

Ernest Orlando Lawrence Berkeley National Laboratory

Records Transmittal

Division	Department	Archives and Records Office Use Only
Directorate	Public Affairs	
Group		Filing Code
Creative Services Offices (CSO)/PhotoLab		ARO-6008
Location	46R0125	LBLN Accession Date
Transferee	Bailey, Marilee B	12/9/2010
Head of Department		FRC Accession No.
Pamela Patterson		

Records Title

Public Affairs Creative Services Office's PhotoLab's Historic Morgue Collection of Analog And Digital Photographs

Inclusive Date of Records

1944 1966

No of Containers

3 FRC Box

Brief description of records

AT NARA
 This accession provides photographic documentation of the early history of Lawrence Berkeley National Laboratory (LBLN). 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). The Morgue Collection is comprised of 4 X 5 Kodak film negatives. This is a discrete collection of images dated from 1944 through 1966 and all are attributed to Donald Cooksey unless otherwise noted.

Donald Cooksey (May 15, 1892 – August 19, 1977) 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 2 1/4 X 3 1/4 film.

Some key subject matter:

1. Early images of Ernest Orlando Lawrence
2. The first cyclotrons including 27- and 60-inch cyclotrons
3. Scientists awarded the Nobel Prize
4. Key personnel in early development of cyclotrons, bubble chamber
5. Early work on 184-inch cyclotron
6. Ernest Lawrence notes on cyclotron theory

This collection was selected as critical for digitization because of the following factors:

1. General degradation
2. Limited personnel to identify individuals and scientific apparatus.

The Morgue Collection was comprised of approximately 1,850 assets total, all of which were reviewed for permanent retention and transfer to the National Archives. Of that total 63 had been previously scanned and an additional 638 were scanned as part of the photographic review, digitization and transfer project from 2009 to 2010. The identification and transfer of 701 photographic assets is approximately 38% of the Morgue Collection.

For related records, see ARO-5878.

Materials

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 foresee no use of these records, I authorize their disposal.

Signature of Department Head

Date

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Division <input type="text" value="Directorate"/>	Department <input type="text" value="Public Affairs"/>	Filing Code ARO-6008
Group <input type="text" value="Creative Services Offices (CSO)/PhotoLab"/>		
Records Title <input type="text" value="Public Affairs Creative Services Office's PhotoLab's Historic Morgue Collection of Analog And Digital Photographs"/>		

Container **Of**

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- Box
- 1 XBD9606-02522.TIF -- First successful cyclotron. Morgue1944-28 (P-1)
 - XBD9606-02529.TIF -- From left: F.N.D. Kurie, Donald Cooksey, Edward McMillan, Ernest O. Lawrence, and Robert Thornton encouraging a beam in the 37-inch cyclotron. See also high resolution scan: XBD200904-00159.tif; Morgue 1958-8 (P-75)
 - XBD9606-02532.TIF -- Cornog's Robot, a product of downtime on the cyclotron, circa 1939, model unknown.
 - XBD9606-02533.TIF -- Luis Alvarez in his lab, just before his work leading to the identification of helium-3, circa 1937. Morgue 1966-11 (P-3) Cooksey 30-10. See also: High resolution version XBD200904-00161.
 - XBD9606-02535.TIF -- Joseph Hamilton (rear) and Robert Marshak (left) drinking radiosodium, January 1939. XBB6808-04762
 - XBD9606-02746.TIF -- The blackboard in the old Radiation Lab recorded many important moments, including the first beam from the 60-inch cyclotron (cropped). Cooksey 16, MORGUE 1944-77 (P-1). See also XBD200910-00903.TIF for complete image.
 - XBD9606-02749.TIF -- The first external cyclotron beam, obtained on March 26, 1936. The glow arises from the ionization of the air by the 5.8 MeV deuterons. Morgue 1944-35 (P-1)
 - XBD9606-02750.TIF -- Celebration at DiBiasi's restaurant in Albany, CA. Back row (left to right, standing): Bob Cornog, Ernest Lawrence, Luis Alvarez, Molly Lawrence, Emilio Segre; second row (seated): Jerry Alvarez, Betty Thornton, (standing) Paul Aebersold, Iva Dee Hiatt, Edwin McMillan, Bill Farley; first row: Donald Cooksey, Robert Thornton and Bob Sihlis (celebrant). Cooksey 54
 - XBD9606-02751.TIF -- Ernest Orlando Lawrence at the controls of the 37-inch cyclotron, 1938. Copy negative from California Monthly photo. Morgue 1958-8 (P-109)
 - XBD9606-02752.TIF -- Posing with the newly completed 60-inch cyclotron in the Crocker Laboratory are (left to right) Donald Cooksey, D. Corson, Ernest O. Lawrence, R. Thornton, J. Backus and W. Salisbury and (on top) L. Alvarez and E. McMillan. Morgue 1944-64 (P-2)
 - XBD9606-02753.TIF -- The Lab blackboard announced Ernest O. Lawrence's Nobel Prize. Morgue 1944-66 (P-1) Cooksey 95
 - XBD9606-02755.TIF -- The magnet was adapted for use in a huge mass spectrograph to test the feasibility of Lawrence's plan to separate the fissile, or explosive, part of natural uranium, U-235, from its much more plentiful companion isotope, U-238. Morgue 1944-98 (P-1)
 - XBD9606-02757.TIF -- Office of Scientific Research and Development (OSRD) party, S-1 committee at Bohemian Grove, September 13, 1942. Left to right: Harold C. Urey, Ernest O. Lawrence, James B. Conant, Lyman. J. Briggs, E. V. Murphree, and A. H. Compton. Morgue 1958-8 (P-69)
 - XBD9606-02763.TIF -- Glenn Seaborg adjusts a Geiger-Muller counter during his search for plutonium at the Radiation Laboratory. Morgue 1956-6 (P-30)
 - XBD9606-02768.TIF -- Dick Lee's machine shop crew at Lawrence Berkeley Laboratory during World War II. Morgue 1944-73 (P-1)
 - XBD9606-02770.TIF -- General Groves (left) and University of California, Berkeley President Robert Gordon Sproul (right) admire the Medal of Merit awarded to Ernest Orlando Lawrence in March, 1946 for his wartime achievements. Morgue 1958-8 (P-30)
 - XBD9606-02884.TIF -- The 184-inch cyclotron operated for the first time on Nov. 1, 1946. In the foreground, left to right are Robert Thornton, Ernest Orlando Lawrence, Edwin McMillan and James Vale. Morgue 1946-11 (P-2)
 - XBD9606-02894.TIF -- Robert Serber, Laboratory theorist, writing for a photographer shortly after the announcement of the discovery of machine-made mesons by Gardner and Lattes in February 1948. Morgue 1948-3 (P-1)

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XBD9606-02896.TIF -- C.M.G. Lattes (left) and E. Gardner with the nuclear emulsion positioning apparatus at the 184-inch cyclotron, 1948. Morgue 1948-4 (P-5). Associated with the discovery of machine-made mesons February, 1948. Morgue 1948-4 (P-5)

XBD9606-02976.TIF -- Bubble chamber inventor, Donald Glaser examines a xenon bubble chamber built at Lawrence Berkeley Laboratory. Photo taken April 7, 1960. Morgue 1960-7 (P-4)

XBD9606-02980.TIF -- Standing in front of the 72-inch bubble chamber (left to right): Paul Hernandez, Dr. Edwin McMillan, Dr. Luis Alvarez, and Don Gow examining a photograph showing a nuclear event in the new chamber. Morgue 1959-46 (P-1).

XBD9607-03042.TIF -- Dr. Wilson Powell (center) with his propane bubble chamber in the Bevatron, Building 51. Larry Oswald (left) and Bill Fowler looking on. Morgue 1957-7 (P-3)

XBD9607-03043.TIF -- International Conference on High Energy Physics, 1966. Left to right: Edwin McMillan, Val Fitch, Murray Gell-Mann, Victor Weisskopf, Geoff Chew and Sidney Drell. Morgue 1966-149

XBD9607-03046.TIF -- Physicist Angelina Galtieri, right consults log with operator in control room of the Bevatron. Photo taken November 13, 1963. Morgue 1963-39 (P-1)

XBD9607-03047.TIF -- Portrait of Edwin McMillan, Director of Lawrence Berkeley Laboratory after the death of Ernest Orlando Lawrence in 1958. Morgue 1958-10 (P-5)

XBD9607-03137.TIF -- Lawrence Berkeley Laboratory's scientific and technical staff arranged within and on top of the magnet of the 60-inch cyclotron. Morgue 1944-51 (P-4) see also 8 X 10 neg

XBD9607-03334.TIF -- Emilio Segre at work in 1954. He and Owen Chamberlain shared the Nobel Prize in physics in 1959 for their discovery of the antiproton. Morgue 1959-14 (P-2)

XBD9607-03528.TIF -- Molly Lawrence, the two Lawrence children and Ernest Orlando Lawrence, January 18-22, 1939. Morgue 1958-8 (P-52) and Cooksey nitrate 12-35

XBD9607-03531.TIF -- Dr. Luis Alvarez taken in Building 46 on July 1, 1966. Morgue 1966-76 (P-2)

XBD9607-03532.TIF -- Dr. Melvin Calvin, October 26, 1961. Morgue 1961-20 (P-3)

XBD9607-03533.TIF -- Dr. Donald Glaser with xenon bubble chamber, taken in the Bevatron on April 7, 1960. Morgue 1960-7 (P-1)

XBD9607-03535.TIF -- Dr. Edwin McMillan with wooden model of synchrotron, 1946. Morgue 1946-13 (P-1)

XBD9607-03536.TIF -- Glenn T. Seaborg standing in front of the Periodic Table with the Ion Exchanger illusion column of Actinide Elements, May 19, 1950. See also XBD9811-03038.TIF for similar. Morgue 1956-6 (P-6)

XBD9607-03537.TIF -- Dr. Emilio Segre, April 28, 1954. Morgue 1959-14 (P-1)

XBD9607-03549.TIF -- Ceremony on the University of California, Berkeley campus, following the receipt of the Nobel Prize, Ernest Orlando Lawrence is congratulated by his family. From left to right: Mrs. Molly Lawrence; Gunda Lawrence, his mother; John, his brother; and Carl Lawrence, his father. The war prevented his trip to Stockholm. Morgue 1958-8 (P-26)

XBD9607-03551.TIF -- Portrait of Dr. Melvin Calvin, Nobel Laureate, professor of physics, and Director of the Chemical Biodynamics Laboratory at Lawrence Berkeley Laboratory in his photosynthesis laboratory. Dr. Calvin was awarded the Nobel Prize in 1961 for elucidating the chemistry of the photosynthetic process. Photo taken February 13, 1962. Credit California Monthly magazine. Morgue 1962-11 (P-1)

XBD9607-03552.TIF -- Portrait of Dr. Donald Glaser, awarded the Nobel Prize in physics in 1960 for his invention of the bubble chamber. Morgue 1960-25 (P-1)

XBD9607-03553.TIF -- Portrait of Edwin McMillan taken August 7, 1958. Morgue 1958-10 (P-6)

XBD9607-03555.TIF -- Dr. Edwin McMillan greeting President John F. Kennedy, March. 29, 1962.

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Governor Pat Brown is at far right. Morgue 1962-16 (P-1)

XBD9607-03556.TIF -- The March 1, 1940 Nobel Award ceremony for Ernest Orlando Lawrence at Wheeler Hall on the University of California, Berkeley campus. Awarding the prize is Swedish Consul General with U.C. President Robert Sproul looking on. The war prevented the trip to Stockholm. Morgue 1958-8 (P-25)

XBD9608-03584.TIF -- Dr. Glenn Seaborg and Dr. Edwin McMillan on the day they were notified that they had won the Nobel Prize, October 1951. Morgue 1951-2 (P-1)

XBD9608-03585.TIF -- Portrait of Dr. Owen Chamberlain, November 1955. Morgue 1955-1 (P-1)

XBD9608-03586.TIF -- Dr. Emilio Segre, May 1954. Morgue 1959-14 (P-6)

XBD9608-03587.TIF -- Nobel Prize press conference for Dr. Donald Glaser with Glenn Seaborg at left, November 1960. Morgue 1960-28 (P-4)

XBD9608-03588.TIF -- Dr. Melvin Calvin receiving the Nobel Prize at the Stockholm Concert Hall, 1961. Morgue 1961-35 (P-1)

XBD9608-03589.TIF -- Dr. Glenn Seaborg in old plutonium laboratory, August 1962. Morgue 1962-38 (P-3); CN 954

XBD9608-03590.TIF -- Dr. and Mrs. Edwin McMillan. Nobel Prize notification. Photo taken September 16, 1963. Morgue 1963-29 (P-3)

XBD9609-04451.TIF -- From left to right: Morris Pripstein, Joe Lannutti, John Poirier, Jan Button, and Phillippe Eberhard discuss a piece of apparatus used in the antilambda experiment at the 72-inch bubble chamber. Morgue 1959-53 (P-1)

XBD9609-04452.TIF -- Experiments on californium fission. Harry Bowman (top) and Stanley Thompson at the fission chamber. Morgue 1960-42 (P-1)

XBD9609-04453.TIF -- A moving picture is made for the National Aeronautics and Space Agency on the experimental work being done in bio-organic chemistry. The cameraman (left) photographs Dr. Christof Palm (right) and William Everette of the Linac Group (center), taken February 1961. Morgue 1961-44 (P-1)

XBD9609-04534.TIF -- Donner brain mapping. Dr. Edward Bennett, left with H. Morimoto and Marie Hebert measure enzyme activity in the brains of "bright" and "dull" rats.

XBD9609-04535.TIF -- Members of the Tobias group check the beam intensity for a "brain mapping" experiment. Left to right: John Lyman, Howard Chung, Nicholas Yanni, and Jean Luce. Morgue 1961-51 (P-2)

XBD9609-04536.TIF -- Updating the periodic table, Albert Ghiorso adds "Lw" in space 103; with codiscoverers Robert Latimer, Dr. Torbjorn Sikkeland, and Almon Larsh looking on. Morgue 1961-52 (P-1)

XBD9609-04537.TIF -- Element 103 (lawrencium) discoverers Isadore Perlman, Albert Ghiorso, Roberta Garrett and Edwin McMillan at an informal discovery celebration held at the HILAC. Morgue 1961-3 (P-19)

XBD9609-04539.TIF -- Technical photographers processing bubble chamber films. Mike Michaelis, left with Bob Smith and Philip Larrick, taken April 1961. Morgue 1961-54 (P-1)

XBD9609-04540.TIF -- Scanning technique demonstrated by Mattie Woodford, Powell Group film scanner, taken April 1961. Associated with pi-meson discovery. Morgue 1961-54 (P-2)

XBD9609-04541.TIF -- Scanning technique demonstrated by Penny Vedder, Barkas Group emulsion-plate scanner, taken April 1961. Associated with pi-meson discovery. Morgue 1961-54 (P-3)

XBD9609-04543.TIF -- Scanning technique demonstrated by Barry Barish and Richard Kurz, physicists from Helmholtz-Moyer Group, taken April 1961. Associated with pi-meson discovery. Morgue 1961-54 (P-4)

XBD9609-04544.TIF -- Franckenstein operator, Maggie Morley. analyzes events recorded at the

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propane bubble chamber, taken April 1961. Morgue 1961-54 (P-5)
 XBD9609-04547.TIF -- Analyzing samples, Dr. John Gofman and RN Erma Kovich take their turn at the X-ray spectrometer. Table in background lists blood serum levels for 66 elements to date. Morgue 1962-70 (P-1)
 XBD9609-04548.TIF -- Checking the evidence for rare pion decay are discoverers, left to right: Tom Elioff, Robert Bacastow, Rudy Larsen, Clyde Wiegand, and Tom Ypsilantis. Morgue 1962-84 (P-1)
 XBD9609-04549.TIF -- Flying Spot Digitizer with Jack Franck, left and Howard White demonstrate the Laboratory's first operational FSD model in Bldg. 50A, Room 2167. Photo taken August 1962. Morgue 1962-96 (P-2)
 XBD9609-04550.TIF -- Early model of Scanning-Measuring Projector (SMP) is shown with designers, left to right: Robert Hulsizer, Peter Davey, Luis Alvarez, Ron Zane, and Pete Schwemin. Photo taken August 1962. Morgue 1962-96 (P-3)
 XBD9609-04558.TIF -- Planning next step in Bio-Organic group's study of opium alkaloids. Project leader Henry Rapoport, second from left explores possible approaches with group members. Left to right: Robert Martin, Isamu Murakoshi, Masao Honjoh. Notations on blackboard show the hydropenanthrene sequence, demonstrated in earlier work by the group. Photo taken August 1962. Morgue 1962-97 (P-1).
 XBD9609-04561.TIF -- New evidence for the "eight-fold way" theory of strong interactions are, left to right: Sheldon Glashow, George Kalbfleisch, and Arthur Rosenfeld. Blackboard notation show how the newly discovered particle, the Y^*-1 , fits into an unfilled octet of the "eight-fold way" taken January 4, 1963. See also XBD201004-00278. Morgue 1963-127 (P-1).
 XBD9609-04563.TIF -- Helium-3 Activation Experiment. Thin aluminum foil containing one ten-trillionth of an ounce of oxygen molecules is removed from target holder by chemist, Samuel Markowitz, inventor of new trace analysis technique. Photo taken February 28, 1963. Morgue 1963-5 (P-1)
 XBD9609-04564.TIF -- Irradiation tube at 4.5 MeV linear accelerator. Shown with apparatus are three members of the research team which recently succeeded in synthesizing adenine (left to right) Doug Pounds, Richard Lemmon and Cyril Ponnampereuma. Photo taken May 23, 1963. Morgue 1963-16 (P-1)
 XBD9609-04744.TIF -- Tunsten specimen (in holder) inserted into the glass chamber of the field-ion microscope by S. Ranganathan of IMRD's Microscopy Laboratory. At left is Gareth Thomas, leader of the group that will operate the microscope. Photo taken November 2, 1965. Morgue 1965-39 (P-1)
 XBD9609-04771.TIF -- Spark chambers for Egyptian pyramid x-ray project near completion and ready for installation in Chephren's pyramid. Egyptian scientists F. El Bedewi and Ahmed Fakhry, who are co-directors of the project along with Lawrence Radiation Laboratory's Luis Alvarez, inspected the apparatus during a recent visit to the Hill. Shown are (left to right) Jerry Anderson, Dr. El Bedewi, Luis Alvarez, James Burkhard, Lauren Yazalino and Dr. Fakhry. Morgue 1966-95 (P-5).
 XBD9610-04895.TIF -- Lawrence Radiation Laboratory's team that reported the positive identification of two isotopes of element 104, Rutherfordium. Left to right: Matti Nurmia, Jim Harris, Kari and Pirkko Eskola, and Albert Ghiorso. XBB6903-01735
 XBD9702-00627.TIF -- On the 25th Anniversary of the discovery of plutonium (in the back from left to right) Glenn Seaborg, Arthur C. Wahl, Edwin McMillan, Undersecretary of the Interior Carver, and Howard Vesper attend dedication ceremony of Room 307, Gilman Hall as a National Historic Landmark on the University of California, Berkeley (UCB) campus. Morgue 1966-12 (P-22)
 XBD9703-00772.TIF -- Donner Laboratory scientist William Siri studying blood behaviour in humans at the high altitude biology laboratory at Chacoltaya Mountain in Bolivia, 17,000 feet above sea level. Morgue 1957-5 (P-1).

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XBD9703-00773.TIF -- Dr. Richard A. Carlson, in charge of clinical pituitary work, and Hal O. Anger (right), electronics engineer, prepare a patient for irradiation at the 184-inch cyclotron. Morgue 1958-23 (P-1) .

XBD9703-00775.TIF -- Left to right: Drs. Frank Asaro, Isadore Perlman and Frank Stephens set up a coincidence experiment at the alpha spectrometer. Morgue 1958-37 (P-1)

XBD9703-00777.TIF -- During the first International Conference on the Peaceful Uses of Atomic Energy in Geneva, Switzerland, Wulf Kunkel (Physics) explains to visitors a rotating-plasma device. In the foreground is the rotating-mercury analog. Morgue 1958-69 (P-3)

XBD9703-00779.TIF -- Dr. Isadore Perlman Associate Director of the Laboratory, and Head of the Laboratory's Chemistry Division. Morgue 1959-9 (P-2)

XBD9703-00780.TIF -- Portrait of physicist Dr. Marian Whitehead sitting at her desk. Her research is in strange-particle physics, using emulsion, counter and bubble chamber techniques. Morgue 1959-36 (P-1)

XBD9703-00781.TIF -- At the Nobel Prize press conference, Dr. Donald Glaser (right) is introduced to newspapermen by Glenn Seaborg (Chancellor of the University of California)1960. Morgue 1960-28 (P-5)

XBD9703-00783.TIF -- Portrait of Dr. Leo Brewer, Berkeley Inorganic Materials Laboratory and UC Professor of Chemistry, taken 10/5/1962. Morgue 1962-47 (P-1)

XBD9703-00784.TIF -- Portrait of Judith Golwyn Goldhaber THE MAGNET editor. Magnet 1961-53 (P-1)

XBD9703-00785.TIF -- A surprise party was given to honor Dr. Luis Alvarez (right) with secretary Ann McLellan on May 1, 1961, his 25th anniversary at Lawrence Berkeley Laboratory (LBL). Magnet, Vol. 5, No. 5, May, 1961. p. 2

XBD9703-00789.TIF -- Dr. Melvin Calvin at a press conference for his award of the Nobel Prize in Chemistry, 1961. Morgue 1961-22 (P-20)

XBD9703-00790.TIF -- Daniel Wilkes, manager of the UC Berkeley Public Information staff, has been appointed Assistant to the Director of LRL. The appointment, effective January 1, 1962, was announced by UC Berkeley Chancellor Edward W. Strong and LRL Director Edwin M. McMillan. Morgue 1961-32 (P-1)

XBD9703-00791.TIF -- Berkeley's Glaser physics group, under the direction of George Trilling, will be enlarged and will be known as the Trilling-Goldhaber group. Morgue 1962-25 (P-1)

XBD9703-00792.TIF -- Portrait of Gerson Goldhaber taken April 18, 1962. Morgue 1962-20 (P-1)

XBD9703-00794.TIF -- Portrait of Burton J. Moyer, Lawrence Radiation Laboratory senior scientist and physics research group leader, appointed chairman of UC's Physics Department in 1962. Morgue 1962-33 (P-1)

XBD9703-00795.TIF -- Berkeley's Eleanor Davisson last month celebrated her twentieth year of service at the Laboratory. Eleanor was administrative assistant to Ernest Lawrence until his death and now does the same job for Director Edwin McMillan. Photo taken February 12, 1963. Morgue 1963-4 (P-2)

XBD9703-00902.TIF -- Portrait of Business Manager and Managing Engineer, Wallace B. Reynolds, taken at his retirement July 28, 1965. Morgue 1965-26 (P-1).

XBD9703-00903.TIF -- Dr. Sulamith Goldhaber, wife of Gerson Goldhaber taken in June ,1966. Morgue 1966-87 (P-1)

XBD9703-00905.TIF -- Portrait of Gareth Thomas, associate professor of metallurgy of UC Berkeley and a group leader of Lawrence Radiation Laboratory's Inorganic Materials Research Division (IMRD) after receiving the Curtis W. McGraw Research Award for 1966. Photo taken March 31, 1966. Morgue 1966-18 (P-2)

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XBD9703-00906.TIF -- Portrait of physicist Harold P. Furth, Lawrence Radiation Laboratory's Sherwood Program, taken June 17, 1966. Morgue 1966-78 (P-1)

XBD9703-00908.TIF -- Lawrence Radiation Laboratory scientist John O. Rasmussen, senior staff member in Berkeley's Nuclear Chemistry Division and professor of chemistry, UC Berkeley, one of five U.S. nuclear scientists to receive the Ernest Orlando Lawrence Memorial Award for 1967. Morgue 1959-11 (P-1)

XBD9703-00909.TIF -- Portrait of Joseph A. Pask, UC professor of ceramic engineering and a member of Lawrence Radiation Laboratory's Inorganic Materials Research Division in Berkeley, selected to receive the John Jeppson Award. Photo taken May 17, 1966. Morgue 1966-46 (P-1)

XBD9703-00917.TIF -- Portrait of physicist Bruce Cork taken in June, 1966. Morgue 1966-84 (P-1)

XBD9703-01192.TIF -- Portrait of Professor Ernest Orlando Lawrence, December 2, 1954. Morgue 1958-8 (P-12)

XBD9703-01204.TIF -- Ernest Orlando Lawrence and his brother John Lawrence (rear) at control panel of 60-inch cyclotron shortly after it began operation in 1938. Morgue 1958-8 (P-17).

XBD9703-01205.TIF -- 60-inch cyclotron group: Donald Cooksey, D. Corson, Ernest O. Lawrence, Bob Thornton, Backus, W. Salisbury, Luis Alvarez, and Edwin McMillan. Morgue 1944-64 (P-1)

XBD9703-01206.TIF -- Glenn T. Seaborg in his lab in 307 Gilman Hall, on the University of California, UC Berkeley campus. Morgue 1962-38 (P-4); CN 955

XBD9703-01213.TIF -- The codiscoverers of nobelium (No, element 102) in the HILAC building. From left: Albert Ghiorso, Torbjorn Sikkeland, and John R. Walton (Glenn T. Seaborg absent) taken May 1, 1958. Morgue 1958-17 (P-1)

XBD9704-01413.TIF -- Joseph Hamilton with radio sodium experiment in Berkeley, California, January, 1939. XBB6808-04754

XBD9704-01421.TIF -- Meeting in the Radiation Laboratory on the University of California, Berkeley (UCB) campus to discuss the 184-inch cyclotron. Left to right: Ernest O. Lawrence, Arthur H. Compton, Vannevar Bush, James B. Conant, Karl T. Compton, and Alfred Loomis, March 29, 1940. Morgue 1958-8 (P-40).

XBD9704-01422.TIF -- Ernest O. Lawrence, Glenn T. Seaborg, and J. Robert Oppenheimer in early 1946 at the controls to the magnet of the 184-inch cyclotron, which was being converted from its wartime use to its original purpose as a cyclotron. Morgue 1946-12 (P-1)

XBD9704-01425.TIF -- Albert Ghiorso, Glenn T. Seaborg and Otto Hahn, University of California, Berkeley (UCB), November, 1955. XBB9011-09550

XBD9704-01426.TIF -- Glenn T. Seaborg and John F. Kennedy at Lawrence Berkeley Laboratory during Kennedy visit to UC Berkeley on Charter Day, March 23, 1962. Morgue 1962-16 (P-4)

XBD9704-01811.TIF -- Graduate student Luis Alvarez is shown in 1933 with Arthur Compton, with whom he worked on cosmic ray programs for his Ph.D. thesis at the University of Chicago. Morgue 1946-8 (P-1)

XBD9705-02158.TIF -- Tjorborn Sikkeland, Albert Ghiorso, and Robert Main at the Heavy-ion Linear Accelerator (Hilac). Morgue 1957-13 (P-2)

XBD9705-02159.TIF -- Synchrotron operation ends with lead physicist, Bob Kenney (right) and engineer, Rudy Johnson in the synchrotron control room. Morgue 1960-40 (P-1)

XBD9705-02161.TIF -- Discussing the cyclotron magnet (seen in the background) are Dr. Elmer Kelly, physicist in charge of the 88-inch cyclotron and Warren Dexter, who is electrical coordinator for the cyclotron project. Morgue 1960-102 (P-4)

XBD9705-02162.TIF -- 1500 man-hours of work were necessary to assemble these trimming coils that will be part of the new 88-inch cyclotron. Clockwise from left: Len Clevenger bends mineral-insulated cable, "Deck" Dietrich lays tubes that will carry cooling water, Ed Stuart tests the cables,

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and Walt Wenzel twists wires that hold a valley coil assembly in place. Morgue 1960-102 (P-5)
 XBD9705-02166.TIF -- Bob Smith, Hans Willax, and Elmer Kelly during the 88-inch cyclotron's trial run on December 12, 1961. Morgue 1962-69 (P-2)
 XBD9705-02167.TIF -- Down from their place of honor on a Crocker Lab wall come the original dees of the 60-inch cyclotron, replaced during an overhaul in 1944. Attaching the cables for the move are Crocker scientists, left to right: Mike Scardigno, Bob Druet, Bart Jones, and John Francis. Dees will remain at Lawrence Radiation Lab. Morgue 1962-87 (P-1)
 XBD9705-02169.TIF -- Some of the Lawrence Radiation Laboratory crew involved in the Bevatron modification program assemble on the accelerator's concrete roof for this group portrait. Shown are the key people from scientific, engineering, and support groups. See XBD201005-00519.TIF for key to individuals. Morgue 1963-3 (P-3)
 XBD9705-02170.TIF -- Wide-angle view of the remodeled Bevatron shows extensive new shielding, including seven-foot-thick concrete roof and "igloo" at hub with Lawrence Radiation Laboratory Director Edwin McMillan, left and Bevatron Group Leader Edwin Lofgren. Photo taken January 30, 1963. Morgue 1963-3 (P-1)
 XBD9705-02174.TIF -- Press conference after Bevatron reopening, Edward Lofgren, at blackboard describes how new external beam is extracted from the machine. On hand to answer newsmen's questions were a number of the scientists and engineers involved in the modification program, including (left of Lofgren) Director Edwin McMillan and electronics engineer Ed Hartwig, to Lofgren's right. Photo taken February 27, 1963. Morgue 1963-6 (P-6)
 XBD9705-02178.TIF -- Dismantled accelerating chamber of Lawrence Radiation Laboratory's historic electron synchrotron is examined by Director Edwin McMillan (right) and Rudy Johnson, of the Accelerator Study Group. Photo taken August 4, 1966. Morgue 1966-91 (P-4)
 XBD9705-02273.TIF -- Ernest Orlando Lawrence (right) with UC President Robert Gordon Sproul and King Mohammed V, December 5, 1957. Morgue 1957-10 (P-10).
 XBD9705-02276.TIF -- Sir John Cockcroft, Director of the Atomic Energy Research Establishment at Harwell, England, recently visited the Laboratory. Here Glenn Seaborg, Sir John Cockcroft, and Dr. Edwin McMillan recall the Nobel ceremony.
 XBD9705-02278.TIF -- Forty high school science teachers joined the Laboratory staff this summer in a teacher-training program. The program was initiated to stimulate the teachers so that they might improve and bring up to date their teaching curricula. Left to right, Dr. Wilson Powell (Physics Research Group Leader), Bill Baum (Alhambra High School, Martinez), and Anthony Rinaldi (Burbank Junior High School, Berkeley). Dr. Powell explains to the teachers a template showing the way a pi meson looks in the propane bubble chamber. Morgue 1959-56 (P-1)
 XBD9705-02279.TIF -- A diffusion cloud chamber on display in the Building 50 lobby. Left to right: Frank Swartz, Jim Brannigan, Larry Oswald, and Gary Griffin (physics research). Morgue 1959-60 (P-2)
 XBD9705-02284.TIF -- A five-man U.S.S.R. delegation visits the Lawrence Berkeley Laboratory to learn about our radiobiology work. Dr. John Lawrence Donner Laboratory Director, right shows the group the Donner facilities. Left to right: Dr. Alexander Pavlov, Moscow Stomatology Institute; Dr. Valerie Rochkarev, Institute of Biophysics and Radiation Medicine, Moscow; Dr. Cornelius Tobias, Donner Laboratory; and (in front of Dr. Tobias) Dr. Mikhail Pobedinski, Central Scientific Research Institute for Roentgenology, Radiology and Cancer, Leningrad. Next to Dr. Lawrence is State Department translator Albert Roth. The Laboratory visit was arranged by the U.S. Department of Health, Education, and Welfare, in return for visits that were made by U.S. doctors last year to similar U.S.S.R. installations. Morgue 1960-4 (P-2)
 XBD9705-02305.TIF -- Prime Minister Tage Erlander of Sweden, left and his wife with Dr. Edwin

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McMillan and Swedish Ambassador Gunnar Jarring during a visit to the Berkeley Laboratory on April 7, 1961. Morgue 1961-2 (P-23)

XBD9705-02306.TIF -- Ambassador to the United Nations (UN) Adlai Stevenson (center) with (left to right): Isadore Perlman, Robert Thornton, Wallace Reynolds, and Donald H. McLaughlin, Regent of the University. Stevenson here to address the International Astronomical Union meeting at U.C. August 15, 1961. Morgue 1961-15 (P-6)

XBD9705-02309.TIF -- KRON TV's rehearsal for February 26, "Science in Action" show with Lawrence Radiation Laboratory Chemist Albert Ghiorso, right and Bud Larsh. Photo taken 2/26/1962.

XBD9705-02310.TIF -- President John F. Kennedy visit to Lawrence Berkeley Laboratory. Left to right: Norris Bradbury (LASL Director), John Foster (LRL Livermore Director), Edwin McMillan (LRL Director), Glenn Seaborg (AEC Chairman), President Kennedy, Edward Teller (LLL Associate Director), Robert McNamara (Defense Secretary), and Harold Brown (Director of Defense Research and Engineering). Photo taken in 1962. Morgue 1962-68 (P-12)

XBD9705-02311.TIF -- Laboratory scientists Emilio Segre, left and Luis Alvarez, right in conversation with old friend and associate Hans Bethe in the CERN Administration Building during High Energy Physics Conference. Photo taken August 1962. Morgue 1962-96 (P-1)

XBD9705-02312.TIF -- His Royal Highness, Prince Philip visits Lawrence Berkeley Laboratory. Bio-organic Group leader Melvin Calvin, right shows the visiting prince a series of x-ray chromatographs used in his Nobel Prize-winning work on photosynthesis. Morgue 1962-57 (P-6)

XBD9705-02396.TIF -- Sir Mark Oliphant, left with Lawrence Radiation Laboratory Director Edwin McMillan on the balcony of Building 50A. Their friendship goes back to World War II days at the Laboratory. Morgue 1965-32 (P-4)

XBD9705-02397.TIF -- Britain's Princess Margaret and her husband, Lord Snowdon in their limousine as it pulls up to the Lawrence Radiation Laboratory's 184-inch cyclotron. Photo taken November 6, 1965. Morgue 1965-38 (P-30)

XBD9705-02398.TIF -- Director Edwin McMillan and his wife, Elise greet Princess Margaret upon her arrival at Lawrence Radiation Laboratory. UC Chancellor Roger Heys is at Margaret's right. Photo taken November 6, 1965. Morgue 1965-38 (P-9)

XBD9705-02399.TIF -- Princess Margaret and Lord Snowden listen attentively as Donner Associate Director Jim Born, right describes treatment of acromegaly patients. Director Edwin McMillan, second from right. Photo taken in the medical cave of the 184-inch cyclotron on November 6, 1965. Morgue 1965-38 (P-2)

XBD9706-02403.TIF -- Lawrence Radiation Laboratory hosts the High Energy Physics Meeting. Clockwise from left Klaus Bottstein of the Max Planck Institute, Munich; Gerson Goldhaber, LRL; Gideon Alexander and Gideon Yekutieli, both of the Weizmann Institute of Science, Israel. Photo taken September 1966. Morgue 1966-150

XBD9706-02404.TIF -- Lawrence Radiation Laboratory hosts the High Energy Physics Meeting. Left to right: Rogert Adair, of Yale; Mel Schwartz and Wolfgang Panofsky, of SLAC; Leroy Kerth, of LRL. Photo taken September 1966. Morgue 1966-152

XBD9706-02405.TIF -- Lawrence Radiation Laboratory hosts the High Energy Physics Meeting. Nobel Laureates C.N. Yang of Stony Brook and Emilio Segre of Lawrence Radiation Laboratory. Photo taken September 1966. Morgue 1966-154

XBD9706-02406.TIF -- Lawrence Radiation Laboratory hosts the High Energy Physics Meeting. Edward Teller of Lawrence Livermore Laboratory and theoretician Yuval Ne'eman of Tel Aviv. Photo taken September 1966. Morgue 1966-155

XBD9706-02407.TIF -- Lawrence Radiation Laboratory hosts the High Energy Physics Meeting.

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Robert, left and Frank Oppenheimer. Photo taken September 1966. Morgue 1966-159
 XBD9706-02408.TIF -- Lawrence Radiation Laboratory hosts the High Energy Physics Meeting, after-dinner speaker Robert E. Marshak of Rochester. Photo taken September 1966. Morgue 1966-158
 XBD9706-02410.TIF -- Ansel Adams photographing Director Edwin McMillan for the forth-coming book, "Fiat Lux," a collection of pictures and text that will be published by the University of California in celebration of its Centennial in 1968. Photo taken November 18, 1966. Morgue 1966-136 (P-7)
 XBD9706-02599.TIF -- The three-ton steel door for the new human body radiation counting room is being hoisted into place. Left to right: Dr. Tony Sargent supervises as the contractor's men, Adam Gierak and Don Mossestad, operate the lifting equipment. Morgue 1960-63 (P-1)
 XBD9706-02601.TIF -- 72-inch hydrogen bubble chamber (biggest in the world) was christened at Lawrence Berkeley Laboratory on June 22, 1959. Left to right on the top-platform control panel of the chamber: Ken Langley (operating crew chief), Bob Watt (physicist), and Dick Blumberg (mechanical engineer). Magnet 1959-46 (P-2)
 XBD9706-02603.TIF -- Fred Wiltens, left and Jim Hodges of the microscope shop view the magnified track of a nuclear particle, taken March 1961. Morgue 1961-46 (P-1)
 XBD9706-02604.TIF -- Accelerator target (in holder, center) about to get a thin outer coat of copper from the vacuum evaporating equipment in Building 25. Dan O'Connell, left and Gordon Steers make last-minute adjustments. Morgue 1961-46 (P-2)
 XBD9706-02605.TIF -- Walter Stockton, left holds a tray of silicon-crystal counters that being developed by a Mechanical Technicians team. The oven (open door, right) is used in the drying process. Lee Bridges is at right. Morgue 1961-46 (P-3)
 XBD9706-02606.TIF -- Mike Basil pours while Tibor Berne, left and Robert Menzies steady the mold. The finished product will be a zirconium silicate insulator. Photo taken in the ceramics shop. Morgue 1961-46 (P-4)
 XBD9706-02607.TIF -- Designed and built by Mechanical Technician Duane Newhart, this 300-ton hydraulic press can exert up to 4 million pounds of pressure per square inch. Morgue 1961-46 (P-5)
 XBD9706-02608.TIF -- The Mechanical Shop produced 75 drift tubes on the tracer lathe for the linear accelerator at the Bevatron (part of the modernization program). Alex Comazzi, left and Chuck Trantham. Morgue 1961-46 (P-6)
 XBD9706-02726.TIF -- Moving day at Building 50A. Theoretical Group Leader Dave Judd with group secretary Georgella Perry. Photo taken June 1962. Morgue 1962-88 (P-1)
 XBD9706-02728.TIF -- New 25-inch Bubble Chamber is shown with part of its design and development crew. Left to right: Bob Reynolds, Ron Rinta, Rod Byrns, Frank Barrera, Dan Curtis, Jim Shand, Glenn Eckman, and Paul Hernandez. Photo taken December 1963. Morgue 1963-124 (P-1)
 XBD9706-02731.TIF -- Outdoor ceremony dedicating the new Laboratory of Chemical Biodynamics (seen in background). Dr. Arne Tiselius (guest of honor) speaking. Seated on dias from left are guests Prof. Michael Goodman; Swedish Consul General Per Anger; AEC Chairman Glenn Seaborg; UC Berkeley Chancellor Edward Strong; Biodynamics Lab Director Melvin Calvin; NSF Director Leland Haworth; UC Regent Donald McLaughlin; LRL Director Edwin McMillan; UC Dean of Chemistry Robert Connick. Photo taken April 1, 1964. Morgue 1964-16 (P-1)
 XBD9708-03111.TIF -- Portrait of Ernest Orlando Lawrence at his desk, December 2, 1954. Morgue 1958-8 (P-6)
 XBD9708-03288.TIF -- Portrait of Dr. Wilson Powell, taken in February 1966. Morgue 1966-14 (P-1)

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XBD9708-03297.TIF -- Wilson Powell, Larry Oswald, and William Fowler in Bevatron control room, building 51. Photo taken September 17, 1957. Morgue 1957-7 (P-2)

XBD9708-03298.TIF -- Portrait of Dr. Robert Birge in his office in Building 50. Photo taken January 29, 1962. Morgue 1962-6 (P-1)

XBD9708-03299.TIF -- Portrait of Dr. Wilson Powell taken February 1966. Morgue 1966-14 (P-2)

XBD9708-03300.TIF -- Formal portrait of Dr. Robert Birge taken August 17, 1966. Morgue 1966-101 (P-1)

XBD9712-05069.TIF -- Isadore Perlman, formal portrait in his office at the Lawrence Radiation Laboratory, February 5, 1959. Morgue 1959-9 (P-6)

XBD9806-01488.TIF -- Edward Teller at his desk, taken October, 1958. cropped version. Morgue 1958-12 (P-5)

XBD9806-01540.TIF -- Ernest O. Lawrence and Edwin McMillan at the canteen by Coca Cola (Coke) machine outside of building 10. Morgue 1944-6 (P-1)

XBD9806-01541.TIF -- Ernest Orlando Lawrence examining 37-inch cyclotron vacuum chamber with the lid removed, around 1935. Morgue 1958 (P-14)

XBD9806-01542.TIF -- Professor Ernest Orlando Lawrence above the 184-inch cyclotron, circa 1956. Taken by Richard F. Hoom, photographer for P.G.E. Morgue 1958-8 (P-62)

XBD9807-01862.TIF -- Early stages of the 60-inch cyclotron. Left to right: Dr. Luis Alvarez, William Brobeck, Dr. Donald Cooksey, Dr. Edwin McMillan, and Professor Ernest Orlando Lawrence. Morgue 1944-67 (P-1)

XBD9807-01863.TIF -- Publicity photo of Albert Ghiorso. Morgue 1950-1 (P-1)

XBD9807-01864.TIF -- Publicity photo of Albert Ghiorso. Morgue 1950-1 (P-2)

XBD9807-01865.TIF -- Hilac party for the Discovery of Element 103 (lawrencium). Albert Ghiorso at right facing camera. Morgue 1961-3 (P-6)

XBD9807-01866.TIF -- Hilac party for the Discovery of Element 103 (Lawrencium). Albert Ghiorso, left. Morgue 1961-3 (P-14)

XBD9807-01867.TIF -- KRON TV's rehearsal for February 26, "Science in Action" show with Al Ghiorso and Earl Herald, taken 2/26/1962. Morgue 1962-80 (P-3)

XBD9807-01875.TIF -- 25th Anniversary. of the Discovery of plutonium with Glenn T. Seaborg, left. Photo taken February 21, 1966. Morgue 1966-12 (P-2)

XBD9807-01876.TIF -- Portrait of Al Ghiorso

XBD9811-03038.TIF -- Glenn T. Seaborg standing in front of the Periodic Table with the Ion Exchanger illusion column of Actinide Elements, May 19, 1950. See also XBD 9607-03536.TIF for similar. Morgue 1956-6 (P-4)

XBD9903-00344.TIF -- Glenn T. Seaborg at blackboard, May 19, 1950. Morgue 1956-6 (P-1)

XBD9903-00346.TIF -- Glenn Seaborg standing by Periodic Chart of the Atoms, October 30, 1956. Morgue 1956-6 (P-28)

XBD9908-01813.TIF -- Crocker Radiation Lab, November 7, 1939 with plaque. Morgue 1944-51 (P-1) Cooksey 79

XBD9908-01832.TIF -- Portrait of Clyde Wiegard, November 1955. Morgue 1955-3 (P-2)

XBD9908-01843.TIF -- Albert Ghiorso standing by the 104 Wheel, March 7, 1969. XBB6903-01747

XBD200001-00057.TIF -- Ernest O. Lawrence and Jesse W. Beams at Yale University. Morgue 1958-8 (P-68), 8x10 negative. XBD200001-00048.TIF (cropped version with Ernest Orlando Lawrence only)

XBD200003-00351.TIF -- Portrait of Cornelious Tobias, July 25, 1958. Morgue 1958-14 (P-2). See also: XBD200005-00792.TIF (includes birth and death notation)

XBD200004-00592.TIF -- Ernest Orlando Lawrence at the 60-inch cyclotron, 1937. Morgue 1958-8

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XBD200008-01221.TIF -- Early portrait of Ernest Orlando Lawrence, taken about 1935. Morgue 1958-8 (P-13)

XBD200008-01239.TIF -- Portrait of Ernest Orlando Lawrence, taken about 1937. Morgue 1958-8 (P-18)

XBD200008-01240.TIF -- Ernest Orlando Lawrence gets Nobel Prize telephone call from Stockholm November 10, 1939. Morgue 1958-8 (P-18)

XBD200008-01242.TIF -- Nobel Prize winner Ernest Orlando Lawrence toasting his parents on the occasion of their anniversary. From left: his mother, Gunda Lawrence; his father, Carl Lawrence; and his brother, John Lawrence taken August 25, 1950. Morgue 1958-8 (P-31)

XBD200008-01245.TIF -- Professor Ernest Orlando Lawrence above the 184-inch cyclotron, looking toward the San Francisco Bay, circa 1956. Taken by Richard F. Hoorn, photographer for P.G.E. Morgue 1958-8 (P-59)

XBD200008-01246.TIF -- Professor Ernest Orlando Lawrence above the 184-inch cyclotron, circa 1956. Taken by Richard F. Hoorn, photographer for P.G.E. See also Morgue 1958-8 (P-63), CBB891-220, BBC891-221

XBD200008-01247.TIF -- Ernest Orlando Lawrence passport photo

XBD200008-01248.TIF -- Office of Scientific Research and Development (OSRD) party at Bohemian Grove on September 14, 1942. From left: Unknown, Robert Oppenheimer, Harold C. Urey, Ernest Orland Lawrence, James B. Conant, Lyman J. Briggs, E.V. Murphree, A.H. Compton, Robert Thornton, and unknown individual. Morgue 1958-8 (P-71)

XBD200008-01249.TIF -- Ernest Orlando Lawrence in Canton, South Dakota, 1913. See also high resolution scan: XBD200904-00160. Morgue 1958-8 (P-89)

XBD200008-01250.TIF -- Portrait of Ernest Orlando Lawrence, 1917. Morgue 1958-8 (P-90)

XBD200008-01256.TIF -- Ernest Orlando Lawrence in South Dakota. Morgue 1958-8 (P-94)

XBD200008-01257.TIF -- Ernest Orlando Lawrence (center) sitting in convertible car with two unidentified friends. Morgue 1958-8 (P-96)

XBD200008-01279.TIF -- Ernest Orlando Lawrence in South Dakota. Morgue 1958-8 (P-95)

XBD200008-01280.TIF -- Milt White beside the 60-inch cyclotron with which Luis Alvarez showed the stability of helium-3. Morgue 1944-46 (P-1)

XBD200106-00925.TIF -- Ernest Orlando Lawrence 1939 "Super 8" Packard. Shot taken October 2, 1939. Cooksey 61

XBD200106-00926.TIF -- Ernest Orlando Lawrence at his desk in LeConte Hall on the University of California at Berkeley (UCB) campus, taken August 23, 1939. Cooksey 45

XBD200106-00932.TIF -- Ernest Orlando Lawrence and group at the site of the 184-inch cyclotron. Morgue 1944-87(P-2).

XBD200106-00938.TIF -- Ernest Orlando Lawrence at the controls of the 60-inch. cyclotron with Dr. Raymond, Edwin McMillan, and William Salisbury standing behind control panel. Negative envelope dated June 12, 1939. Cooksey 17

XBD200106-00939.TIF -- Western Union cable notifying Ernest O. Lawrence that he won the Nobel Prize. Negative envelope dated November 11, 1939. Morgue 1958-8(P-64); Cooksey 97

XBD200106-00945.TIF -- Construction site of 184-inch cyclotron building. Note the concrete wall. Negative envelope dated December 5, 1941. Cooksey 609

XBD200106-00951.TIF -- Edwin McMillan, left with Ernest Orlando Lawrence at blackboard with cyclotron drawing, taken at the time of the release of the synchrotron story, April 30, 1946. Morgue 1946-10 (P-2), Cooksey 706A

XBD200106-00952.TIF -- Edwin McMillan at blackboard with cyclotron drawing on board. Picture

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taken at the time of the release of the Synchrotron story. Negative envelope dated April 30, 1946. Morgue 1946-10(P-1), XBB6708-04860, and Cooksey 706B

XBD200106-00954.PSD -- Ernest Orlando Lawrence (seated) with unidentified friends standing by lake. Morgue 1958-8 (P-100)

XBD200106-00955.TIF -- Ernest Orlando Lawrence, sitting on hood of car with 2 unidentified friends. Morgue 1958-8 (P-98)

XBD200106-00956.TIF -- Ernest Orlando Lawrence portrait, February 19, 1951. Morgue 1958-8 (P-5)

XBD200106-00962.TIF -- Ernest Orlando Lawrence with his son, Eric, as a baby. Original negative lost, digitized from print. Cooksey 28-26

XBD200106-00982.TIF -- 60-inch cyclotron (tank out), R. Thornton (above) with L.J. Laslett and J. Backus inside chamber tanks. Cooksey 793, Morgue 1944-65 (P-1)

XBD200106-00999.TIF -- 60-inch cyclotron with G. K. Green and Donald Cooksey (left). Cooksey 37

XBD200106-01000.TIF -- Ernest Orlando Lawrence and Edwin McMillan at 60-inch cyclotron controls. Cooksey 19

XBD200106-01001.TIF -- Ernest Orlando Lawrence on couch (cropped). See also XBD201003-00194.tif with associated negative. Morgue 1958-8 (P-1)

ZBD200106-01288.TIF -- Ernest Orlando Lawrence, left receiving Nobel Prize medal and award, 1940. Credit San Francisco Examiner. XBB6808-04791

XBD200206-00285.TIF -- Landscape of terrain prior to the construction of the Bevatron in 1949. Photo shoot requested by Al Wilson. Morgue 1949-9 (P-1)

ZBD200803-00098.TIF -- Early 1950's photo of LBL Radiation Lab researchers: From left: Glenn Seaborg, Edward McMillan, Ernest Orlando Lawrence, Donald Cooksey, Edward Teller, Herb York, and Luis Alvarez. Credit: John Brenneis (no negative available)

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- Box
- 1 XBD200902-00041.TIF -- Ernest Orlando Lawrence, Donald Cooksey, and Edwin McMillan standing in front of the 60-inch cyclotron, March 26, 1939. Cooksey 778; Morgue 1944-86 (P-1); Normand 3388
 - XBD200903-00085.TIF -- Schematic of vacuum chamber of 60-inch cyclotron, taken by Donald Cooksey October 2, 1939. Morgue 1944-53 (P-2)
 - XBD200903-00086.TIF -- Perspective of 60-inch cyclotron (schematic), November 7, 1939. Cooksey 81. Morgue 1944-52 (P-2)
 - XBD200903-00087.TIF -- William Brobeck, the Lab's first professional engineer with cans used as radiation shielding at the Old Radiation Laboratory, taken around 1938. Morgue 1944-63 (P-1)
 - XBD200903-00088.TIF -- Donald Cooksey (left) and unidentified individual at the 60-inch cyclotron, 1939. Morgue 1944-45 (P-1)
 - XBD200903-00095.TIF -- 60-inch cyclotron with Donald Cooksey, taken in 1936. Morgue 1944-44 (P-1)
 - XBD200903-00096.TIF -- New cyclotron chamber, taken in 1936. Morgue 1944-61 (P-1)
 - XBD200903-00097.TIF -- 60-inch cyclotron oscillator layout. Morgue 1944-53 (P-1)
 - XBD200903-00100.TIF -- 60-inch cyclotron with Jackson Laslett (right). Morgue 1944-42 (P-1)
 - XBD200903-00106.TIF -- Doctors Iimori, Yasaki, Watanabi, and Edwin McMillan in discussion at 60-inch cyclotron, taken September 2, 1940. Morgue 1944-83 (P-1) Cooksey 221
 - XBD200903-00117.TIF -- Robert Oppenheimer's "pork-pie" hat. Robert Oppenheimer, the physicist known as the father of the atomic bomb frequently wore a pork pie hat (Wikipedia entry, 2009). Morgue 1944-101 (P-1)
 - XBD200903-00118.TIF -- British Group associated with the Manhattan Project (Mark Oliphant Group), Nuclear Physics Research Laboratory, University of Liverpool, Mount Pleasant, Liverpool. Photo taken in 1944. From left to right seated: H.W.S. Massey, Sir Mark L. Oliphant, R.H.V. Dawton, E.H.S. Burhop, J.P. Keene, George Page, H.W.B. Skinner, S.C. Curran (mostly obscured behind Watt), C.S. Watt (mostly obscured behind Williams), R.M. Williams, S. Rowlands, Jean A. Sutherland, and M.J. Moore. Left to right standing: S.M. Duke, H.J. Morris, M.H.F. Wilkins, P.P. Starling, M.E. Haine, D.F. Stanley, M.P. Edwards, J.D. Craggs, J. Sayer, W.D. Allen, T.E. Allibone. Morgue 1944-104 (P-1)
 - XBD200903-00119.TIF -- Donald Cooksey working with the 60-inch cyclotron
 - XBD200903-00120.TIF -- Edwin McMillan standing beside the 60-inch cyclotron vacuum chamber taken in the evening of February 15, 1940. Morgue 1944-97 (P-1) Cooksey 180
 - XBD200903-00123.TIF -- Donald Cooksey, Edwin McMillan, and F.A. Jenkins at the 60-inch cyclotron. Morgue 1944-51 (P-1)
 - XBD200903-00125.TIF -- 60-inch cyclotron with Dees (D's) out. Taken February 1, 1940. Morgue 1944-41 (P-1); Cooksey 162
 - XBD200904-00157.TIF -- Professor Ernest Orlando Lawrence sitting at the control table of the 27-inch cyclotron taken in 1933 or 1934. Morgue 1958-8 (P-39)
 - XBD200904-00158.TIF -- Professor Ernest Orlando Lawrence at the 37-inch cyclotron taken in 1937. Morgue 1958-8 (P-15).
 - XBD200904-00161.TIF -- Luis Alvarez in his lab, just before his work leading to the identification of helium-3, circa 1937. High resolution version 149mb. See also XBD9606-02533.tif sent to NARA 4/1/2010. Morgue 1966-11 (P-3)
 - XBD200910-00883.TIF -- Martin Kamen, L. Jackson Laslett, and Paul Aebersold, August 13, 1937. XBB688-4743 (negative created from Cooksey print)
 - XBD200910-00885.TIF -- Magnet with 9-inch poles and 11 inches in diameter. 15,000 gauss across a gap slightly over 1 inch, half million volt-electron hydrogen molecule ions were produced. Crocker

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XBD200910-00887.TIF -- 60-inch cyclotron deflector mount, Dale Corson and Donald Cooksey taken May 10, 1939. Cooksey 1

XBD200910-00888.TIF -- 60-inch cyclotron R.F. top insulator taken May 10, 1939. Cooksey 2

XBD200910-00889.TIF -- 60-inch cyclotron R.F. top insulator taken May 10, 1939. Cooksey 3

XBD200910-00890.TIF -- 60-inch cyclotron target chamber and filament taken May 10, 1939. Cooksey 4

XBD200910-00891.TIF -- 60-inch cyclotron leak tester cap taken May 10, 1939. Cooksey 7

XBD200910-00901.TIF -- 60-inch cyclotron, target side set up for movie crew taken in June, 1939. Cooksey 12

XBD200910-00902.TIF -- 60-inch cyclotron, target side taken in June, 1939. Cooksey 14

XBD200910-00903.TIF -- The blackboard in the old Radiation Lab recorded many important moments, including the first beam from the 60-inch cyclotron. Dees hanging on wall in background taken June 10, 1939. Morgue 1944-77 (P-1); Cooksey 16; Morgue1944-77 (P-1). See XBD9606-02746.tif (cropped version)

XBD200910-00904.TIF -- Raymond, Edwin McMillan, Robert Wilson, David Sloan, and Bill Farley at 60-inch cyclotron target side, June 12, 1939. Cooksey 18

XBD200910-00905.TIF -- John H. Lawrence at desk, June 12, 1939. Cooksey 20

XBD200910-00906.TIF -- 60-inch cyclotron, June, 1939. Cooksey 15

XBD200910-00908.TIF -- Control room window. Bill Brobeck, Wilson, Ernest Orlando Lawrence, Salisbury, and Edwin McMillan. June 12, 1939. Cooksey 21

XBD200910-00909.TIF -- 60-inch cyclotron target side with Donald Cooksey. June 16, 1939. Cooksey 24

XBD200910-00910.TIF -- 60-inch cyclotron R.F. end. June 16, 1939. Cooksey 25

XBD200910-00911.TIF -- 60-inch cyclotron support end end. June 16, 1939. Cooksey 26

XBD200910-00912.TIF -- Robert L. Thornton attaching rope to support concentric line in Crocker Lab, July 4, 1939. Cooksey 31

XBD200910-00913.TIF -- 60-inch cyclotron 140 cm deuteron beam. June 24, 1939. Cooksey 30. See also XBD200910-00934.TIF for similar image.

XBD200910-00914.TIF -- 60-inch cyclotron vacuum chamber. July 20, 1939. Cooksey 34

XBD200910-00915.TIF -- 60-inch cyclotron deflector and dee. July 18, 1939. Cooksey 33

XBD200910-00916.TIF -- 60-inch cyclotron target window with water cans by control room window. August 23, 1939. Cooksey 41

XBD200910-00917.TIF -- 60-inch cyclotron with Harold Walke. August 23, 1939. Cooksey 39

XBD200910-00918.TIF -- 60-inch cyclotron with Milton White and his reflection. August 23, 1939. Cooksey 44. Cooksey note: Looking from above at the "east" side, one sees, below the union of the two dee support tanks, the high speed (approximately 5000 L/sec) oil diffusion pump developed in this laboratory. Professor Milton G. White is by the magnet. Some of the equipment with which Alvarez and Cornog discovered helium three is behind White. Paint cans full of water are piled in front of the control room to reduce the radiation at that point.

XBD200910-00930.TIF -- 60-inch cyclotron rear end, August 23, 1939. Cooksey 43

XBD200910-00931.TIF -- Ernest Orlando Lawrence, Surgeon General Thomas Parran, and Carmelia Opsomer, 60-inch cyclotron, August 26, 1939. Cooksey 47

XBD200910-00932.TIF -- Paul Aebersold and Gladys Anslow at the 60-inch cyclotron, August 26, 1939. Dr. Anslow, a physicist was the first woman to work on the 8MeV cyclotron at Berkeley and was one of the few women involved with the Manhattan Project. Cooksey 48

XBD200910-00933.TIF -- Martin Kamen at the 60-inch cyclotron, September 10, 1939. Cooksey 50

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XBD200910-00934.TIF -- 60-inch cyclotron deuteron beam. Approximate 150cm range. Cooksey 51. See also XBD200910-00913.tif for similar image.

XBD200910-00947.TIF -- David Shirley, LBL Director, 1980-1988 at blackboard. XBP8007-08966

XBD200910-00948.TIF -- Edwin McMillan in the control room, Bldg. 88, March 20, 1963. Morgue 1963-8 (P-2)

XBD200910-00949.TIF -- Edwin McMillan, 1958. Morgue 1958-10 (P-3)

XBD200911-00952.TIF -- Isometric line drawing of 27-inch cyclotron tank #2. Morgue 1944-68 (P-1)

XBD200911-00953.TIF -- 60-inch cyclotron tanks with dee support tanks and magnet. Requested by Edward Lofgren, November 05, 1974 from copy negative. XBB7411-07517

XBD200911-00954.TIF -- Edwin McMillan, Donald Cooksey, and Ernest Orlando Lawrence and the 37-inch cyclotron. Cooksey 778 (Normands copy neg 3388)

XBD200911-00956.TIF -- Ernest Orland Lawrence with Molly and Eric, 1935. XBB677-4243

XBD200911-00958.TIF -- Molly and Eric Lawrence, 1936. See also Cooksey 28-38 (original negatives misplaced, recopied). Envelope contains various images of Ernest Orland Lawrence, Molly Lawrence, and Eric Lawrence. Cooksey 28-38. Digitized from poor quality copy negatives.

XBD200911-00959.TIF -- John H. Lawrence, six months old and Ernest Orlando Lawrence, three years old. XBB677-4240

XBD200911-00960.TIF -- Ernest Orlando Lawrence in Pierre, South Dakota, 1913. XBB677-4241

XBD200911-00962.TIF -- Plaque on William H. Crocker Radiation Laboratory, November 7, 1939. Cooksey 80

XBD200911-00963.TIF -- 60-inch cyclotron deuteron beam 3 sec 16.5 MEV, October 5, 1939. Cooksey 62. Cooksey notation: "Resonance was first obtained on April 17, 1939. On May 17 we had a proton beam, and on June 7 we had a deuteron beam in excess of 17 M.E.V. The photograph shows a 16 M.E.V. deuteron beam extending five feet through the air from the 60-inch cyclotron target chamber."

XBD200911-00964.TIF -- Ernest Orlando Lawrence and John H. Lawrence after the sinking of the S.S. Athenia on September 3, 1939. Photo taken October 7, 1939. Cooksey 68

XBD200911-00965.TIF -- Bernard Harvey at neutron collimator, November 7, 1939. Cooksey 76

XBD200911-00966.TIF -- Workmen and 60-inch cyclotron water tanks with steel beams for water roof. October 6, 1939. Cooksey 65

XBD200911-00967.TIF -- 60-inch cyclotron with water tanks in place. Paul Aebersold and Ernest Orlando Lawrence at left. October 11, 1939. Cooksey 69

XBD200911-00968.TIF -- Dr. Warren H. Lewis and Margaret Lewis at Crocker Lab, November 7, 1939. Cooksey 78

XBD200912-01028.TIF -- Aerial view of the site of the future Radiation Laboratory with the University of California (UC) Berkeley campus in the foreground. Some buildings labeled, February 1, 1940. Morgue 1944-26 (P-1); Cooksey-147

XBD200912-01029.TIF -- Edwin McMillan and Robert Thornton with unidentified individual in Bevatron control room, date unknown. Morgue 1944-7 (P-1)

XBD200912-01030.TIF -- View down Strawberry Canyon, April 10, 1943. Morgue 1944-21 (P-1)

XBD200912-01031.TIF -- Early cyclotron. Possibly 37-inch (Ed Lofgren). Morgue 1944-69 (P-1)

XBD200912-01032.TIF -- Early cyclotron. Possibly 37-inch (Ed Lofgren). Morgue 1944-70 (P-1)

XBD200912-01033.TIF -- Early work on the 184-inch cyclotron, May 8, 1942. Morgue 1944-71 (P-1); Cooksey 694

XBD200912-01034.TIF -- Early work on the 184-inch cyclotron, May 17, 1942. Morgue 1944-72 (P-1); Cooksey 700

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XBD200912-01035.TIF -- Christmas lunch at Harvey's with Ernest Orlando Lawrence in the foreground, December 23, 1944. Morgue 1944-75 (P-2)

XBD200912-01036.TIF -- 184-inch cyclotron building site cleared for construction with San Francisco and the Golden Gate Bridge in the background, September 26, 1940. Morgue 1944-78 (P-2) copy negative

XBD200912-01037.TIF -- 184-inch cyclotron foundation being poured, October 11, 1940. Morgue 1944-78 (P-3); Cooksey 276 copy negative

XBD200912-01038.TIF -- Radio arc transmitter. Not part of magnet as assembled at University of California (UC) Berkeley taken June 3, 1931. Morgue 1944-79 (P-2) copy negative from original print courtesy of Norma Sleeman

XBD200912-01039.TIF -- Ernest Orlando Lawrence (left) and Edwin McMillan, March 8, 1944. Morgue 1944-84 (P-1) copy negative

XBD200912-01040.TIF -- Ernest Orlando Lawrence (front row center) and group on the future site of the 184-inch cyclotron. Group includes many significant individuals from the early Rad Lab days, dated 1942. Morgue 1944-87 (P-1)

XBD200912-01041.TIF -- Ernest Orlando Lawrence (front row center) with Edwin McMillan to his right at synchrotron drive dinner at the Claremont Hotel. Group includes many significant individuals from the early Rad Lab days, some signatures included. Morgue 1944-92 (P-1)

XBD200912-01042.TIF -- Robert Thornton at 184-inch cyclotron controls. Morgue 1944-94 (P-1)

XBD200912-01043.TIF -- Donald Cooksey (left) and Ernest Orlando Lawrence with 184-inch cyclotron magnet. Morgue 1944-96 (P-1)

XBD200912-01045.TIF -- Construction of Donner Lab on the University of California, Berkeley (UCB) campus, 1942. Morgue 1944-103 (P-1)

XBD200912-01046.TIF -- View from the future site of the Rad Lab, looking north toward the San Francisco Bay and Albany Hill, 1944. Morgue 1944-106 (P-1)

XBD200912-01047.TIF -- Luis Alvarez' cosmic ray telescope mounted on wheelbarrow, to permit east-west rotation, Alvarez standing, right and Robert Serber (?) seated. Photo labeled Mexico City, April, 1933. Morgue 1946-8 (P-3); ZN 3275

XBD200912-01048.TIF -- Luis Alvarez' cosmic ray telescope setup showing instruments inside gondola with labels. Mexico City, April, 1933. From Alvarez' personal file. Morgue 1946-8 (P-5); ZN 3277

XBD200912-01049.TIF -- Apparatus used in the discovery that He3 was a stable constituent of ordinary helium (UCRL), 1939. Copied from Donald Cooksey film. Morgue 1946-8 (P-7); ZN 3279

XBD200912-01050.TIF -- First neutron time-of-flight apparatus with liquid hydrogen apparatus used in "ortho-para" scattering experiments with Kenneth Pitzer, 1940. Copied from Luis Alvarez' personal photos. Morgue 1946-8 (P-8); ZN 3280

XBD200912-01051.TIF -- First spectrum ever seen of an artificially created element (mercury 198) made from gold. A reversal of the "Alchemist's Dream", 1940. Copied from Luis Alvarez' personal photos. Morgue 1946-8 (P-9)

XBD200912-01052.TIF -- First GCA setup for operation at Elsham Wolds, England, in the summer of 1934. Copied from Luis Alvarez' personal photos. Morgue 1946-8 (P-10); ZN 3281

XBD200912-01053.TIF -- Luis Alvarez with Eagle-equipped B-29 on North Field, Tinian Island, Marianas. Copied from Luis Alvarez' personal photos. Morgue 1946-8 (P-11); ZN 3282

XBD200912-01054.TIF -- Effects of increased resolution on radar mapping. Eagle map (left) and standard 3 centimeter radar map (right). Copied from Luis Alvarez' personal photos. Caption on photo: How Shimotsu strike area compared on scopes of APQ-7 (left) and APQ-713 (right) is shown by reference to map in center. Morgue 1946-8 (P-12); ZN 3283

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XBD200912-01055.TIF -- Parachute-borne pressure gauge, Tinian Island, Marianas with "scientific observers" of the 509th group, 1945. Luis Alvarez (standing, right). Copied from Luis Alvarez' personal photos. Morgue 1946-8 (P-13); ZN 3284

XBD200912-01056.TIF -- Apparatus to measure the decay of the free neutron. The experiment was designed by Luis Alvarez and was built and tested by Cornelius Tobias for his doctoral thesis in 1941. The project was stopped when the 37-inch cyclotron was converted to isotope separation. Photo taken May 2, 1941. Morgue 1946-8 (P-16); Cooksey 454

XBD200912-01057.TIF -- David Cudaback, engineer in lab. Photo for publication, August 28, 1947. Morgue 1947-1 (P-2)

XBD200912-01058.TIF -- David Cudaback, engineer in lab. Photo for publication, August 28, 1947. Morgue 1947-1 (P-1)

XBD200912-01059.TIF -- The discovery of machine-made mesons by Lattes and Gardner was announced. in February , 1948. C.M.G. Lattes (left) and E. Gardner with the emulsion positioning apparatus for the 184-inch meson experiments taken. March 8, 1948. Morgue 1948-4 (P-3)

XBD200912-01069.TIF -- Carol H. Daubere in her lab at 318 Lewis Hall, June 30, 1949. Morgue 1949-4 (P-1)

XBD200912-01070.TIF -- Carol H. Daubere in her lab at 318 Lewis Hall, June 30, 1949. Morgue 1949-4 (P-2)

XBD200912-01071.TIF -- Hubert P. Yockey (right) shown here with equipment associated with the 60-inch cyclotron. Dr. Yockey worked under Robert Oppenheimer on the Manhattan Project, July 26, 1949. Morgue 1949-5 (P-2)

XBD200912-01072.TIF -- Hubert P. Yockey (left) shown here with. the 60-inch cyclotron. Dr. Yockey worked under Robert Oppenheimer on the Manhattan Project. Photo taken July 26, 1949. Morgue 1949-5 (P-4)

XBD200912-01073.TIF -- Portrait of Stanley G. Thompson taken February 20, 1950. Associated with Glenn Seaborg in the discovery of plutonium and later a member of the team that discovered berklum and californium. Morgue 1953-1 (P-1)

XBD200912-01074.TIF -- Ernest Orlando Lawrence (right) with friend and their catch of the day at Lake Andes, South Dakota, circa 1920. Digitized from damaged negative. Morgue 1958-8 (P-91)

XBD200912-01075.TIF -- Portrait of Luis Alvarez at his desk taken August 11, 1954. Morgue 1954-1 (P-3)

XBD200912-01076.TIF -- Portrait of Luis Alvarez on his desk taken August 11, 1954. Morgue 1954-1 (P-5)

XBD200912-01077.TIF -- Formal portrait of Robert T. Birge taken April 20, 1954. Morgue 1954-3 (P-1)

XBD200912-01078.TIF -- Formal portrait of Joseph Gilbert Hamilton taken April 9, 1954. Morgue 1954-5 (P-1)

XBD200912-01079.TIF -- Ed Lofgren and Bill Brobeck taken January 28, 1954 at the Bevatron. Morgue 1954-8 (P-3)

XBD200912-01080.TIF -- Ed Lofgren and Bill Brobeck taken January 28, 1954 at the Bevatron. Morgue 1954-8 (P-5)

XBD200912-01086.TIF -- Group photo of all personnel who worked on the construction of the Bevatron with key to individuals. Significant individuals include: Bill Bigelow, Donald Cooksey, Robert Richter, Edward Lofgren, Bill Salsig, Ken Mirk, Ernest Orlando Lawrence, Walt Hartsough, and others. Photo taken April, 1954. Morgue 1954-9 (P-4)

XBD200912-01087.TIF -- Formal portrait of Owen Chamberlain taken in November, 1955. Morgue 1955-1 (P-2)

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XBD200912-01088.TIF -- Passport photo of Owen Chamberlain taken April 16, 1956. Morgue 1955-1 (P-2)

XBD200912-01089.TIF -- Formal portrait of Earl J. Hyde taken July 22, 1955. Morgue 1955-2 (P-1)

XBD200912-01090.TIF -- Formal portrait of Thomas Ypsilantis taken November, 1955. Morgue 1955-4 (P-1)

XBD200912-01092.TIF -- Visiting dignitaries from South America touring the Bevatron with Edward Lofgren (second from left), Glenn T. Seaborg (third from left), Edwin McMillan (fourth from left), Luis Alvarez (third from right), and Ernest Orlando Lawrence (right) taken April 11, 1955. Morgue 1955-5 (P-2)

XBD200912-01093.TIF -- Left to right: Professor Manne Siegbahn, Director-Nobel Institute for Physics, Stockholm; Professor D.V. Skobel'tzin, Director -Institute of Physics, U.S.S.R.; Dr. H.J. Bhabha, Chairman-Indian A.E.C.; and Professor Glenn T. Seaborg taken August 1955 in Geneva, Switzerland. Morgue 1955-6 (P-1)

XBD200912-01094.TIF -- Formal portrait of John H. Lawrence taken prior to 1945. Morgue 1956-3 (P-4)

XBD200912-01095.TIF -- John H. Lawrence at his desk taken prior to 1945. Morgue 1956-3 (P-13)

XBD200912-01096.TIF -- John H. Lawrence in conversation with his colleague, Dr. Bertram Lowbeer taken September 25, 1945. Morgue 1956-3 (P-22)

XBD200912-01097.TIF -- John H. Lawrence at his desk taken January 20, 1955. Morgue 1956-3 (P-32)

XBD200912-01098.TIF -- John H. Lawrence at his desk taken January 20, 1955. Morgue 1956-3 (P-33)

XBD200912-01099.TIF -- Dr. Joseph Gilbert Hamilton taken in 1955 or 1956 by Grace Walpole. Morgue 1956-12 (P-1)

XBD200912-01100.TIF -- William Brobeck and Dr. Joseph Gilbert Hamilton, taken in 1955 or 1956 by California Academy of Sciences, Moss Photography. Morgue 1956-12 (P-2)

XBD200912-01101.TIF -- Dr. W. Powell, Larry Oswald, and Bill Fowler at the controls of the Propane Bubble Chamber at the Bevatron taken September 17, 1957. Morgue 1957--7 (P-4)

XBD200912-01103.TIF -- King Mohammed V on tour with Ernest Orlando Lawrence taken December 5, 1957. Morgue 1957--10 (P-7)

XBD200912-01104.TIF -- King Mohammed V on tour with Ernest Orlando Lawrence taken December 5, 1957. Morgue 1957--10 (P-8)

XBD200912-01105.TIF -- Visiting Russian scientists touring the Bevatron. Left to right: Okun, Blokhintsev, Nikitin, Dzhelepov, Luis Alvarez, Edwin McMillan, Herman (translator), Edward Lofgren, and Ernest Orlando Lawrence taken December 16, 1957. Morgue 1957--11 (P-1)

XBD200912-01106.TIF -- Tjorborn Sikkeland, Al Ghiorso, and Robert Main at the Hilac. Morgue 1957--13 (P-4)

XBD200912-01107.TIF -- Lloyd Houser and Albert Lambert with meson-focusing magnet to be used with the 184-inch cyclotron. Morgue 1957--14 (P-1)

XBD201001-00001.TIF -- Ernest Orlando Lawrence gets Nobel Prize telephone call from Stockholm. November 10, 1939. Morgue 1958--8 (P-19)

XBD201001-00002.TIF -- Portrait of Melvin Calvin at his desk taken September 24, 1952. Morgue 1958--4 (P-3)

XBD201001-00003.TIF -- Portrait of Melvin Calvin at his desk taken February 25, 1958. Morgue 1958--4 (P-4)

XBD201001-00004.TIF -- Ernest Orlando Lawrence at his desk taken February 1946. Morgue 1958-8 (P-2)

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XBD201001-00005.TIF -- Portrait of Ernest Orlando Lawrence, taken December 2, 1954. See negative Morgue 1958-8 (P-11)

XBD201001-00006.TIF -- Ernest Orlando Lawrence and Donald raising money for the 184-inch cyclotron in 1940. See negative Morgue 1958-8 (P-22)

XBD201001-00007.TIF -- Ernest Orlando Lawrence with Enrico Fermi taken January 29, 1940. See negative Morgue 1958-8 (P-23)

XBD201001-00008.TIF -- Ernest Orlando Lawrence and Donald Cooksey examine an early cyclotron, taken August 7, 1945. See negative Morgue 1958-8 (P-27)

XBD201001-00009.TIF -- Casual portrait of Ernest Orlando Lawrence, taken August 7, 1945. See negative Morgue 1958-8 (P-28)

XBD201001-00010.TIF -- Robert Sproul presents medal to Ernest Orlando Lawrence. Molly Lawrence (left) and Gundal Lawrence look on. Photo taken October 24, 1945. See negative Morgue 1958-8 (P-29)

XBD201001-00011.TIF -- Ernest Orlando Lawrence receiving the Fermi Award, James Killian (right). Possibly taken in 1957. See negative Morgue 1958-8 (P-32)

XBD201001-00012.TIF -- Ernest Orlando Lawrence speaking in from of Dwinelle Hall, Clark Kerr seated at right. Photo taken September 27, 1955. Morgue 1958-8 (P-33)

XBD201001-00013.TIF -- The last photo of Ernest Orlando Lawrence before his death, taken in 1958. See negative Morgue 1958-8 (P-37)

XBD201001-00014.TIF -- Ernest Orlando Lawrence, Mrs. Robert Birge, and Betty. (or Ann) Birge taken in May, 1927. See negative. Morgue 1958-8 (P-41)

XBD201001-00015.TIF -- Ernest Orlando Lawrence, Mrs. Robert Birge, and children Betty. (or Ann) and Bob Birge taken in May, 1927. See negative Morgue 1958-8 (P-42)

XBD201001-00016.TIF -- Oil painting of Ernest Orlando Lawrence. See negative Morgue 1958-8 (P-43).

XBD201001-00017.TIF -- From left to right: Donald Cooksey, Wallace B. Reynolds, Dr. H. de W. Smyth, and Ernest Orlando Lawrence taken December 11, 1944. See negative Morgue 1958-8 (P-46)

XBD201001-00018.TIF -- Ernest Orlando Lawrence standing in doorway of his office, July 1936. Photo taken by Emilio Serge while visiting. See negative Morgue 1958-8 (P-47)

XBD201001-00019.TIF -- Diagram of Sloan-Lawrence linear accelerator from Production of Heavy High Speed Ions Without the Use of High Voltage, by David H. Sloan and Ernest Orlando Lawrence. Phys. Rev. Vol. 38, No. 11, December 1, 1931. See negative Morgue 1958-8 (P-54)

XBD201001-00020.TIF -- Professor Ernest Orlando Lawrence (with hat) above the 184-inch cyclotron, circa 1956. Taken by Richard F. Hoorn, photographer for P.G.E. See negative Morgue 1958-8 (P-61).

XBD201001-00021.TIF -- Smiling Ernest Orlando Lawrence in his office dated November 22, 1939. See negative Morgue 1958-8 (P-65); Cooksey 122

XBD201001-00022.TIF -- Wedding picture of Ernest Orlando Lawrence's parents, Carl and Gunda Lawrence. See negative Morgue 1958-8 (P-66)

XBD201001-00024.TIF -- Ernest Orlando Lawrence, Glenn Seabord, Al Ghiorso, and Hubbard at the HILAC, 1957. XBB6808-4789

XBD201001-00029.TIF -- Portrait of Ernest Orlando Lawrence. Morgue 1958-8 (P-72)

XBD201001-00039.TIF -- Edwin McMillan recreating the search for neptunium at the time of the announcement of the discovery, June 8, 1940. Photo courtesy of the Oakland Tribune. See also: XBD9606-02762 for similar image. XBB688-4793

XBD201002-00052.TIF -- Ernest Orlando Lawrence at his desk. Morgue 1958-8 (P-74)

XBD201002-00053.TIF -- Ernest Orlando Lawrence's notes on 24 Na. from original document.

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Morgue 1958-8 (P-76)

XBD201002-00054.TIF -- Ernest Orlando Lawrence's notes on cyclotron theory. Morgue 1958-8 (P-78)

XBD201002-00055.TIF -- Ernest Orlando Lawrence's notes on cyclotron theory. Morgue 1958-8 (P-79)

XBD201002-00056.TIF -- Ernest Orlando Lawrence's notes on cyclotron theory. Morgue 1958-8 (P-80)

XBD201002-00057.TIF -- Ernest Orlando Lawrence's notes on cyclotron theory. Morgue 1958-8 (P-81)

XBD201002-00058.TIF -- Ernest Orlando Lawrence's notes on cyclotron theory. Morgue 1958-8 (P-82)

XBD201002-00059.TIF -- Ernest Orlando Lawrence's notes on cyclotron theory. Morgue 1958-8 (P-83)

XBD201002-00060.TIF -- Ernest Orlando Lawrence's notes on cyclotron theory. Morgue 1958-8 (P-84)

XBD201002-00061.TIF -- Ernest Orlando Lawrence's notes on cyclotron theory. Morgue 1958-8 (P-85)

XBD201002-00062.TIF -- Ernest Orlando Lawrence's notes on cyclotron theory. Morgue 1958-8 (P-86)

XBD201002-00063.TIF -- Ernest Orlando Lawrence's notes on cyclotron theory. Morgue 1958-8 (P-87)

XBD201002-00064.TIF -- Ernest Orland Lawrence (right) with unidentified individual. Morgue 1958-8 (P-93)

XBD201002-00065.TIF -- Ernest Orlando Lawrence (right) and two unidentified individuals in car. Morgue 1958-8 (P-97)

XBD201002-00066.TIF -- Early photograph of Lawrence family. Carl Lawrence (left), Ernest Orlando Lawrence (second from right). Morgue 1958-8 (P-102)

XBD201002-00067.TIF -- Ernest Orlando Lawrence and Jesse W. Beams' laboratory. at Yale University. Dated 1926-1928. . Morgue 1958-8 (P-105)

XBD201002-00068.TIF -- Ernest Orlando Lawrence (left) and family sitting on front porch of house. Morgue 1958-8 (P-106)

XBD201002-00069.TIF -- Press visit to the 184-cyclotron. Left to right: Donald Cooksey, Ernest Orlando Lawrence, Robert Thornton, J. Robert Oppenheimer, and William Brobeck taken in the spring of 1946. Morgue 1958-8 (P-107)

XBD201002-00079.TIF -- Ernest Orlando Lawrence, Enrico Fermi, and Isidor Isaac Rabi at a conference at Los Alamos Scientific Laboratory during World War. II, circa 1941-1945. Morgue 1958-8 (P-108); copy of Los Alamos photo number 419

XBD201002-00080.TIF -- Edward Lofgren at the Bevatron, 1957. Morgue 1958-9 (P-2)

XBD201002-00081.TIF -- Portrait of Edwin McMillan. Morgue 1958-10 (P-1)

XBD201002-00082.TIF -- Dr. Edward Teller at desk talking on telephone, taken October 1958. Morgue 1958-12 (P-4)

XBD201002-00083.TIF -- Arthur Compton (left), and Luis Alvarez (right.). Morgue 1958-21 (P-2)

XBD201002-00084.TIF -- Arthur Compton (left), and Luis Alvarez (right.). Morgue 1958-21 (P-3)

XBD201002-00085.TIF -- Ernest Orlando Lawrence and Edwin McMillan in filming for the TV show, "Wide, Wide World". Produced 10/08/1957. Morgue 1958-25 (P-4)

XBD201002-00087.TIF -- Emilio Segre and Glenn Seaborg in filming for the TV show, "Wide, Wide World". Produced 10/08/1957. Morgue 1958-25 (P-6)

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XBD201002-00088.TIF -- Emilio Segre and Glenn Seaborg in filming for the TV show, "Wide, Wide World". Produced 10/08/1957. Morgue 1958-25 (P-19)

XBD201002-00089.TIF -- Physics graduate students Tommy Elioff (left) and Louis Agnew (right) placing a beryllium absorber in the first focus of the antiproton magnetic channel to partially separate antiprotons from the meson background, taken February 1958. Morgue 1958-29 (P-2)

XBD201002-00090.TIF -- Bevatron crew in the control room. Left to right: Ross Nemetz, Seth Shepard, Robert Gisser, Tran Canton, and Walt Hartsough, taken February 1958. Morgue 1958-36 (P-1)

XBD201002-00091.TIF -- Isolation of californium (in visible amounts). Inside a fabricated tepee on the roof of the Chemistry Building, the chemists perform their experiment. Left to right: Ray Gatti. (standing). and Llad Phillips (seated) with Burris Cunningham and Stanley Thompson, taken September 1958. Morgue 1958-62 (P-1)

XBD201002-00092.TIF -- Portrait of Dr. Bernard Harvey taken for the Junior Scientists' Workshop series, taken October 1958. Morgue 1958-67 (P-1)

XBD201002-00093.TIF -- Giant stator at the Bevatron, damaged by broken bolt from the west generator, taken May 1958. Morgue 1958-74 (P-1)

XBD201002-00094.TIF -- Portrait of Donald Cooksey, September 1958. Morgue 1959-2 (P-1)

XBD201002-00095.TIF -- Portrait of Donald Cooksey at desk, taken September 1945. Morgue 1959-2 (P-4)

XBD201002-00096.TIF -- Portrait of Donald Cooksey, September 1945. Morgue 1959-2 (P-5)

XBD201002-00097.TIF -- Portrait of Donald Cooksey at desk, taken February 19, 1954. Morgue 1959-2 (P-10)

XBD201002-00098.TIF -- Portrait of Donald Cooksey at desk, taken February 19, 1954. Morgue 1959-2 (P-11)

XBD201002-00099.TIF -- Portrait of Donald Cooksey at desk, taken February 19, 1954. Morgue 1959-2 (P-13)

XBD201002-00100.TIF -- Donald Cooksey's 20th anniversary at the Radiation Laboratory, June 21, 1956. Morgue 1959-2 (P-17)

XBD201002-00101.TIF -- Donald Cooksey (left) at his 20th anniversary with Wally Reynolds, taken June 21, 1956. Morgue 1959-2 (P-18)

XBD201002-00102.TIF -- Donald Cooksey, taken at his retirement July 17, 1959. Morgue 1959-2 (P-19)

XBD201002-00103.TIF -- Donald Cooksey, taken at his retirement July 17, 1959. Morgue 1959-2 (P-25)

XBD201002-00104.TIF -- Publicity shot of Quentin Kerns, taken in Building 80 on March 26, 1956. Morgue 1959-6 (P-2)

XBD201002-00105.TIF -- Portrait of Quentin Kerns, taken February 20, 1959. Morgue 1959-6 (P-4)

XBD201002-00106.TIF -- Isador Perlman at his desk, taken May 5, 1959. Morgue 1959-9 (P-3)

XBD201002-00107.TIF -- Portrait of John Rasmussen, taken September 30, 1959. Morgue 1959-11 (P-5)

XBD201002-00108.TIF -- Portrait of Emilio Segre, taken May 4, 1954. Morgue 1959-14 (P-4)

XBD201002-00109.TIF -- Portrait of Emilio Segre, taken May 4, 1954. Morgue 1959-14 (P-5)

XBD201002-00110.TIF -- Portrait of Emilio Segre, taken November 2, 1959. Morgue 1959-14 (P-8)

XBD201002-00111.TIF -- Portrait of Emilio Segre, taken November 2, 1959. Morgue 1959-14 (P-9)

XBD201002-00112.TIF -- Portrait of Emilio Segre, taken November 2, 1959. Morgue 1959-14 (P-11)

XBD201002-00113.TIF -- Portrait of Emilio Segre, taken November 2, 1959. Morgue 1959-14 (P-

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- 14)
- XBD201002-00114.TIF -- Portrait of Emilio Segre, taken November 2, 1959. Morgue 1959-14 (P-15)
- XBD201002-00117.TIF -- Luis Alvarez (right) with unidentified individual at Board of Regents meeting, taken March 12, 1959. Morgue 1959-17 (P-7)
- XBD201002-00118.TIF -- Luis Alvarez (left) with unidentified individuals at Board of Regents meeting, taken March 12, 1959. Morgue 1959-17 (P-8)
- XBD201002-00119.TIF -- Board of Regents meeting tour, taken March 12, 1959. Morgue 1959-17 (P-11)
- XBD201002-00120.TIF -- Luis Alvarez (second from right) with unidentified individuals at Board of Regents meeting tour, taken March 12, 1959. Morgue 1959-17 (P-12)
- XBD201002-00121.TIF -- Luis Alvarez (center) with unidentified individuals at Board of Regents meeting tour, taken March 12, 1959. Morgue 1959-17 (P-14)
- XBD201002-00122.TIF -- Nobel Prize press conference with Glenn T. Seaborg, Clyde Wiegand, Harold Fidler (background), and Emilio Segre (center), taken October 26, 1959. Morgue 1959-20 (P-2)
- XBD201002-00123.TIF -- Portrait of Emilio Segre taken after winning the Nobel Prize, taken October 26, 1959. Morgue 1959-20 (P-4)
- XBD201002-00124.TIF -- Nobel Prize press conference with (left to right): Clyde Wiegand, Emilio Segre, Herbert Steiner, and Edwin McMillan, taken October 26, 1959. Morgue 1959-20 (P-6)
- XBD201002-00125.TIF -- Nobel Prize press conference with (left to right): Clyde Wiegand, Emilio Segre, and Herbert Steiner, taken October 26, 1959. Morgue 1959-20 (P-10)
- XBD201002-00126.TIF -- Nobel Prize press conference with (left to right): Edwin McMillan, Emilio Segre, and Glenn Seaborg, taken October 26, 1959. Morgue 1959-20 (P-14)
- XBD201002-00127.TIF -- Glassblower, operated by Norm Phillips, taken November 1959. Morgue 1959-22 (P-1)
- XBD201002-00128.TIF -- Edwin McMillan (left) and Emilio Segre (right) at a research progress meeting (during a three day Russian visit), taken November 10, 1959. Morgue 1959-23 (P-10)
- XBD201002-00129.TIF -- Group examining the 72-inch bubble chamber (during a three day Russian visit), taken November 12, 1959. Luis Alvarez (left) and Edwin McMillan (right). Morgue 1959-23 (P-65)
- XBD201002-00130.TIF -- James Born (right) with Russian visitors in the 184-inch cyclotron medical cave, taken November 12, 1959. Edwin McMillan (left). Morgue 1959-23 (P-69)
- XBD201002-00131.TIF -- Bob West and Bonnie Thompson of the Alvarez Group looking at a track picture in the Bevatron control room, taken October 2, 1963. Morgue 1959-25 (P-3). Photo taken for J. Walter Thompson.
- XBD201002-00132.TIF -- David Kearns with the small solar battery he developed under the direction of Dr. Melvyn Calvin, taken January 1959. Morgue 1959-26 (P-1)
- XBD201002-00134.TIF -- Tom Sibary, Harold Vogel, and Gordon Harding, in electronics engineering discussing ignitron problems, taken January 1959. Morgue 1959-27 (P-1)
- XBD201002-00135.TIF -- Cans are loaded into the sphere for the 72-inch bubble chamber. Left to right: Ross Lamb (Mechanical Equipment), Frank Barrera (mechanical engineering), Mel West (mechanical equipment), Herb Johnson (mechanical shops), Joe Holdener (mechanical shops), Lou Sylvia (mechanical equipment), Robbie Smits (physics research), and Bob Stagner (plant services), taken January 1959. Morgue 1959-29 (P-1)
- XBD201002-00136.TIF -- Publicity shot of Glenn Seaborg lecturing on the discovery of elements 97 (berkelium) and 98 (californium), taken May 19, 1950. Morgue 1956-6 (P-2)

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XBD201002-00137.TIF -- The experimenters of the coulomb-excitation studies gather in front of an oscilloscope. Left to right: Jerry Igo (physicist), Bent Elbek (physicist), Dick Brower (graduate student, chemistry), and Dick Diamond (chemist), taken October 1959. Morgue 1959-59 (P-1)

XBD201002-00139.TIF -- John Lawrence and Associates. From left to right, standing: Tor Brustad, Thomas Wikramanayake, Milorad Radotic, John Johnson, Taijune Yoo, Efraim Otero-Ruiz, Tiero Arioti, Jorde Braun-Cantilo. Left to right, seated: Cornelius Tobias, John Gofman, Maria Lourdes-Rangel, John Lawrence, Robert Mortimer, and James Born, taken January 11, 1960. Taken at Donner Lab. Morgue 1960-3 (P-1)

XBD201002-00140.TIF -- The last univac run was performed by Jonnie Daw (Computation Division), seated. Left to right, standing: Stan Helmecci (Computation Division); Ed Lafranchi, Cedric Eastburn, and Marv Lehman (Electronics Engineering); Sidney Fernbach (Head of Computation and Theoretical Divisions); Pierre Noyes (Theoretical Division); and John Hudson (Computation Division), taken November 1959. Morgue 1959-115 (P-1)

XBD201002-00142.TIF -- Clyde Wiegand and associates, from left: unknown individual, Tom Ypsilanti, Clyde Wiegand, and Tom Elieff, taken April 26, 1960. Morgue 1960-12 (P-1)

XBD201002-00143.TIF -- Russian Visitors, left to right: Vladimirskiy, Brooks, Neyazhskiy, Edwin McMillan, Kolomenskiy, Stolov, Dmitriyevskiy, and Edward Lofgren, taken July 18, 1960. Morgue 1960-18 (P-1)

XBD201002-00144.TIF -- Emilio Segre, Edwin McMillan, V.I. Spitsyn (Russian visitor), Glenn Seaborg, Earl Hyde, and Isadore Perlman, taken October 20, 1960. Morgue 1960-26 (P-1)

XBD201002-00145.TIF -- Emilio Segre, Glenn Seaborg, unknown individual, V.I. Spitsyn (Russian visitor),. Earl Hyde, Edwin McMillan, and Isadore Perlman, taken October 20, 1960. Morgue 1960-26 (P-2)

XBD201002-00146.TIF -- Emilio Segre, Glenn Seaborg, unknown individual, Hyde, V.I. Spitsyn (Russian visitor), Edwin McMillan, and Isadore Perlman (head turned), taken October 20, 1960. Morgue 1960-26 (P-3)

XBD201002-00147.TIF -- Portrait of Donald Glaser, taken December 1, 1960. Morgue 1960-29 (P-1)

XBD201002-00148.TIF -- Portrait of Donald Glaser, taken December 1, 1960. Morgue 1960-29 (P-4)

XBD201002-00149.TIF -- Portrait of Donald Glaser, taken December 1, 1960. Morgue 1960-29 (P-7)

XBD201002-00150.TIF -- Foreign students in Donner Laboratory with (left to right, seated): James Born, Arne Engstrom (Sweden), Hardin Jones, John Lawrence, John Gofman, and Howard Mel, taken December 15, 1960. Morgue 1960-31 (P-1)

XBD201002-00151.TIF -- Portrait of Enrico Fermi. From Emilio Segre personal collection. Morgue 1960-33 (P-1)

XBD201003-00159.TIF -- Working rapidly, physicist Vern Ehlers adjusts the atomic-beam machine, which will give him data on nuclear and atomic spin of gallium-70. (Helicopter aids Berkeley physicists working with fast-decaying elements). Taken, January 1960. Morgue 1960-36 (P-2)

XBD201003-00160.TIF -- A solid-state counter is displayed by Berkeley chemist Bill Hansen, who has spent the past year perfecting this device for counting atomic particles. Taken, March 1960. Morgue 1960-44 (P-1)

XBD201003-00161.TIF -- The move to Berkeley Building 90 begins. Here Anne Bowman (Accounting) displays a temporary signpost showing where the various offices are located. Taken, July 1960. Morgue 1960-58 (P-1)

XBD201003-00162.TIF -- A Dewar container for liquid nitrogen is being repaired by oxy-acetyline soldering at this Livermore shop. Dick Jessing (standing) solders while Fred Hathhorn holds the Dewar. Taken, January 1960. Morgue 1960-65 (P-3)

XBD201003-00163.TIF -- The Livermore Laboratory played host to members of the Weapons

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subcommittee of the General Advisory Committee to the Atomic Energy Commission at a meeting on January 13. Gathered in the Director's office for briefings on current Livermore activities are (left to right) Edwin McMillan, Laboratory Director; Jane Hall, Los Alamos Scientific Laboratory Assistant Director; Robert Wilson, Chairman of the Board, Standard Oil of Indiana; Kenneth Pitzer, Dean of the University of California's College of Chemistry; Edward Teller, Livermore Laboratory Director; and the late James McRae, Vice President of American Telephone and Telegraph (AT&T) and former President of Sandia Laboratory. Morgue 1960-70 (P-1)

XBD201003-00164.TIF -- Meeting at Livermore Laboratory. Left to right: General (retired) A. R. Luedecke, Atomic Energy Commission (AEC) General Manager; Brigadier General A. D. Starbird, Director of Military Application, AEC; Herbert Loper (seated), Chairman, Military Liaison Committee; John McCone, Chairman, AEC; Edward Teller, Livermore Laboratory Director; Edwin McMillan, Laboratory Director. Morgue 1960-74 (P-1)

XBD201003-00165.TIF -- Ken Mirk left pointing at model of the new cyclotron with Chris Atterling, son of visiting scientist Hugo Atterling of Sweden looking on, December 1960. Open House at Bldg. 88. Morgue 1960-102 (P-1)

XBD201003-00166.TIF -- Prime Minister of Sweden, Tage Erlander and his wife, Aina Erlander visit the Lab. Owen Chamberlain (left), and Edwin McMillan (center), taken April 7, 1961. Morgue 1961-2 (P-1)

XBD201003-00167.TIF -- Party. at Hilac celebrating the discovery of Element 103 (lawrencium) taken April 14, 1961. Morgue 1961-3 (P-3)

XBD201003-00168.TIF -- Prime Minister of Sweden, Tage Erlander and his wife, Aina Erlander visit the Lab. Ed Lofgren (center), taken April 7, 1961. Morgue 1961-2 (P-9)

XBD201003-00169.TIF -- Prime Minister of Sweden, Tage Erlander and his wife, Aina Erlander visit the Lab. Ed Lofgren (second from left), and Edwin McMillan (right), taken April 7, 1961. Morgue 1961-2 (P-14)

XBD201003-00170.TIF -- Prime Minister of Sweden, Tage Erlander and his wife, Aina Erlander visit the Lab. Edwin McMillan (left), taken April 7, 1961. Morgue 1961-2 (P-15)

XBD201003-00171.TIF -- Party at Hilac celebrating the discovery of Element 103 (lawrencium) taken April 14, 1961. Al Ghiorso, left. Morgue 1961-3 (P-33)

XBD201003-00172.TIF -- Party at Hilac celebrating the discovery of Element 103, lawrencium. Edwin McMillan, far right and Isadore Perlman, far left. taken April 14, 1961. Morgue 1961-3 (P-16)

XBD201003-00173.TIF -- Prime Minister of Sweden, Tage Erlander and his wife, Aina Erlander visit the Lab. Edwin McMillan (center), taken April 7, 1961. Morgue 1961-2 (P-22)

XBD201003-00174.TIF -- Glenn Seaborg (left) and Edwin McMillan (right) in conversation, Building 70. Photo taken May 8, 1961. Morgue 1961-5 (P-1)

XBD201003-00175.TIF -- Ambassador (third from right) and Counsel General of Pakistan on tour at Donner with Cornelius Tobias (second from left) and James Born (center), taken May 11, 1961. Morgue 1961-6 (P-1)

XBD201003-00176.TIF -- Ambassador and Counsel General of Pakistan on tour of Lab. Cornelius Tobias (second from left) and Edwin McMillan (third from left), taken May 11, 1961. Morgue 1961-6 (P-4)

XBD201003-00177.TIF -- Personnel in the Graphic Arts Lab (Photolab) setting up photoshoot, Building 10, taken May 16, 1961. Morgue 1961-7 (P-5)

XBD201003-00178.TIF -- Personnel in the Graphic Arts Lab (Photolab) setting up photoshoot, Building 10, taken May 16, 1961. George Kagawa setting up light at right. Morgue 1961-7 (P-6)

XBD201003-00179.TIF -- Emilio Segre's passport photograph, taken June 21, 1961. Morgue 1961-9 (P-1)

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XBD201003-00180.TIF -- Portrait of Harold Fidler, taken July 12, 1961. Morgue 1961-10 (P-5)

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- Box
- 1 XBD201003-00181.TIF -- Portrait of Robert Thornton, taken July 26, 1961. Morgue 1961-13 (P-1)
 - XBD201003-00182.TIF -- Portrait of Robert Thornton, taken July 26, 1961. Morgue 1961-13 (P-3)
 - XBD201003-00183.TIF -- Portrait of Robert Thornton with pipe,. taken July 26, 1961. Morgue 1961-13 (P-7)
 - XBD201003-00184.TIF -- Adlai Stevenson's tour of the Lab with Wally Reynolds (second from left), Adlai Stevenson, Robert Thornton (second from right), and Isadore Perlman. Photo taken August 15, 1961. Morgue 1961-15 (P-8)
 - XBD201003-00185.TIF -- Adlai Stevenson's tour of the Lab with Wally Reynolds (second from left), Adlai Stevenson, Robert Thornton (second from right), and Isadore Perlman. Photo taken August 15, 1961. Morgue 1961-15 (P-9)
 - XBD201003-00186.TIF -- Press conference announcing the discovery of the first solid experimental evidence for the existence of the omega meson resonance. Left to right: M.L. Stevenson (hidden), Bogdan Maglic, Luis Alvarez, and Arthur. Rosenfeld (standing), taken August 30, 1961. Morgue 1961-17 (P-1)
 - XBD201003-00187.TIF -- Press conference announcing the discovery of the first solid experimental evidence for the existence of the omega meson resonance. Left to right along the blackboard: M.L. Stevenson (standing), Bogdan Maglic, Luis Alvarez, and Arthur. Rosenfeld, taken August 30, 1961. Morgue 1961-17 (P-5)
 - XBD201003-00188.TIF -- Press conference announcing the discovery of the first solid experimental evidence for the existence of the omega meson resonance. Left to right: M.L. Stevenson, Bogdan Maglic, Luis Alvarez, Arthur Rosenfeld, and Edwin McMillan, taken August 30, 1961. Morgue 1961-17 (P-7)
 - XBD201003-00194.TIF -- Ernest Orlando Lawrence (right) on couch with unknown individual. See also XBD200106-01001.tif for cropped version. Morgue 1958-8 (P-1)
 - XBD201003-00199.TIF -- Back of the Atoms for Peace Award medal, a memorial to Henry Ford and Edsel Ford awarded to Edwin McMillan and Vladimir I. Veksler in 1963 for development or application of peaceful nuclear technology. Photo taken November 11, 1964. Morgue 1964-61 (P-2)
 - XBD201003-00200.TIF -- Front of the Atoms for Peace Award medal, a memorial to Henry Ford and Edsel Ford awarded to Edwin McMillan and Vladimir I. Veksler in 1963 for development or application of peaceful nuclear technology. Photo taken November 11, 1964. Morgue 1964-61 (P-1)
 - XBD201003-00201.TIF -- Front of the Nobel Prize medal in velvet case, taken November 11, 1964. Morgue 1964-60 (P-1)
 - XBD201003-00202.TIF -- Back of the Nobel Prize medal inscribed Ernest Orlando Lawrence, taken November 11, 1964. Morgue 1964-60 (P-4)
 - XBD201003-00203.TIF -- Back of Nobel Prize medal in velvet case inscribed Ernest Orlando Lawrence, taken November 11, 1964. Morgue 1964-60 (P-3)
 - XBD201003-00204.TIF -- Portrait of Melvin Calvin, taken October 12, 1964. Morgue 1964-57 (P-1)
 - XBD201003-00205.TIF -- Portrait of Dr. Hayden Gordon taken September 15, 1964. Morgue 1964-54 (P-2)
 - XBD201003-00206.TIF -- Portrait of W.B. Reynolds taken July 1964. Morgue 1964-51 (P-1)
 - XBD201003-00207.TIF -- Portrait of Edwin McMillan, taken July 1964. Morgue 1964-49 (P-1)
 - XBD201003-00208.TIF -- Portrait of Dr. Will Siri, taken August 20, 1964. Morgue 1964-46 (P-1)
 - XBD201003-00209.TIF -- Visitor Brother Eric with Dr. Emilio Segre (right), taken August 7, 1964. Morgue 1964-45 (P-3)
 - XBD201003-00210.TIF -- Visitor Brother Eric with Dr. Owen Chamberlain (right), taken August 7, 1964. Morgue 1964-45 (P-2)
 - XBD201003-00211.TIF -- Visitor Brother Eric with Dr. Owen Chamberlain (center), taken August

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7, 1964. Morgue 1964-45 (P-1)
 XBD201003-00212.TIF -- Press conference announcing the discovery of the first solid experimental evidence for the existence of the omega meson resonance, taken August 30, 1961. Art Rosenfeld at blackboard, M.L. Stevenson at left with back to camera, Bogdan Maglich and Luis Alvarez seated center, and Edwin McMillan far right. Morgue 1961-17 (P-8)
 XBD201003-00213.TIF -- Portrait of Bogdan Maglich who with Luis Alvarez, Arthur Rosenfeld, and M.L. Stevenson discovered the first solid experimental evidence for the existence of the omega meson resonance. Photo taken September 27, 1961. Morgue 1961-19 (P-2)
 XBD201003-00214.TIF -- Ernest Orlando Lawrence receiving congratulation for winning the Nobel Prize in 1936. From left: Bill Brobeck, John Lawrence, Luis Alvarez, Edwin McMillan, Donald Cooksey, and Paul Aebersold. XBB688-4790
 XBD201003-00215.TIF -- Donald Cooksey and Ernest Orlando Lawrence holding first cyclotron, 1940. XBB688-4792
 XBD201003-00218.TIF -- Portrait of Dr. Melvyn Calvin, taken October 26, 1961. Morgue 1961-20 (P-2)
 XBD201003-00219.TIF -- Portrait of Dr. Melvyn Calvin, taken October 26, 1961. Morgue 1961-20 (P-4)
 XBD201003-00220.TIF -- Portrait of Dr. Melvyn Calvin, taken October 26, 1961. Morgue 1961-20 (P-5)
 XBD201003-00221.TIF -- Portrait of Dr. Melvyn Calvin, taken October 26, 1961. Morgue 1961-20 (P-11)
 XBD201003-00222.TIF -- Portrait of Dr. Melvyn Calvin standing in front of blackboard holding model, taken October 26, 1961. Morgue 1961-20 (P-14)
 XBD201003-00223.TIF -- Dr. Melvyn Calvin Nobel Prize winner at blackboard during Press Conference, taken November 6, 1961. Morgue 1961-22 (P-14)
 XBD201003-00224.TIF -- Dr. Melvyn Calvin Nobel Prize winner at Press Conference, taken November 6, 1961. Morgue 1961-22 (P-15)
 XBD201003-00229.TIF -- Dr. Melvyn Calvin Nobel Prize winner at Press Conference taken November 6, 1961. Morgue 1961-22 (P-17)
 XBD201003-00230.TIF -- Dr. Melvyn Calvin Nobel Prize winner at Press Conference taken November 6, 1961. Morgue 1961-22 (P-3)
 XBD201003-00231.TIF -- Dr. Melvyn Calvin Nobel Prize winner at reception, taken November 9, 1961. Morgue 1961-23 (P-3)
 XBD201003-00232.TIF -- Dr. Melvyn Calvin Nobel Prize winner at reception with Edwin McMillan, taken November 9, 1961. Morgue 1961-23 (P-5)
 XBD201003-00233.TIF -- Dr. Melvyn Calvin Nobel Prize winner at reception with Edwin McMillan, taken November 9, 1961. Morgue 1961-23 (P-7)
 XBD201003-00234.TIF -- Portrait of Dr. David Judd, theoretical physicist. Photo taken November 14, 1961. Morgue 1961-24 (P-1)
 XBD201003-00235.TIF -- Spark chamber with Richard Eandi, Paul McManigal, and Robert Kenney, taken August 1961. Morgue 1961-36 (P-3)
 XBD201003-00236.TIF -- Beam pipe and target assembly of the Cockcroft-Walton accelerator. Henry "Hank" Catron adjusts a light for optical alignment of the beam pipe, taken February 1961. Morgue 1961-42 (P-3)
 XBD201003-00237.TIF -- Setting up an experiment at the 90-inch cyclotron. Roy Benedict (left) and Leroy Erickson (right), February 1961. Morgue 1961-42 (P-4)
 XBD201003-00238.TIF -- Berkeley Volunteer Fire Department, practice drill. From left: Earl

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Beeman, lieutenant; Jack Thompson, hoseman; Elmer Silva, Chief; and Dick Johnson and Gordon Cave, Engineers. Taken March 1961. Morgue 1961-47 (P-1)

XBD201003-00239.TIF -- Wayne Avilla, Transportation being attended to by nurse Betty McCall at First Aid Station in Livermore, building 161, taken March 1961. Morgue 1961-48 (P-1)

XBD201003-00240.TIF -- Mechanical Shops journeyman James Felter awarded Certificate of Achievement from foremen Carson Haines and Gerald Dishong for completing his apprenticeship, taken March 1961. Morgue 1961-49 (P-1)

XBD201003-00241.TIF -- Portrait of Hal Anger, taken January 24, 1962. Morgue 1962-3 (P-1)

XBD201003-00242.TIF -- Dr. Robert Birge at blackboard, taken January 29, 1962. Morgue 1962-6 (P-2).

XBD201003-00243.TIF -- Institut International De Physique Solvay taken October 1927, with key to individuals. See also International De Physique Solvay October 1933. 1958-8 (P-44); XBD9606-02531.TIF; XBB8202-01729 (complete list of participants and their affiliations see: XBD200911-00979.TIF. . Morgue 1962-15 (P-1)

XBD201003-00244.TIF -- President John F. Kennedy visits Lawrence Radiation Laboratory, March 29, 1962. Morgue 1962-16 (P-2)

XBD201003-00245.TIF -- President John F. Kennedy. with Edwin McMillan, left and Glenn T. Seaborg taken April 17, 1962. Morgue 1962-16 (P-3)

XBD201003-00246.TIF -- Portrait of Warren Dexter, electrical coordinator for 88-inch cyclotron project taken April. 30, 1962. Morgue 1962-21 (P-1)

XBD201003-00247.TIF -- Portrait of Roy Kerth taken May 1, 1962. Morgue 1962-22 (P-1)

XBD201003-00248.TIF -- Portrait of Denis Keeke, taken June 4, 1962. Morgue 1962-28 (P-1)

XBD201003-00249.TIF -- Portrait of Burton J. Moyer, taken July 31, 1962. Morgue 1962-33 (P-6)

XBD201003-00250.TIF -- Portrait of Stanley G. Thompson, taken August 16, 1962. Morgue 1962-36 (P-1); CN 952

XBD201003-00251.TIF -- Dr. Glenn T. Seaborg's old plutonium laboratory in Building 18 (Gilman Hall), taken August 29, 1962. Morgue 1962-38 (P-1); CN 952

XBD201003-00252.TIF -- Dr. Glenn T. Seaborg's old plutonium laboratory in Building 18 (Gilman Hall), taken August 29, 1962. Morgue 1962-38 (P-2); CN 953

XBD201003-00253.TIF -- Dr. Glenn T. Seaborg's old plutonium laboratory in Building 18 (Gilman Hall), taken August 29, 1962. Morgue 1962-38 (P-6)

XBD201003-00254.TIF -- Portrait of William Siri, taken November 2, 1962. Morgue 1962-50 (P-1)

XBD201003-00255.TIF -- Donner Lab administrative heads with model. Left to right: J.H. Lawrence, James Born, Cornelius Tobias, Hardin Jones, John Gofman. Photo taken November 9, 1962. Morgue 1962-53 (P-1)

XBD201003-00256.TIF -- Portrait of Donald Cooksey at his desk, taken March 19, 1954. Morgue 1959-2 (P-14)

XBD201003-00257.TIF -- Ghiorsium bottle. A humorous representation of element ghiorsuim Gr299 described as a worthless metal that "...falls apart in a hell of a hurry." Photo taken November 6, 1962. Morgue 1962-54 (P-1)

XBD201003-00258.TIF -- James Born and J.H. Lawrence with patient. Taken November 1, 1962 during press conference. Morgue 1962-56 (P-1)

XBD201003-00259.TIF -- J.H. Lawrence taken November 15, 1962 during a press conference. Morgue 1962-56 (P-7)

XBD201003-00260.TIF -- Prince Philip on tour with Melvyn Calvin in his lab, taken November 14, 1962. Morgue 1962-57 (P-4)

XBD201003-00261.TIF -- Prince Philip visit to the Bevatron, taken November 14, 1962. Morgue

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1962-57 (P-21)
 XBD201004-00266.TIF -- Prince Philip visit to the Bevatron, taken November 14,1962. Morgue 1962-57 (P-20)
 XBD201004-00267.TIF -- Prince Philip visit to the 184-inch cyclotron, taken November 14,1962. Morgue 1962-57 (P-26)
 XBD201004-00268.TIF -- Prince Philip visit to the 184-inch cyclotron, taken November 14,1962. Morgue 1962-57 (P-29)
 XBD201004-00269.TIF -- Prince Philip visit to the 184-inch cyclotron, taken November 14,1962. Morgue 1962-57 (P-30)
 XBD201004-00270.TIF -- Dr. Edward Teller on the occasion of being presented the Fermi Award, November 15, 1962. Morgue 1962-58 (P-1)
 XBD201004-00271.TIF -- President Clark Kerr , second from left and others looking at model of Lawrence Memorial, taken November 16, 1962. Morgue 1962-60 (P-1)
 XBD201004-00272.TIF -- John F. Kennedy's visit in 1962 with Edwin McMillan and Glenn T. Seaborg. Morgue 1962-68 (P-13)
 XBD201004-00273.TIF -- Prince Philip visit to the 184-inch cyclotron, taken November 14,1962. Morgue 1962-57 (P-35)
 XBD201004-00274.TIF -- John F. Kennedy's visit to Lawrence Berkeley Laboratory in 1962. Morgue 1962-68 (P-14)
 XBD201004-00275.TIF -- John F. Kennedy's visit to Lawrence Berkeley Laboratory in 1962. Morgue 1962-68 (P-15)
 XBD201004-00276.TIF -- KRON TV's first rehearsal for February 26 "Science in Action" show with Earl Herald, Al Ghiorso, and Director Vern Louden. Photo taken March,1962. Morgue 1962-80 (P-6)
 XBD201004-00277.TIF -- Lighting Man's Darkness film clip showing Dr. James Born of Donner Laboratory, injecting iron into patient's arm for studies of blood metabolism. Photo taken March,1962. Morgue 1962-80 (P-9)
 XBD201004-00278.TIF -- New evidence for the "eight-fold way theory of strong interaction. From left to right: Sheldon Glashow, George Kalbfleisch, and Arthur Rosenfeld. Blackboard notation shows how newly discovered particle, Y*-1, fits into an unfilled octet of the "eight-fold way," taken January 4, 1963. See also XBD9609-04561; Morgue 1963-127 (P-1); Morgue 1963-1 (P-3)
 XBD201004-00279.TIF -- New evidence for the "eight-fold way theory of strong interaction. From left to right: Sheldon Glashow, George Kalbfleisch, and Arthur Rosenfeld. Blackboard notation shows how newly discovered particle, Y*-1, fits into an unfilled octet of the "eight-fold way," taken January 4, 1963. Morgue 1963-1 (P-5)
 XBD201004-00280.TIF -- Publicity shot of G. Gura, Inorganic Materials Department, taken January 28, 1963. Morgue 1963-2 (P-2)
 XBD201004-00281.TIF -- Publicity shot of G. Gura and E. Parker, Inorganic Materials Department, taken January 28, 1963. Morgue 1963-2 (P-4)
 XBD201004-00282.TIF -- Dr. Edwin McMillan and Dr. Edward Lofgren in the Bevatron, taken January 31, 1963. Morgue 1963-3 (P-5)
 XBD201004-00283.TIF -- Dr. Edward Lofgren (left) and Dr. Edwin McMillan in the Bevatron, taken January 31, 1963. Morgue 1963-3 (P-9)
 XBD201004-00284.TIF -- Edward Lofgren (left) and Edwin McMillan at Bevatron press conference, taken February 27, 1963. Morgue 1963-6 (P-23)
 XBD201004-00285.TIF -- Bevatron press conference with Edward Lofgren, taken February 27, 1963. Morgue 1963-6 (P-8)
 XBD201004-00286.TIF -- Leroy Kerth, Glen Lambertson, Bruce Cork, Walt Hartsough, and Warren

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Chupp at Bevatron press conference, taken February 27, 1963. Morgue 1963-6 (P-10)
 XBD201004-00287.TIF -- Bevatron press conference with Edward Lofgren, taken February 27, 1963. Morgue 1963-6 (P-13)
 XBD201004-00288.TIF -- Bevatron press conference with Edward Lofgren, taken February 27, 1963. Morgue 1963-6 (P-14)
 XBD201004-00289.TIF -- Bevatron press conference with Edward Lofgren, taken February 27, 1963. Morgue 1963-6 (P-16)
 XBD201004-00290.TIF -- Bevatron press conference, taken February 27, 1963. Morgue 1963-6 (P-20)
 XBD201004-00291.TIF -- R. Johnson (left) and Edwin McMillan Bevatron press conference, taken February 27, 1963. Morgue 1963-6 (P-21)
 XBD201004-00292.TIF -- R. Johnson (left) and Edwin McMillan Bevatron press conference, taken February 27, 1963. Morgue 1963-6 (P-22)
 XBD201004-00293.TIF -- Don Glaser, taken March 20, 1963. Morgue 1963-7 (P)
 XBD201004-00294.TIF -- Don Glaser, taken March 20, 1963. Morgue 1963-7 (P-5)
 XBD201004-00295.TIF -- Edwin McMillan, taken March 20, 1963. Morgue 1963-8 (P-11)
 XBD201004-00296.TIF -- Edwin McMillan, taken March 20, 1963. Morgue 1963-8 (P-12)
 XBD201004-00297.TIF -- David Judd, taken June 28, 1963. Morgue 1963-22 (P-1)
 XBD201004-00298.TIF -- Left to right: Congressman Craig Hosmer, Edwin McMillan, and Edward Bausser, taken September 13, 1963. Morgue 1963-28 (P-2)
 XBD201004-00299.TIF -- Passport photo of Melvin Calvin, taken October 2, 1963. Morgue 1963-32 (P-3)
 XBD201004-00300.TIF -- Junior Science and Humanities Symposium meeting. Owen Chamberlain at head of table, taken October 4, 1963. Morgue 1963-33 (P-1)
 XBD201004-00301.TIF -- Sulamith Goldhaber, taken October 18, 1963. Morgue 1963-34 (P-1)
 XBD201004-00302.TIF -- Ed Lofgren (left), Edwin McMillan (right), and Vladimir Veksler, Russian experimental physicist (center) with the Bevatron model, taken October 28, 1963. Morgue 1963-35 (P-1)
 XBD201004-00303.TIF -- Edwin McMillan (right) and Vladimir Veksler, Russian experimental physicist (left) in the Bevatron control room, taken October 28, 1963. Morgue 1963-35 (P-2)
 XBD201004-00304.TIF -- Edwin McMillan (left) and Vladimir Veksler (right), Russian experimental physicist in the Bevatron control room, taken October 28, 1963. Morgue 1963-35 (P-4)
 XBD201004-00305.TIF -- From right to left, front: Edward Lofgren, Vladimir Veksler, Russian experimental physicist, and Edwin McMillan in the Bevatron control room, taken October 28, 1963. Morgue 1963-35 (P-8)
 XBD201004-00306.TIF -- Gerson Goldhaber, taken October 22, 1963. Morgue 1963-37 (P-1)
 XBD201004-00307.TIF -- Gerson Goldhaber, taken October 22, 1963. Morgue 1963-37 (P-2)
 XBD201004-00308.TIF -- Gerson Goldhaber at blackboard, taken October 22, 1963. Morgue 1963-37 (P-5)
 XBD201004-00309.TIF -- Russian scientists' visit to the Heavy Ion Linear Accelerator. Left to right: Al Ghiorso, Isadore Perlman, A.I. Belov, A.M. Petrosyants, Glenn Seaborg, and G.N. Yakovlev, taken November 21, 1963. Morgue 1963-41 (P-5)
 XBD201004-00310.TIF -- Russian scientists' visit to the Heavy Ion Linear Accelerator. Luis Alvarez, seated. Photo taken November 21, 1963. Morgue 1963-41 (P-6)
 XBD201004-00311.TIF -- Russian scientists' visit to the Heavy Ion Linear Accelerator. Glenn T. Seaborg, Ed Lofgren, and Luis Alvares at center. Photo taken November 21, 1963. See also: XBD201004-00309.tif; XBD201004-00310.tif for associated images. Morgue 1963-41 (P-16)

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XBD201004-00312.TIF -- Portrait of George H. Trilling, taken October 23, 1963. Morgue 1963-42 (P-1)

XBD201004-00313.TIF -- Portrait of Paul Hernandez, taken November 14, 1963. Morgue 1963-43 (P-1)

XBD201004-00314.TIF -- Left to right: Cornelius Tobias and John Lawrence with model, taken December 12, 1963. Morgue 1963-46 (P-3)

XBD201004-00315.TIF -- Harvey White, head of the Lawrence Hall of Science project, and his assistant Jim Murphy, looking at the old 37-inch cyclotron magnet, returned from UCLA. Photo taken December 16, 1963. Morgue 1963-55 (P-1)

XBD201004-00316.TIF -- Harvey White, head of the Lawrence Hall of Science project, and his assistant Jim Murphy, looking at the old 37-inch cyclotron magnet, returned from UCLA. Photo taken December 16, 1963. Morgue 1963-55 (P-7)

XBD201004-00317.TIF -- Cyrill Orly designer of the radiation symbol. Photo taken at the event of his twenty years of service, January, 1963. Morgue 1963-60 (P-1)

XBD201004-00318.TIF -- On the beach in Kauai, Hawaii Lawrence Radiation Laboratory (LRL) scientists prepare a rocket nose cone for its long ride into space. Physicist Dick Albers (right) checks the position of a standard Pu-Be neutron source as George Costello, of Health Physics, monitors neutron scattering at nose cone. Photo taken in the Fall of 1962. Morgue 1963-81 (P-1)

XBD201004-00319.TIF -- Mountain of discarded cans representing 369,000 feet of Bevatron film processed by Technical Photography during the accelerator's first month back in operation after a long shutdown with Phil Larrick, Technical Photographer at right. Photo taken June 1963. Morgue 1963-95 (P-1)

XBD201004-00320.TIF -- Reflected light pours in from the interior of the propane bubble chamber as Powell-Birge Group members Gary Griffin (left) and Russ Parker work on installation of Scotchlite "floor", taken June 1963 by Wilson Powell. Morgue 1963-96 (P-1)

XBD201004-00321.TIF -- Aerial view of the Nevada Test Site taken from a point near Mercury. The view is toward the northeast, over Frenchman Flat (foreground) and Yucca Flat (distant background). The mountains in the foreground and background rise to heights of about 5,000-7,000 feet. Photo taken December 1963. Morgue 1963-125 (P-1)

XBD201004-00322.TIF -- Melvin Calvin (center) and associates, taken January 15, 1964. Morgue 1964-1 (P-3)

XBD201004-00323.TIF -- Isadore Perlman (left) with associate and Frank Asaro (right), taken January 15, 1964. Morgue 1964-1 (P-4)

XBD201004-00324.TIF -- John Rasmussen, Stanley Thompson, and Harry Bowman of the Fission Group, taken February 27, 1964. Morgue 1964-7 (P-1)

XBD201004-00325.TIF -- Luis Alvarez (right) receives the 1963 National Medal of Science from President Johnson, taken January 13, 1964. Morgue 1964-13 (P-1)

XBD201004-00326.TIF -- Luis Alvarez (right) receives the 1963 National Medal of Science from President Johnson, taken January 13, 1964. Morgue 1964-13 (P-2). Copy negative from Luis Alvarez print

XBD201004-00327.TIF -- Luis Alvarez (right) receives the 1963 National Medal of Science from President Johnson, taken January 13, 1964. Morgue 1964-13 (P-3). Copy negative from Luis Alvarez print

XBD201004-00328.TIF -- Luis Alvarez receives the 1963 National Medal of Science from President Johnson, taken January 13, 1964. Morgue 1964-13 (P-4)

XBD201004-00370.TIF -- Fifth anniversary of the operation of the Bubble Chamber. Left to right (standing): Jim Shand, Luis Alvarez, Bob Watt, Glen Eckman, Dick Blumberg, Duane Norgren, Rob

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Smits. Frank Barrera, and Paul Hernandez (seated). Photo taken March 24, 1964. Morgue 1964-14 (P-1)

XBD201004-00371.TIF -- High Energy Physics Conference with C. Lovelace speaking at Bootstrap Session. Photo taken September 1966. Morgue 1966-156

XBD201004-00372.TIF -- Recording session with Donald Cooksey, taken March 26, 1964. Morgue 1964-17 (P-1)

XBD201004-00373.TIF -- John Lawrence and Robert Tym working with a patient at Donner Lab, circa 1963,1964. Morgue 1964-22 (P-1)

XBD201004-00374.TIF -- Passport photo of Herb Steiner, taken May 29,1964. Morgue 1964-26 (P-1)

XBD201004-00375.TIF -- ID photo of Donald Cooksey, taken May 29,1964. Morgue 1964-29 (P-1)

XBD201004-00376.TIF -- ID photo of Robert Thornton, taken May 29,1964. Morgue 1964-32 (P-1)

XBD201004-00377.TIF -- Portrait of Stanley Thompson, taken June 25,1964. Morgue 1964-34 (P-1)

XBD201004-00378.TIF -- Bishop Begin's visit, Edwin McMillan (standing). Photo taken July 22,1964. Morgue 1964-40 (P-4)

XBD201004-00379.TIF -- Portrait of Isadore Perlman, taken July 27,1964. Morgue 1964-42 (P-1)

XBD201004-00380.TIF -- Portrait of Dr. Donald Van Dyke (associate of Cornelius Tobias), taken August 12,1964. Morgue 1964-44 (P-1)

XBD201004-00381.TIF -- Passport photo of John H. Lawrence, taken June 17,1964. Morgue 1964-65 (P-1)

XBD201004-00382.TIF -- Shula Goldhaber (first wife of Gerson Goldhaber), taken circa 1964. Morgue 1964-66

XBD201004-00383.TIF -- Portrait of John H. Lawrence, taken May 27, 1964. Morgue 1964-68 (P-1)

XBD201004-00384.TIF -- Cornelius Tobias and Dr. Bremerman, taken February 4. 1965. Morgue 1965-1 (P-1)

XBD201004-00385.TIF -- Cornelius Tobias and Dr. Bremerman on a poster for the Biophysical Society's 9th annual meeting in San Francisco, taken February 4. 1965. Morgue 1965-1 (P-2). See XBD201004-00384.TIF for source photo

XBD201004-00386.TIF -- Passport photo of Edward Lofgren, taken February 18, 1965. Morgue 1965-2 (P-1)

XBD201004-00387.TIF -- Dr. Ernest Walton, Irish physicist and Nobel Laureate with Edwin McMillan, right. Photo taken April 15,1965. Morgue 1965-5 (P-2)

XBD201004-00388.TIF -- Dr. Ernest Walton, Irish physicist and Nobel Laureate with Edwin McMillan, right. Photo taken April 15,1965. Morgue 1965-5 (P-5)

XBD201004-00389.TIF -- Dr. Ernest Walton, Irish physicist and Nobel Laureate with Edwin McMillan, right. Photo taken April 15,1965. Morgue 1965-5 (P-6)

XBD201004-00390.TIF -- Glenn Seaborg speaking at the Building 62 Dedication Ceremony, taken July 16,1965. Morgue 1965-21 (P-3)

XBD201004-00391.TIF -- Edwin McMillan speaking at the Building 62 Dedication Ceremony, taken July 16,1965. Morgue 1965-21 (P-14)

XBD201004-00392.TIF -- Casual group photo, Ernest Orlando Lawrence (second from right), early 1900s. Morgue 1944-109 (P-1)

XBD201004-00393.TIF -- Portrait of Wallace B. Reynolds at his desk, taken July 27,1965. Morgue 1965-26 (P-3)

XBD201004-00394.TIF -- Owen Chamberlain (centre) with graduate students, taken September 10,1965. Morgue 1965-29 (P-1)

XBD201004-00395.TIF -- Melvin Calvin and Catherine Senselan in the old observatory on campus,

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taken September 30, 1965. Morgue 1965-33 (P-2)
 XBD201004-00396.TIF -- Manuel Calvo, a visitor from Spain with Owen Chamberlain (center) and Emilio Segre (left), taken October 12, 1965. Morgue 1965-35 (P-2)
 XBD201004-00397.TIF -- Placard from the Regents of the University of California honoring Wallace Reynolds, taken October 12, 1965. Morgue 1965-34 (P-1)
 XBD201004-00398.TIF -- Manuel Calvo, a visitor from Spain and Edwin McMillan (left) posing with the chamber of the first cyclotron, taken October 12, 1965. Morgue 1965-35 (P-3)
 XBD201004-00400.TIF -- Princess Margaret's visit to the Radiation Laboratory with Edwin McMillan (center), taken November 6, 1965. Morgue 1965-38 (P-6)
 XBD201004-00401.TIF -- Princess Margaret's visit to the Radiation Laboratory with Emilio Segre (left) and Edwin McMillan (center), taken November 6, 1965. Morgue 1965-38 (P-11)
 XBD201004-00402.TIF -- Princess Margaret's visit to the Radiation Laboratory, exiting the Bevatron with Edwin McMillan on right, taken November 6, 1965. Morgue 1965-38 (P-13)
 XBD201004-00403.TIF -- Princess Margaret's visit to the Radiation Laboratory, descending stairs in the Bevatron with Edwin McMillan on right, taken November 6, 1965. Morgue 1965-38 (P-31)
 XBD201004-00404.TIF -- Wallace B. Reynolds receiving the AEC award from Glenn Seaborg, Edwin McMillan at right. Photo taken November 19, 1965. Morgue 1965-43 (P-1)
 XBD201004-00405.TIF -- Wallace B. Reynolds receiving the AEC award. Left to right: Edwin McMillan, Elsie McMillan, Glenn Seaborg, Wallace Reynolds, and Mrs. Reynolds, taken November 19, 1965. Morgue 1965-43 (P-3)
 XBD201004-00406.TIF -- Portrait of Ken Priestley, taken January 26, 1966. Morgue 1966-2 (P-1)
 XBD201004-00407.TIF -- Passport photo of Stanley Thompson, taken February 7, 1966. Morgue 1966-3 (P-1)
 XBD201004-00408.TIF -- Passport photo of Arthur Rosenfeld, taken March 4, 1966. Morgue 1966-6 (P-1)
 XBD201004-00409.TIF -- Passport photo of Wallace B. Reynolds, taken March 2, 1966. Morgue 1966-8 (P-1)
 XBD201004-00410.TIF -- Portrait of Hal Anger, taken February 17, 1966 on the occasion of 20 years of service. Morgue 1966-10 (P-1)
 XBD201004-00411.TIF -- Ernest Orlando Lawrence in lab. Morgue 1966-11 (P-4)
 XBD201004-00412.TIF -- 60-inch cyclotron with William Brobeck (behind man with hat). Photo taken April 1, 1938. Morgue 1966-11 (P-5)
 XBD201004-00413.TIF -- 25th anniversary of the discovery of plutonium. Group includes Glenn Seaborg and Edwin McMillan, taken February 21, 1966. Morgue 1966-12 (P-1)
 XBD201004-00414.TIF -- 25th anniversary of the discovery of plutonium. Group, including Glenn Seaborg (second from right) with a plaque designating Room 307 of Gilman Hall a National Historic Landmark, taken February 21, 1966. Morgue 1966-12 (P-4)
 XBD201004-00415.TIF -- 25th anniversary of the discovery of plutonium. Group, including Glenn Seaborg (third from right) and Edwin McMillan (left), with a plaque designating Room 307 of Gilman Hall a National Historic Landmark, taken February 21, 1966. Morgue 1966-12 (P-8)
 XBD201004-00416.TIF -- 25th anniversary of the discovery of plutonium with Glenn Seaborg (right), taken February 21, 1966. Morgue 1966-12 (P-10)
 XBD201004-00417.TIF -- 25th anniversary of the discovery of plutonium with Glenn Seaborg, taken February 21, 1966. Morgue 1966-12 (P-14)
 XBD201004-00418.TIF -- 25th anniversary of the discovery of plutonium with Glenn Seaborg giving speech, taken February 21, 1966. Morgue 1966-12 (P-18)
 XBD201004-00419.TIF -- 25th anniversary of the discovery of plutonium, taken February 21, 1966.

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Morgue 1966-12 (P-19)
 XBD201004-00420.TIF -- 25th anniversary of the discovery of plutonium. Group, including Glenn Seaborg and Edwin McMillan, with a plaque designating Room 307 of Gilman Hall a National Historic Landmark, taken February 21, 1966. Morgue 1966-12 (P-21)
 XBD201004-00421.TIF -- Portrait of Arthur Rosenfeld, taken March 3, 1966. Morgue 1966-13 (P-1)
 XBD201004-00422.TIF -- Bio-medical Division director's meeting with Hal Anger (center), taken March 28, 1966. Morgue 1966-15 (P-17)
 XBD201004-00423.TIF -- Edwin McMillan with ion chamber at Crocker Lab, taken March 3, 1966. Morgue 1966-16 (P-8)
 XBD201004-00424.TIF -- Left to right: Jack Hollander, Mike Lederer, and Isadore Perlman, taken March 29, 1966. Morgue 1966-17 (P-1)
 XBD201004-00425.TIF -- Portrait of Gareth Thomas, taken March 31, 1966. Morgue 1966-18 (P-1)
 XBD201004-00426.TIF -- Passport photo of Emilio Segre, taken June 27, 1966. Morgue 1966-25 (P-1)
 XBD201004-00427.TIF -- Portrait of Leo Brewer, taken May 19, 1966. Morgue 1966-25 (P-1)
 XBD201004-00428.TIF -- Group photo taken at the 1966 International Conference on Isochronous Cyclotrons, taken May 12, 1966. Morgue 1966-35 (P-1)
 XBD201004-00429.TIF -- Portrait of Gabor Somorjai, taken May 6, 1966. Morgue 1966-37 (P-1)
 XBD201004-00430.TIF -- Portrait of Rolf Muller, taken May 6, 1966. Morgue 1966-38 (P-2)
 XBD201004-00431.TIF -- Portrait of George Jura, taken May 17, 1966. Morgue 1966-51 (P-1)
 XBD201004-00432.TIF -- Passport photo of Mel Klein, taken June 6, 1966. Morgue 1966-54 (P-1)
 XBD201004-00433.TIF -- Portrait of Marvin L. Cohen, taken June 2, 1966. Morgue 1966-56 (P-1)
 XBD201004-00434.TIF -- Ahmed Fakhry (right), and Jerry Anderson (left), taken July 1, 1966. Morgue 1966-76 (P-3)
 XBD201004-00435.TIF -- Ahmed Fakhry (right), and Luis Alvarez (left), taken July 1, 1966. Morgue 1966-76 (P-5)
 XBD201004-00436.TIF -- Ahmed Fakhry (right), and Luis Alvarez (left), taken July 1, 1966. Morgue 1966-76 (P-6)
 XBD201004-00437.TIF -- Ahmed Fakhry (right), and Luis Alvarez (left), taken July 1, 1966. Morgue 1966-76 (P-7)
 XBD201004-00438.TIF -- Portrait of Paul L. Richards, taken July 8, 1966. Morgue 1966-77 (P-1)
 XBD201004-00439.TIF -- Portrait of Erwin L. Hahn, taken June 28, 1966. Morgue 1966-79 (P-1)
 XBD201004-00440.TIF -- Passport photo of Lola Kelly, taken May 11, 1966. Morgue 1966-80 (P-1)
 XBD201004-00480.TIF -- Luis Alvarez' Egyptian Project Group, taken August 5, 1966. Morgue 1966-95 (P-1)
 XBD201004-00481.TIF -- Passport photo of Daniel Drijard, taken July 13, 1966. Morgue 1966-85 (P-1)
 XBD201004-00482.TIF -- Portrait of Pat Durbin taken on the occasion of her 20 years of service, taken August 12, 1966. Morgue 1966-98 (P-1)
 XBD201004-00483.TIF -- Portrait of Ed Lofgren, taken August 16, 1966. Morgue 1966-110
 XBD201004-00484.TIF -- Portrait of Dr. James Born taken March 2, 1966. Morgue 1966-114
 XBD201004-00485.TIF -- Dr. Gersh Budker, Dr. Edwin McMillan, and unnamed individual at XIIIth High Energy Physics Conference, September 1, 1966. Morgue 1966-117 (P-3)
 XBD201004-00486.TIF -- Dr. Gersh Budker, Dr. Edwin McMillan, and unnamed individuals at XIIIth High Energy Physics Conference, September 1, 1966. Morgue 1966-117 (P-6)
 XBD201004-00487.TIF -- Passport photo of Owen Chamberlain, taken November 1, 1966. Morgue 1966-133

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XBD201004-00488.TIF -- Ansel Adams photographing Director Edwin McMillan, taken November 18, 1966. Morgue 1966-136 (P-1)

XBD201004-00489.TIF -- Ansel Adams photographing Director Edwin McMillan, taken November 18, 1966. Morgue 1966-136 (P-2)

XBD201004-00490.TIF -- Ansel Adams photographing Director Edwin McMillan, taken November 18, 1966. Morgue 1966-136 (P-3)

XBD201004-00491.TIF -- Ansel Adams photographing Director Edwin McMillan, taken November 18, 1966. Morgue 1966-136 (P-4)

XBD201004-00492.TIF -- Ansel Adams photographing Director Edwin McMillan, taken November 18, 1966. Morgue 1966-136 (P-5)

XBD201004-00493.TIF -- Ansel Adams photographing Director Edwin McMillan, taken November 18, 1966. Morgue 1966-136 (P-6)

XBD201004-00494.TIF -- Ansel Adams photographing Director Edwin McMillan, taken November 18, 1966. Morgue 1966-136 (P-8)

XBD201004-00495.TIF -- Leon Van Hove (Belgian physicist, head of Theory Division at CERN), Willibald Jentsche (CERN Director General), Bernard Gregory (CERN), Victor Weisskopf (Manhattan Project), and T.G. Pickavance (CERN/ECFA) at High Energy Physics Conference taken September 1966. Morgue 1966-160

XBD201004-00498.TIF -- Propane bubble chamber with Warren Chupp and Dick Lander taken September 19, 1957. Morgue 1957-7 (P-1)

XBD201004-00502.TIF -- Ansel Adams photographing Director Edwin McMillan, taken November 18, 1966. Morgue 1966-136 (P-7)

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Contents:

XBD9606-02523.TIF -- Workmen at Federal Telegraph smoothing two castings for 80-ton magnets. The tall central pole had to be machined down for use in the cyclotron. Morgue 1944-45 (P-1)

XBD9606-02526.TIF -- 11-inch cyclotron installed in Room 329 Le Conte Hall (University of California at Berkeley, UCB). The first cyclotron to exceed 1 MeV. Morgue 1944-30 (P-1); 8 X 10 neg

XBD9606-02531.TIF -- Participants at seventh Institut International de Physique Solvay Conseil de Physique Solvay, held in Brussels, Belgium in October 1939. Ernest O. Lawrence, Rutherford, Chadwick, Bohr, Heisenberg, and Cockcroft participated. Morgue 1958-8 (P-44), XBB8202-01729. For complete list of participants and their affiliations see: XBD200911-00979.TIF

XBD9608-03591.TIF -- Portrait of Luis Alvarez taken January 2, 1962. Morgue 1962-1 (P-1)

XBD9703-01196.TIF -- 27-inch cyclotron, 1932. Morgue 1944-32 (P-1)

XBD9705-02211.TIF -- Charter Hill as it looked when ground was broken for the 184-inch cyclotron in August, 1940. Morgue 1944-78 (P-1) and 8 X 10 neg

XBD9803-00389.TIF -- M.S. Livingston and Ernest Lawrence beside the 27-inch cyclotron, built in 1934. Morgue 1944-33 (P-1). See also: XBD200904-00162.tif (high resolution file)

XBD200001-00048.TIF -- Cropped version of Ernest Orlando Lawrence and Jesse W. Beams at Yale University. Morgue 1958-8 (P-68), B&W 8x10 negative. XBD200001-00057.TIF uncropped version

XBD200010-01495.TIF -- BEAM EMERGING FROM A MORE RUGGEDLY CONSTRUCTED CHAMBER, OCTOBER 1, 1936. Morgue 1944-37 (P-1) and 8 X 10 negative

XBD200903-00084.TIF -- Preliminary proposal drawing of the 184-inch cyclotron without beam, 1940. Drawing by S.L. Berger. Morgue 1944-56 (P-1) and 8 X 10 negative. For similar see also: XBD200911-00969.TIF; Morgue 1944-57 (P-1); 8 X 10 negative and XBD201002-00152.TIF; Morgue 1944-58 (P-1); 8 X 10 negative

XBD200903-00102.TIF -- David Sloan x-ray tube, taken in 1934 at U.C. Hospital. XBB766-8036

XBD200903-00105.TIF -- 60-inch cyclotron, upper coils being cleaned. Windings for 60-inch cyclotron. Cooksey 177

XBD200903-00124.TIF -- 60-inch cyclotron. Replacing last coil in lower bank, with maple clamps in place taken February 10, 1940. Cooksey 175

XBD200911-00969.TIF -- Preliminary proposal drawing of the 184-inch cyclotron with narrow beam, 1940. Drawing by S.L. Berger. Morgue 1944-57 (P-1) and 8 X 10 neg. For similar see also: XBD200903-00084.TIF; Morgue 1944-56 (P-1) and XBD201002-00152.TIF; Morgue 1944-58 (P-1), and 8 X 10 negative. From page 32 of Historical Book

XBD201002-00152.TIF -- Preliminary proposal drawing of the 184-inch cyclotron with wide beam, 1940. Morgue 1944-58 (P-1) and 8 X 10 neg. For similar see also: XBD200903-00084.TIF -- Morgue 1944-56 (P-1); and 8 X 10 negative; XBD200911-00969.TIF; Morgue 1944-57 (P-1), and 8 X 10 negative. From page 32 of Historical Book

XBD201002-00153.TIF -- Lawrence family portrait, from left (clockwise): Carl Lawrence, Ernest Orlando Lawrence, Gunda Lawrence, and John Lawrence. Morgue 1958-8 (P-88)

XBD201002-00154.TIF -- The Lawrence family home in Springfield, South Dakota. Morgue 1958-8 (P-99)

XBD201004-00399.TIF -- Secretary of Defense Robert McNamara administering the oath of office to (left to right) Norman Paul, Thomas Morris, John Foster, and Harold Brown, taken October 28, 1965. Morgue 1965-37 (P-1)

XBD201004-00497.TIF -- International Conference on Instrumentation for High Energy Physics; Lawrence Radiation Laboratory, Berkeley, California; September 12-14, 1960. Morgue 1960-24 (P-

Ernest Orlando Lawrence Berkeley National Laboratory

Records Transmittal

Division	Department	Filing Code
Directorate	Public Affairs	ARO-6008
Group	Creative Services Offices (CSO)/PhotoLab	
Records Title		
Public Affairs Creative Services Office's PhotoLab's Historic Morgue Collection of Analog And Digital Photographs		

- 1).
 XBD201004-00499.TIF -- 27-inch cyclotron with magnet, built in 1934. Morgue 1944-33 (P-3)
 XBD201004-00500.TIF -- 60-inch cyclotron with Ernest Orland Lawrence, Edwin McMillan, Don Cooksey, William Brobeck, unknown, and Luis Alvarez. Morgue 1944-67 (P-1); XBB 742-TIF
 XBD201004-00501.TIF -- 60-inch cyclotron with Ernest Orland Lawrence, Edwin McMillan, Don Cooksey, William Brobeck, unknown, and Luis Alvarez. Morgue 1944-67 (P-2)
 XBD201004-00503.TIF -- Group photo taken in 1916. Names mentioned in key: Bray, Argo-Lewis-Gray, Olson, Borgstrom-Randall, Parks, Brighton-Cushman, Bisson, Holmstrup-Cummings. Morgue 1944-88 (P-1)
 XBD201004-00504.TIF -- Five unnamed individuals (workmen) standing on Bevatron shielding blocks. Morgue 1963-3 (P-12)
 XBD201004-00505.TIF -- Staff of the Bevatron standing on shielding blocks after big modification program in 1963. McMillan and Ed Lofgren (suits) front center. Morgue 1963-3 (P-4)
 XBD201005-00519.TIF -- Crew involved in the Bevatron modification program. Key to individuals in digital image XBD9705-02169. Morgue 1963-3 (P-3)

Folder

- 3 VERBATIM Archival Grade DVD-R 8X (4 DVD's)

Contents:

4_1_2010 – DISC 1 [VERBATIM Archival Grade DVD-R 8X].
 Contents Summary: XBD9606-02522.TIF – XBD201001-00002.TIF

4_1_2010 – DISC 2 [VERBATIM Archival Grade DVD-R 8X].
 Contents Summary: XBD201001-00003.TIF – XBD201004-00399.TIF

LBNL_Morgue_Photos_Final.xls Contact Sheets_4_1_2010 CS TIFS & PNGS 4_1_2010 – DISC 3 [VERBATIM Archival Grade DVD-R 8X].

Contents Summary: LBNL_Morgue_Photos_Final.xls [superseded by Final_LBNL_Morgue_Photos_Dec_2010.xls sent separately to NARA via email and contained in Folder 4 (Verbatim DataLifePlus CD-RW:

Final_LBNL_Morgue_Photos_Dec_2010.xls

) of this box); XBD201004-00400.TIF – XBD201005-00519.TIF; ZBD200106-01288.TIF; ZBD200803-00098.TIF.

XBD9606-02522.PNG – XBD201005-00519.PNG; ZBD200106-01288.PNG; ZBD200803-00098.PNG.

040110_CS:

ContactSheet-001.tif – ContactSheet-060.tif

4_1_2010 – DISC 4 [VERBATIM Archival Grade DVD-R 8X].

Contents: XBD9807-01876.png; XBD200008-01247.png; XBD200904-00161.TIF

Ernest Orlando Lawrence Berkeley National Laboratory

Records Transmittal

Division	Department	Filing Code
Directorate	Public Affairs	ARO-6008
Group	Creative Services Offices (CSO)/PhotoLab	
Records Title		
Public Affairs Creative Services Office's PhotoLab's Historic Morgue Collection of Analog And Digital Photographs		

- | | |
|--------|--|
| Folder | <p>4 Verbatim DataLifePlus CD-RW:
Final_LBNL_Morgue_Photos_Dec_2010.xls</p> <p>Contents:</p> <p>Excel file named Final_LBNL_Morgue_Photos_Dec_2010.xls containing metadata for this accession. NOTE: supersedes the file named LBNL_Morgue_Photos_Final.xls contained on the DVD named LBNL_Morgue_Photos_Final.xls Contact Sheets_4_1_2010 CS TIFS & PNGS 4_1_2010 – DISC 3 [VERBATIM Archival Grade DVD-R 8X] contained in Folder 3 of this box.</p> |
| Folder | 5 Signed 258 |
| Folder | 6 Contact Sheets [NOTE: this folder is laid on top of Box 1 contained in this box] |