at Trinity River. Cooksey 27-16 (nitrate), June 1, 1936.
XBD200907-00606.TIF -- Franz N.D. Kurie (right), Arthur H. Snell (second from right) and others on Pickets Peak in Trinity County. Cookesy caption: Ford I drove out for Franz in 1936 (May). Cooksey 27-28 (nitrate), June 1, 1936.
XBD200907-00607.TIF -- Double donut by Bob Sihlis. Cooksey 27-30 (nitrate), June 1, 1936.
XBD200907-00608.TIF -- Miss Condit writing on Donald Cooksey's shoulder. Cooksey 29-0 (nitrate), January 1, 1937.
XBD200907-00609.TIF -- Maurice E. Nahurias with 37-inch can at Pelton Water Wheel Company. Cooksey 29-14 (nitrate), January 1, 1937.
XBD200907-00610.TIF -- 37-inch cyclotron can. Cooksey 29-15 (nitrate), January 1, 1937.
XBD200907-00611.TIF -- Luis Alvarez with Lab setup (possibly associated with the 37-inch cyclotron) Cooksey 30-10 (nitrate), April 1, 1937.
XBD200907-00612.TIF -- Lab setup (possibly associated with the 37-inch cyclotron). Cooksey 30-

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12 (nitrate), April 1, 1937.
XBD200907-00613.TIF -- Cloud Chamber set-up designed by Luis Alvarez used between the pole pieces of the 27-inch cyclotron by Alvarez and Brobeck. Cooksey 30-16 (nitrate), April 1, 1937.
XBD200907-00614.TIF -- Insertion of Dees (D's) into 60-inch magnet. Cooksey 31-9 (nitrate), April 1, 1939.
XBD200907-00615.TIF -- Ernest Orlando Lawrence (right) and two unidentified individuals at 60-inch cyclotron tanks. Cooksey 31-11 (nitrate), April 1, 1939.
XBD200907-00616.TIF -- Ernest Orlando Lawrence (holding papers), unidentified individual, W. Sailsbury, and Luis Alvarez after completion of 60-inch cyclotron. Cooksey 31-17 (nitrate), April 1, 1939.
XBD200907-00617.TIF -- Sam Simmons, associated with the 60-inch cyclotron. Cooksey 31-29 (nitrate), April 1, 1939.
XBD200908-00701.TIF -- 60-inch cyclotron. 2-inch lead wall, medical physics with Bernard Harvey. November 13 1939.
XBD200908-00702.TIF -- 60-inch cyclotron neutron port being fitted by Bernard Harvey.
XBD200908-00703.TIF -- Bill Stamper with 27-inch cyclotron tank #1 and magnet, 1932.
XBD200908-00704.TIF -- 27-inch cyclotron tank #1,1932.
XBD200908-00705.TIF -- 27-inch cyclotron tank #1 and magnet,1932.
XBD200908-00706.TIF -- 27-inch cyclotron with magnet.
XBD200908-00707.TIF -- 27-inch cyclotron with magnet.
XBD200908-00708.TIF -- 27-inch cyclotron with magnet,1932.
XBD200908-00709.TIF -- William Salisbury with 60-inch cyclotron.
XBD200908-00710.TIF -- Carl G. Lawerence, Ernest Orlando Lawrence's and John Lawrence's father.
XBD200908-00711.TIF -- Prof. Victor Spitsyn, Director of Instutute of Physical Science, Russian visitor 10/20/1960.
XBD200908-00712.TIF -- Prof. Victor Spitsyn, Director of Instutute of Physical Science shaking hands with Ernest Orlando Lawrence 10/20/1960. Ernest Orlando Lawrence recieving the first Sylvauns Thayer Award in 1958, an award that is given each year by the United States Military Academy at West Point. The Thayer Award, established in honor of Col. Sylvanus Thayer, 'Father of the Military Academy,' is presented to an outstanding citizen whose service and accomplishments in the national interest exemplify the Military Academy motto, "Duty, Honor, Country."
ZBD200908-00713.TIF -- Joseph Gilbert Hamilton, the first to work out the processes for the use of radioisotopes in nuclear medicine. Shown here working with lab mice, radiosodium experiment.
XBD200908-00714.TIF -- David Kabfell working at port, 1937-1938 (ORL).
ZBD200908-00715.TIF -- Joseph Gilbert Hamilton, the first to work out the processes for the use of radioisotopes in nuclear medicine. He worked on the radiosodium experiment.
XBD200908-00717.TIF -- Franz N. D. Kurie working on dees (D's) of 27-inch cyclotron tank #3.
XBD200908-00718.TIF -- 27-inch cyclotron tank #2.
XBD200908-00719.TIF -- 37-inch cyclotron tank #4,1937.
XBD200908-00720.TIF -- F.S. Van Voorhis with 37-inch cyclotron tank #4, January 1938.
ZBD200908-00721.TIF -- Ernest Orlando Lawrence pointing towards the target chamber of the 37-inch cyclotron.
XBD200908-00722.TIF -- S.N. Van Voorhis (foreground), David Kalbfell, and Donald Cooksey with 27-inch cyclotron.
XBD200908-00723.TIF -- David Sloan X-ray tube,1933. See also XBB766-8041.
XBD200908-00724.TIF -- David Sloan X-ray tube,1933. See also XBB766-8040.

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XBD200908-00725.TIF -- David Sloan and J.J. Livingood with Sloan X-ray tube,1933. See also XBB766-8042.
XBD200908-00726.TIF -- David Sloan X-Ray tube, coil. See also XBB766-8039.
XBD200908-00727.TIF -- University of California Hospital, San Franciso. David Sloan X-ray tube and 300kw oscillator, 1933.
XBD200908-00728.TIF -- University of California Hospital, San Franciso. David Sloan X-ray tube and 300kw oscillator, 1933.
XBD200908-00729.TIF -- David Sloan X-ray tube.
XBD200908-00730.TIF -- David Sloan and his X-ray tube.
XBD200908-00731.TIF -- X-ray of mice, perhaps associated with radiosodium experiments. See also XBB766-8063.
XBD200908-00732.TIF -- Charting of Deposition of Radio Phosphorous in Tissues in Microcuries (bird study.) See also XBB766-8061.
XBD200908-00733.TIF -- 27-inch cyclotron oscillator, 1937. See also XBB766-8055.
XBD200908-00734.TIF -- Possible electrical feedthrough associated with 60-inch cyclotron. Cooksey 13-44 (nitrate)
XBD200908-00735.TIF -- 27-inch cyclotron tank #2, fall,1935. See also Cooksey 751.
XBD200908-00736.TIF -- 60-inch cyclotron with tank and dee (D) in foreground. See also Cooksey 15-2 (nitrate).
XBD200908-00739.TIF -- John Lawrence in his lab. He became interested in the biological effects of neutrons during a 1935 visit to Berkeley, and soon joined his brother's team. Cooksey 17-12 (nitrate).
XBD200908-00740.TIF -- Lampi, Miss. Condit, and Paul Aebersold at desk. Cooksey 17-11 (nitrate), September 25. 1936. _
XBD200908-00741.TIF -- Neutron rabbit with back shaved, Radiation Laboratory experiments. Cooksey 2-35. See also blackboard cartoon of rabbit's response, XBD200908-00742.TIF, September 23, 1938. _
XBD200908-00742.TIF -- Neutron rabbit blackboard cartoon, Radiation Laboratory experiments. Cooksey 5-38. See also rabbit with back shaved__XBD200908-00741.TIF, September 23, 1938
XBD200908-00754.TIF -- Mrs. Jackson Laslett (right) sitting on top of of 60" cyclotron magnet yoke in,1938. Cooksey 8-9 (nitrate)
XBD200908-00755.TIF -- Installation of the support structure for the 60-inch cyclotron magnet, William Brobeck (right) looking on. Cooksey 8-31 (nitrate)
XBD200908-00756.TIF -- Installation of the support structure for the 60-inch cyclotron magnet, Ernest Orlando Lawrence (right) looking on. Cooksey 8-26 (nitrate)
XBD200908-00757.TIF -- Bill Brower working on dee (D), 60-inch cyclotron. Cooksey 14-9 (nitrate)
XBD200908-00758.TIF -- 37-inch cyclotron target chamber from which target can be removed without loss of vacuum in main chamber. Cooksey 18-8 (nitrate)
XBD200908-00759.TIF -- Edwin McMillan autograph
XBD200909-00760.TIF -- Ernest Orlando Lawrence seated. Cooksey 17-23, September 25, 1936.
XBD200909-00761.TIF -- Electronic system designed by Dean (?) and later completely redesigned by Alvarez. Used in several of his experiments. For example, slow neutron beams, magnetic moment of the neutron, discovery that He3 was stable, and confirmation of the discovery of fission. Cooksey 30-14 (nitrate), April, 1937
XBD200909-00762.TIF -- Periodic Table designed and kept up to date by Luis Alvarez. Radioactive isotopes were listed on round "tags" that were held up by hooks and could be replaced when new

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data became available. Cooksey 30-15 (nitrate), April, 1937.
XBD200909-00763.TIF -- 27-inch cyclotron, tank 2 showing hole burnt in dees (D's). Cooksey 28-33 (nitrate), Fall, 1935. Negative missing
XBD200909-00764.TIF -- Oscillator tube, 27-inch cyclotron. Cooksey 28-7(nitrate),1936. Note on original that "...gave film 28 to EOL."
XBD200909-00765.TIF -- Lehmann working in lab assocated with 27-inch cyclotron. Cooksey 28-38(nitrate),1935. Negative missing]

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Box 2 XBD200106-00965 through XBD200909-00764

[XBD200106-00965 -- Ernest O. Lawrence and workers sitting inside and on top of of 60" cyclotron magnet yoke in August 1938. Originally from film #8, page 2, frame #6. See also B&W nitrate negative Cooksey-789.

XBD200106-00966 -- Ernest O. Lawrence and workers sitting inside and on top of of 60" cyclotron magnet yoke in August 1938. Originally from film #8, page 2, frame #7. See also B&W nitrate negative Cooksey-789.

XBD200907-00395 -- The 37-inch cyclotron accelerated deuterons to 8 MeV and alpha particles to 16 MeV. It was also used to create radio isotopes and the first artificial element, technetium. This cyclotron was used in one of the first attempts to treat cancer. Cooksey label: Cancer Room, Old Lab, with Paul Aebersold. Cooksey 1-7 (nitrate), September 20,1938.

XBD200907-00396 -- The 37-inch cyclotron accelerated deuterons to 8 MeV and alpha particles to 16 MeV. It was also used to create radio isotopes and the first artificial element, technetium. This cyclotron was used in one of the first attempts to treat cancer. Cooksey label: Cancer Room Construction, Old Lab. Cooksey 1-4 (nitrate), September 20, 1938.

XBD200907-00397 -- The 37-inch cyclotron accelerated deuterons to 8 MeV and alpha particles to 16 MeV. It was also used to create radio isotopes and the first artificial element, technetium. This cyclotron was used in one of the first attempts to treat cancer. Cooksey label: Cancer Room, with Paul Aebersold as patient. Cooksey 1-9 (nitrate), Septemver 26, 1938.

XBD200907-00398 -- The 37-inch cyclotron accelerated deuterons to 8 MeV and alpha particles to 16 MeV. It was also used to create radio isotopes and the first artificial element, technetium. This cyclotron was used in one of the first attempts to treat cancer. Shown with Paul Aebersold looking on. Cooksey label: Cancer Room, note proton snout. Cooksey 1-12 (nitrate), September 20, 1938.

XBD200907-00399 -- The 37-inch cyclotron accelerated deuterons to 8 MeV and alpha particles to 16 MeV. It was also used to create radio isotopes and the first artificial element, technetium. This cyclotron was used in one of the first attempts to treat cancer. Shown with Paul Aebersold (standing) and Bill Brobeck as patient.Cooksey 1-14 (nitrate), September 20, 1938.

XBD200907-00400 -- The 37-inch cyclotron accelerated deuterons to 8 MeV and alpha particles to 16 MeV. It was also used to create radio isotopes and the first artificial element, technetium. This cyclotron was used in one of the first attempts to treat cancer. Cooksey label: Cancer Room, note proton snout. Cooksey 1-10 (nitrate), September 20, 1938.

XBD200907-00401 -- Paul Aebersold, standing.Cooksey 3-15 (nitrate), September 26, 1938.

XBD200907-00402 -- Lampros, the first patient to be treated with neutron beam. Cooksey Label: Lampross, seated. Cooksey 3-18 (nitrate), September 26, 1938.

XBD200907-00403 -- Lampros, being prepared for treatment with neutron beam. Cooksey label: Lampross. Cooksey 3-19 (nitrate), September 26, 1938. See also XBB707-2938

XBD200907-00404 -- Franz N.D. Kurie with 60-inch cyclotron. Cooksey 4-33 (nitrate), April 1, 1938.

XBD200907-00405 -- 60-inch cyclotron coil installation with unidentified individual. Cooksey 4-21 (nitrate), April 1, 1938.

XBD200907-00406 -- 60-inch cyclotron with William Brobeck (second from right) and unidentified individuals. Damaged negative . Cooksey 4-27 (nitrate), April 1, 1938.

XBD200907-00407 -- 60-inch cyclotron with Stamper and Kaler. Cooksey 4-30 (nitrate), April 1, 1938.

XBD200907-00408 -- 60-inch cyclotron with Stamper and Kaler. Cooksey 4-31 (nitrate), April 1, 1938.

XBD200907-00409 -- 60-inch cyclotron with Franz N.D. Kurie and Edwin McMillan. Cooksey 4-

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34 (nitrate), April 1, 1938.
XBD200907-00410 -- John Lawrence standing in lab coat. Cooksey 3-16 (nitrate)
XBD200907-00411 -- Robert L. Thornton with 27-inch cyclotron Michigan. Damaged negative. Cooksey 7-5 (nitrate), April 22, 1938.
XBD200907-00412 -- Van Voorhis and Paul Aebersold. Cooksey 5-40 (nitrate), May 1, 1938.
XBD200907-00413 -- Paul Aebersold standing on crates at 60-inch cyclotron. Cooksey 5-33 (nitrate), May 1, 1938.
XBD200907-00414 -- Equipment labeled: 60-inch Cyclotron Vacuum Chamber Wall, University of California, Radiation Laboratory, William Brobeck (left). Cooksey 6-33 (nitrate), May 1, 1938.
XBD200907-00415 -- Ernest "Ernie" C. Pollard with cyclotron at Yale. Cooksey 7-31 (nitrate), May 2, 1938.
XBD200907-00416 -- William Brobeck and Arthur H. Snell at Berkeley Steel Construction 60-inch cyclotron. Cooksey 8-14 (nitrate), March 1, 1938.
XBD200907-00417 -- Berkeley Steel Construction 60-inch cyclotron. Cooksey 8-13 (nitrate), March 1, 1938.
XBD200907-00418 -- Unidentified individuals at 60-inch cyclotron magnet yoke. Cooksey 8-2 (nitrate), March 1, 1938.
XBD200907-00419 -- Unidentified workmen at 60-inch cyclotron magnet yoke. Cooksey 8-3 (nitrate), March 1, 1938.
XBD200907-00420 -- Unidentified workmen at 60-inch cyclotron magnet yoke. Cooksey 8-42 (nitrate), March 1, 1938.
XBD200907-00421 -- D.C. Kalbfell, Martin Kamen, Paul Aebersold, and Donald Cooksey in front of 60-inch cyclotron. Cooksey 11-9 (nitrate), March 1, 1938.
XBD200907-00422 -- D. Corson with 60-inch cyclotron tanks. Cooksey 12-2 (nitrate), January 18, 1939.
XBD200907-00423 -- L. Jackson Laslett at 60-inch cyclotron with tank out. Cooksey 12-13 (nitrate), January 18, 1939.
XBD200907-00424 -- Ed McMillan with 60-inch cyclotron and tank. Cooksey 12-17 (nitrate), January 18, 1939.
XBD200907-00425 -- Donald Cooksey and William Brobeck battling in front of 60-inch cyclotron. Cooksey 12-19 (nitrate), January 18, 1939.
XBD200907-00426 -- Donald Cooksey and William Brobeck with 60-inch cyclotron. Cooksey 12-20 (nitrate), January 18, 1939.
XBD200907-00427 -- Ernest Orlando Lawrence with wife, Molly and children, Eric and Margaret on stoop of Crocker Lab. Cooksey 12-29 (nitrate), January 18, 1939.
XBD200907-00428 -- Ernest Orlando Lawrence with wife, Molly and children, Eric and Margaret on stoop of Crocker Lab. Cooksey 12-32 (nitrate), January 18, 1939.
XBD200907-00429 -- Ernest Orlando Lawrence with wife, Molly and children, Eric and Margaret on stoop of Crocker Lab. Cooksey 12-36 (nitrate), January 18, 1939.
XBD200907-00430 -- D.C. Kalbfell (left) working on 60-inch cyclotron tank. Cooksey 13-23 (nitrate), January 18, 1939.
XBD200907-00431 -- The rf power cavity for the 60-inch cyclotron with D.C. Kalbfell. Cooksey 13-24 (nitrate), Feburary 6, 1939.
XBD200907-00432 -- Thornton (back to camera) , Ernest Orlando Lawrence, and D.C. Kalbfell at 60-inch cyclotron tank. Cooksey 13-30 (nitrate), Feburary 6, 1939.
XBD200907-00433 -- 60-inch cyclotron magnet at right with associated equipment. Cooksey 13-40 (nitrate), Feburary 6, 1939.

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XBD200907-00434 -- D.C. Kalbfell standing by the cover of the dees (D's) with water cooling tubes, 60-inch cyclotron. Cooksey 14-20 (nitrate), Feburary 15, 1939.
XBD200907-00435 -- Cover of the dees (D's) with water cooling tubes, 60-inch cyclotron. Cooksey 14-21 (nitrate), Feburary 15, 1939.
XBD200907-00436 -- Equipment related to the 60-inch cyclotron with scale (possibly electrical feedthrough.) Cooksey 14-23 (nitrate), Feburary 15, 1939.
XBD200907-00437 -- The 37-inch cyclotron accelerated deuterons to 8 MeV and alpha particles to 16 MeV, and used to create radio isotopes and the first artificial element, technetium. Cooksey 24-31 (nitrate), September 1, 1935.
XBD200907-00438 -- 60-inch cyclotron magnet. Cooksey 14-28 (nitrate), Feburary 15, 1939.
XBD200907-00439 -- William Farley and John Backus behind 60-inch cyclotron vacuum chamber. Cooksey 14-30 (nitrate), Feburary 15, 1939.
XBD200907-00440 -- Donald Cooksey beside 60-inch cyclotron vacuum chamber. Cooksey 14-31 (nitrate), Feburary 15, 1939.
XBD200907-00441 -- William Farley working on 60-inch cyclotron. Cooksey 14-35 (nitrate), Feburary 15, 1939.
XBD200907-00442 -- 60-inch cyclotron looking into vacuum chamber. Cooksey 14-39 (nitrate), Feburary 15, 1939.
XBD200907-00443 -- 60-inch cyclotron looking into vacuum chamber. Cooksey 14-40 (nitrate), Feburary 15, 1939.
XBD200907-00444 -- Assembly of 60-inch cyclotron tanks RF system. Cooksey 14-44 (nitrate), Feburary 15, 1939.
XBD200907-00445 -- 60-inch cyclotron tanks. Cooksey 14-3 (nitrate), Feburary 1, 1939.
XBD200907-00446 -- William Brobeck (left) and Corson (right) with 60-inch cyclotron tanks. Cooksey 14-6 (nitrate), Feburary 1, 1939.
XBD200907-00447 -- Lab setup with rectifiers. Damaged negative. Cooksey 15-20 (nitrate), March 1, 1939.
XBD200907-00448 -- 60-inch dee (D) on cart. Cooksey 15-22 (nitrate), March 1, 1939.
XBD200907-00449 -- Paul Aebersold at control panel at 60-inch cyclotron. Cooksey 15-25 (nitrate), March 1, 1939.
XBD200907-00450 -- Paul Aebersold at control panel at 60-inch cyclotron. Cooksey 15-23 (nitrate), March 1, 1939.
XBD200907-00451 -- Donald Cooksey at control panel at 60-inch cyclotron. Cooksey 15-27 (nitrate), March 1, 1939.
XBD200907-00452 -- John Backus at control panel at60-inch cyclotron. Cooksey 15-28 (nitrate), March 1, 1939.
XBD200907-00453 -- Robert Thornton at control panel at 60-inch cyclotron. Cooksey 15-29 (nitrate), March 1, 1939.
XBD200907-00454 -- Robert Marshak at control panel at 60-inch cyclotron. Cooksey 15-30 (nitrate), March 1, 1939.
XBD200907-00455 -- 60-inch cyclotron "spider." Cooksey 15-31 (nitrate), March 1, 1939.
XBD200907-00456 -- Mayor Rossi and Charles Seymour. Cooksey 15-34 (nitrate), March 1, 1939.
XBD200907-00457 -- Jim Moulton, Charles Seymour, and Mayor Rossi at the St Francis Hotel in San Francisco. Cooksey 15-37 (nitrate), March 1, 1939.
XBD200907-00458 -- Luis Alvarez, Charles Seymour, and Ernest Orlando Lawrence in front of 60-inch n cyclotron. Cooksey 15-38 (nitrate), March 16, 1939.
XBD200907-00459 -- Donald Cooksey, Charles Seymour, and Ernest Orlando Lawrence in front of

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60-inch cyclotron. Cooksey 15-40 (nitrate), March 16, 1939.
XBD200907-00460 -- John Lawrence. Cooksey 15-44 (nitrate), March 16, 1939.
XBD200907-00461 -- 27 1/2-inch cyclotron beam out. Cooksey 17-6 (nitrate), September 25. 1936. See also: Cooksey 756
XBD200907-00462 -- 27 1/2-inch cyclotron beam out. Cooksey 17-7 (nitrate), September 25. 1936. See also: Cooksey 757
XBD200907-00463 -- Lampi and Paul Aebersold at desk. Cooksey 17-9 (nitrate), September 25. 1936.
XBD200907-00464 -- Miss Condit (?) Cooksey 17-14 (nitrate), September 25. 1936.
XBD200907-00465 -- John H. Lawrence at desk. Cooksey 17-13 (nitrate), September 25. 1936. See also: XBD9606-02745.TIF for similar image.
XBD200907-00466 -- Lampi and Paul Aebersold with notes. Cooksey 17-19 (nitrate), September 25. 1936
XBD200907-00467 -- Dissected mouse. Cooksey 17-20 (nitrate), September 25. 1936.
XBD200907-00468 -- 37-inch cyclotron accelerated deuterons to 8 MeV and alpha particles to 16 MeV, also used to create radio isotopes and the first artificial element, technetium. Cooksey 18-2 (nitrate), October 13, 1937
XBD200907-00469 -- 37-inch cyclotron. Cooksey 18-9 (nitrate), October 13, 1937.
XBD200907-00470 -- 37-inch cyclotron with components. Cooksey 18-10 (nitrate), October 13, 1937.
XBD200907-00471 -- 37-inch cyclotron. Cooksey 18-1 (nitrate), October 13, 1937.
XBD200907-00472 -- 37-inch cyclotron. Cooksey 18-3 (nirate), October 13, 1937.
XBD200907-00473 -- Bill Brobeck. Cooksey 18-8 (nitrate), October 13, 1937.
XBD200907-00474 -- 37-inch plywood cyclotron. Cooksey 19-3 (nitrate), November 1, 1937.
XBD200907-00505 -- David Sloan with owl. See also XBB 6808-4746.
XBD200907-00506 -- Lab set up with sodium from Joseph Gilbert Hamilton's radiosodium experiment. January 1939. See also XBB 6808-4749.
XBD200907-00507 -- Joseph Gilbert Hamilton's radiosodium experiment lab set up with controls. January 1939. See also XBB 6808-4751 (FMP record missing).
XBD200907-00508 -- Joseph Gilbert Hamilton's radiosodium experiment lab set up. January 1939. See also XBB 6808-4752 (FMP record missing).
XBD200907-00509 -- Joseph Gilbert Hamilton's radiosodium experiment lab set up. January 1939. See also XBB 6808-4753(FMP record missing).
XBD200907-00510 -- Joseph Gilbert Hamilton with radiosodium experiment equipment. January 1939. See also XBB 6808-4755(FMP record missing).
XBD200907-00511 -- Joseph Gilbert Hamilton with radiosodium experiment equipment. January 1939. See also XBB 6808-4757(FMP record missing).
XBD200907-00512 -- Robert Marshak (right), a scientist and author of Menson Physics, who volunteered to drink radiosodium. Joseph Gilbert Hamilton at controls. January 1939. See also XBB 6808-4759(FMP record missing).
XBD200907-00513 -- Joseph Gilbert Hamilton radiosodium experiment. January 1939. See also XBB 6808-4763(FMP record missing).
XBD200907-00514 -- Dick Connell (center) and Donald Cooksey with camera. Early 1940s. See also XBB 7302-710.
XBD200907-00566 -- 37-inch plywood cyclotron frame. Cooksey 19-14 (nitrate), November 1, 1937.
XBD200907-00567 -- 37-inch plywood cyclotron form. Cooksey 19-18 (nitrate), November 1,

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1937.
XBD200907-00568 -- Arthur H. Snell's oscillators. Cooksey 20-21 (nitrate), November 1, 1937.
XBD200907-00569 -- Wilfred Mann, Martin Kamen, Arthur H. Snell, and Franz Kurie. Cooksey 20-27 (nitrate), November 1, 1937.
XBD200907-00570 -- Wilfred Mann, Arthur H. Snell, Martin Kamen, and Franz N.D. Kurie. Cooksey 20-28 (nitrate), November 1, 1937.
XBD200907-00571 -- Arthur H. Snell and Wilfred Mann walking on the U.C. Berkeley campus. Cooksey 20-25 (nitrate), November 1, 1937.
XBD200907-00572 -- Arthur H. Snell and Wilfred Mann in conversation on the U.C. Berkeley campus. Cooksey 20-26 (nitrate), November 1, 1937.
XBD200907-00573 -- Arthur Snell, Wilfred Mann, Franz N.D.Kurie, Martin Kamen, and Edwin McMillan. Cooksey 20-30 (nitrate), November 1, 1937.
XBD200907-00574 -- Charles Litton working on a glass blowing lathe of his design which revolutioized the vacuum tube industry. Founder of Litton Industries. Cooksey 21-1 (nitrate), November 16, 1937.
XBD200907-00575 -- First "snout" to bring beam out of magnetic field. Associated individuals Edwin McMillan, Luis Alverez and Arthur H. Snell, not pictured. Cooksey 21-9 (nitrate), November 16, 1937.
XBD200907-00576 -- First "snout" to bring beam out of magnetic field. Associated individuals Edwin McMillan, Luis Alverez and Arthur H. Snell, not pictured. Cooksey 21- 4 (nitrate), November 16, 1937.
XBD200907-00577 -- Bill Brobeck and Reynolds looking at coils. Cooksey caption: First coil wound Jan 31st for Japan, Feb 2nd shorts found, Feb second completed rewinding Ist coil. Our Ist coil started April 13th - finished- delivered may 19th. Cooksey 22 - 19 (nitrate), April 13, 1938.
XBD200907-00578 -- Bill Brobeck, Reynolds, and Sagene looking up from coils. Cooksey caption: First coil wound Jan 31st for Japan, Feb 2nd shorts found, Feb second completed rewinding Ist coil. Our Ist coil started April 13th - finished- delivered may 19th. Cooksey 22 - 20 (nitrate), April 13, 1938.
XBD200907-00579 -- Sagene, Bill Brobeck, and unnamed individuals looking at plans. Cooksey caption: First coil wound Jan 31st for Japan, Feb 2nd shorts found, Feb second completed rewinding Ist coil. Our Ist coil started April 13th - finished- delivered may 19th. Cooksey 22 - 22 (nitrate), April 13, 1938.
XBD200907-00580 -- Workmen by coil. Cooksey caption: First coil wound Jan 31st for Japan, Feb 2nd shorts found, Feb second completed rewinding Ist coil. Our Ist coil started April 13th - finished- delivered may 19th. Cooksey 22 - 25 (nitrate), April 13, 1938.
XBD200907-00581 -- Bill Brobeck (left) l ooking at plans. Cooksey caption: First coil wound Jan 31st for Japan, Feb 2nd shorts found, Feb second completed rewinding Ist coil. Our Ist coil started April 13th - finished- delivered may 19th. Cooksey 22 - 26 (nitrate), April 13, 1938.
XBD200907-00582 -- Sagene (second from left), William Brobeck Brobeck, and Reynolds (right) looking at plans. Cooksey caption: First coil wound Jan 31st for Japan, Feb 2nd shorts found, Feb second completed rewinding Ist coil. Our Ist coil started April 13th - finished- delivered may 19th. Cooksey 22 - 27 (nitrate), April 13, 1938.
XBD200907-00583 -- Edwin McMillan looking at coil. Cooksey caption: First coil wound Jan 31st for Japan, Feb 2nd shorts found, Feb second completed rewinding Ist coil. Our Ist coil started April 13th - finished- delivered may 19th. Cooksey 22 - 32 (nitrate), April 13, 1938.
XBD200907-00584 -- Dissected mouse, lukemia research. Cooksey 22 - 6 (nitrate), January 1, 1938.

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XBD200907-00585 -- Bill Brobeck (right) working on drawings. Cooksey 22 - 9 (nitrate), January 1, 1938.
XBD200907-00586 -- Arthur H. Snell writing in notebook. Cooksey 23-8 (nitrate), January 30, 1938.
XBD200907-00587 -- Quackenbush in machine shop. Damaged negative. Cooksey 23-3 (nitrate), January 30, 1938.
XBD200907-00588 -- Oscillator, experimental set-up by Winfield Salisbury. Cooksey 23-6 (nitrate), January 30, 1938. Damaged negative.
XBD200907-00589 -- Dottie Kurie at typewriter. Damaged negative. Cooksey 23-21 (nitrate), January 30, 1938.
XBD200907-00590 -- Dee (D) accelerator component. Cooksey 24-1 (nitrate), September 1, 1935.
XBD200907-00591 -- The 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Cooksey 24-11 (nitrate), September 1, 1935.
XBD200907-00592 -- The 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Cooksey 24-12 (nitrate), September 1, 1935.
XBD200907-00593 -- The 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Cooksey 24-15 (nitrate), September 15, 1935.
XBD200907-00594 -- Livingood and Lehmann working on the 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Cooksey 24-30 (nitrate), September 1, 1935.
XBD200907-00595 -- Krause and Lehmann working on the 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Cooksey 24-31 (nitrate), September 1, 1935
XBD200907-00596 -- Krause, Donald Cooksey, Livingood, and Lehmann with the 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Cooksey 24-32 (nitrate), September 1, 1935.
XBD200907-00597 -- Kurie and Livingood working on the 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Cooksey 24-33 (nitrate), September 1, 1935.
XBD200907-00598 -- The 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Cooksey 24-27 (nitrate), September 1, 1935.
XBD200907-00599 -- The 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Cooksey 25-5 (nitrate), September 1, 1935.
XBD200907-00600 -- The 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Cooksey 25-6 (nitrate), September 1, 1935.
XBD200907-00601 -- The 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions. Cooksey 25-10 (nitrate), September 1, 1935.
XBD200907-00602 -- L. Emo seated. Cooksey 26-2 (nitrate), November 1, 1936.
XBD200907-00603 -- Franz N.D. Kurie and the 27-inch cyclotron tank #2 in operation from 1932 to 1936, accelerated deuterons at 4.8 MeV for the investigation of deuteron-nucleus interactions.

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Note two deflections. Cooksey 27-0 (nitrate), June 1, 1936.
XBD200907-00604 -- Sid Barnes at Rochester Lab with equipment. Cooksey 27-6 (nitrate), June 1, 1936.
XBD200907-00605 -- Franz N.D. Kurie (standing), Arthur H. Snell (laying down) and others at Trinity River. Cooksey 27-16 (nitrate), June 1, 1936.
XBD200907-00606 -- Franz N.D. Kurie (right), Arthur H. Snell (second from right) and others on Pickets Peak in Trinity County. Cookesy caption: Ford I drove out for Franz in 1936 (May). Cooksey 27-28 (nitrate), June 1, 1936.
XBD200907-00607 -- Double donut by Bob Sihlis. Cooksey 27-30 (nitrate), June 1, 1936.
XBD200907-00608 -- Miss Condit writing on Donald Cooksey's shoulder. Cooksey 29-0 (nitrate), January 1, 1937.
XBD200907-00609 -- Maurice E. Nahurias with 37-inch can at Pelton Water Wheel Company. Cooksey 29-14 (nitrate), January 1, 1937.
XBD200907-00610 -- 37-inch cyclotron can. Cooksey 29-15 (nitrate), January 1, 1937.
XBD200907-00611 -- Luis Alvarez with Lab setup (possibly associated with the 37-inch cyclotron) Cooksey 30-10 (nitrate), April 1, 1937.
XBD200907-00612 -- Lab setup (possibly associated with the 37-inch cyclotron). Cooksey 30-12 (nitrate), April 1, 1937.
XBD200907-00613 -- Cloud Chamber set-up designed by Luis Alvarez used between the pole pieces of the 27-inch cyclotron by Alvarez and Brobeck. Cooksey 30-16 (nitrate), April 1, 1937.
XBD200907-00614 -- Insertion of Dees (D's) into 60-inch magnet. Cooksey 31-9 (nitrate), April 1, 1939.
XBD200907-00615 -- Ernest Orlando Lawrence (right) and two unidentified individuals at 60-inch cyclotron tanks. Cooksey 31-11 (nitrate), April 1, 1939.
XBD200907-00616 -- Ernest Orlando Lawrence (holding papers), unidentified individual, W. Sailsbury, and Luis Alvarez after completion of 60-inch cyclotron. Cooksey 31-17 (nitrate), April 1, 1939.
XBD200907-00617 -- Sam Simmons, associated with the 60-inch cyclotron. Cooksey 31-29 (nitrate), April 1, 1939.
XBD200908-00701 -- 60-inch cyclotron. 2-inch lead wall, medical physics with Bernard Harvey. November 13 1939.
XBD200908-00702 -- 60-inch cyclotron neutron port being fitted by Bernard Harvey.
XBD200908-00703 -- Bill Stamper with 27-inch cyclotron tank #1 and magnet, 1932.
XBD200908-00704 -- 27-inch cyclotron tank #1,1932.
XBD200908-00705 -- 27-inch cyclotron tank #1 and magnet,1932.
XBD200908-00706 -- 27-inch cyclotron with magnet.
XBD200908-00707 -- 27-inch cyclotron with magnet.
XBD200908-00708 -- 27-inch cyclotron with magnet,1932.
XBD200908-00709 -- William Salisbury with 60-inch cyclotron.
XBD200908-00710 -- Carl G. Lawerence, Ernest Orlando Lawrence's and John Lawrence's father.
XBD200908-00711 -- Prof. Victor Spitsyn, Director of Instutute of Physical Science, Russian visitor 10/20/1960.
XBD200908-00712 -- Prof. Victor Spitsyn, Director of Instutute of Physical Science shaking hands with Ernest Orlando Lawrence 10/20/1960. Ernest Orlando Lawrence recieving the first Sylvauns Thayer Award in 1958, an award that is given each year by the United States Military Academy at West Point. The Thayer Award, established in honor of Col. Sylvanus Thayer, 'Father of the Military Academy,' is presented to an outstanding citizen whose service and accomplishments in the national

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interest exemplify the Military Academy motto, "Duty, Honor, Country."
ZBD200908-00713 -- Joseph Gilbert Hamilton, the first to work out the processes for the use of radioisotopes in nuclear medicine. Shown here working with lab mice, radiosodium experiment.
XBD200908-00714 -- David Kabfell working at port, 1937-1938 (ORL).
ZBD200908-00715 -- Joseph Gilbert Hamilton, the first to work out the processes for the use of radioisotopes in nuclear medicine. He worked on the radiosodium experiment.
XBD200908-00717 -- Franz N. D. Kurie working on dees (D's) of 27-inch cyclotron tank #3.
XBD200908-00718 -- 27-inch cyclotron tank #2.
XBD200908-00719 -- 37-inch cyclotron tank #4,1937.
XBD200908-00720 -- F.S. Van Voorhis with 37-inch cyclotron tank #4, January 1938.
ZBD200908-00721 -- Ernest Orlando Lawrence pointing towards the target chamber of the 37-inch cyclotron.
XBD200908-00722 -- S.N. Van Voorhis (foreground), David Kalbfell, and Donald Cooksey with 27-inch cyclotron.
XBD200908-00727 -- University of California Hospital, San Franciso. David Sloan X-ray tube and 300kw oscillator, 1933.
XBD200908-00728 -- University of California Hospital, San Franciso. David Sloan X-ray tube and 300kw oscillator, 1933.
XBD200908-00729 -- David Sloan X-ray tube.
XBD200908-00730 -- David Sloan and his X-ray tube.
XBD200908-00733 -- 27-inch cyclotron oscillator, 1937. See also XBB766-8055.
XBD200908-00734 -- Possible electrical feedthrough associated with 60-inch cyclotron. Cooksey 13-44 (nitrate)
XBD200908-00735 -- 27-inch cyclotron tank #2, fall,1935. See also Cooksey 751.
XBD200908-00736 -- 60-inch cyclotron with tank and dee (D) in foreground. See also Cooksey 15-2 (nitrate).
XBD200908-00739 -- John Lawrence in his lab. He became interested in the biological effects of neutrons during a 1935 visit to Berkeley, and soon joined his brother's team. Cooksey 17-12 (nitrate).
XBD200908-00740 -- Lampi, Miss. Condit, and Paul Aebersold at desk. Cooksey 17-11 (nitrate), September 25. 1936.
XBD200908-00741 -- Neutron rabbit with back shaved, Radiation Laboratory experiments. Cooksey 2-35. See also blackboard cartoon of rabbit's response, XBD200908-00742.TIF, September 23, 1938.
XBD200908-00742 -- Neutron rabbit blackboard cartoon, Radiation Laboratory experiments. Cooksey 5-38. See also rabbit with back shaved
XBD200908-00741.TIF, September 23, 1938
XBD200908-00754 -- Mrs. Jackson Laslett (right) sitting on top of of 60" cyclotron magnet yoke in,1938. Cooksey 8-9 (nitrate)
XBD200908-00755 -- Installation of the support structure for the 60-inch cyclotron magnet, William Brobeck (right) looking on. Cooksey 8-31 (nitrate)
XBD200908-00756 -- Installation of the support structure for the 60-inch cyclotron magnet, Ernest Orlando Lawrence (right) looking on. Cooksey 8-26 (nitrate)
XBD200908-00757 -- Bill Brower working on dee (D), 60-inch cyclotron. Cooksey 14-9 (nitrate)
XBD200908-00758 -- 37-inch cyclotron target chamber from which target can be removed without loss of vacuum in main chamber. Cooksey 18-8 (nitrate)
XBD200908-00759 -- Edwin McMillan autograph

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XBD200909-00760 -- Ernest Orlando Lawrence seated. Cooksey 17-23, September 25, 1936.
XBD200909-00761 -- Electronic system designed by Dean (?) and later completely redesigned by Alvarez. Used in several of his experiments. For example, slow neutron beams, magnetic moment of the neutron, discovery that He3 was stable, and confirmation of the discovery of fission. Cooksey 30-14 (nitrate), April, 1937
XBD200909-00762 -- Periodic Table designed and kept up to date by Luis Alvarez. Radioactive isotopes were listed on round "tags" that were held up by hooks and could be replaced when new data became available. Cooksey 30-15 (nitrate), April, 1937.
XBD200909-00763 -- 27-inch cyclotron, tank 2 showing hole burnt in dees (D's). Cooksey 28-33 (nitrate), Fall, 1935. Negative missing
XBD200909-00764 -- Oscillator tube, 27-inch cyclotron. Cooksey 28-7(nitrate),1936. Note on original that "...gave film 28 to EOL."
XBD200909-00765 -- Lehmann working in lab assocated with 27-inch cyclotron. Cooksey 28-38(nitrate),1935. Negative missing]

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Folder 3 XBD 9606-0257 through XBD 200908-00732

[XBD9606-02527 -- David Sloan and J.J. Livingood work on the Sloan x-ray tube built at the University of California Hospital in San Francisco in 1932-33. With this machine Lawrence's backers hoped to break the stranglehold of the large electrical manufacturers on the high-voltage x-ray tube market.

XBD9706-02525 -- Early Radiation Laboratory staff framed by the magnet for the 60-inch cyclotron in 1938. Front row, left to right: John H. Lawrence, Robert Serber, Franz N.D. Kurie, Raymond T. Birge, Ernest O. Lawrence, Donald Cooksey, Arthur H. Snell, Luis W. Alvarezz, Philip H. Abelson. Second row: John Backus, Wilfred B. Mann, Paul C. Aebersold, Edwin M. McMillan, Ernest Lyman, Martin D. Kamen, D.C. Kalbfell, W.W. Salisbury. Back row: Alex S. Langsdorf, Jr., Sam Simmons, Joseph G. Hamilton, David H. Sloan, J. Robert Oppenheimer, William Brobeck, Robert Cornog, Robert R. Wilson, Eugene Viez, J.J. Livingood.

XBD200903-00103 -- Artists conceptual drawing of David Sloan x-ray tube, 1934

XBD200903-00122 -- Staff of the Radiation Laboratory and those of the Physics Department closely associated with the work on the 60-inch cyclotron., taken September, 1938. First row (left to right): J.H. Lawrence, R. Serber, P.C. Aebersold, F.N.D. Kurie, R.T. Birge, E.O. Lawrence, D. Cooksey, A.H. Snell, L.W. Alverez, P. Abelson. Middle row: J.G. Backus, A. Langsdorf, J.G. Hamilton, S.J. Simmons, E.M. McMillan, R.R.Wilson, W.M. Brobeck, E.M. Lyman, J.J. Livingood. Back row: D.H. Slone, R. Corog, M.D. Kamen, W.B. Mann, J.R. Oppenheimer, E.S. Viez, D.C. Kalbfell, W.W. Silisbury.

XBD200907-00515 -- David Sloan X-ray tube in treatment room at U.C. Hospital in San Francisco.1934. See also XBB 7606-8035.

XBD200907-00516 -- David Sloan X-ray tube in treatment room at U.C. Hospital in San Francisco.1934. See also XBB 7606-8038 (FMP record missing).

XBD200908-00723 -- David Sloan X-ray tube,1933. See also XBB766-8041.

XBD200908-00724 -- David Sloan X-ray tube,1933. See also XBB766-8040.

XBD200908-00725 -- David Sloan and J.J. Livingood with Sloan X-ray tube,1933. See also XBB766-8042.

XBD200908-00726 -- David Sloan X-Ray tube, coil. See also XBB766-8039.

XBD200908-00731 -- X-ray of mice, perhaps associated with radiosodium experiments. See also XBB766-8063.

XBD200908-00732 -- Charting of Deposition of Radio Phosphorous in Tissues in Microcuries (bird study.) See also XBB766-8061]