
Descriptive Summary

Title: Robert F. Bacher Papers,

Date (inclusive): 1924-1994

Collection number: 10105-MS

Creator: Bacher, Robert F. (Robert Fox) 1905-2004

Extent: 40 linear feet

Repository: California Institute of Technology. Caltech Archives
Pasadena, California 91125

Abstract: The working papers, correspondence, publications, photos and biographical materials of Robert F. Bacher (1905-2004) form the collection known as the Papers of Robert F. Bacher in the Archives of the California Institute of Technology. Bacher was a nuclear physicist who during World War II worked on radar at the MIT Radiation Laboratory and then from 1943 at Los Alamos on the atomic bomb. He was one of the first members of the US Atomic Energy Commission (1946-49). He served on the faculty and in the administration of the California Institute of Technology from 1949 until his retirement in 1976.

Physical location: California Institute of Technology, Caltech Archives

Language of Material:

Languages represented in the collection:

EnglishRussianGerman

Access

The collection is open for research. Researchers must apply in writing for access.

Publication Rights

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Preferred Citation

[Identification of item], Robert F. Bacher Papers, 10105-MS, Caltech Archives, California Institute of Technology.

Acquisition Information

Robert F. Bacher began donating his papers to the Caltech Archives in 1989. The donation was completed by his children in several installments, ending in 2000.

Biography

Robert Fox Bacher was born in 1905 in Loudenville, Ohio. He attended the University of Michigan, receiving a BS degree in 1926 and a PhD in 1930. His research in the early 1930s focused on spectroscopy and nuclear physics, concentrating on atomic energy states and hyperfine structures. Many of his early papers were collaborative in nature, and included work with Samuel Goudsmit, with whom he coauthored Atomic Energy States in 1932.

In 1935 Bacher joined the faculty at Cornell University, where he concentrated on such subjects as neutron scattering and the development of new techniques for exploring the inner structure of the atom with bubble and cloud chambers. Also, he co-wrote with H. A. Bethe and M. S. Livingston several famous articles on nuclear physics, many of which were republished in Reviews of Modern Physics and which for years remained a standard textbook in the field.

During World War II, he worked first in the radar program at the MIT Radiation Laboratory, under Lee DuBridge. After Robert Oppenheimer urged him to do so, Bacher moved to Los Alamos to work on the Manhattan Project in 1943. There, he served first as head of the division of experimental physics (1943-1944), then as head of the bomb physics division (1944-1945). As such, Bacher was a key figure in the construction of the atomic weapons that exploded at Trinity site in July of 1945 and then over Hiroshima and Nagasaki the following month. After the war Bacher returned to Cornell as professor of physics but soon thereafter relocated to Washington to serve as one of the first members of the new United States Atomic Energy Commission. As a member of this new government organization, Bacher participated in

many of the meetings of the fledgling United Nations Atomic Energy Commission and therefore played a significant role in the formation of national and international policy concerning the use of atomic energy and nuclear weapons.

In 1949, Bacher finally accepted an offer to come to Caltech as chairman of the Division of Physics, Mathematics and Astronomy, a position that he held for thirteen years. As chairman, he initiated and promoted numerous programs of considerable importance to the Institute, including the construction of the new electron synchrotron which by the summer of 1952 was operating at 500 Mev. Bacher was also responsible for enlisting key members of Caltech's research group in particle physics, led by professors Richard P. Feynman and Murray Gell-Mann. He also played a significant part in "Project Vista" in the summer of 1951. Although his time as an experimental physicist dwindled during these years, Bacher nonetheless retained a keen interest in the development of particle physics and ensured Caltech remained at the forefront of the discipline.

In 1961, the Institute realized that it needed a highly-skilled administrator to deal with the increasingly complex activities of the campus. With the blessing of the Divisions, the President and the Board of Trustees, Caltech created the new position of Provost and in 1962 Bacher became its first incumbent. As Provost, his activities centered on the development of the divisions, but also included various venture funds, plans to implement computing resources and faculty ethics. In 1969, Bacher was appointed Vice-president as well, and even after resigning from this position and the provostship his administrative duties remained significant: he was instrumental in the development of the Owens Valley Radio Observatory for radio astronomy, he sat on a number of committees at the Jet Propulsion Laboratory and he continued to influence many of the important policies at Caltech.

Meanwhile, Bacher's influence outside of the California Institute of Technology remained strong. After resigning from the Atomic Energy Commission, he continued to counsel the President as a member of the President's Science Advisory Committee (PSAC) while he also participated in the activities of a host of corporations and professional organizations: the American Physical Society, Edison Electric, the Hughes Aircraft company, the Claremont colleges, the National Academy of Sciences, Rand Corporation and the Universities Research Association to name but a few. In addition, Bacher's opinion concerning nuclear power and weapons was sought the world over, and for this reason he remained an important sounding board for such associations as The California Seminar on Arms Control and Foreign Policy and the Bulletin of the Atomic Scientists. By 1990, however, Bacher had considerably curtailed these activities, and moved to Montecito, California. He died in 2004.

Scope and Content

Robert Fox Bacher began donating his papers to the Archives at the California Institute of Technology in 1989. Comprising 70 boxes and approximately forty linear feet, the collection encompasses most of Bacher's distinguished career. The scientific work represented in the collection includes his early research in the physics laboratory of the University of Michigan, his experimental labors for the Manhattan Project and, at the California Institute of Technology, his participation in the high-energy synchrotron. The majority of the collection is devoted to Bacher's administrative duties, consulting services and professional work. This includes Bacher's work as head of experimental physics in Los Alamos, his involvement in the fledgling UN Atomic Energy Commission, his role in the President's Science Advisory Committee (PSAC) and his responsibilities within the Universities Research Association (URA). As head of physics and as Provost, Bacher was also an influential administrator at Caltech, and his substantial involvement in the various affairs of the Institute are well represented in the collection. In addition to the extensive documents in the collection are a considerable number of photographs and artifacts which testify to the considerable breadth of Bacher's career.

The first series, Bacher's correspondence, encompasses approximately ten per cent of the collection and ranges from the late nineteen-twenties to the early nineties. Notably, there is extensive correspondence between Bacher and Hans Bethe, Samuel Goudsmit and J. Robert Oppenheimer. A number of Nobel recipients are represented in this series as well, including Albert Einstein, Richard Feynman, Robert A. Millikan, Neils Bohr, Enrico Fermi, Linus Pauling, Bertrand Russell and William Fowler. Although the bulk of correspondence related to Caltech is housed in Series 6, there are numerous letters by such correspondents as Harold Brown, Lee DuBridge and Richard Tolman.

Series 2 of the collection is a combination of Bacher's pre-war laboratory investigations, his research and managerial duties in Los Alamos and, also, later accounts of the Manhattan Project. His pre-war work, from the University of Michigan and Cornell University, includes notebooks, teaching material and the research notes that led to his publications. The second sub-series of the series houses material from the second world war: correspondence and notes from the MIT Radiation Laboratory; documents related to the organization of the various divisions at Los Alamos; correspondence with J. Robert Oppenheimer and Richard Tolman; and documents concerning the explosion of the first nuclear device. (Researchers should see also Series 1 for additional correspondence with Tolman and Oppenheimer, and Series 5.3 for additional material relating to Oppenheimer.) The final sub-series of the series contains reports and reminiscences both published and manuscript of the atomic bomb project at Los Alamos.

The third series provides detailed accounts of Bacher's diverse activities in conjunction with the US Government. While the series includes documents concerning his work for governmental branches such as the Air Force and the President's Science Advisory Committee (PSAC), the bulk of the material relates to his office within the US Atomic Energy Commission. Like Series 3, the fourth series evinces Bacher's tremendous abilities as an administrator. Among the professional organizations in which he was involved are the National Academy of

Sciences, the International Union of Pure and Applied Physics (IUPAP), the International Council of Scientific Unions (ICSU) and the Universities Research Association (URA).

Series 5, "Post-War nuclear security, arms control and nuclear energy," is closely related to both the third and fourth series: The first sub-series consists of much of Bacher's "unofficial" involvement in the debates about atomic weapons and defense, while the second revolves around atomic energy for domestic use. Additionally, the final sub-series is devoted to J. Robert Oppenheimer, and comprises writings by Oppenheimer, documents and ephemera relating to the USAEC's Commission in the Matter of J. R. Oppenheimer, and numerous sketches of Oppenheimer's life.

Series 6 contains material that relates directly to the California Institute of Technology. Each sub-series is organized in chronological order, starting with the oldest material. Because of Bacher's heavy involvement in the project, the first sub-series deals principally with the Caltech synchrotron, its operation and its eventual shut-down. (Researchers should be aware that the Archives has a separate collection dealing exclusively with the Caltech synchrotron.). However, since Bacher was head of physics the sub-series also houses material related to other activities as well: organization of and planning for the Division of Physics, Mathematics and Astronomy; exchange programs with other laboratories; and matters concerning astronomical observatories. The second sub-series concerns Bacher's provostship and therefore involves a diverse array of matters in which the Institute was involved, ranging from planning for the future of the divisions to disciplinary actions against Linus Pauling. Similarly, the fourth, fifth and sixth sub-series involve various institutional matters, albeit during the years when Bacher was not Caltech's Provost.

The seventh and eighth series are somewhat more personal in nature. Series 7 consists of Bacher's own writings and talks, as well as a number of interviews that Bacher gave, mostly during the 1980s. The writings include dozens of pre-war scientific reprints, but also numerous non-technical publications from the 1940s-1980s. However, the series also contains over twenty manuscripts of talks and lectures on various subjects ranging from arms control to reminiscences of the Manhattan Project, although researchers should note that Bacher's biographical sketch of Oppenheimer is contained in Series 5.3. Series 8, "Biographical Material," contains documents and objects spanning eight decades. It includes souvenirs and memorabilia, diaries, newspaper clippings, ID cards and numerous awards. Bacher was also a fanatical note-taker, and the series also contains copious "notes to self."

Bacher's extensive reprint collection comprises the ninth series. Containing some of the most important research papers published in the twentieth century, the collection not only reflects the development of nuclear physics from the 1930s through the 1960s but also how an individual's--i.e. Bacher's--research interests and extensive collegial network evolved over time. The final series contains an assortment of images and objects that span seven decades. Within the first sub-series are both photographs and glass slides, including images of the Manhattan Project, particle accelerators and astronomical observatories. Also, there are numerous portraits of Bacher and photos of committees of which Bacher was part. The artifacts in the second sub-series are various, ranging from radiation detectors to a musical recording of Bacher's retirement ceremony.

Related Material

Papers of Lee A. DuBridge

Papers of William A. Fowler

Papers of Robert L. Walker

Records of the Caltech Synchrotron Laboratory

Papers of Murray Gell-Mann

Robert Bacher collection, Los Alamos National Laboratory

[Interview with Robert F. Bacher](#)

A summary of the Bacher holdings in the Caltech Archives, including photos and audio-video material, may be obtained through the [Caltech Archives' web site](#) .

Indexing Terms

The following terms have been used to index the description of this collection in the library's online public access catalog.

Subjects

California Institute of Technology

Los Alamos Scientific Laboratory

Massachusetts Institute of Technology-Radiation Laboratory

U.S. Atomic Energy Commission

United States. President's Science Advisory Committee

Bethe, Hans Albrecht
Bohr, Niels Henrik David
Brown, Harold
DuBridge, Lee Alvin
Einstein, Albert
Fermi, Enrico
Feynman, Richard Phillips
Fowler, William A.
Gell-Mann, Murray
Goudsmit, Samuel Abraham
Oppenheimer, J. Robert
Pauling, Linus
Russell, Bertrand
Tolman, Richard Chace
Accelerators-United States-California
Arms control
Atomic bomb
Manhattan Project (U.S.)
Nuclear physics

Series 1. CORRESPONDENCE: PERSONAL AND INSTITUTIONAL

Box 1, Folder 1 **Agnew, Harold 1973-1978**
 Box 1, Folder 2 **Alvarez, Luis W. 1948-1988**
 Box 1, Folder 3 **American Philosophical Society 1979-1986**
 Box 1, Folder 4 **Anderson, Herbert L. 1940-1983**
 Box 1, Folder 5 **The Arms Control Association 1986-1990**
 Box 1, Folder 6 **Associated Universities Inc. 1966-1971**
Atomic Energy Commission See: Series 3, U.N. Atomic Energy Commission See: Series 3, U.S. Atomic Energy Commission
 Box 1, Folder 7 **Atoms for Peace Awards Inc. 1957-1969**
 Box 1, Folder 8 **Avery, Stanton R. 1970-1984**
 Box 1, Folder 9 **A Miscellaneous**
 Box 1, Folder 10 **Badash, Lawrence 1974-1983**
 Box 1, Folder 11 **Bainbridge, Kenneth 1973-1987**
 Box 1, Folder 12 **Baker, Charles P. 1941-1985**
 Box 1, Folder 13 **Bakker, C. J. 1948**
 Box 1, Folder 14 **Ballen, Samuel 1982**
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 Box 1, Folder 16 **Bell, Whitefield J. Jr. 1980-1981**
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 Box 1, Folder 25 **British Broadcasting Corporation (BBC) 1978-1982**
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 Box 1, Folder 29 **Brown, Harold (see also: Series 6.2) 1969-1984**
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 Box 2, Folder 6 **Chang, James T. H. 1972**
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 Box 2, Folder 12 **Compton, Karl T. 1948-1953**
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Box 3, Folder 6 **Goudsmit, Samuel and Irene 1930-1939**
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Note

(file closed per Archivist. Review on October 1, 2010)

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Haley, Morris See: Carnegie Corporation of New York and Common Cause
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Box 3, Folder 14 **Haskins, Caryl P. 1969-1975**
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Box 5, Folder 14	Panofsky, W. K. H. 1962-1986
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Box 5, Folder 16	Penney, Sir William 1966-1989
Box 5, Folder 17	Percy, Charles H. 1968-1983

Box 5, Folder 18	Pentz, M. J. 1974-1975
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Box 5, Folder 21	Platt, Joseph 1966-1988
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	Rabinowitch, Eugene See: Bulletin of the Atomic Scientists
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Box 5, Folder 27	Radium Chemical Corporation 1938-1950
Box 5, Folder 28	Ramo, Simon 1966-1967
Box 5, Folder 29	Ramsey, Norman 1963-1974
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Box 5, Folder 32	Reed, Charles K. 1978-1980
Box 5, Folder 33	Robertson, Howard P. 1955-1961
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Box 6, Folder 3	Sands, Matthew 1953-1985
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Box 6, Folder 5	Scientists and Engineers for Secure Energy 1988
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	Seidman, Irving See: Quimby, Shirley L.
Box 6, Folder 8	Seitz, Frederick 1955-1975
Box 6, Folder 9	Selfridge, George C. 1947
Box 6, Folder 10	Serafini, Anthony 1984
Box 6, Folder 11	Shelton, Frank H. 1991-1992
Box 6, Folder 12	Silverman, Albert 1985
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Box 6, Folder 15	Smith, Lloyd 1948-1949
Box 6, Folder 16	Smyth, Henry D. 1949-1987
Box 6, Folder 17	Stanley, George M. 1952-1953
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Box 6, Folder 19	Stone, Marshall H. 1986-1987
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Box 6, Folder 21	Suits, C. Guy 1950-1960
Box 6, Folder 22	The Sunset Club 1964-1987
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Box 6, Folder 24	Sutherland, Sir Gordon 1939-1972
Box 6, Folder 25	Sa-SI Miscellaneous
Box 6, Folder 26	Sm-Sz Miscellaneous
Box 6, Folder 27	Tape, Gerald F. 1961-1980
Box 6, Folder 28	Teem, John M. 1974
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Box 6, Folder 30	Teller, Edward 1951-1979
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Box 6, Folder 35 **Truman, Harold 1947-1949**
Box 6, Folder 36 **Truman Library 1976**
Box 6, Folder 37 **Tsien, Hsue Shen 1950**
Box 6, Folder 38 **Tuttle, William M. 1976**
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Box 7, Folder 1 **Union of Concerned Scientists (see also: Series 4.1) 1981-1985**
United Nations Atomic Energy Commission See: Series 3
U.S. Atomic Energy Commission See: Series 3

Box 7, Folder 2 **U.S. Department of State: Bureau of Public Affairs 1986**
Box 7, Folder 3 **Unz, Ron K. 1985-1986**
Box 7, Folder 4 **Urey, Harold 1939-1947**
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Box 7, Folder 6 **V miscellaneous**
Box 7, Folder 7 **Walker, Robert L. 1949-1984**
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Box 7, Folder 9 **Waymack, William W. 1949-1956**
Box 7, Folder 10 **Weaver, Warren 1955-1958**
Box 7, Folder 11 **Weisskopf, V. F. 1948-1965**
Box 7, Folder 12 **WGBH Television 1986**
Box 7, Folder 13 **Wheeler, John A. 1964-1985**
Box 7, Folder 14 **Wilson, Carroll L. 1979**
Box 7, Folder 15 **Wilson, Robert R. (see also: Bulletin of the Atomic Scientists) 1948-1987**
Box 7, Folder 16 **Winnett, P. G. 1952**
Box 7, Folder 17 **Wouk, Herman 1973-1976**
Box 7, Folder 18 **Wyden Books 1983-1984**
Box 7, Folder 19 **W miscellaneous**
Box 7, Folder 20 **Yntema, Theodore O. 1966-1974**
Box 7, Folder 21 **York, Herbert 1973-1987**
Box 7, Folder 22 **X, Y, Z miscellaneous**
Box 7, Folder 23 **Unidentified correspondence**

Series 2. NUCLEAR PHYSICS AND THE MANHATTAN PROJECT 1925-1949

Subseries 1. PHYSICS RESEARCH, UNIVERSITY OF MICHIGAN AND CORNELL University of Michigan

Box 8, Folder 1	Analytic Wave Functions (notes) 1928
Box 8, Folder 2	S. Goudsmit, Hyperfine Structures (galley and notes) 1929
Box 8, Folder 3	Bacher and Goudsmit, Der Paschen-Back-Effekt der Hyperfeinstruktur 1930
Box 8, Folder 4	Bacher and Campbell, Test of Hyperfine Structure Theory (manuscript, notes and correspondence) 1931-1932
Box 8, Folder 5	Bacher and Campbell, Nuclear Moments of Indium and Gallium, (manuscript and notes) 1931
Box 8, Folder 6	Bacher and Goudsmit, Atomic Energy States: Contract and correspondence 1929-1932
Box 8, Folder 7	Bacher and Goudsmit, Atomic Energy States: Tables 1932
Box 8, Folder 8	Bacher and Goudsmit, Atomic Energy States: Desk copy (with notes and corrections) 1932
Box 8, Folder 9	Bacher and Condon, The Spin of the Neutron (manuscript and notes) 1932
Box 8, Folder 20	Bacher and Goudsmit, Anomalies in Hyperfine Structure (manuscript and notes) 1933
Box 9, Folder 1	Goudsmit, Nuclear Magnetic Moments (manuscript, notes and offprint) 1933
Box 9, Folder 2	The Interaction of Configurations; SD-P2 (manuscript and notes) 1933
Box 9, Folder 3	Note on the Magnetic Moment of the Nitrogen Nucleus (galley and manuscript) 1933
Box 9, Folder 4	Bacher and Goudsmit, Atomic Energy Relations: manuscript and correspondence 1934
Box 9, Folder 5	Bacher and Goudsmit, Atomic Energy Relations: calculations, tables and notes 1934
Box 9, Folder 6	Bacher and Goudsmit, The Electrostatic Interaction of Atoms (manuscript) 1934
Box 9, Folder 7	Bacher and Sawyer, Isotope Shift in Magnesium (manuscript) 1934 Teaching material, reports, and notes
Box 9, Folder 8	Lectures on partial differential equations ca.1928
Box 9, Folder 9	Student examination material 1928-1930
Box 9, Folder 10	National Research Council Report 1931
Box 9, Folder 11	Isoelectronic spectra undated
Box 9, Folder 12	D-electron and miscellaneous calculations undated
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Box 13, Folder 2	Diffusion of neutrons ca.1935-1940

Box 13, Folder 3	Nuclear Moments (manuscript) 1936
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Box 13, Folder 18	Nuclear Physics, 711 (lectures notes) 1941
Box 14, Folder 1	Cyclotron proposal ca.1941
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Box 14, Folder 3	Bacher et al., Slow Neutron Velocity (galleys and correspondence) 1946-1947
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Box 15, Folder 1	D. C. Swanson, Energy Losses of Fast Neutrons 1938
Box 15, Folder 2	R. F. Kingsbury, Calibration of Portable Ionization Chambers 1939
Box 15, Folder 3	J. G. Hoffman, Experimental Studies of the Properties of Slow Neutrons 1939
Box 15, Folder 4	B. L. Moore, Examination of the Absorption Method 1940
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Box 17, Folder 10	His Majesty's Stationery Office, Statements Relating to the Atomic Bomb 1945
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Box 18, Folder 10	Cornell Laboratory of Nuclear Studies Jan 1946
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Box 18, Folder 12	Committee on Denaturing of Atomic Explosives (with notes 1980) Apr 1946
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Box 18, Folder 16	Los Alamos Super [H] Bomb, 1946-1971 (see also: Los Alamos Super [H] Bomb history; Series 5.1 & 5.3)
Box 18, Folder 17	J. H. Manley, Secret Science (includes declassified correspondence re) 1949-195
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Box 57, Folder 3 **Källén, G.–Kemble, E.**
Box 57, Folder 4 **Kerman, A.–Kiess, C.**
Box 57, Folder 5 **Kimura, M.–Kittel, C.**
Box 57, Folder 6 **Klinkenberg, P.–Korsching, H.**
Box 57, Folder 7 **Kramers, H.–Kusch, P.**
Box 58, Folder 1 **Ladenburg, R.–Lapointe, C.**
Box 58, Folder 2 **Langer, M.–Lawson, J.**
Box 58, Folder 3 **Lazarus, J.–Lindhard, J.**
Box 58, Folder 4 **Livingood, J.–Livingston, M.**
Box 58, Folder 5 **Locher G.–Lyshede, J.**
Box 58, Folder 6 **McDonald, W.–McMillan, E.**
Box 58, Folder 7 **Madsen, C.–Matheson, L.**
Box 59, Folder 1 **Mathews, J.–Meem Jr, J.**
Box 59, Folder 2 **Meggers, W.F.**
Box 59, Folder 3 **Meggers, W.F.**
Box 59, Folder 4 **Mei, J.–Meyerott, R.**
Box 59, Folder 5 **Michel, F.–Mitchell, A.**
Box 59, Folder 6 **Møller, C.–Morris, D.**
Box 59, Folder 7 **Morse, P.–Mulliken, R.**
Box 60, Folder 1 **Nadi, M.–Nier, A.**
Box 60, Folder 2 **Nilsson, S.–Nörlund, N.**
Box 60, Folder 3 **O'Bryan, H.–Otto, W.**
Box 60, Folder 4 **Palit, P.–Paschen, F.**
Box 60, Folder 5 **Paul, F.–Pauling, L.**
Box 60, Folder 6 **Peacock, C.–Pieper, G.**

Box 60, Folder 7 **Plain, G.–Price, B.**
Box 60, Folder 8 **Radziński, B.–Rasetti, F.**
Box 61, Folder 1 **Rasmussen, H.–Ritschl, R.**
Box 61, Folder 2 **Roberts, A.–Rosen, N.**
Box 61, Folder 3 **Rossel, J.–Rumbaugh, L.**
Box 61, Folder 4 **Russell, H. N.**
Box 61, Folder 5 **Russell, H. N.**
Box 61, Folder 6 **Rustgi, M.–Sawyer, R.**
Box 61, Folder 7 **Saylor, D.–Schönberg, M.**
Box 62, Folder 1 **Schüler, H.**
Box 62, Folder 2 **Schuurmans, P.–Setti, R.**
Box 62, Folder 3 **Shankland, R.–Shortley, G.**
Box 62, Folder 4 **Shull, C.–Slater, J.**
Box 62, Folder 5 **Slawsky, Z.–Smith, S.**
Box 62, Folder 6 **Snell, A.–Sommers, H.**
Box 63, Folder 1 **Steffensen, J.–Sutherland, G.**
Box 63, Folder 2 **Svartholm, N.–Szilard, L.**
Box 63, Folder 3 **Tamor, S.–Tolanski, S.**
Box 63, Folder 4 **Tomboulin, D.–Tuve, M.**
Box 63, Folder 5 **Uehling, E.–Van Lear Jr., G.**
Box 63, Folder 6 **Van de Graaf, R.–de Vries, H.**
Box 64, Folder 1 **Wäffler, H.–Whaling, W.**
Box 64, Folder 2 **Wheeler, J.A.–Williams, R.**
Box 64, Folder 3 **Wilson, R.–Wyndham, J.**
Box 64, Folder 4 **Yagoda, H.–Yovits, M.**
Box 64, Folder 5 **Zachariasen, F.–Zwicker, B.**

Series 10. IMAGES AND ARTIFACTS

Subseries 1. PHOTOGRAPHIC IMAGES, NEGATIVES AND GLASS SLIDES

Box 65, Folder 1	Manhattan Project: declassified photos 1944-1945
Box 65, Folder 2	Manhattan Project: Trinity detonation 1945
Box 65, Folder 3	Manhattan Project: Trinity detonation 1945
Box 65, Folder 4	Manhattan Project: Los Alamos High School Yearbook 1981
Box 65, Folder 5	Hiroshima and Nagasaki: "Little Boy," "Fat Man," and explosion aftermath 1945
Box 65, Folder 6	Nevada Proving Ground 1951, 1953
Box 65, Folder 7	Bikini Atoll: Bravo explosion 1954
Box 65, Folder 8	Cornell cloud chamber experiments ca.1938-1960
Box 65, Folder 9	Images from cyclotrons and synchrotrons
Box 65, Folder 10	Caltech synchrotron
Box 65, Folder 11	Caltech synchrotron
Box 65, Folder 12	Negative pion experiment 1971
Box 65, Folder 13	National Accelerator Laboratory 1973
Box 65, Folder 14	Fermi Lab undated
Box 66, Folder 1	Pioneer V, Cape Canaveral (RAND Corporation) 1960
Box 66, Folder 2	Mars Surveyor 1964
Box 66, Folder 3	Mars Mariner and Viking 1969, 1976
Box 66, Folder 4	Voyager II and Ranger VII 1979
Box 66, Folder 5	Voyager Uranus encounter 1986
Box 66, Folder 6	Owens Valley, Mount Wilson, Palomar and other observatories undated
Box 66, Folder 7	Atomic Energy Commission: Hanford 1947
Box 66, Folder 8	Atoms for Peace: Geneva conference 1958
Box 66, Folder 9	Atoms for Peace: award recipients 1960-1961
Box 66, Folder 10	Soviet Union physics exchange trip 1960
Box 66, Folder 11	Physics conference, unidentified undated
Box 66, Folder 12	Bell and Howell (with Eisenhower); RAND
Box 66, Folder 13	Committees and assemblies (various) undated
Box 66, Folder 14	Committees and assemblies (various) undated
Box 66, Folder 15	Caltech-JPL
Box 66, Folder 16	Bacher-Tolman house
Box 66, Folder 17	Bacher portraits
Box 66, Folder 18	Bacher portraits
	Glass slides
Box 67, Folder 1	Los Alamos and the atomic bomb
Box 67, Folder 2	Cloud and bubble chamber images and diagrams
Box 67, Folder 3	Cloud and bubble chamber images and diagrams
Box 67, Folder 4	Cloud and bubble chamber images and diagrams
Box 67, Folder 5	Synchrotron and cyclotron images and diagrams
Box 67, Folder 6	Synchrotron and cyclotron images and diagrams
Box 67, Folder 7	Synchrotron and cyclotron images and diagrams
Box 67, Folder 8	Nuclear reactors
Box 67, Folder 9	Soviet high energy physics trip
Box 67, Folder 10	Soviet high energy physics trip
Box 67, Folder 11	Soviet high energy physics, RESA meeting 1960
Box 67, Folder 12	Soviet high energy physics, RESA meeting 1960

Subseries 2. ARTIFACTS

(Oversize Box)

Subseries 2. **ARTIFACTS**

Box 68, Folder 1	Gamatek Radiation Detector (1)
Box 68, Folder 2	Gamatek Radiation Detector (2)
Box 68, Folder 3	U.N. Atomic Energy Commission ore samples (1)
Box 68, Folder 4	U.N. Atomic Energy Commission ore samples (2)
Box 68, Folder 5	U.N. Atomic Energy Commission ore samples (3)
Box 68, Folder 6	Radio Receptor Co. Raytheon tube
Box 68, Folder 7	"Jimmy and Nancy meet Mr. Atom" film clip undated
Box 68, Folder 8	Copper engraving blocks (1)
Box 68, Folder 9	Copper engraving blocks (2)
Box 68, Folder 10	Copper engraving blocks (3)
Box 68, Folder 11	Copper engraving blocks (4)
Box 68, Folder 12	AEC 25th anniversary commemorative coin 1971
Box 68, Folder 13	Radiation shield
Box 68, Folder 14	Radiation shield (used at Trinity site) 1945
Box 68, Folder 15	Unidentified item (Oversize Box)
Box 69, Folder 1	Caltech Stock Company music album 1955
Box 69, Folder 2	"Let's Advance on Science" Caltech Stock Company music album 1975
Box 69, Folder 3	"Songs from Academic Life" undated
Box 69, Folder 4	"The Bacher File" (retirement ceremony) 1970
Box 69, Folder 5	Edward Teller interview (audio tape) 1980
Box 69, Folder 6	"Our World: 1949" (video) 1987
Box 69, Folder 7	Bacher interview for BBC, "Yesterday's Witness in America" 1976
Box 69, Folder 8	Bacher interview (audio cassette) 1983
Box 69, Folder 9	Bacher interview (video-cassette; part II only) Jun 1984
Box 69, Folder 10	Caltech Alumni honorary membership certificate undated
Box 69, Folder 11	Korean Physical Society commemorative souvenir
Box 69, Folder 12	Rand bomb damage effect computer (Oversize Box)
Box 70, Folder 1	The Bacher-Tolman house (photo album) undated
Box 70, Folder 2	A scrap book for Bacher from the Division of Physics, Mathematics and Astronomy (photo album) 1976
Box 70, Folder 3	Oversize photos: the Caltech synchrotron 1954
Box 70, Folder 4	Oversize photos: Caltech Board of Trustees 1969
Box 70, Folder 5	Oversize photos: Throop Hall undated
Box 70, Folder 6	Group and committee photographs (oversize)
Box 70, Folder 7	Life Magazine, Citizens give ideas in crisis 1958
Box 70, Folder 8	NRC fellowship certificate (Oversize Poster Tube)
Box 71, Folder 1	Photo of the first AEC members at the first AEC meeting 1946
Box 71, Folder 2	National Academy of Science: certificate of membership 1947
Box 71, Folder 3	American Philosophical Society: certificate of membership 1948
Box 71, Folder 4	American Academy of Arts and Sciences: certificate of membership 1953

Series 11. ITEMS REMOVED FROM PAPERS

The following books, which contain contributions from Robert Bacher, were removed from the collection and deposited in the library of the Archives.

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The following books from the Bacher collection were integrated into the Caltech Archives' library: persons wishing to consult these monographs should refer to the catalog of the Caltech Library System (CLAS).

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