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Records, 1921-1974

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Collection Overview

Repository:	Smithsonian Institution Archives, Washington, D.C., *osiaref@si.edu*
Title:	Records
Identifier:	Accession 06-134
Date:	1921-1974
Extent:	3 cu. ft. (3 record storage boxes)
Creator::	Science Service
Language:	Language of Materials: English

Administrative Information

Prefered Citation

Smithsonian Institution Archives, Accession 06-134, Records

Descriptive Entry

This accession consists of photographs, captions, and press releases related to modern physics, with emphasis on atomic physics and accelerators. These files were originally part of the research files compiled by and for journalists who worked at Science Service from the 1920s through the 1960s.

The informational "morgue" files were organized according to the Library of Congress classification scheme. Most folders contain a mix of editorial correspondence, press releases, newspaper clippings, brochures, and photographs. Folders on physics facilities built in the 1950s and 1960s tend to contain primarily news releases, clippings, and copies of Science Service stories. Many folders assembled during the 1930s contain issues of the Daily Mail Report which are not preserved in Smithsonian Institution Archives, Record Unit 7091, Series 8.

Some of the photographs in these files were taken by members of the Science Service staff, especially Fremont Davis; most were supplied by companies, universities, and government agencies. If a photograph was used by Science Service, it was given an index number and a tracking sheet. Other related Science Service news files are in Record Unit 7091, Accessions 01-122, 01-243, 90-068, 90-105, and 93-019 and in curatorial collections in Smithsonian Institution museums.

Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

Journalism, Scientific
Nuclear energy
Nuclear physics
Physics
Science -- History

Types of Materials:

Black-and-white photographs
Brochures
Clippings
Manuscripts

Names:

Davis, Fremont, 1915-1977

Container Listing

Box 1

Box 1 of 3	Folder 1 QC Atoms, 1929-1951, part 1 of 2. Includes photographs of General Electric Company research; I.S. Bowen in Robert A. Millikan's laboratory; models of atomic structure; images of neon and argon atoms; Fremont Davis photograph of nuclear bombardment demonstration in June 1938; and science exhibits of atomic structure, 1924-1934.
Box 1 of 3	Folder 2 QC Atoms, 1929-1944, part 2 of 2. Includes photographs of atomic structure, atomic collisions, and models of atoms; Francis Bitter with model of iron crystal; H. E. White with physics apparatus; H. E. White's 1931 photos of hydrogen atom; and G. E. Locher with lightweight Wilson Cloud Chamber.
Box 1 of 3	Folder 3 QC Neutron, 1931, 1932, 1933. Correspondents include James Chadwick; includes press releases, journal articles, and handwritten notes by Watson Davis and other staff journalists describing work by Chadwick and Pauli in 1932.
Box 1 of 3	Folder 4 QC Neutron, 1934-1936. Includes scientific journal articles by Chadwick and Niels Bohr; discussion of Bohr's research.
Box 1 of 3	Folder 5 QC Neutron, 1934-1935. Correspondents include Donald Caley and R. M. Langer; includes R. M. Langer's corrections to Daily Mail Report, January 18, 1934; and 1934 radio interview with E. O. Lawrence.
Box 1 of 3	Folder 6 QC Stratosphere balloon and gondola - Stevens-Kepner flight, ca. 1934. Press releases issued by National Geographic Society and others about flight by William E. Kepner and Albert W. Stevens to measure cosmic rays.
Box 1 of 3	Folder 7 QC Artificial radioactivity, 1934-1943. Correspondents include Charles Pettitt and Sterling Fisher; includes 1934 and 1935 Daily Mail Report stories about radium research by E. O. Lawrence and J. D. Cockcroft; draft and corrections of 1934 story on Joliot-Curie work.
Box 1 of 3	Folder 8 QC Atoms - Artificial transmutations, 1929-1935. Includes journal tear sheets for articles by J. D. Cockcroft and James Chadwick.
Box 1 of 3	Folder 9 QC Artificial radioactivity - Joliot, 1934. Includes Victor Cofman handwritten 1934 reports on Joliot and Daily Mail Report for March 1934.
Box 1 of 3	Folder 10 QC Cathode rays - W. D. Coolidge , 1926. Includes correspondence with W. D. Coolidge; newspaper clippings on Coolidge research; Daily Science News Bulletin for October 20, 1926; and Science Illustrated Feature for October 23, 1926.
Box 1 of 3	Folder 11 QC Cathode rays, 1926-1933, part 1 of 2. Includes manuscript for James Stokley's Radio Broadcast article, 1926; press releases, ca. 1950-51.

Box 1 of 3	Folder 12 QC Cathode rays, 1926-1933, part 2 of 2. Includes press coverage of W. D. Coolidge's work and General Electric press releases; articles by Allen B. DuMont.
Box 1 of 3	Folder 13 QC Radioactivity, 1930-1939, part 1 of 2. Includes 1904 reprint of Marie Curie's thesis; reprints of articles by Joliot-Curie, Karl Darrow, and Lord Rutherford.
Box 1 of 3	Folder 14 QC Radioactivity, 1930-1964, part 2 of 2. Includes press clippings and press releases.
Box 1 of 3	Folder 15 QC Atomic structure - He out of H - Cockcroft-Walton, April 1932. Material on research by J.D. Cockcroft and E. T. S. Walton.
Box 1 of 3	Folder 16 QC Cosmic rays - Millikan-Compton discussion, AAAS, Atlantic City, December 30, 1932. Material related to meeting session featuring Robert A. Millikan and Arthur H. Compton.
Box 1 of 3	Folder 17 QC Cosmic rays - Rossi, 1933. Includes research papers of Bruno Rossi.
Box 1 of 3	Folder 18 QC Cosmic physics, 1934-35. Includes material related to news story on W. F. G. Swann.
Box 1 of 3	Folder 19 QC Cosmic rays - Franklin Institute, 1932. Correspondents include Thomas S. Johnson and W. F. G. Swann.
Box 1 of 3	Folder 20 QC Atoms - Curie study of the atom, 1932. Includes photographs taken by Frederick Joliot.
Box 1 of 3	Folder 21 QC Positron (positive electron), 1933-1934. Correspondents include Frederic Joliot and Bruno Rossi; photographs of atomic nuclei made in 1931 by Carl Anderson; notes from Watson Davis interview of Anderson, April 25, 1933.
Box 1 of 3	Folder 22 QC Cosmic rays - Millikan, 1921. Correspondents include G. Ross Robertson; includes notes by Watson Davis of interview with Robert A. Millikan.
Box 1 of 3	Folder 23 QC Cosmic rays, 1938-1965. Correspondents include Robert M. Langer and William Danforth; includes photographs of Carl Anderson and Seth Neddermeyer conducting research in field, 1937 (see also photographs of Anderson and Neddermeyer in Accession 90-105, Bx 16).
Box 1 of 3	Folder 24 QC Cosmic rays - Millikan, 1928-1929
Box 1 of 3	Folder 25 QC Cosmic rays - Work of Creighton Jones and Arthur E. Ruark, 1938. Includes photographs of research by T. H. Johnson and J. C. Street on summit of Mt. Washington, 1932.
Box 1 of 3	Folder 26 QC Cosmical physics - Millikan experiments, 1925

Box 1 of 3	Folder 27 TK Electricity, high voltage - Carnegie Institution atom smasher, 1939, part 1 of 2. Includes Fremont Davis photograph of Merle Tuve in 1938; material on electrostatic generators and cyclotrons, 1939-1944.
Box 1 of 3	Folder 28 TK Electricity, high voltage - Carnegie Institution atom smasher, 1939, part 2 of 2. Includes Fremont Davis photographs of research facilities and construction at Carnegie Institution; includes photographs of R. C. Meyers and Richard B. Roberts.
Box 1 of 3	Folder 29 QC Cathode rays, 1927-1947. Includes R. H. George photograph of cathode ray oscillograph; photographs from General Electric, Sylvania, and General Motors.
Box 1 of 3	Folder 30 Q Science - President's Science Advisory Board, 1933. Includes photograph of board.
Box 1 of 3	Folder 31 Q National Roster of Scientific and Specialized Personnel. Folder was empty.
Box 1 of 3	Folder 32 QC Electron Diffusion Instrument, 1948.
Box 1 of 3	Folder 33 QD Radium, part 1 of 3. Includes George L. Beam's photograph of climbers on Little Long House Trail at Mesa Verde; Fremont Davis photographs of Lyman Briggs; LaBine Point, Echo Bay, radium mine; Westinghouse photographs of radium research; machinery parts for radium processing.
Box 1 of 3	Folder 34 QD Radium, part 2 of 3. Includes photographs of uranium mining in Canada and Colorado, "atomophone," NBS radium technician Constance Torrey, Robley D. Evans demonstrating early Geiger counter, U. S. Bureau of Mines Radium Laboratory in Denver, bags of radium piled at railroad depot for shipment, and Gilbert LaBine on site at Port Radium, Great Bear Lake, Northwest Territories.
Box 1 of 3	Folder 35 QD Radium, part 3 of 3. Includes photograph of man "breathing radium emanations for rheumatism," Failla's "radium bomb" therapy, and "atomophone."
Box 1 of 3	Folder 36 QC Electrons, 1929-1943. Includes photographs from General Electric Company and Westinghouse; photographs of E. O. Lawrence.

Box 2

Box 2 of 3	Folder 1 QC Accelerators - Synchrotron and cyclotron, 1946-1968. Includes photographs of facilities in industry, universities, and government.
Box 2 of 3	Folder 2 QC Accelerators - Bevatron, 1968
Box 2 of 3	Folder 3 QC Accelerators - Cambridge , 1962
Box 2 of 3	Folder 4 QC Accelerators - Cambridge Electron Accelerator, 1966-1968

Box 2 of 3	Folder 5 Miscellaneous photographs, 1939-1959. Includes material about synchrotron, bevatron, and other accelerator facilities.
Box 2 of 3	Folder 6 QC Accelerators - Moletron (Princeton University), 1967
Box 2 of 3	Folder 7 QC Accelerators - CERN (28 GeV - intersecting storage rings - proton synchrotron), 1959-1962. Includes materials related to European Organization for Nuclear Research.
Box 2 of 3	Folder 8 QC Accelerators - MURA, 1957-1967
Box 2 of 3	Folder 9 QC Accelerators, 1950-1959. Includes material for employees of University of California Radium Laboratory at Berkeley and copy of Radiation and You (1951).
Box 2 of 3	Folder 10 QC Accelerators - Synchrotron, 1949-1966
Box 2 of 3	Folder 11 QC Accelerators - Cyclotron, 1935-1949. Includes December 18, 1945, issue of Los Alamos Newsletter and "Constitution of the Association of Los Alamos Scientists;" script for University of California "Explorer" radio program; background material for 1935 Robert D. Potter story about E. O. Lawrence.
Box 2 of 3	Folder 12 QC Accelerators - Cyclotron, 1950-1959
Box 2 of 3	Folder 13 QC Accelerators - Nuclear emulsion scanner
Box 2 of 3	Folder 14 QC Accelerators - Omnitron, 1967-1968
Box 2 of 3	Folder 15 QC Accelerators - Princeton - Penna - 3-BeV Proton. Material on the Princeton-Pennsylvania proton accelerator, 1962-1972.
Box 2 of 3	Folder 16 QC Accelerators - Van de Graff MP-II, 1961-1969. Includes material on Tandem Van de Graff accelerators, such as the Emperor Tandem Van de Graff at Yale University.
Box 2 of 3	Folder 17 QC Accelerators - Synchro-cyclotrons, 1938-1963. Material on cyclotrons at Carnegie Institute of Technology, Columbia University, University of Chicago, and University of California.
Box 2 of 3	Folder 18 QC Accelerators - Atom Smashing. Folder was empty; some of its material was probably misfiled in previous Folder 17.
Box 2 of 3	Folder 19 QC Accelerators - Stanford - SLAC (Storage ring), 1967-1974. Includes material on SPEAR.
Box 2 of 3	Folder 20 QC Accelerators - Linear - various, 1940-1967
Box 2 of 3	Folder 21 QC Accelerators - Superconducting, 1967-1972
Box 2 of 3	Folder 22 QC Accelerators - Yale University - Emperor Tandem Van de Graff, 1963-1966

Box 2 of 3	Folder 23 QC Accelerators - Safety manual, 1968. Includes manuals published by National Bureau of Standards.
Box 2 of 3	Folder 24 QC Accelerators - Sozotron, 1965. Material on electron storage ring built by U.S. Navy.
Box 2 of 3	Folder 25 QC Accelerators - Storage rings, 1967. Information about German Double Storage.
Box 2 of 3	Folder 26 New York State Atomic and Space Development Authority Annual Report, April 1, 1965, through March 31, 1966
Box 2 of 3	Folder 27 Miscellaneous material on accelerators, 1947-1967. News releases on Van de Graaff generators, Klystron, and Cyclo-Graaff.
Box 2 of 3	Folder 28 "Archivwurdig." Correspondents include John R. Dunning, Robert D. Potter, and Karl T. Compton; Watson Davis interview notes.
Box 2 of 3	Folder 29 Miscellaneous material. Includes news stories on accelerators; draft of 1931 news story about Walter Bothe's research on artificial gamma rays.
Box 2 of 3	Folder 30 QC Accelerators - Strong focusing, 1952-1953
Box 2 of 3	Folder 31 QC Accelerators - Stanford - Mark III - linear, 1948-1952
Box 2 of 3	Folder 32 QC Accelerators - SLAC, 1959-1967
Box 2 of 3	Folder 33 QC Accelerators - 200 BeV - Weston, Illinois, 1966-1968. Includes Ann Ewing's notes on April 1967 high-energy physics planning meeting.
Box 2 of 3	Folder 34 QC Accelerators - 200 BeV - superproton, 1965-1967. Includes Ann Ewing's notes from interviews and physics meetings.
Box 2 of 3	Folder 35 QC Accelerators - Russia - Serpukhov protonsynchrotron, 1956-1973. Includes M. Stanley Livingston's notes of a 1958 meeting at Thermotechnical Institute in Moscow; Ann Ewing's interview notes from 1956.
Box 2 of 3	Folder 36 QC Accelerators - National Accelerator Laboratory (NAL) - 200 BeV -Batavia, 1967-1972
Box 2 of 3	Folder 37 QC Accelerators - Cambridge Electron 6 BeV (MIT and Harvard), 1960-1965. Includes press releases about fire and explosion at Cambridge Electron Accelerator in 1965.
Box 2 of 3	Folder 38 QC Accelerators - Brookhaven synchrotron, 1954-1964
Box 2 of 3	Folder 39 QC Accelerators, 1960-1962. Includes material on multi-use accelerators.

Box 2 of 3	Folder 40 QC Accelerators - CERN - 28 GeV - Intersecting Storage Rings, 1964-1973
Box 2 of 3	Folder 41 QC Accelerators, 1967-1970
Box 2 of 3	Folder 42 QC Accelerators - Apache - Oak Ridge National Laboratory
Box 2 of 3	Folder 43 QC Accelerators - Argonne 22 MeV (pulse radiolysis), 1970
Box 2 of 3	Folder 44 QC Accelerator radiation safety, 1965
Box 2 of 3	Folder 45 QC Accelerators, 1946-1948

Box 3

Box 3 of 3	Folder 1 QC Atomic energy, 1947. Includes Watson Davis notes from August 1947 groundbreaking for Brookhaven's atomic pile structure.
Box 3 of 3	Folder 2 QC Accelerators - CERN - 300 GeV - Colliding Beam Proton Synchrotron, 1968-1973
Box 3 of 3	Folder 3 QC Accelerators - Chalk River, Ontario - MP Tandem Van de Graff, 1963-1968
Box 3 of 3	Folder 4 QC Accelerators - Chemical, 1962-1968
Box 3 of 3	Folder 5 QC Accelerators - Cornell University electron synchrotron - 10 BeV, 1965-1968
Box 3 of 3	Folder 6 QC Accelerators - Cosmotron, 1952-1966. Includes Ann Ewing's notes.
Box 3 of 3	Folder 7 QC Accelerators - Cyclo-Graaff - Research Triangle, North Carolina - 30 MeV, 1969
Box 3 of 3	Folder 8 QC Accelerators - Betatron, 1942-1950. Includes Allis-Chalmers press materials.
Box 3 of 3	Folder 9 QC Accelerators - Bevatron, 1950-1971
Box 3 of 3	Folder 10 QC Accelerators - Bevatron and Meson, 1946. Correspondents include Joseph Kaplan; includes General Electric group photograph with such scientists as E. O. Lawrence, Eugene Wigner, Hans A. Bethe, Marcel Schein, and Harvey Brooks.
Box 3 of 3	Folder 11 QC Accelerators - Proton-synchrotron (Chilton, England) - 7 GeV "Nimrod," 1963
Box 3 of 3	Folder 12 QC Accelerators - Russia - ERA - Electron storage ring - Novosibirsk, 1968-1970
Box 3 of 3	Folder 13 QC Accelerators - Cyclotron, 1960-1970

Box 3 of 3	Folder 14 QC Accelerators - Cyclotron UCLA 50 MeV, 1960
Box 3 of 3	Folder 15 QC Accelerators - Cyclotron - medical use - U.S. Navy, 1961-1969
Box 3 of 3	Folder 16 QC Accelerators - Electron-Positron - Wisconsin PSL, 1967
Box 3 of 3	Folder 17 QC Accelerators - Electrostatic (atomic gun) - California Institute of Technology, 1960
Box 3 of 3	Folder 18 QC Accelerators - Epitron, 1958
Box 3 of 3	Folder 19 QC Accelerators - Future - Super - 1963-1966
Box 3 of 3	Folder 20 QC Accelerators - Japan 40 BeV, 1967-1971
Box 3 of 3	Folder 21 QC Accelerators - LINAC - National Bureau of Standards, 1960
Box 3 of 3	Folder 22 QC Accelerators - Megatron, 1959
Box 3 of 3	Folder 23 QC Accelerators - Meson factory - Los Alamos National Laboratory, 1967-1974
Box 3 of 3	Folder 24 QC Accelerators - Mevatron 50