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Guide to the Felix Bloch Papers

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Stanford University. Libraries.Department of Special Collections and University Archives
Stanford, California
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Note

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Overview

Call Number: SC0303

Creator: Bloch, Felix, 1905-

Title: Felix Bloch papers

Dates: 1931-1987

Physical Description: 32 Linear feet

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Custodial History

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Information about Access

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Cite As

[Identification of item], Felix Bloch Papers (SC0303). Dept. of Special Collections and University Archives, Stanford University Libraries, Stanford, Calif.

1905	Born in Zurich, Switzerland on October 23 to Gustav and Agnes Bloch.
1923	Begins study of engineering at the Federal Institute of Technology in Zurich.
1924	Switches to the physics curriculum at the Institute.
1927	Graduates and leaves for the University of Leipzig at the suggestion of his instructor Peter Debye.
1927	Begins graduate work at Leipzig under the direction of Werner Heisenberg and becomes his first graduate student.
1928	Publishes his first paper: Radiation Damping in Quantum Mechanics.
1928	Obtains Ph.D. from University of Leipzig. Publishes thesis Uber die Quantenmechanik der Elektronen in Kristallgittern, on the quantum mechanics of electrons in crystal lattices.
1928-29	Assistant in theoretical physics to Wolfgang Pauli in Zurich. Begins work on superconductivity.
1929-30	Fellow of the Lorentz Foundation with H. A. Kramers in Utrecht.
1930-31	Assistant to Heisenberg at the University of Leipzig.
1931	Fellow of the Oersted Foundation with Niels Bohr in Copenhagen.
1932-33	Privatdozent in theoretical physics in Leipzig. Begins work on theories of ferromagnetism and of electron conductivity.
1933	Offered position at Stanford University.
1933-34	Fellow of the Rockefeller Foundation with Enrico Fermi in Rome.
1934	Leaves Europe to become Acting Associate Professor of physics at Stanford University.
1936	Appointed Professor of Physics at Stanford University.
1937	Elected member of the American Physical Society.
1939	Naturalized as American citizen.
1939-40	Works with Dr. Luis Alvarez of the University of California at Berkeley on the determination of the magnetic moment of the neutron.
1940	Marries Lore Clara Misch on March 14.
1941	Twins George Jacob Bloch and Daniel Arthur Bloch born on January 15.
1942-43	Conducts research at Los Alamos on uranium fission and implosion as part of the Manhattan Project.

1943-45	Associate group leader in the theoretical division of the Radio Research Laboratory at Harvard under direction of F. E. Terman.
1945	Son Frank Samuel Bloch born January 16.
1945	Begins research at Stanford on nuclear magnetism. This leads to discovery of nuclear induction.
1946	First paper on nuclear induction published.
1948	Walker-Ames visiting professor at the University of Washington for the summer.
1948	Elected member of the National Academy of Sciences.
1948	Attended the Solvay Conference in Brussels.
1949	Daughter Ruth Hedy Bloch born September 15.
1952	Nobel Prize in Physics shared with Dr. E. M. Purcell of Harvard University for developments in nuclear induction (nuclear magnetic resonance).
1954-55	First Director General of the European Center for Nuclear Research (CERN) in Geneva, Switzerland.
1958	Elected to the Board of Governors of the Weizmann Institute of Science in Rehovoth, Israel.
1958	Elected honorary fellow of the Weizmann Institute of Science.
1959	Awarded honorary Ph.D. from Grenoble University.
1960	Awarded honorary Ph.D. from Oxford University.
1962	Awarded honorary Ph.D. from University of Jerusalem.
1962	Appointed Max H. Stein Professor of Physics at Stanford University.
1962	Elected honorary fellow of the Hebrew University in Jerusalem.
1964	Elected Vice President of the American Physical Society.
1964	Magnet used by Bloch for the first resonance measurements of organic molecules transferred to Smithsonian Institute's Museum of History and Technology.
1965	President of the American Physical Society.
1966	Awarded honorary Ph.D. from University of Zurich.
1966	Conference at Stanford, Forty Years of Electrons in Metals, honoring Bloch's scientific contributions.
1970	Elected honorary member of the Societe Francaise de Physique.
1971-83	Professor Emeritus of Physics at Stanford University.
1972	H. A. Lorentz Professor of Physics at the University of Leiden, Holland.
1975	Awarded honorary Ph.D. from Gustavus Adolphus College.
1976	Awarded honorary Ph.D. from Brandeis University.
1977	Awarded honorary Ph.D. from the University of Pavia.
1978	Received Honor Award from American Committee for the Weizmann Institute of Science.
1980	Awarded honorary Ph.D. from the Federal Institute of Technology (ETH) in Zurich.
1982	Elected honorary member of the Physical Society of Zurich.
1983	Dies in Zurich on September 10.

Biographical Note

The Life and work of Felix Bloch

Felix Bloch was born in Zurich, Switzerland on October 23, 1905, the son of Jewish parents Gustav and Agnes Bloch. From 1912 to 1918, Bloch attended the public primary school. After attending the Gymnasium of the Canton of Zurich from 1918 to 1924, Bloch passed his Matura examination, enabling him to study at an institution of higher learning. Interested in science from an early age, he had studied astronomy and was fascinated by mathematics. But his father was a wholesale grain dealer and Bloch recognized the practical necessity of earning a living.

When Bloch enrolled at the Federal Institute of Technology in Zurich in the fall of 1924, he began studying engineering. He soon found, however, that his interests really lay in theoretical directions; after a year, he decided, putting all practicality aside, to switch to the study of physics, considered at that time an entirely useless field since it led to no material achievements. His instructors included several eminent physicists: Peter Debye, Hermann Weyl, and Erwin Schroedinger. Debye, from whom Felix took his first introductory course in physics, left in 1927 to take a position at the University of Leipzig in Germany and urged his young student to join him. Bloch went to Leipzig and there began graduate work under the newly appointed professor of theoretical physics, twenty-six year old Werner Heisenberg.

Working with Heisenberg was a wonderful opportunity for Bloch. Heisenberg, one of the founders of the young quantum mechanical theory of the atom, conveyed a thorough understanding of this new physics, a foundation upon which Bloch's later work would be based. As a first step, Heisenberg encouraged Bloch to complete some calculations on the radiation damping of wave packets, work which Bloch had begun while still a student in Zurich. After publication of this research, he turned to the problem of determining the quantum mechanical structure of electrons in crystal lattices, again at Heisenberg's urging. Bloch's thesis, published in 1928, established him as a brilliant young theorist and still serves as the

basis for the study of electron conduction in metals.

After completing his thesis, Bloch began the customary years of visiting and studying at various centers of physics research in Europe. In the summer of 1928, he moved back to Zurich to work as an assistant to Wolfgang Pauli. Pauli, considering superconductivity to be the only interesting topic left in the theory of metals, set Bloch to work on this problem. Unsuccessful in his attempts to formulate a theory of superconductivity, Bloch recognized and clarified the fundamental theoretical difficulties involved.

From Zurich, Bloch traveled to Utrecht where he worked under Henrik Kramers as a Fellow of the Lorentz Foundation. There he studied the theories of electric conductivity of metals and of ferromagnetism at low temperatures. The following summer, Bloch assisted Adriaan Fokker at the Teyler's Stichting in Haarlem in his studies of the spinning electron.

During the academic year beginning in the fall of 1930, Bloch returned to Germany to work on the theory of ferromagnetism and remanent magnetization and to serve as Heisenberg's assistant at the University of Leipzig. This research served as the basis for his Habilitationsschrift when he became Privatdozent (lecturer) at Leipzig in 1932. In the winter of 1931-32, as a Fellow of the Oersted Foundation, he traveled to Copenhagen to work with Niels Bohr. Interested in the stopping power of charged particles in matter, Bloch wrote a paper which bridged the gap between the classical and the quantum theory of stopping power.

Upon his return to Leipzig in the spring of 1932, Bloch became increasingly aware of the emerging tensions in Germany. The students at the University of Leipzig were among Hitler's most fervent supporters and anti-Semitism, though still a predominantly theoretical attitude, was becoming more and more prevelant. When the first Jewish professors were dismissed in 1933, Bloch, at Heisenberg's insistence, applied for a Rockefeller Fellowship for the fall. Political events moved even more quickly than Bloch had anticipated; though his Swiss citizenship prevented his dismissal for the time being, he resigned and left Leipzig in March of 1933.

For the next few months, Bloch stayed mostly at his home in Zurich, but he also traveled to France, Holland, and Denmark. During his summer visit to Copenhagen to see Niels Bohr, he received his first offer from the chairman of the Stanford University physics department, David Locke Webster. Originally, Bloch later confessed, he knew nothing about Stanford so he mentioned the offer to Bohr and Heisenberg and asked for their advice. Heisenberg knew only that Stanford was in California and that the students from Stanford and another school nearby stole each other's axes. Bohr's opinion was definitive: Stanford was a good school; he should go.

Since he had received the Rockefeller Fellowship, however, Bloch decided to postpone going to Stanford until the spring of 1934. First he wanted to go to Rome to work with Enrico Fermi. In Rome, Fermi, one of the few famous European physicists involved with both experiment and theory, emphasized the need for Bloch to conduct experiments as a supplement to his theoretical work.

Despite the additional provision in the Rockefeller Fellowship for six months of study with Ernest Rutherford in England, Bloch left for Stanford in the spring of 1934. He knew little about the University and the members of its physics department, though he had already met several American physicists including Eugene Wigner, Johann Von Neumann, John Van Vleck, William Houston, George Breit, and J. Robert Oppenheimer. After visiting Breit and Van Vleck in New York, Bloch took a train across the country to Palo Alto where he was met by physics chairman Webster.

Though the physics department at that time consisted of nine members, including P. A. Ross, Paul Kirkpatrick, and William Hansen, Bloch was the only theorist. He found himself teaching graduate courses on a variety of subjects: electrodynamics, mechanics, thermodynamics, and quantum mechanics. Very soon after his arrival, Bloch established contact with Oppenheimer, who was teaching at the University of California at Berkeley. Together they quickly organized weekly theoretical seminars attended primarily by Berkeley physicists and graduate students. Bloch's students from Stanford were also often in attendance. Though originally quite small and informal, these seminars soon became very popular.

In the fall of 1935, Bloch returned to Europe to visit his family and friends. Bloch had long suspected that the neutron might have a magnetic moment; what fascinated him about this idea was that a chargeless particle could have magnetic properties. While still a student with Heisenberg, he had stressed the importance both of demonstrating the neutron's magnetic moment and of determining its magnitude. His trip to Europe reaffirmed his convictions; he decided to begin research on neutron physics upon his return to Stanford. In early 1936, heeding Fermi's advice about experimentation, he set out to build a neutron source. Using mostly X-ray and microwave equipment from the physics labs, he and Norris Bradbury, Oppenheimer's successor as director of the Los Alamos National Laboratory, built the source themselves. (Bloch later pointed out that this equipment was more important as a source of inspiration than of neutrons.) Eventually, he extended his use of neutron sources to studies of neutron polarisation, a link to his earlier research in ferromagnetism.

These studies served as a basis for a collaborative effort with Luis Alvarez (then a graduate student at UC Berkeley, later a Nobel laureate). In the fall of 1938, Alvarez and Bloch began working with Berkeley's 37" cyclotron to determine the magnetic moment of the neutron. Because the machine at that time operated very sporadically, Bloch spent many days

simply waiting for news that the accelerator was functioning. By the summer of 1939, though, they were able to publish very precise results. This experiment was, in fact, one of the first important uses of Ernest Lawrence's cyclotron.

After publication of their measurements, Bloch felt that there was still neutron research to be done with cyclotrons. Rather than continuing to commute to Berkeley, however, he and some colleagues decided to build a cyclotron at Stanford. Support from both Lawrence and Isidor Rabi proved crucial in obtaining funding for the project. The cyclotron, begun in the fall of 1939, was built from scratch by Bloch and a few of his Stanford colleagues, notably Hans Staub.

Soon after the work on the cyclotron began, Bloch met Lore Misch through mutual friends in New York. Lore, also a physicist, had done graduate work at Goettingen under the supervision of V. M. Goldschmidt, an eminent geophysicist. In 1935, she received her Ph.D. in the field of crystallography. After leaving Germany in 1936, she served for two years as assistant in physics at the University of Geneva in Switzerland. She came to the United States in 1938 and was appointed research associate at the Massachusetts Institute of Technology. Felix and Lore were married in March 1940. Twins George Jacob and Daniel Arthur were born the following year. Frank Samuel was born in 1945, and Ruth Hedy in 1949.

During these early years at Stanford, Bloch instituted a summer program for visiting professors. Through this program, many eminent physicists, including Fermi, Rabi, George Gamow, Willis Lamb, Viktor Weisskopf, Hans Bethe, and Edward Teller, visited the physics department and helped to establish its reputation as a center of physics research on the west coast.

In 1942, Oppenheimer asked Bloch to work on the Manhattan Project. Bloch, collaborating with Bethe, Teller, and Staub, used the homemade Stanford cyclotron for the first experimental determination of the energy distribution of neutrons from fission. After this was completed, Bloch left for Los Alamos, New Mexico where he worked on special theoretical problems under Bethe's supervision. Quickly bored with this, however, he joined Seth Neddermeyer's implosion group.

After only a few months at Los Alamos, unhappy with the military atmosphere and feeling that he was no longer useful, Bloch left to work at the Harvard Radio Research Laboratory under the direction of Stanford engineer Frederick E. Terman. Bloch did both experimental and theoretical work: although primarily interested in theoretical problems with radar, he also relied on earlier Stanford experiences with microwave research to conduct some experiments on the reflectivity of certain materials. Bloch found the civilian life in Boston much more pleasant than the military one in Los Alamos.

By early 1945, with the end of the war in sight, Bloch's thoughts turned to post-war research. He spent a lot of time with both William Hansen, who had developed the klystron and had done a lot of work with microwaves, and Rabi, who had received the 1944 Nobel Physics Prize for his use of molecular beams in the determination of nuclear moments. Bloch's experiences with radio techniques at the Harvard Laboratory and with the measurement of the magnetic moment of the neutron convinced him that there might be a simpler way of making Rabi's measurements.

When Bloch returned to Stanford in September 1945, he began work on this new project immediately. Martin Packard built the original radio equipment using Hansen's design specifications; Bloch worked primarily with the magnet and its properties. At a meeting of the American Physical Society in December, Bloch met Edmund Purcell of Harvard University and the two discussed their recent research. Both recognized that the theoretical basis of their respective projects was the same, although they had been using slightly different techniques to achieve experimental results. So they decided to split up the field: Bloch would use the effect in the study of liquids; Purcell would examine crystals. The Stanford group gathered its first positive results in January 1946 (see *Physical Review 69,* 127(L) (1946)).

Because of its simplicity and accuracy, the nuclear induction technique, or nuclear magnetic resonance (NMR) as it has come to be known, could be used in a variety of ways in many different fields. It allowed physicists, for example, to measure the magnetic moments of nuclei, important for the development of the shell model of the nucleus. And it served as the basis for many modern developments in chemistry, biology, and medicine. (For a clear description of nuclear induction, see Bloch's article Nuclear Magnetism, *American Scientist,* 43 (1955): 48-62.)

Recognition for the achievements of both Bloch and Purcell came in 1952 when they were jointly awarded the Nobel Prize for Physics for the development of new methods for the exact measurement of nuclear magnetism and for the discoveries made in the development of these methods. Felix Bloch thus became Stanford University's first Nobel Prize winner.

Further recognition for Bloch came in 1954 when he was asked to serve as the first Director-General of the European Center for Nuclear Research (CERN). He originally heard that he was being considered for the position in the fall of 1953 when he received letters in quick succession from both Bohr and Heisenberg. The selection committee settled on Bloch because he was a man dominating in an exceptional way both the fields of theory and experiment and who could have a deep understanding of the theoretical deductions on which the whole of the big synchrotron project (was) based.

From the beginning, Bloch was not enthusiastic about the offer. Though he considered it a great honor, he felt that he was not well-suited for the sort of administrative responsibilities which would be so much a part of the first Director's job. But he was under great pressure from his friends in Europe and received their repeated assurances that he would merely oversee the administrative tasks while remaining primarily responsible for scientific programs at CERN. In the spring of 1954, after

the unanimous approval of the international governing Council, Bloch accepted the offer for a period of two years. Appointed with him were Edoardo Amaldi as Deputy Director and Cornelis J. Bakker as representative of the scientific groups in charge of the construction of the machines.

Upon his arrival in Geneva in October of 1954, though, Bloch found the situation quite different from what he had expected. Amaldi, whom Bloch thought would be handling most of the administrative matters, had been very active in the preliminary stages of the organization but planned to spend the majority of his time working elsewhere once Bloch arrived. Left with the responsibility of managing the day to day administrative work, Bloch found it almost impossible to conduct his own scientific research, the possibility of which had been one of the primary reasons for his acceptance.

Within a few months of his arrival, Bloch realized that he didn't want to stay at CERN for two years. Citing a passage in a letter to Bohr which gave him the option of leaving after only a year, Bloch asked the Council in the spring of 1955 to accept his resignation. With much regret, the request was granted; Bakker was appointed in his stead.

Bloch returned to Stanford and began teaching again the following fall. During the next few years, he and Leonard Schiff, department chairman from 1954 through 1966, built one of the leading physics teaching and research facilities in the world. They and the other senior members of the department persuaded the Atomic Energy Commission to construct the huge linear accelerator (SIAC) on the Stanford campus. They appointed outstanding faculty members and continued to invite distinguished physicists to visit the department. They oversaw the development of the undergraduate curriculum through their emphasis on the importance of introductory courses. And they set consistently high standards for both their students and their colleagues.

Though Bloch was considered by most a theoretical physicist, as Anatole Abragam said in his memorial:

As such a well-known scientist, Bloch was involved with many professional organizations and received numerous distinctions. The extensive list of organizations to which he belonged includes the American Academy of Arts and Sciences, the American Philosophical Society, the National Academy of Sciences, the Weizmann Institute of Science, and the American Physical Society. He was appointed an honorary member of the Swiss Physical Society and received honorary degrees from Grenoble University, Oxford University, the University of Jerusalem, and the University of Zurich. In 1965, he served as president of the American Physical Society, one of the largest scientific organizations in the country.

But Bloch was also active in many humanitarian causes. He was a member of the American Professors for Peace in the Middle East, the Committee for UN Integrity, the Committee of Concerned Scientists, the Universities' National Anti-War Fund, and Scientists and Engineers for Secure Energy. He was especially concerned with the fate of his colleagues trapped in Soviet-bloc countries.

Bloch's Stanford colleagues Robert Hofstadter, Marvin Chodorow, Arthur Schawlow, and J. Dirk Walecka describe him this way:

Scope and Content

The Bloch papers document Felix Bloch's role in twentieth century physics as a scientist, teacher and administrator. The collection includes correspondence, grant proposals, lecture notes, minutes and accompanying documentation regarding departmental, university and national committees, research notebooks, grants, patents, and designs; files regarding organizations in which Bloch played an active role; publications (predominantly reprints) by Bloch; and photographs.

While the collection includes some correspondence from the 1930's, the bulk of the collection dates from the period of his research in nuclear induction (1946-52) to 1983. Of special note is extensive correspondence with Stanford colleagues during his tenure as Director of CERN regarding the growth of Big Science and his reservations about the influence of large federally funded projects at the University, particularly the creation of the Stanford Linear Accelerator Center. Also well documented is the growth of the physics Department during the 1950s through 1980s and Bloch's presidency of the American Physical Society.

Arrangement note

The materials are arranged in five series and four additions.

Access Terms

Amaldi, Edoardo.

American Physical Society.

Bohr, Niels, 1885-1962.

Cockcroft, John,, Sir,, 1897-1967.

European Organization for Nuclear Research.

Hansen, W. W. (William Webster), 1909-1949

Heisenberg, Werner, 1901-1976

Hofstadter, Robert,, 1915-1990.
Kirkpatrick, Paul.
Meyerhof, Walter E. (Walter Ernst), 1922-
Perrin, Frances.
Schiff, Leonard I. (Leonard Isaac), 1915-
Shockley, William, 1910-1989.
Stanford Linear Accelerator Center
Stanford University. Department of Physics.
Terman, Frederick Emmons, 1900-1982
Varian Associates..
Webster, David Locke, 1888-1976.
Nuclear induction.
Nuclear magnetic resonance.
Nuclear magnetism.
Physics--Research.
Physics--Study and teaching.
Physics.
Quantum theory.

SERIES I **GENERAL CORRESPONDENCE**

Scope and Content Note

This series contains general correspondence arranged in two sections: letters written by Bloch arranged chronologically, and letters written to Bloch arranged alphabetically by correspondent. The correspondence spans about fifty years (1931-1983), but only the period following Bloch's receipt of the Nobel Prize in 1952 is thoroughly documented.

The designation of Series I correspondence as general refers to the fact that letters dealing with very specific topics have occasionally been filed elsewhere. For example, correspondence which deals solely with the several biographies Bloch wrote about his colleagues is located in Series II under Tributes; letters which deal with a specific research topic are filed in Series III with Bloch's notes; and letters concerning Bloch's membership in, or the administration of, organizations are in Series IV. NOTE: Bloch was often asked by various organizations with which he was affiliated to write recommendations for his colleagues. This material has been included in this series and not in Series IV.

A few things of which the researcher should be aware when using the General Correspondence series relate to Bloch's method of answering letters. Often he would simply write his response to an incoming letter directly on the letter itself, and then would pass this on to his secretary for typing. In most cases he retained the typed copy, but occasionally the only record of his response is that which appears handwritten on the incoming letter. Also, when Bloch was traveling, his secretary, Marion Middleton, acknowledged all incoming letters. Copies of her responses are filed in folders under her name.

Of particular interest may be correspondence from 1941 through 1946 when many members of the Stanford physics faculty were engaged in war research. Bloch, William Hansen, Frederick E. Terman, Paul Kirkpatrick, and David L. Webster conducted ongoing departmental meetings by mail. A particular issue of concern during this period, documented in this correspondence, was the feasibility of the High Energy Physics Laboratory at Stanford.

Between 1954 and 1956, Bloch corresponded with Niels Bohr, Werner Heisenberg, Frances Perrin, Sir Ben Lockspeiser, Sir John Cockcroft, Edoardo Amaldi, C. J. Bakker and others regarding his role as the first Director General of the European Center for Nuclear Research (CERN) in Geneva. Most of this correspondence took place before Bloch left for Switzerland in 1955 and concerned his position as CERN's choice for the Directorship. Almost all of his files from CERN were left there when he returned to Stanford in 1955. He did, however, save selected correspondence, including that with Stanford colleagues. Interesting letters regarding the preliminary planning of the Stanford Linear Accelerator Center are located in the files of Robert Hofstadter, Walter Meyerhof, Leonard Schiff, and other members of the physics department.

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Box 7, Folder 8	**Middleton, M. (1972-76)**
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Box 7, Folder 10	**Mo-Mu**
Box 7, Folder 11	**N**
Box 7, Folder 12	**O**
Box 7, Folder 13	**Pa**
Box 7, Folder 14	**Pe**
Box 7, Folder 15	**Perrin, F.**
Box 7, Folder 16	**Pf-Pl**
Box 7, Folder 17	**Po-Q**
Box 8, Folder 1	**Rabi, I.**
Box 8, Folder 2	**Rab-Raj**
Box 8, Folder 3	**Rama Rao, I.**
Box 8, Folder 4	**Ram-Ray**
Box 8, Folder 5	**Re-Rog**
Box 8, Folder 6	**Rorschach, H. E. (1964-69)**
Box 8, Folder 7	**Rorschach, H. E. (1970-76)**
Box 8, Folder 8	**Rorschach, H. E. (1976-81)**
Box 8, Folder 9	**Ros-Ry**
Box 8, Folder 10	**Sa**
Box 8, Folder 11	**Sch**
Box 8, Folder 12	**Schick, M.**
Box 8, Folder 13	**Schiff, L. (1946-55)**
Box 8, Folder 14	**Schiff, L. (1956-68)**
Box 8, Folder 15	**Sc-Se**
Box 8, Folder 16	**Sh**
Box 8, Folder 17	**Shockley, W. (1968)**
Box 8, Folder 18	**Shockley, W. (1968)**
Box 8, Folder 19	**Shockley, W. (1966-1972)**
Box 9, Folder 1	**Si-Sl**
Box 9, Folder 2	**Sm-So**
Box 9, Folder 3	**Spaeth, C.**
Box 9, Folder 4	**Sp**
Box 9, Folder 5	**Sr**
Box 9, Folder 6	**Sta-Ste**
Box 9, Folder 7	**Sto-Stu**
Box 9, Folder 8	**Su-Sz**
Box 9, Folder 9	**Ta-Th**
Box 9, Folder 10	**Telegdi, V.**
Box 9, Folder 11	**Tieche, C.**
Box 9, Folder 12	**Ti-Tz**
Box 9, Folder 13	**U**
Box 9, Folder 14	**Valeur, R.**
Box 9, Folder 15	**V**
Box 9, Folder 16	**Wa**
Box 9, Folder 17	**Wea-Wee**
Box 9, Folder 18	**Wei-Wet**
Box 9, Folder 19	**Wh-Wi**
Box 9, Folder 20	**Wilson, C. W.**
Box 9, Folder 21	**Wo-Wy**
Box 9, Folder 22	**Y**
Box 9, Folder 23	**Yang, C. N.**
Box 9, Folder 24	**Z**

SERIES II **PHYSICS DEPARTMENT**

Scope and Content Note

Series II contains materials relating to the organization and activities of the Stanford University Physics Department. Included are memos, minutes, lecture notes, notes on and drafts of tributes to colleagues, and plans for physics buildings.

DEPARTMENT MINUTES

Scope and Content Note

Minutes and memos from departmental proceedings are organized chronologically and provide a fairly complete record of departmental activities from 1954 through 1982.

Box 10, Folder 1	**1954-55**
Box 10, Folder 2	**January-March 1956**
Box 10, Folder 3	**April 1956**
Box 10, Folder 4	**May-July 1956**
Box 10, Folder 5	**August-December 1956**
Box 10, Folder 6	**January-June 1957**
Box 10, Folder 7	**July-December 1957**
Box 10, Folder 8	**January-April 1958**
Box 10, Folder 9	**May-September 1958**
Box 10, Folder 10	**October-December 1958**
Box 10, Folder 11	**January-June 1959**
Box 10, Folder 12	**August-December 1959**
Box 10, Folder 13	**January-September 1960**
Box 10, Folder 14	**October-November 18 1960**
Box 10, Folder 15	**November 21-December 1960**
Box 10, Folder 16	**January-May 1961**
Box 10, Folder 17	**June-September 1961**
Box 10, Folder 18	**October-December 1961**
Box 10, Folder 19	**January-May 1962**
Box 11, Folder 1	**June-September 1962**
Box 11, Folder 2	**October-November 1962**
Box 11, Folder 3	**December 1962**
Box 11, Folder 4	**January-February 1963**
Box 11, Folder 5	**March-June 1963**
Box 11, Folder 6	**July-September 1963**
Box 11, Folder 7	**October-December 1963**
Box 11, Folder 8	**1964**
Box 11, Folder 9	**January-April 1965**
Box 11, Folder 10	**May-July 1965**
Box 11, Folder 11	**August-December 1965**
Box 11, Folder 12	**January-September 1966**
Box 11, Folder 13	**October-December 1966**
Box 11, Folder 14	**1967**
Box 11, Folder 15	**April-September 1968**
Box 11, Folder 16	**October 1968**
Box 11, Folder 17	**November-December 1968**
Box 11, Folder 18	**January 1969**
Box 11, Folder 19	**February-August 1969**
Box 11, Folder 20	**September-December 1969**
Box 12, Folder 1	**January-July 1970**
Box 12, Folder 2	**August-October 1970**
Box 12, Folder 3	**November-December 1970**
Box 12, Folder 4	**January-March 1971**
Box 12, Folder 5	**April 1971**
Box 12, Folder 6	**May-September 1971**
Box 12, Folder 7	**October-December 1971**

Box 12, Folder 8	**January-March 1972**
Box 12, Folder 9	**April-May 1972**
Box 12, Folder 10	**June-September 1972**
Box 12, Folder 11	**October-December 1972**
Box 12, Folder 12	**February-April 1973**
Box 12, Folder 13	**May-December 1973**
Box 12, Folder 14	**February-July 1974**
Box 12, Folder 15	**August-October 1974**
Box 12, Folder 16	**November-December 1974**
Box 12, Folder 17	**January-May 1975**
Box 12, Folder 18	**June-December 1975**
Box 12, Folder 19	**January-June 1976**
Box 12, Folder 20	**July-December 1976**
Box 13, Folder 1	**1977**
Box 13, Folder 2	**1978**
Box 13, Folder 3	**1979**
Box 13, Folder 4	**1980**
Box 13, Folder 5	**January-March 1981**
Box 13, Folder 6	**April-December 1981**
Box 13, Folder 7	**January-April 1982**
Box 13, Folder 8	**May-September 1982**
Box 13, Folder 9	**October 1982**
Box 13, Folder 10	**November 1982**
Box 13, Folder 11	**December 1982**
Box 13, Folder 12	**1983**

DEPARTMENT AND UNIVERSITY COMMITTEES

Scope and Content Note

This section, arranged alphabetically by committee, contains records from several committees on which Bloch served during his years at Stanford. Included are minutes, memos, and reports of the Graduate Study Committee, the Chemistry Advisory Panel, the Applied Physics Division Committee, and the Academic Council. Most of these records are incomplete and may be compared to records of these committees located elsewhere in the Stanford University Archives.

Box 14, Folder 1	**Academic Council**
Box 14, Folder 2	**Applied Physics Division Committee. Minutes and memos (1962).**
Box 14, Folder 3	**Chemistry Advisory Committee. Correspondence (1957).**
Box 14, Folder 4	**Committee on International Studies (1962).**
Box 14, Folder 5	**Committee on International Studies (1963).**
Box 14, Folder 6	**Committee on International Studies (1963).**
Box 14, Folder 7	**Committee on International Studies. SRI Draft Report on Overseas Development (1962).**
Box 14, Folder 8	**Committee on International Studies. Ford Foundation Proposal.**
Box 14, Folder 9	**Committee on International Studies. SRI Report (1963).**
Box 14, Folder 10	**Graduate Study Committee (1963).**
Box 14, Folder 11	**Graduate Study Committee (1-4/1964).**
Box 14, Folder 12	**Graduate Study Committee (5-7/1964).**
Box 14, Folder 13	**Graduate Study Committee (10/1964-4/1965).**
Box 14, Folder 14	**Graduate Study Committee (5-12/1965).**
Box 14, Folder 15	**Graduate Study Committee (1-2/1966).**
Box 14, Folder 16	**Graduate Study Committee (3-11/1966).**
Box 14, Folder 17	**Graduate Study Committee (1-9/1967).**

LECTURE NOTES

Scope and Content Note

Bloch kept very thorough lecture notes. The notes collected here cover his entire teaching career at Stanford (1933-1971) and are arranged chronologically within each course. His notes for Physics 171, Thermodynamics, are particularly extensive. Also of interest is the typed manuscript for his 1969 class on Many-Body Theory.

Box 15, Folder 1	**Thermodynamics Part 1. (undated).**
Box 15, Folder 2	**Thermodynamics Part 2. (undated).**
Box 15, Folder 3	**Thermodynamics (undated).**
Box 15, Folder 4	**Thermodynamics Part 1. (undated).**
Box 15, Folder 5	**Thermodynamics Part 2. (undated).**
Box 15, Folder 6	**Thermodynamics Part 3. (undated).**
Box 15, Folder 7	**Thermodynamics Part 1. (1963).**
Box 15, Folder 8	**Thermodynamics Part 2. (1963).**
Box 15, Folder 9	**Thermodynamics (1964).**
Box 15, Folder 10	**Thermodynamics Part 1. (1966).**
Box 15, Folder 11	**Thermodynamics Part 2. (1966).**
Box 15, Folder 12	**Thermodynamics (1972-73).**
Box 15, Folder 13	**Thermodynamics. Problem sets (1934-72).**
Box 15, Folder 14	**Thermodynamics. Drafts of problem sets.**
Box 15, Folder 15	**Thermodynamics. Solution sets.**
Box 15, Folder 16	**Thermodynamics. Solution sets.**
Box 15, Folder 17	**Thermodynamics. Solution sets.**
Box 15, Folder 18	**Thermodynamics. Solution sets.**
Box 15, Folder 19	**Thermodynamics. Grading and administration.**
Box 16, Folder 1	**Kinetic Theory (1934-35).**
Box 16, Folder 2	**Kinetic Theory Part 1. (1959-60).**
Box 16, Folder 3	**Kinetic Theory Part 2. (1959-60).**
Box 16, Folder 4	**Kinetic Theory (1968-69).**
Box 16, Folder 5	**Kinetic Theory Part 1. (1969).**
Box 16, Folder 6	**Kinetic Theory Part 2. (1969).**
Box 16, Folder 7	**Kinetic Theory Part 1. (1969-70).**
Box 16, Folder 8	**Kinetic Theory Part 2. (1969-70).**
Box 16, Folder 9	**Kinetic Theory. Problem sets, grading, drafts (1934-71).**
Box 16, Folder 10	**Kinetic Theory. Solution sets.**
Box 16, Folder 11	**Relativity Part 1. (undated).**
Box 16, Folder 12	**Relativity Part 2. (undated).**
Box 16, Folder 13	**Quantum Mechanics Part 1. (undated).**
Box 16, Folder 14	**Quantum Mechanics Part 2. (undated).**
Box 16, Folder 15	**Quantum Mechanics (undated).**
Box 16, Folder 16	**Quantum Electrodynamics Part 1. (1949).**
Box 16, Folder 17	**Quantum Electrodynamics Part 2. (1949).**
Box 16, Folder 18	**Quantum Electrodynamics Part 3. (1949).**
Box 16, Folder 19	**Quantum Electrodynamics Part 4. (1949).**
Box 17, Folder 1	**Optics (undated).**
Box 17, Folder 2	**Optics (1963).**
Box 17, Folder 3	**Optics (1963).**
Box 17, Folder 4	**Optics (1964).**
Box 17, Folder 5	**Optics Part 1. (1964).**
Box 17, Folder 6	**Optics Part 2. (1964).**
Box 17, Folder 7	**Optics Part 3. (1964).**
Box 17, Folder 8	**Optics (1966).**
Box 17, Folder 9	**Optics (1967).**
Box 17, Folder 10	**Optics. Problem sets and drafts.**
Box 17, Folder 11	**Optics. Exams and drafts.**
Box 17, Folder 12	**Optics. Exams and drafts.**
Box 17, Folder 13	**Elementary Electricity and Magnetism (1950).**

Box 17, Folder 14	**Elementary Electricity and Magnetism (1952-53).**
Box 17, Folder 15	**Elementary Electricity and Magnetism Part 2. (1952-53).**
Box 17, Folder 16	**Elementary Electricity and Magnetism Part 3. (1952-53).**
Box 17, Folder 17	**Electric & Magnetic Fields (undated).**
Box 17, Folder 18	**Analytical Mechanics (undated).**
Box 18, Folder 1	**Nuclear Theory Part 1. (1952-53).**
Box 18, Folder 2	**Nuclear Theory Part 2. (1952-53).**
Box 18, Folder 3	**Nuclear Theory Part 1. (undated).**
Box 18, Folder 4	**Nuclear Theory Part 2. (undated).**
Box 18, Folder 5	**Nuclear Moments Part 1. (undated).**
Box 18, Folder 6	**Nuclear Moments Part 2. (undated).**
Box 18, Folder 7	**Nuclear Moments Part 1. (1960).**
Box 18, Folder 8	**Nuclear Moments Part 2. (1960).**
Box 18, Folder 9	**Nuclear Moments Part 1. (undated).**
Box 18, Folder 10	**Nuclear Moments Part 2. (undated).**
Box 18, Folder 11	**Nuclear Moments. Problem sets and drafts (1960).**
Box 18, Folder 12	**Nuclear Dispersion (undated).**
Box 18, Folder 13	**The Neutron-Proton System (undated).**
Box 18, Folder 14	**Mathematical Physics. Problem sets (1933-57).**
Box 18, Folder 15	**Theory of Collisions (undated).**
Box 19, Folder 1	**Nuclear Many-Body Theory manuscript (1968-69).**
Box 19, Folder 2	**Nuclear Many-Body Theory manuscript Part 2. (1968-69).**
Box 19, Folder 3	**Nuclear Many-Body Theory manuscript Part 3. (1968-69).**
Box 19, Folder 4	**Nuclear Many-Body Theory manuscript Part 4. (1968-69).**
Box 19, Folder 5	**Nuclear Many-Body Theory manuscript Part 5. (1968-69).**
Box 19, Folder 6	**Nuclear Many-Body Theory manuscript Part 6. (1968-69).**
Box 19, Folder 7	**Nuclear Many-Body Theory manuscript Part 7. (1968-69).**
Box 19, Folder 8	**Nuclear Many-Body Theory manuscript Part 8. (1968-69).**
Box 19, Folder 9	**Nuclear Many-Body Theory manuscript Part 9. (1968-69).**
Box 19, Folder 10	**Nuclear Many-Body Theory manuscript Part 10. (1968-69).**
Box 19, Folder 11	**Nuclear Many-Body Theory manuscript Part 11. (1968-69).**
Box 19, Folder 12	**Nuclear Many-Body Theory manuscript Part 12. (1968-69).**
Box 20 (oversize), Folder 1	**Quantum Mechanics Part 1. (undated).**
Box 20 (oversize), Folder 2	**Quantum Mechanics Part 2. (undated).**
Box 20 (oversize), Folder 3	**Electromagnetism Part 1. (undated).**
Box 20 (oversize), Folder 4	**Electromagnetism Part 2. (undated).**
Box 20 (oversize), Folder 5	**Allegmeine Relativitatstheorie Part 1. (1930?).**
Box 20 (oversize), Folder 6	**Allegmeine Relativitatstheorie Part 2. (1930?)**

PLANS AND BUILDINGS

Scope and Content Note

In the late 1950's, the Physics Department began working out plans for a new physics building. During this period, Bloch collected information on other universities' physics buildings and corresponded with architects, colleagues, and administrators regarding fund-raising. The correspondence within this section is arranged chronologically and is followed by plans of various buildings.

Box 21, Folder 1	**Correspondence (11/55-5/56).**
Box 21, Folder 2	**Correspondence (6-9/1956).**
Box 21, Folder 3	**Correspondence (10/56-1/57).**
Box 21, Folder 4	**Correspondence (1-4/1957).**
Box 21, Folder 5	**Correspondence (5-6/1957).**
Box 21, Folder 6	**Correspondence (7-10/1957).**

Box 21, Folder 7 **Correspondence (11/57-1/58).**
Box 21, Folder 8 **Correspondence (2/58-3/59).**
Box 21, Folder 9 **'Study for Proposed Physics Group' and revised plans for lighting lecture hall (1950).**
Box 21, Folder 10 **'Proposal for a Physics Teaching and Research Building' (undated, c. 1956).**
Box 21, Folder 11 **Plans for physics buildings. U. of Pennsylvania.**
Box 21, Folder 12 **Plans for physics buildings. U. Penn. (1949).**
Box 21, Folder 13 **Plans for physics buildings. U. Penn. (1949).**
Box 21, Folder 14 **Plans for physics buildings. U. Penn. (1949).**
Box 21, Folder 15 **Plans for physics buildings. U. Penn. (1949).**
Box 21, Folder 16 **Plans for physics buildings. Misc. universities.**
Box 21, Folder 17 **Notes on building plans (1958).**

TRIBUTES TO COLLEAGUES

Scope and Content Note

This series contains alphabetically arranged files of notes, drafts, and manuscripts which Bloch saved from his preparation of tributes to William Fairbank, Werner Heisenberg, Hans Staub, Leonard Schiff, and David Locke Webster. Prepared for festschrifts, memorial services, the Academic Council, *Physics Today,* and the National Academy of Sciences' *Biographical Memoirs,* these tributes are records both of the lives of these famous scientists and of their influence on Felix Bloch. Bloch also wrote a biography of William Webster Hansen for the National Academy of Sciences, although none of the notes for this are in the collection.

Box 22, Folder 1 **William Fairbank Festschrift Speech, program, abstracts. (1982).**
Box 22, Folder 2 **Werner Heisenberg Festschrift Notes. (1960).**
Box 22, Folder 3 **Werner Heisenberg Festschrift. First draft.**
Box 22, Folder 4 **Werner Heisenberg Festschrift. Corrected draft.**
Box 22, Folder 5 **Werner Heisenberg Festschrift. Typed draft.**
Box 22, Folder 6 **Werner Heisenberg Festschrift. Correspondence (1960-61).**
Box 22, Folder 7 **Werner Heisenberg Biography. Outgoing correspondence (1976-77).**
Box 22, Folder 8 **Werner Heisenberg Biography. Incoming correspondence (1977).**
Box 22, Folder 9 **Werner Heisenberg Festschrift. Requests for reprints (1977).**
Box 22, Folder 10 **Werner Heisenberg Festschrift. Reprint of 1976 *Physics Today* article.**
Box 22, Folder 11 **Hans Staub obituary. Published in *Physics Today.* Correspondence & drafts (1980).**
Box 23, Folder 1 **Leonard Schiff. Printed program for Memorial Service and Tributes (1971).**
Box 23, Folder 2 **Leonard Schiff. Manuscripts of tributes.**
Box 23, Folder 3 **Leonard Schiff. Manuscript of Bloch tribute.**
Box 23, Folder 4 **Leonard Schiff. Establishment of lectureship. Correspondence (1971).**
Box 23, Folder 5 **Leonard Schiff. Biographical notes, chronology.**
Box 23, Folder 6 **Leonard Schiff. Memorial Resolution for Academic Council. Correspondence & drafts (1971).**
Box 23, Folder 7 **Leonard Schiff. *Physics Today* article Correspondence and drafts. (1971).**
Box 23, Folder 8 **Leonard Schiff. National Academy of Sciences biography. Correspondence (1978-83).**
Box 23, Folder 9 **Leonard Schiff. NAS biography. First draft.**
Box 23, Folder 10 **Leonard Schiff. NAS biography. Corrected drafts.**
Box 23, Folder 11 **Leonard Schiff. NAS biography. Final draft.**
Box 23, Folder 12 **Leonard Schiff. NAS biography. Galley proof.**
Box 23, Folder 13 **David Locke Webster obituary. Correspondence (1976-77).**
Box 23, Folder 14 **David Locke Webster obituary. Notes.**
Box 23, Folder 15 **David Locke Webster obituary. Drafts.**

SERIES III **RESEARCH**

Scope and Content Note

Series III contains research notes and notebooks, grant proposals and reports, contracts, patents, and apparatus designs. All the material contained in these boxes relates to Bloch's role as a research scientist.

NOTEBOOKS

Scope and Content Note

Bloch's bound notebooks are filed chronologically in this section. The notebook dated 1945-47 contains some of Bloch's calculations and notes on nuclear induction, the research for which he was awarded the Nobel Prize in Physics in 1952.

Bloch's approach to physics is quite apparent in the pages of several of these notebooks. In them, he examines his ideas much as if he were a teacher explaining them to a student. He stresses clarity, brevity, and accuracy. More than once he comments on the relative elegance of his calculations. A researcher may find these pages a good source of information regarding Bloch's view and method of research.

Box 24, Folder 1	**1941-48**
Box 24, Folder 2	**1945-47**
Box 24, Folder 3	**1952-57**
Box 24, Folder 4	**Undated**
Box 24, Folder 5	**1960**
Box 24, Folder 6	**1963-64**

NOTES

Scope and Content Note

The notes contained in this section are filed alphabetically by subject. A few of the files contain correspondence and are so marked in the series inventory. Some notes relate specifically to work which Bloch later published; some are simply examinations of various topics. Dates included in the notes are given in the series inventory.

Box 25, Folder 1	**Atomic Accelerator proposal by Hofstadter.**
Box 25, Folder 2	**Atomic Research at Stanford. Speech.**
Box 25, Folder 3	**Attempt to observe electron deflection due to spin Density and fluctuations by photographic superposition Passage of protons through dees with upward harmonics Signals in oscillating field Simple echo theory (1949), (1948), (1950), (1950), (undated).**
Box 25, Folder 4	**Behavior of a bose gas near the critical point.**
Box 25, Folder 5	**Bogolubov.**
Box 25, Folder 6	**Cooper pairs (1962).**
Box 25, Folder 7	**Density fluctuations in a bose system.**
Box 25, Folder 8	**Depolarisation in nearly saturated fields.**
Box 25, Folder 9	**Effect of an exterior potential V(r).**
Box 25, Folder 10	**Effect of potential on a ring.**
Box 25, Folder 11	**Energy loss or gain by a fast-moving particle.**
Box 25, Folder 12	**Equilibrium and chemical potential.**
Box 25, Folder 13	**Fermi distribution with sound wave representation.**
Box 25, Folder 14	**Fetter's March 1969 paper on oscillator matrix. Correspondence and notes.**
Box 25, Folder 15	**Fetter manuscript on phonon scattering.**
Box 25, Folder 16	**Flux in thin cylinders (1962).**
Box 25, Folder 17	**Flux quantization and dimensionality (1967--).**
Box 25, Folder 18	**Flux quantization and dimensionality Notes continued. (1967--).**
Box 25, Folder 19	**Flux quantization and dimensionality Notes continued. (1967--).**
Box 25, Folder 20	**Flux quantization and dimensionality First draft of paper. (1967--).**
Box 25, Folder 21	**Flux quantization and dimensionality Second draft of paper. (1967--).**
Box 25, Folder 22	**Flux quantization and dimensionality Third draft of paper. (1967--).**
Box 25, Folder 23	**Flux quantization and dimensionality Manuscript and galley proof of paper. (1967--).**
Box 25, Folder 24	**Flux quantization and dimensionality Drawings and figures for 'Flux quantization' and 'Josephson effect'. (1967--).**
Box 25, Folder 25	**Form factors.**
Box 25, Folder 26	**G-factor of the electron (1953).**
Box 25, Folder 27	**Heitler's theory of damping Line-narrowing by strong fields (1964), (1956).**
Box 25, Folder 28	**Heisenberg model for 2n spins (1977).**

Box 25, Folder 29	**Hellman-Feynman Theory. Notes.**
Box 25, Folder 30	**Investigation of relaxation transition probabilities by double irradiation Nuclear moments experiment (1958), (1949).**
Box 26, Folder 1	**Josephson effect (10/67-2/68).**
Box 26, Folder 2	**Josephson effect Notes (10/67-2/68). (3-7/1968).**
Box 26, Folder 3	**Josephson effect Notes (10/67-2/68). (6-7/1968).**
Box 26, Folder 4	**Josephson effect Notes (10/67-2/68). (8/1968).**
Box 26, Folder 5	**Josephson effect Notes (10/67-2/68). (4-9/1969).**
Box 26, Folder 6	**Josephson effect Miscellaneous notes. (10/67-2/68).**
Box 26, Folder 7	**Josephson effect Manuscript of paper. (10/67-2/68).**
Box 26, Folder 8	**Josephson effect Typescript of paper. (10/67-2/68).**
Box 26, Folder 9	**Kapitza effect (1961).**
Box 26, Folder 10	**Landau's theory.**
Box 26, Folder 11	**Light scattering & density fluctuations in a Fermi gas (1960).**
Box 26, Folder 12	**Light scattering & density fluctuations in a Fermi gas Notes continued. (1960).**
Box 26, Folder 13	**Low fluctuation expansion.**
Box 26, Folder 14	**Miscellaneous (untitled).**
Box 26, Folder 15	**Model for a discrete space-time (1956-58).**
Box 26, Folder 16	**Noise.**
Box 26, Folder 17	**Order parameter in a Bose system (1969).**
Box 26, Folder 18	**Phonon excitation.**
Box 26, Folder 19	**Photographic noise reduction.**
Box 26, Folder 20	**Quantized Hall effect.**
Box 26, Folder 21	**Quantum effects in the partition function (1963).**
Box 26, Folder 22	**Quark experiment, oscillating force on a magnetically suspended sphere (1971).**
Box 26, Folder 23	**Rate equations for coupled systems.**
Box 26, Folder 24	**Recent developments in nuclear induction.**
Box 26, Folder 25	**Relaxation transitions with double irradiation (1958-59).**
Box 26, Folder 26	**Relaxation transitions with double irradiation Notes continued. (1958-59).**
Box 26, Folder 27	**Rotating wall.**
Box 26, Folder 28	**Some considerations regarding an accelerated superconductor (1961).**
Box 26, Folder 29	**Some remarks on Superconductivity (1966).**
Box 26, Folder 30	**Some remarks on Superconductivity Galley proof of paper (1966).**
Box 26, Folder 31	**Sound waves and incoherent light scattering in a Fermion system (1961).**
Box 26, Folder 32	**Stark ladders.**
Box 26, Folder 33	**Stress tensor in -6 notation.**
Box 26, Folder 34	**Stress tensor in -6 notation. Notes continued.**
Box 26, Folder 35	**Superfluidity in a Ring Correspondence, drafts, manuscript. (1973).**
Box 26, Folder 36	**Superfluidity in a Ring Drafts. (1973).**
Box 26, Folder 37	**Superfluidity in a Ring Figures. (1973).**
Box 27, Folder 1	**Torque upon a rotating superconductor in a magnetic field. First draft of paper.**
Box 27, Folder 2	**Torque upon a rotating superconductor in a magnetic field. Second draft of paper.**
Box 27, Folder 3	**Torque upon a rotating superconductor in a magnetic field. Third draft of paper.**
Box 27, Folder 4	**Track density.**
Box 27, Folder 5	**Trapping of flux by a Bose gas in a thin cylindrical ring Correspondence between Rorschach and Bloch (1961). (1961-62).**
Box 27, Folder 6	**Trapping of flux by a Bose gas in a thin cylindrical ring Notes. (1961).**
Box 27, Folder 7	**Trapping of flux by a Bose gas in a thin cylindrical ring Notes. (1961).**
Box 27, Folder 8	**Trapping of flux by a Bose gas in a thin cylindrical ring First draft of paper. (1961).**
Box 27, Folder 9	**Trapping of flux by a Bose gas in a thin cylindrical ring Second draft of paper. (1961).**
Box 27, Folder 10	**Trapping of flux by a Bose gas in a thin cylindrical ring Draft of paper, part 1. (1961).**
Box 27, Folder 11	**Trapping of flux by a Bose gas in a thin cylindrical ring Draft of paper, part 2. (1961).**
Box 27, Folder 12	**Trapping of flux by a Bose gas in a thin cylindrical ring Draft of paper, part 3. (1961).**

Box 27, Folder 13	**Trapping of flux by a Bose gas in a thin cylindrical ring Draft of paper, part 4. (1961).**
Box 27, Folder 14	**Two-dimensional Tomanaga.**
Box 27, Folder 15	**Wentzel's superconductivity (1958).**
Box 27, Folder 16	**Williams' cooperative paper. Notes.**
Box 27, Folder 17	**Williams' cooperative paper. Notes.**
Box 27, Folder 18	**Williams' cooperative paper. Draft of body of paper.**
Box 27, Folder 19	**Williams' cooperative paper. Draft of appendies of paper.**
Box 27, Folder 20	**Williams' cooperative paper. Corrected draft of paper.**
Box 27, Folder 21	**Zero-sound and light scattering (1960).**
Box 27, Folder 22	**Zero-sound and light scattering Notes. (1960).**
Box 28, Folder 1	**Dirac equation of an electron in a magnetic field.**
Box 28, Folder 2	**Dirac equation of an electron in a magnetic field. Correspondence (1981).**
Box 28, Folder 3	**Dirac equation of an electron in a magnetic field. Notes.**
Box 28, Folder 4	**Dirac equation of an electron in a magnetic field. Notes.**
Box 28, Folder 5	**Dirac equation of an electron in a magnetic field. Notes.**
Box 28, Folder 6	**Dirac equation of an electron in a magnetic field. Drafts.**
Box 28, Folder 7	**Dirac equation of an electron in a magnetic field. Typescript report.**
Box 28, Folder 8	**Dirac equation of an electron in a magnetic field. Miscellaneous notes.**
Box 28, Folder 9	**Dirac equation of an electron in a magnetic field. Miscellaneous notes.**

RESEARCH GRANTS

Scope and Content Note

This series contains primarily files relating to Bloch's research funded by the Office of Naval Research from 1946 through 1973. The number of people working under this contract, at times including as many as 5 professors and 14 research assistants, increased steadily until about 1964. Among the documents are periodic status reports specifying exactly who was working under the contract, what research they were doing, what equipment they were using, what results they had found, and any publications resulting from their research. This information could be particularly useful as a means of following the research interests of some of the members of the Stanford Physics Department (for example, Bloch, Walter Meyerhof, Willis Lamb, William Little) over an extended period.

There are also two small folders containing Bloch's applications for Guggenheim and National Science Foundation grants. This infomation is apparently not complete. Although Bloch received several other fellowship, including a grant from the Rockefeller Foundation, before his journey to Stanford in 1934, there is no information directly pertaining to these contained in the collection.

Box 29, Folder 1	**Guggenheim Fellowship (1958-59).**
Box 29, Folder 2	**National Science Foundation (1953).**
Box 29, Folder 3	**Office of Naval Research (ONR). Outgoing correspondence. December 1946-December 1950.**
Box 29, Folder 4	**ONR. Outgoing. (January 1951-December 1964).**
Box 29, Folder 5	**ONR. Outgoing (January 1965-July 1969).**
Box 29, Folder 6	**ONR. Outgoing (February 1970-December 1973).**
Box 29, Folder 7	**ONR. Outgoing (February 1974-December 1974).**
Box 29, Folder 8	**ONR. Incoming correspondence (Barkas).**
Box 29, Folder 9	**ONR. Incoming (B)**
Box 29, Folder 10	**ONR. Incoming (C-D).**
Box 29, Folder 11	**ONR. Incoming (Edelsack).**
Box 29, Folder 12	**ONR. Incoming (E-F).**
Box 29, Folder 13	**ONR. Incoming (Glaser).**
Box 29, Folder 14	**ONR. Incoming (G-H).**
Box 29, Folder 15	**ONR. Incoming (K-L).**
Box 29, Folder 16	**ONR. Incoming (Meyerhof, 10/54-10/56).**
Box 29, Folder 17	**ONR. Incoming (Meyerhof, 1/57-12/59).**
Box 29, Folder 18	**ONR. Incoming (Meyerhof, 3/60-11/62).**

Box 29, Folder 19	**ONR. Incoming (Meyerhof, 2/63-1/66).**
Box 29, Folder 20	**ONR. Incoming (Mulders).**
Box 29, Folder 21	**ONR. Incoming (M-N).**
Box 29, Folder 22	**ONR. Incoming (Padgett).**
Box 29, Folder 23	**ONR. Incoming (P-S).**
Box 29, Folder 24	**ONR. Incoming (T-W).**
Box 29, Folder 25	**ONR. Contract proposals (1955-62).**
Box 29, Folder 26	**ONR. Contract proposals (1965-69).**
Box 29, Folder 27	**ONR. Contract proposals (1970-73).**
Box 29, Folder 28	**ONR. Contracts and travel requests.**
Box 30, Folder 1	**ONR. Periodic Status Reports (1946-47).**
Box 30, Folder 2	**ONR. Periodic Status Reports (1948-50).**
Box 30, Folder 3	**ONR. Periodic Status Reports (1951-53).**
Box 30, Folder 4	**ONR. Periodic Status Reports (1954-56).**
Box 30, Folder 5	**ONR. Periodic Status Reports (1957-59).**
Box 30, Folder 6	**ONR. Periodic Status Reports (1960-62).**
Box 30, Folder 7	**ONR. Periodic Status Reports (1963-65).**
Box 30, Folder 8	**ONR. Periodic Status Reports (1966-73).**
Box 30, Folder 9	**ONR. Final Reports (1946-54, 1955-64, 1964-74).**
Box 30, Folder 10	**ONR. Final Progress Report on Nuclear Structure Group (1964).**
Box 30, Folder 11	**ONR. Reports on trips (Europe Australia 1948 & 1950, 1974).**
Box 30, Folder 12	**ONR. Drafts of reports and proposals.**
Box 30, Folder 13	**ONR. Financial records.**
Box 30, Folder 14	**ONR. Miscellaneous receipts.**

CONSULTING AND LICENSE AGREEMENTS

Scope and Content Note

Included in this section are consulting contracts and equipment license agreements for, among others, Argonne National Laboratory and Varian Associates. There is a small amount of correspondence, but most of the folders contain only legal documents.

Box 31, Folder 1	**Argonne National Laboratory Contract (1946-47).**
Box 31, Folder 2	**Carbide & Carbon Chemical Corporation Consulting Contracts (1949-53).**
Box 31, Folder 3	**Monsanto Chemical Company Contracts (1946-48).**
Box 31, Folder 4	**United States Atomic Energy Commission. Consulting Agreements (1946-49).**
Box 31, Folder 5	**Varian Associates License Agreements. Miscellaneous correspondence regarding License Agreements on US Patents #2561489 and #2960649.**
Box 31, Folder 6	**Varian Associates License Agreements. 'Method and Means for Chemical Analysis by Nuclear Induction' (October 1953).**
Box 31, Folder 7	**Varian Associates. Agreement for nuclear induction consulting and extension (March 1954) (to September 1960).**
Box 31, Folder 8	**Varian Associates. License Agreement for 'Line-narrowing Gyromagnetic Apparatus' (July 1954).**
Box 31, Folder 9	**Varian Associates. License Agreement for 'Spin-spin Decoupling Gyromagnetic Apparatus'**
Box 31, Folder 10	**Varian Associates. License Agreement for 'Spinner Apparatus' on US Patent #3068399 and copy of patent. (July 1965)**
Box 31, Folder 11	**Varian Associates. License Agreement on 'Spin Decoupler' (July 1965).**
Box 31, Folder 12	**Varian Associates. Rubidium equipment agreement (April 1967).**

PATENTS

Scope and Content Note

Patents on Bloch's inventions included here come from the United States, Canada, France, Switzerland, and Great Britain. Primarily for gyromagnetic devices, these patents contain some detailed design specifications.

Box 31, Folder 13	**US #2960649 'Line-narrowing Gyromagnetic Device'.**
Box 31, Folder 14	**Sweden #166285. 'Line-narrowing Gyromagnetic Device'.**
Box 31, Folder 15	**Switzerland #336621. 'Line-narrowing Gyromagnetic Device'.**

Box 31, Folder 16 **France #1126251. 'Line-narrowing Gyromagnetic Device'.**
Box 31, Folder 17 **Great Britain #789238 'Line-narrowing Gyromagnetic Device' and specification of patent. Great Britain #789100 'Gyromagnetic Resonance Method and Apparatus' and specification of patent.**
Box 31, Folder 18 **US #23950 (originally #2561489).**
Box 31, Folder 19 **Canada #645205 'High Resolution Gyromagnetic Resonance Spectrometer'.**

APPARATUS DESIGNS

Scope and Content Note

Design plans and calculations for various pieces of research equipment, including magnets and an electron apparatus, are found in this section. Also included is correspondence regarding the transfer of Bloch's large magnet used for the first resonance measurements of organic molecules--the first high resolution nuclear magnetic spectroscopy--to the Smithsonian Institute's Museum of History and Technology.

Box 32, Folder 1 **Electron apparatus. Structural aspects (1954).**
Box 32, Folder 2 **Electron apparatus. Structural aspects (1954).**
Box 32, Folder 3 **Electrostatic well design and calculations.**
Box 32, Folder 4 **Magnet. Calibration curves.**
Box 32, Folder 5 **Magnet. Drawings and specifications.**
Box 32, Folder 6 **Graphs, drawings, calculations relating to misc.**
Box 32, Folder 7 **Smithsonian Institution. Correspondence regarding the transfer of Bloch's magnet to Washington, D.C. (1963-66).**
Box 32, Folder 8 **Smithsonian Institution. Annual Report of the Museum of History and Technology, picture of Bloch's magnet on page 260. (1967)**

SERIES IV **ORGANIZATIONS**

Scope and Content Note

This series contains documents pertaining to Bloch's membership in and the administration of the many organizations, both personal and professional, with which he was affiliated. Correspondence within these files is either separated into outgoing and incoming letters or arranged chronologically depending on its extent and nature.

Because of Bloch's scientific reputation, documented most visibly by his receipt of the Nobel Prize, many groups were anxious to have Bloch's name associated with their own. Often Bloch, stressing his other commitments, declined these invitations. Despite such time pressures, however, he found himself able to participate actively in several organizations. Among these were the American Physical Society, the International Society of Magnetic Resonance, and the Weizmann Institute of Science.

The largest section in this series (6 boxes) is that of the American Physical Society, of which Bloch was president in 1965. Despite the size of these records, however, they cover thoroughly only the period of Bloch's presidency (January 1965-January 1966). From 1966 until 1971, he continued to serve on the Executive Council of the Society but these files are not complete.

Included in this series is a file containing information regarding Citizens for Humphrey. The researcher should note, however, that Bloch was not actually a member of this organization. In fact, the file contains primarily letters exchanged by Bloch and various newspapers attempting to straighten out the erroneous inclusion of his name in a Citizens for Humphrey advertisement.

AMERICAN ACADEMY OF ARTS AND SCIENCES.
Box 33, Folder 1 **Correspondence (1960-77).**

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.
Box 33, Folder 2 **Correspondence (1965).**

AMERICAN ASSOCIATION OF UNIVERSITY PROFESSORS,
Box 33, Folder 3 **Correspondence (1972).**

AMERICAN FRIENDS OF THE WEIZMANN INSTITUTE OF SCIENCE (AFWIS).
Box 33, Folder 4 **AFWIS. Outgoing correspondence (1954-83).**
Box 33, Folder 5 **AFWIS. Incoming correspondence (A-C).**
Box 33, Folder 6 **AFWIS. Incoming (D-H).**

Box 33, Folder 7	**AFWIS. Incoming (L-P).**
Box 33, Folder 8	**AFWIS. Incoming (R).**
Box 33, Folder 9	**AFWIS. Incoming (S-W).**
Box 33, Folder 10	**AFWIS. Incoming (Weiner).**
Box 33, Folder 11	**AFWIS. Incoming (Weisgal).**
Box 33, Folder 12	**AFWIS. Executive Council and Committee.**
Box 33, Folder 13	**AFWIS. President's Report (1978, 1982, 1983).**
Box 33, Folder 14	**AFWIS. Minutes (miscellaneous).**
Box 33, Folder 15	**AFWIS. Minutes (miscellaneous).**
Box 33, Folder 16	**AFWIS. Proposed budget (1982-83).**
Box 33, Folder 17	**AFWIS. Proposed budget (1982-83).**
Box 33, Folder 18	**AFWIS. Obituary of Amos de Shalit.**
Box 33, Folder 19	**AFWIS. Ion Accelerator and Accelerator Tower pamphlets.**
Box 33, Folder 20	**AFWIS. Directory (1982).**
Box 34, Folder 1	**AFWIS. List of 25th Anniversary Sponsors.**
Box 34, Folder 2	**AFWIS. Summary of News (1982-83).**
Box 34, Folder 3	**AFWIS. Science News and misc. publications.**
Box 34, Folder 4	**AFWIS. The Weizmann Institute and Your Health.**
	AMERICAN FRIENDS OF THE HEBREW UNIVERSITY (AFHU)
Box 34, Folder 5	**AFHU. Outgoing correspondence (1952-81).**
Box 34, Folder 6	**AFHU. Incoming correspondence (C-H).**
Box 34, Folder 7	**AFHU. Incoming (J-W).**
	AMERICAN INSTITUTE OF PHYSICS (AIP)
Box 34, Folder 8	**AIP. Outgoing correspondence (1957-71).**
Box 34, Folder 9	**AIP. Incoming correspondence (B-K).**
Box 34, Folder 10	**AIP. Incoming (S-W).**
Box 34, Folder 11	**AIP. Incoming (Williams).**
Box 34, Folder 12	**AIP. Constitution.**
Box 34, Folder 13	**AIP. Unpublished report: Report on pre-college physics study.**
Box 34, Folder 14	**AIP. News release (1964).**
Box 34, Folder 15	**AIP. Newsletters (1964-70).**
	AMERICAN PHILOSOPHICAL SOCIETY.
Box 34, Folder 16	**Correspondence (1965-73).**
	BAY AREA COUNCIL ON SOVIET JEWRY.
Box 34, Folder 17	**Correspondence (1975).**
	CAMBRIDGE PHILOSOPHICAL SOCIETY.
Box 34, Folder 18	**Correspondence (1967).**
	CITIZENS FOR HUMPHREY.
Box 34, Folder 19	**Correspondence (1968).**
	COMMITTEE FOR UN INTEGRITY.
Box 34, Folder 20	**Correspondence (1980).**
	ENCOUNTER FOR THE UNIVERSALITY OF UNESCO.
Box 34, Folder 21	**UNESCO. Correspondence (1975-76).**
Box 34, Folder 22	**UNESCO. Miscellaneous publications.**
	AMERICAN PHYSICAL SOCIETY.
Box 35, Folder 1	**APS. Outgoing correspondence (1955-February 1965).**
Box 35, Folder 2	**APS. Outgoing (March 1965).**
Box 35, Folder 3	**APS. Outgoing (April-May 1965).**
Box 35, Folder 4	**APS. Outgoing (June-September 1965).**
Box 35, Folder 5	**APS. Outgoing (October-November 1965).**
Box 35, Folder 6	**APS. Outgoing (December 1965-October 1971).**
Box 35, Folder 7	**APS. Incoming correspondence (Bashkin).**
Box 35, Folder 8	**APS. Incoming (B-C).**
Box 35, Folder 9	**APS. Incoming (Darrow, K.).**
Box 35, Folder 10	**APS. Incoming (D-N).**
Box 35, Folder 11	**APS. Incoming (Quimby, S.).**
Box 35, Folder 12	**APS. Incoming (R-W).**
Box 35, Folder 13	**APS. Incoming (Wheeler).**

Box 35, Folder 14	**APS. Meeting. New York 1/64 Council. Agenda and minutes.**
Box 35, Folder 15	**APS. Meeting. Washington 4/64 Council. Agenda and minutes.**
Box 35, Folder 16	**APS. Meeting. Chicago 10/64 Council. Agenda and minutes.**
Box 35, Folder 17	**APS. Meeting. Chicago 10/64 Council. Appendix to minutes.**
Box 35, Folder 18	**APS. Meeting. New York 1/65 Council. Agenda and minutes.**
Box 35, Folder 19	**APS. Meeting. New York 1/65 General.**
Box 35, Folder 20	**APS. Meeting. New York 1/65 General. Program.**
Box 35, Folder 21	**APS. Meeting. Oklahoma 2/65 General.**
Box 35, Folder 22	**APS. Meeting. Kansas City 3/65 General.**
Box 35, Folder 23	**APS. Meeting. Washington 4/65 Council. Correspondence (9/64-3/65).**
Box 35, Folder 24	**APS. Meeting. Washington 4/65 Council. Correspondence (4/65).**
Box 35, Folder 25	**APS. Meeting. Washington 4/65 Council. Correspondence (5/65).**
Box 35, Folder 26	**APS. Meeting. Washington 4/65 Council. Agenda.**
Box 36, Folder 1	**APS. Meeting. Washington 4/65 General.**
Box 36, Folder 2	**APS. Meeting. New York 6/65 General.**
Box 36, Folder 3	**APS. Meeting. Hawaii 9/65 General. Correspondence (9/63-1/65).**
Box 36, Folder 4	**APS. Meeting. Hawaii 9/65 General. Correspondence (2-3/65).**
Box 36, Folder 5	**APS. Meeting. Hawaii 9/65 General. Correspondence (3/65).**
Box 36, Folder 6	**APS. Meeting. Hawaii 9/65 General. Correspondence (4-5/65).**
Box 36, Folder 7	**APS. Meeting. Hawaii 9/65 General. Correspondence (5/65).**
Box 36, Folder 8	**APS. Meeting. Hawaii 9/65 General. Correspondence (6-7/65).**
Box 36, Folder 9	**APS. Meeting. Hawaii 9/65 General. Correspondence (8/65-2/66).**
Box 36, Folder 10	**APS. Meeting. Chicago 10/65 Council.**
Box 36, Folder 11	**APS. Meeting. Chicago 10/65 Council. Agenda and minutes.**
Box 36, Folder 12	**APS. Meeting. Chicago 10/65 General.**
Box 36, Folder 13	**APS. Meeting. Los Angeles 12/65 General.**
Box 36, Folder 14	**APS. Meeting. New York 1/66 Council. Correspondence (5/65-1/66).**
Box 36, Folder 15	**APS. Meeting. New York 1/66 Council. Correspondence (1-3/66).**
Box 36, Folder 16	**APS. Meeting. New York 1/66 Council. Agenda and minutes.**
Box 36, Folder 17	**APS. Meeting. New York 1/66 General.**
Box 36, Folder 18	**APS. Meeting. Washington 4/66 Council.**
Box 36, Folder 19	**APS. Meeting. Washington 4/66 Council. Minutes.**
Box 36, Folder 20	**APS. Meeting. Nashville 12/66 Council. Correspondence (9-11/66).**
Box 36, Folder 21	**APS. Meeting. Nashville 12/66 Council. Correspondence (12/66).**
Box 37, Folder 1	**APS. Meeting. Nashville 12/66 Council. Preliminary agenda.**
Box 37, Folder 2	**APS. Meeting. Nashville 12/66 Council. Agenda.**
Box 37, Folder 3	**APS. Meeting. Nashville 12/66 Council. Minutes.**
Box 37, Folder 4	**APS. Meeting. Nashville 12/66 Council. Notes on the amendments to the Ohio section.**
Box 37, Folder 5	**APS. Meeting. New York 1/67 Council.**
Box 37, Folder 6	**APS. Meeting. New York 1/67 Council. Preliminary agenda.**
Box 37, Folder 7	**APS. Meeting. New York 1/67 Council. Final agenda.**
Box 37, Folder 8	**APS. Meeting. New York 1/67 General. Correspondence 1/67.**
Box 37, Folder 9	**APS. Meeting. New York 1/67 General. Draft of minutes.**
Box 37, Folder 10	**APS. Meeting. New York 1/67 General. Appendix to minutes.**
Box 37, Folder 11	**APS. Meeting. Washington 4/67 Council. Agenda.**
Box 37, Folder 12	**APS. Meeting. Washington 4/67 Council. Correspondence (12/66-3/67).**
Box 37, Folder 13	**APS. Meeting. Washington 4/67 Council. Correspondence (4/67).**
Box 37, Folder 14	**APS. Meeting. Washington 4/67 Council. Minutes.**
Box 37, Folder 15	**APS. Meeting. Washington 4/67 Council. Expense receipts.**
Box 37, Folder 16	**APS. Meeting. Washington 4/68 Council. Agenda and minutes.**
Box 37, Folder 17	**APS. Meeting. Washington 4/68 Council. Appendix to minutes.**
Box 37, Folder 18	**APS. Meeting. Miami 11/68 Council. Report and agenda.**
Box 37, Folder 19	**APS. Meeting. San Diego 12/68 General. Bulletin.**
Box 37, Folder 20	**APS. Meeting. New York 2/69 Council. Agenda.**
Box 37, Folder 21	**APS. Meeting. New York 2/69 Council. Minutes.**
Box 37, Folder 22	**APS. Meeting. Washington 4/69 Council. Minutes.**

Box 37, Folder 23	**APS. Meeting. Boulder 11/69 Council; Agenda and minutes. New York 1/71 Council; Agenda. Atlantic City 3/72; Memo.**
Box 38, Folder 1	**APS. Meeting. Chicago 1/70 General. Miscellaneous.**
Box 38, Folder 2	**APS. Meeting. Chicago 1/70 General. Minutes.**
Box 38, Folder 3	**APS. Meeting. Chicago 1/70 General. Minutes.**
Box 38, Folder 4	**APS. Meeting. Washington 4/70 Council. Agenda and minutes.**
Box 38, Folder 5	**APS. Meeting. Washington 4/70 Council. Minutes.**
Box 38, Folder 6	**APS. Meeting. New York 8/70 Council. Minutes and miscellaneous.**
Box 38, Folder 7	**APS. Meeting. New York 11/70 Council. Agenda, report, and minutes.**
Box 38, Folder 8	**APS. Meeting. New York 11/70 Council. Treasurer's report.**
Box 38, Folder 9	**APS. Committees. Bonner Prize.**
Box 38, Folder 10	**APS. Committees. Buckley Prize.**
Box 38, Folder 11	**APS. Committees. Committee on the Character of APS Meetings (CAPSICUM). Correspondence (2-7/65).**
Box 38, Folder 12	**APS. Committees. CAPSICUM. Correspondence (8-9/65).**
Box 38, Folder 13	**APS. Committees. CAPSICUM. Correspondence (10/65-5/66).**
Box 38, Folder 14	**APS. Committees. CAPSICUM. Correspondence (6-9/66).**
Box 38, Folder 15	**APS. Committees. CAPSICUM. Correspondence (10/66-5/67).**
Box 39, Folder 1	**APS. Committees. Committee on the Revision of the APS Constitution (CRAC). Correspondence (4-11/65).**
Box 39, Folder 2	**APS. Committees. CRAC. Correspondence (12/65).**
Box 39, Folder 3	**APS. Committees. CRAC. Correspondence (1/66).**
Box 39, Folder 4	**APS. Committees. CRAC. Correspondence (2-3/66).**
Box 39, Folder 5	**APS. Committees. CRAC. Correspondence (3/66).**
Box 39, Folder 6	**APS. Committees. CRAC. Correspondence (4/66).**
Box 39, Folder 7	**APS. Committees. CRAC. Correspondence (4-5/66).**
Box 39, Folder 8	**APS. Committees. CRAC. Correspondence (7-8/66).**
Box 39, Folder 9	**APS. Committees. CRAC. Correspondence (8/66-5/68).**
Box 39, Folder 10	**APS. Committees. Council. Correspondence (9/63-4/64).**
Box 39, Folder 11	**APS. Committees. Council. Correspondence (4/6-64).**
Box 39, Folder 12	**APS. Committees. Council. Correspondence (6-9/64).**
Box 39, Folder 13	**APS. Committees. Council. Correspondence (10/64-1/65).**
Box 39, Folder 14	**APS. Committees. Council. Correspondence (1/66-7/68).**
Box 39, Folder 15	**APS. Committees. Council. Correspondence (7-10/68).**
Box 39, Folder 16	**APS. Committees. Council. Correspondence (11/68-1/69).**
Box 39, Folder 17	**APS. Committees. Council. Correspondence (6-12/69).**
Box 39, Folder 18	**APS. Committees. Council. Correspondence (1-4/70).**
Box 39, Folder 19	**APS. Committees. Council. Correspondence (6/70).**
Box 40, Folder 1	**APS. Committees. Council. Correspondence (7/70).**
Box 40, Folder 2	**APS. Committees. Council. Correspondence (8/70-1/71).**
Box 40, Folder 3	**APS. Committees. Council. Auditor's Report (1963).**
Box 40, Folder 4	**APS. Committees. Council. Auditor's Report (1964).**
Box 40, Folder 5	**APS. Committees. Council. Auditor's Report (1967).**
Box 40, Folder 6	**APS. Committees. Council. Auditor's Report (1968).**
Box 40, Folder 7	**APS. Committees. Davisson-Germer Prize.**
Box 40, Folder 8	**APS. Committees. Heineman Prize.**
Box 40, Folder 9	**APS. Committees. High Energy Physics Association (HEPA). Correspondence (4-7/65).**
Box 40, Folder 10	**APS. Committees. HEPA. Correspondence (8/65-2/66).**
Box 40, Folder 11	**APS. Committees. HEPA. Proposal.**
Box 40, Folder 12	**APS. Committees. Nuclear Physics. Correspondence (3-11/65).**
Box 40, Folder 13	**APS. Committees. Publications Committee.**
Box 40, Folder 14	**APS. Committees. Revision of Physical Review. Correspondence.**
Box 40, Folder 15	**APS. Committees. Advisory Committee on Fellowship Nominations.**
Box 40, Folder 16	**APS. Committees. History of Quantum Physics.**
Box 40, Folder 17	**APS. Committees. Nominating Committee. Correspondence (1-3/66).**
Box 40, Folder 18	**APS. Committees. Nominating Committee. Correspondence (4-5/66).**
Box 40, Folder 19	**APS. Committees. Nominating Committee. Nominations (1967).**

Box 40, Folder 20	**APS. Committees. Organization of the APS.**
Box 40, Folder 21	**APS. Committees. Representative of the APS on USANCIUPAP.**
Box 40, Folder 22	**APS. Survey of Salaries of APS Officers.**
	COMMITTEE OF CONCERNED SCIENTISTS (CCS).
Box 41, Folder 1	**CCS. Correspondence (5-8/1979).**
Box 41, Folder 2	**CCS. Correspondence (12/79-4/80).**
Box 41, Folder 3	**CCS. Correspondence (5-8/1980).**
Box 41, Folder 4	**CCS. Correspondence (11/80-2/81).**
Box 41, Folder 5	**CCS. Correspondence (3-6/1981).**
Box 41, Folder 6	**CCS. Correspondence (7-11/1981).**
Box 41, Folder 7	**CCS. Correspondence (12/81-5-82).**
Box 41, Folder 8	**CCS. Correspondence (6-12/1982).**
Box 41, Folder 9	**CCS. Correspondence (1-2/1983).**
Box 41, Folder 10	**CCS. Correspondence (3-7/1983).**
	INTERNATIONAL SOCIETY OF MAGNETIC RESONANCE.
Box 42, Folder 1	**ISMAR. Correspondence (3/69-12/71).**
Box 42, Folder 2	**ISMAR. Correspondence (3-12/1972).**
Box 42, Folder 3	**ISMAR. Correspondence List of members. (1/1973).**
Box 42, Folder 4	**ISMAR. Correspondence (2-6/1973).**
Box 42, Folder 5	**ISMAR. Correspondence (7-12/1973).**
Box 42, Folder 6	**ISMAR. Correspondence (1-4/1974).**
Box 42, Folder 7	**ISMAR. Correspondence (9/74-12/75).**
Box 42, Folder 8	**ISMAR. Correspondence (12/76-12/78).**
Box 42, Folder 9	**ISMAR. Correspondence (1/79-2/82).**
Box 42, Folder 10	**ISMAR. Correspondence (3-8/1982).**
Box 42, Folder 11	**ISMAR. Correspondence (9/1982).**
Box 42, Folder 12	**ISMAR. Correspondence (10 1-7/1982).**
Box 42, Folder 13	**ISMAR. Correspondence (10 8-13/1982).**
Box 42, Folder 14	**ISMAR. Correspondence (10 15-20/1982).**
Box 42, Folder 15	**ISMAR. Correspondence (10 21-30/1982).**
Box 42, Folder 16	**ISMAR. Correspondence (11/1982).**
Box 42, Folder 17	**ISMAR. Correspondence (12/1982).**
Box 42, Folder 18	**ISMAR. Correspondence (1-5/1983).**
Box 42, Folder 19	**ISMAR. Correspondence (6-7/1983).**
Box 42, Folder 20	**ISMAR. Program announcements. IVth and Vth meetings.**
Box 42, Folder 21	**ISMAR. Program announcements. VIth meeting.**
Box 42, Folder 22	**ISMAR. Program announcements. VIII meeting.**
Box 42, Folder 23	**ISMAR. Miscellaneous.**
Box 42, Folder 24	**ISMAR. Miscellaneous receipts.**
Box 42, Folder 25	**ISMAR. Constitution.**
Box 43, Folder 1	**JEWISH HALL OF FAME.**
	KURATORIUM FUR DIE TAGUNGEN DER NOBELPREISTRAGER
Box 43, Folder 2	**KTN. Outgoing correspondence (1955-82).**
Box 43, Folder 3	**KTN. Incoming correspondence (Bernadotte).**
Box 43, Folder 4	**KTN. Incoming correspondence (F-S).**
Box 43, Folder 5	**KTN. Programs.**
	NATIONAL ACADEMY OF SCIENCES.
Box 43, Folder 6	**NAS. Outgoing correspondence (1948-71).**
Box 43, Folder 7	**NAS. Incoming correspondence (A-W).**
Box 43, Folder 8	**NAS. Programs (1966, 1973).**
	NATIONAL SCIENCE FOUNDATION.
Box 43, Folder 9	**Correspondence (1952-69).**
	NEW YORK ACADEMY OF SCIENCES.
Box 43, Folder 10	**Correspondence (1968).**
	NOBELSTIFTELSEN.
Box 43, Folder 11	**Correspondence (1968-1975).**
	ORDEN POUR LE MERITE FUR WISSENSCHAFTEN UND KUNSTE (OMWK).
Box 43, Folder 12	**OMWK. Correspondence (11/71-8/79).**

Box 43, Folder 13 **OMWK. Correspondence (9/79-3/80).**
Box 43, Folder 14 **OMWK. Correspondence (6/80-5/81).**
Box 43, Folder 15 **OMWK. Correspondence (6/81-3/82).**
Box 43, Folder 16 **OMWK. Correspondence (4-8/1982).**
Box 43, Folder 17 **OMWK. Correspondence (9/82-6/83).**

ROYAL NETHERLANDS ACADEMY OF ARTS AND SCIENCES.
Box 43, Folder 18 **Correspondence (1974-78).**

ROYAL SOCIETY OF EDINBURGH.
Box 43, Folder 19 **Correspondence and Yearbook (1975) (1966).**

SOCIETY OF THE SIGMA XI.
Box 43, Folder 20 **Program and announcements (1959-76).**

SOCIETE FRANCAISE DE PHYSIQUE.
Box 43, Folder 21 **Correspondence (1967-74).**

SOCIETE SUISSE DE PHYSIQUE.
Box 43, Folder 22 **Programs (1963).**

SWEDISH ROYAL ACADEMY: NOBEL COMMITTEE.
Box 43, Folder 23 **Correspondence (1945-64).**

TATA INSTITUTE OF FUNDAMENTAL RESEARCH.
Box 43, Folder 24 **Correspondence (1970-79).**

UNION OF CONCERNED SCIENTISTS.
Box 43, Folder 25 **Correspondence (1975).**

UNIVERSITIES' NATIONAL ANTI-WAR FUND.
Box 43, Folder 26 **Correspondence (1970).**

SCIENTISTS AND ENGINEERS FOR SECURE ENERGY (SESE).
Box 44, Folder 1 **SESE. Outgoing (1975-80).**
Box 44, Folder 2 **SESE. Incoming (A-C).**
Box 44, Folder 3 **SESE. Incoming (D-M).**
Box 44, Folder 4 **SESE. Incoming (O-T).**
Box 44, Folder 5 **SESE. Incoming (Todorovich 1976-80).**
Box 44, Folder 6 **SESE. Incoming (Todorovich 1981).**
Box 44, Folder 7 **SESE. Incoming (Todorovich 1982).**
Box 44, Folder 8 **SESE. Weekly Reports (1975).**
Box 44, Folder 9 **SESE. Status Updates.**
Box 44, Folder 10 **SESE. SENSE newsletters.**
Box 44, Folder 11 **SESE. Miscellaneous publications and articles.**

SERIES V **PUBLICATIONS**

Scope and Content Note

This series is composed of two sections: one contains reprints of all of the articles published by Felix Bloch; the other, a selection from Bloch's collection of reprints by various authors.

REPRINTS

Scope and Content Note

In this section, folders are arranged chronologically, with dates ranging from 1928 to 1982; each folder contains a single article. Most of the articles are reports of Bloch's research and were originally published in scientific journals. Some, however, are nonscientific in nature (i.e. tributes to colleagues, review articles for the educated public).

Box 45, Folder 1 **Zur Strahlungsdampfung in der Quantenmechanik, *Phys. Zeits. 29* 58-66. (1928)**
Box 45, Folder 2 **Uber die Quantenmechanik der Elektronen in Kristallgittern, *Zeits. f. Physik 52.7-8* 555-600. (1928)**
Box 45, Folder 3 **Zur Quantenmechanik der elektrischen Leitfahigkeit der Metalle, *Helv. Phys. 1* 466-467. (1929)**
Box 45, Folder 4 **Zur Suszeptibilitat und Widerstandsanderung der Metalle im Magnetfeld, *Zeits. f. Physik 53.3-4* 216-227. (1929)**
Box 45, Folder 5 **Bemerkung zur Elektronentheorie des Ferromagnetismus und der elektrischen Leitfahigkeit, *Zeits. f. Physik 57.7-8* 545-555. (1929)**

Box 45, Folder 6	**Zum Elektrischen Widerstandsgesetz bei tiefen Temperaturen, *Zeits. f. Physik 59.3-4* 208-214. (1930)**
Box 45, Folder 7	**Uber die Wechselwirkung der Metallelektronen, *Leipziger Vortrage 1930* 67-74. (1930)**
Box 45, Folder 8	**Zur Theorie des Ferromagnetismus, *Zeits. f. Physik 61.3-4* 206-219. (1930)**
Box 45, Folder 9	**Ferromagnetisme en Quantum Mechanica, *Physica 10.5* 153-164. (1930)**
Box 45, Folder 10	**Zur [UNK] der Magnetisierung ferromagnetischer Einkristalle, (with G. Gentile) *Zeits.f. Physik 70.5-6* 395-408. (1931)**
Box 45, Folder 11	**Wellenmechanische Diskussion der Leitungsund Photoeffekte, *Phys.Zeits. 32* 881-886. (1931)**
Box 45, Folder 12	**Zur Theorie des Austauschproblems und der Remanenzerscheinung der Ferromagnetika, *Zeits. f. Physik 74.5-6* 295-335. (1932)**
Box 45, Folder 13	**Zur Bremsung rasch bewegter Teilchen beim Durchgang durch Materie, *Ann. d. Physik 16.3* 285-320. (1933)**
Box 45, Folder 14	**Bremsvermogen von Atomen mit mehreren Elektronen, *Zeits. f. Physik 81.5-6* 363-376. (1933)**
Box 45, Folder 15	**Remarque sur un Theoreme de Conversation dans la Theorie des Metaux, *Le Journal de Physique et le Radium 4.8* 486-491. (1933)**
Box 45, Folder 16	**Die Elektronentheorie der Metalle, *Handbuch der Radiologie 6.1-2* 226-278. (1933)**
Box 45, Folder 17	**Die physikalische Bedeutung mehrerer Zeiten in der Quantenelektrodynamik, *Phys. Zeits. d'Sowjetunion 5.2* 301-315. (1934)**
Box 45, Folder 18	**Inkoharente Rontgenstreuung und Dichteschwankungen eines entarteten Fermigases, *Helv. Phys. Acta 7.4* 385-405. (1934)**
Box 45, Folder 19	**Theory of the Compton-Line, *Phys. Rev. 46* 674-687. (1934)**
Box 45, Folder 20	**Molekulartheorie des Magnetismus, *Handbuch der Radiologie 6.2,* 2nd edition, 375-484.**
Box 45, Folder 21	**Radiative Auger Effect, (with P. A. Ross) *Phys. Rev. 47* 884-885 (L). (1935)**
Box 45, Folder 22	**Double Electron Transitions in X-ray Spectra, *Phys. Rev. 48* 187-192. (1935)**
Box 45, Folder 23	**On the Mechanism of Unimolecular Electron Capture, (with N. E. Bradbury) *Phys. Rev. 48* 689-695. (1935)**
Box 45, Folder 24	**Recoil by Beta-decay, (with C. Moller) *Nature* 911. (December 1935)**
Box 45, Folder 25	**Production of Neutrons by Annihilations of Protons and Electrons According to Fermi's Theory, (with C. Moller) *Nature* 986. (December 1935)**
Box 45, Folder 26	**On the Magnetic Scattering of Neutrons, *Phys. Rev. 50* 259 (L). On the Probability of Gamma-ray emission, (with G. Gamow) *Phys. Rev. 50* 260 (L). (1936), (1936)**
Box 45, Folder 27	**On the Continuous Gamma-Radiation Accompanying the Beta-decay, *Phys. Rev. 50* 272-278. (1936)**
Box 45, Folder 28	**On the Magnetic Scattering of Neutrons II, *Phys. Rev. 51* 994 (L). (1937)**
Box 45, Folder 29	**Note on the Radiation Field of the Electron, (with A. Nordsieck) *Phys. Rev. 52* 54-59. (1937)**
Box 45, Folder 30	**The Scattering and Absorption Cross Section of Neutrons in Cobalt, (with Bradbury, Tatel, and Ross) *Phys. Rev. 52* 256 (A); *52* 1023-1026. (1937), (1937)**
Box 45, Folder 31	**A Deuteron Source for Nuclear Research, (with N. E. Bradbury) American Physical Society abstracts 256 (A). (1937)**
Box 45, Folder 32	**On the Temperature Dependence of the Scattering of Slow Neutrons in Ferromagnetics, *Phys. Rev. 55* 1118 (A). (1939)**
Box 45, Folder 33	**Quantitative Determination of the Neutron Moment in Absolute Nuclear Magnetons, (with L. W. Alvarez) *Phys. Rev. 57* 111-122; *57* 352 (A). (1940), (1940)**
Box 45, Folder 34	**Le Moment Magnetique du Neutron, *Annales de l'Institut Henri Poincare VIII* 63-78. (1940)**
Box 45, Folder 35	**The Magnetic Moment of the Neutron, (with L. W. Alvarez). *Phys. Rev. 57* 352 (A). (1940)**
Box 45, Folder 36	**Magnetic Resonance for Nonrotating Fields, (with A. Siegert) *Phys. Rev. 57* 522-527. (1940)**
Box 45, Folder 37	**Theory of the Resonance Scattering of Protons and Neutrons on Helium, *Phys. Rev. 58* 829-836. (1940)**
Box 45, Folder 38	**Further Results on Magnetic Scattering of Neutrons, (with M. Hammermesh) *Phys. Rev. 61* 203 (A). (1942)**

Box 45, Folder 39	**Reduction of the Problem of Arbitrary Spin to that of Spin 1/2, *Phys. Rev. 62* 305 (A). (1942)**
Box 45, Folder 40	**Neutron Polarization and Ferromagnetic Saturation, (with M. Hamermesh and H. Staub) *Phys. Rev. 62* 303 (A); *64* 47-56. (1942), (1943)**
Box 45, Folder 41	**Atoms in Variable Magnetic Fields, (with I. I. Rabi) *Rev. Mod. Phys. 17* 237-244. (1945)**
Box 45, Folder 42	**Nuclear Induction, (with W. W. Hansen and M. Packard) *Phys. Rev. 69* 127 (L); *69* 680 (A). (1946), (1946)**
Box 45, Folder 43	**Nuclear Induction, *Phys. Rev. 70* 460-474. (1946)**
Box 45, Folder 44	**The Nuclear Induction Experiment, (with W. W. Hansen and M. Packard) *Phys. Rev. 70* 474-485. (1946)**
Box 45, Folder 45	**Neutron Polarization and Ferromagnetic Saturation, (with R. I. Condit and H. H. Staub) *Phys. Rev. 70* 972-973. (1946)**
Box 45, Folder 46	**Radar Reflections from Long Conductors, *Journal of Appl. Phys. 17* 1015-1020. (1946)**
Box 45, Folder 47	**Theory of Radar Reflection from Wires or Thin Metallic Strips, (with J. H. Van Vleck and M. Hamermesh) *J. Appl. Phys. 18.3* 274-294. (1947)**
Box 45, Folder 48	**Spin and Magnetic Moment of Tritium, (with Graves, Packard and Spence) *Phys. Rev. 71* 373 (L). (1947)**
Box 45, Folder 49	**Relative Moments of H1 and H3, (with Graves, Packard, and Spence) *Phys. Rev. 71* 551 (L). (1947)**
Box 45, Folder 50	**Relative Nuclear Moments of H1 and H2, (with E. C. Levinthal and M. E. Packard) *Phys. Rev. 72* 1125-1126 (L). (1947)**
Box 45, Folder 51	**A Quantitative Determination of the Magnetic Moment of the Neutron in Units of the Proton Moment, (with D. Nicodemus and H. H. Staub) *Phys. Rev. 74* 1025-1045. (1948)**
Box 45, Folder 52	**Nuclear Induction Proton Signals Below Noise Level from Gases at One Atmosphere, (with D. H. Garber) *Phys. Rev. 76* 585 (A). (1949)**
Box 45, Folder 53	**The Differential Equations of Nuclear Induction, (with R. K. Wangsness) *Phys. Rev. 78* 82 (A). (1950)**
Box 45, Folder 54	**Polarization Effects of Scattered Neutrons, (with W. E. Meyerhof and D. B. Nicodemus) *Phys. Rev. 80* 132 (A). (1950)**
Box 45, Folder 55	**A Direct Determination of the Magnetic Moment of the Proton in Nuclear Magnetons, (with C. D. Jeffries) *Phys. Rev. 80* 305-306 (L). (1950)**
Box 45, Folder 56	**Nuclear Induction, *Phys. Today 3.8* 22. (1950)**
Box 45, Folder 57	**Nuclear Induction, *Physica 17.3-4* 272-281. (1951)**
Box 45, Folder 58	**Electronic Theory of the Cylindrical Magneton (with L. Brillouin), *Advances in Electronics 3* 145-181. (1951)**
Box 45, Folder 59	**Magnetic Moments of Even-Odd Nuclei, *Phys. Rev. 83* 839 (L). (1951)**
Box 46, Folder 1	**Nuclear Relaxation in Gases by Surface Catalysis, *Phys. Rev. 83* 1062-1063 (L). (1951)**
Box 46, Folder 2	**William Webster Hansen, National Academy of Sciences' *Biographical Memoirs* XXVII 118-137. (1952)**
Box 46, Folder 3	**The Dynamical Theory of Nuclear Induction, (with R. K. Wangsness) *Phys. Rev. 89* 728-739. (1953)**
Box 46, Folder 4	**Experiments on the g-factor of the Electron, *Physica XIX* 821-831. (1953)**
Box 46, Folder 5	**Das Prinzip der Kerninduktion, *Phys. Blatter 9* 433. (1953)**
Box 46, Folder 6	**The Principle of Nuclear Induction, *Les Prix Nobel en 1952,* Stockholm: Norstedt & Soner 83-96. (1953)**
Box 46, Folder 7	**Nuclear Magnetism, *American Scientist 43.1* 48-62. (1955)**
Box 46, Folder 8	**Recent Developments in Nuclear Induction, *Phys. Rev. 93* 944 (T). (1954)**
Box 46, Folder 9	**Line-Narrowing by Macroscopic Motion, *Phys. Rev. 94* 496-497 (L). (1954)**
Box 46, Folder 10	**Contributions to Study of Nuclear Magnetism: Three Studies, (with J. Arnold and W. Anderson) CERN 55-18 (1955).**
Box 46, Folder 11	**Dynamical Theory of Nuclear Induction II, *Phys. Rev. 102* 104-135. (1956)**
Box 46, Folder 12	**Generalized Theory of Relaxation, *Phys. Rev. 105* 1206-1222. (1957)**
Box 46, Folder 13	**Theory of Line Narrowing by Double-Frequency Irradiation, *Phys. Rev. 111* 841-853. (1958)**

Box 46, Folder 14	**Methods and Applications of Nuclear Magnetism, *Proc. of the R. A. Welch Foundation Conference on Chemical Research II* 145-164. (1958)**
Box 46, Folder 15	**Zur Wirkung ausserer elektromagnetischer Felder auf kleine Systeme, *Werner Heisenberg und die Physk unserer Zeit Verlag Friedr. Vieweg und Sohn,* Braunschweig 93-102. (1961)**
Box 46, Folder 16	**Energetic Stability of Persistent Currents in a Long Hollow Cylinder, (with H. E. Rorschach) *Phys. Rev. 128* 1697-1714. (1962)**
Box 46, Folder 17	**Reminiscences of Niels Bohr, *Phys. Today 16.10* 32. (1963)**
Box 46, Folder 18	**Torque Upon a Rotating Superconductor, unpublished (1963).**
Box 46, Folder 19	**Off-Diagonal Long-Range Order and Persistent Currents in a Hollow Cylinder, *Phys. Rev. 137* A787-A795. (1965)**
Box 46, Folder 20	**Introduction: Some Fundamental Aspects of NMR, *NMR in Chemistry 1,* 1-6. (1965)**
Box 46, Folder 21	**Some Remarks on the Theory of Superconductivity, *Phys. Today 19.5* (1966).**
Box 46, Folder 22	**Flux Quantization and Dimensionality, *Phys. Rev. 166.2* 415-423. (1968)**
Box 46, Folder 23	**A Simple Interpretation of the Josephson Effect, *Phys. Rev. Letters 21* 1241-1243. (1968)**
Box 46, Folder 24	**Josephson Effect in a Superconducting Ring, *Phys. Rev. B 2.1* 109-121. (1970)**
Box 46, Folder 25	**A Short History of Superconductivity, *J. Polymer Science C 29.1* 1 (A). (1970)**
Box 46, Folder 26	**Resonance, *Pure and Applied Chemistry 32* 4B 1-8. (1970)**
Box 46, Folder 27	**Superfluidity in a Ring, *Phys. Rev. A 7.6* 2187-2191. (1973)**
Box 46, Folder 28	**Reply to 'Free Energy Minima for Helium in a Ring, *Phys. Rev. A 10.2* 716. (1974)**
Box 46, Folder 29	**Josephson Effect in a Superconducting Ring, *Science and Culture 40.9* 377-408. (1974)**
Box 46, Folder 30	**David Locke Webster, *Yearbook of the American Philosophical Society* 107. (1977)**
Box 46, Folder 31	**Dirac Equation of the Electron in a Magnetic Field, *Phys. Rev. A 25.1* 102. (1982)**

Accession ARCH-1986-093 **Additional Material**

Scope and Content Note

This addenda to the papers of Felix Bloch contains an additional four boxes of outgoing correspondence of Bloch, 1958-1974, and of his secretary Marion M. Middleton, 1962-1974; grant files; and a few miscellaneous files.

Box 1, Folder 1	**Outgoing correspondence: 1958-62**
Box 1, Folder 2	**Outgoing correspondence: 1962-64**
Box 1, Folder 3	**Outgoing correspondence: 1964-65**
Box 1, Folder 4	**Outgoing correspondence: 1965**
Box 1, Folder 5	**Outgoing correspondence: 1965-66**
Box 1, Folder 6	**Outgoing correspondence: 1966-68**
Box 1, Folder 7	**Outgoing correspondence: 1971-73**
Box 1, Folder 8	**Outgoing correspondence: 1971-73**
Box 1, Folder 9	**Outgoing correspondence: 1973-75**
Box 1, Folder 10	**Outgoing correspondence: 1976-79**
Box 2, Folder 1	**Outgoing correspondence: 1968-70**
Box 2, Folder 2	**Outgoing correspondence: 1969-71**
Box 2, Folder 3	**Outgoing correspondence: 1971-73**
Box 2, Folder 4	**Outgoing correspondence: 1973-74**
Box 2, Folder 5	**Biographical and Bibliographical Info.**
Box 2, Folder 6	**Papers by Bloch and Others**
Box 2, Folder 7	**Marion M. Middleton, outgoing correspondence, 1962-67**
Box 2, Folder 8	**Marion M. Middleton, outgoing correspondence, 1967-70**
Box 2, Folder 9	**Marion M. Middleton, outgoing correspondence, 1970-74**
Box 2, Folder 10	**Physics 210**
Box 2, Folder 11	**Bloch Reprint Requests**
Box 2, Folder 12	**Bloch Reprint Requests**
Box 2, Folder 13	**Interdepartmental Memos**
Box 2, Folder 14	**Paul Berdahl**
Box 3, Folder 1	**Proposal for Renewal of NONR 225(19) 1965**
Box 3, Folder 2	**Proposal for Renewal of NONR 225(75) 1967**
Box 3, Folder 3	**Proposal for Renewal of NONR 225(75) 1968**

Box 3, Folder 4	**Proposal for Renewal of NONR 225(75) 1969**
Box 3, Folder 5	**Proposal for Renewal of NONR 225(75) 1970**
Box 3, Folder 6	**Proposal for Renewal of N0014-67-A-0112-0047 1972**
Box 3, Folder 7	**Proposal for Renewal of N0014-67-A-0112-0047 1973**
Box 3, Folder 8	**NONR 225 (75) Account Sheet**
Box 3, Folder 9	**NONR 225 (75) Consultation**
Box 3, Folder 10	**NONR 225 (75) Correspondence**
Box 3, Folder 11	**NONR 225 (75) Reports**
Box 4, Folder 1	**NONR 225 (75) Request Approval Expend**
Box 4, Folder 2	**NONR 225 (75) Travel**
Box 4, Folder 3	**NONR 225 (75) Budget and Commitment Statements**

Accession ARCH-1990-099 **Additional Material**

Scope and Content Note

This addenda to the papers of Felix Bloch contains an additional 18 boxes of miscellaneous correspondence, writings, research notes, and official papers (business, legal, and academic matters). These materials were filed in the approximate order in which they were received, by subject. Correspondence is accordingly interfiled with other materials.

Some subjects of interest include the over fifteen years worth of memos, letters, and departmental minutes regarding the relationship between the Stanford Linear Accelerator Center (SLAC) and the Physics Department (boxes 8 and 9) as well as the correspondence and papers of the Physics Department appointments committee (box 10). Also of note are the manuscripts for numerous talks given by Bloch between 1955 and 1982 (boxes 3, 4, and 5) and a series of government requisition forms dating from Stanford's involvement in the Manhattan Project (box 7).

Box 1, Folder 1	**Two Papers: Nishiyama and Carballo/Ruvalds**
Box 1, Folder 2	**Notes on the Nishiyama and Carballo/Ruvalds paper**
Box 1, Folder 3	**Notebook entries: 9/22/1970-11/28/1970**
Box 1, Folder 4	**Notebook entries: 3/31/1971-4/11/1971**
Box 1, Folder 5	**Notebook entries: (pp. 1-43) 4/6/1970-6/26/1970**
Box 1, Folder 6	**Notebook entries: (pp. 44-143) 6/27/1970-4/22/1971**
Box 1, Folder 7	**Notebook entries: (pp. 134-165) 6/19/1971-7/10/1971**
Box 1, Folder 8	**Notebook entries: (pp. 166-204) 7/15/1971-8/8/1971**
Box 1, Folder 9	**Paper: Chang/Rorschach; Rorschach/Bloch Correspondence: 6/1972-8/1972**
Box 1, Folder 10	**Paper: Paul Berdahl (One-Dimensional Bose Gas)**
Box 1, Folder 11	**Density and Phase Variables in the Theory of Bose Systems: Bogolubov's Transformations: 12/1975; 10/1976**
Box 1, Folder 12	**Interaction of Bose (Bogolubov) and Ferini (Tomonaga) Particles**
Box 1, Folder 13	**Notebook: Draft of paper Density and Phase Variables in the Theory of Interacting Bose Systems (pp. 1-39)**
Box 1, Folder 14	**Notebook: Draft of paper (cont.) Density and Phase Variables... (pp. A1-74)**
Box 1, Folder 15	**Revisions and notes: Density and Phase Variables...**
Box 1, Folder 16	**Notebook: Revisions of Density and Phase Variables...**
Box 1, Folder 17	**Notebook: Revisions of Density and Phase Variables...**
Box 2, Folder 1	**Notebook: Draft of Density and Phase Variables...**
Box 2, Folder 2	**Notes and materials for seminars on Bose Systems**
Box 2, Folder 3	**Bloch Articles: 1980-1981**
Box 2, Folder 4	**Problem Sets from Physics 171: Winter 1968-1969, Winter 1970-1971**
Box 2, Folder 5	**Correspondence, Press Releases re: Address How I Became a Physicist January, 1970**
Box 2, Folder 6	**Diagrams, Equations: circa 1982 Mar**
Box 2, Folder 7	**Notes: ca.4/1982**
Box 2, Folder 8	**Proofs, graphs (14pp. -- missing pp.1-3): Pamphlet: no date. 10/1968**
Box 2, Folder 9	**Notes on Thermal Equilibrium: no date**
Box 2, Folder 10	**Outline, notes on Fundamentals of Statistical Mechanics: no date**
Box 2, Folder 11	**Article: Schalow; Commencement Address: Correspondence re: Commencement Address 6/13/1971;**
Box 2, Folder 12	**Res Jost: Correspondence, Article: 4/1977-12/1977**

Box 2, Folder 13	**Articles re: Zeugmatography: 1977-1978**
Box 2, Folder 14	**Gibbs Text [incl. Stanford Parking Permit used as a bookmark: (1960) 1982]**
Box 2, Folder 15	**Correspondence re: Los Alamos Nat'l Laboratory 40th Anniversary: 9/82-5/83**
Box 2, Folder 16	**Handout/Study-guide: no date**
Box 2, Folder 17	**Correspondence: [unknown signature]: 11/1982**
Box 3, Folder 1	**Correspondence: Bloch, Mott, and Seitz (10/25/1978 - 2/15/1980)**
Box 3, Folder 2	**Papers from the conference Beginnings of Solid State Physics**
Box 3, Folder 3	**Manuscript: Bistability and the Onset of Chaos**
Box 3, Folder 4	**Articles on Chaos**
Box 3, Folder 5	**Copies of Correspondence with Niels Bohr**
Box 3, Folder 6	**Proofs, Overheads on Nuclear Magnetic Resonance: Past, Present, and Future: 1987**
Box 3, Folder 7	**Lecture notes, Overheads on the Josephson Effect: 1971-1972**
Box 3, Folder 8	**Lecture notes, Overheads on Superfluidity: 1976**
Box 3, Folder 9	**The Early Days of NMR: 1972, 1978, 1979**
Box 4, Folder 1	**Quantum Statistics of Ideal Gases: Undated**
Box 4, Folder 2	**Quantum Statistics: Undated**
Box 4, Folder 3	**Statistical Mechanics: Undated**
Box 4, Folder 4	**Statistical Mechanics: Undated**
Box 4, Folder 5	**Statistical Mechanics (Photocopies): Undated**
Box 4, Folder 6	**Statistical Mechanics (Photocopies): Undated**
Box 4, Folder 7	**Notes for lectures at Howard University: 1/26/1967-1/27/1967**
Box 4, Folder 8	**Notes for lectures: 9/1964-2/1966**
Box 4, Folder 9	**Bohr Commemorative Lectures (Draft, typescripts): 1963**
Box 4, Folder 10	**Correspondence: Bloch, Rosenfeld (8/20/1964-4/8/1965)**
Box 4, Folder 11	**Reminiscences of Niels Bohr: 1964**
Box 4, Folder 12	**Articles on NMR Imaging: 1975-1983**
Box 4, Folder 13	**Notes for lecture on *Kernmagnetismus* (Zurich): 2/1964**
Box 4, Folder 14	**Talk from the conference 40 Years of Electrons in Metals: 10/25/1968**
Box 4, Folder 15	**Talks: How I became a Physicist: and My Beginnings as a Physicist: 1/20/1970 11/19/1970**
Box 4, Folder 16	**Writings on The Early Days of Quantum Mechanics: 1976-1982**
Box 4, Folder 17	**Talk: The Beginnings of NMR: 5/1971, 8/1972**
Box 5, Folder 1	**Manuscripts: Talks (6/1955-1958)**
Box 5, Folder 2	**Manuscripts: Talks (5/19/1959-12/13/1961)**
Box 5, Folder 3	**Manuscripts: Talks (1/24/1962-2/18/1964)**
Box 5, Folder 4	**Manuscripts: Talks (2/24/1969-11/18/1979)**
Box 5, Folder 5	**Manuscripts: Talks (nd: ca.1951- ca.1971)**
Box 5, Folder 6	**Manuscripts: Talks (1971-1982)**
Box 5, Folder 7	**Manuscripts: Talks on Quantatized Flux (1961-1968)**
Box 5, Folder 8	**Notes, Articles: Superfluidity in rings (1972-1974)**
Box 5, Folder 9	**Typescripts, Notes: Talks (1971-1972)**
Box 5, Folder 10	**Typescripts of Talks (Bloch, Heisenberg): Undated**
Box 5, Folder 11	**Reminiscences of Niels Bohr: Manuscripts, Typescripts (1963)**
Box 6, Folder 1	**Notes, Correspondence: Bombay lectures (1962-1963)**
Box 6, Folder 2	**Reminiscences of Heisenberg and the Early Days of Quantum Mechanics Talk for the American Physical Society: 4/26/1976**
Box 6, Folder 3	**Article for *Encyclopedia of Physics* (Notes, Drafts, Proofs, Correspondence)**
Box 6, Folder 4	**Reminiscences of Heisenberg and the Early Days of Quantum Mechanics Correspondence, Proofs for *Physics Today:* 4/13/1976-1/5/1977**
Box 6, Folder 5	**Bloch articles (used by Richard Hofstadter)**
Box 6, Folder 6	**Bloch testimonials**
Box 6, Folder 7	**Obituaries of Heisenberg**
Box 7, Folder 1	**NDRC Requisitions: 6/24/1942-8/11/1942**
Box 7, Folder 2	**NDRC Requisitions: 8/13/1942-9/4/1942**
Box 7, Folder 3	**NDRC Requisitions: 9/4/1942-10/12/1942**
Box 7, Folder 4	**NDRC Requisitions: 10/12/1942-11/25/1942**
Box 7, Folder 5	**NDRC Requisitions: 12/3/1942-1/19/1943**
Box 7, Folder 6	**NDRC Requisitions: 2/11/1943-5/25/1943**

Box 7, Folder 7	**NDRC Requisitions: (also: budget material, graph) 6/14/1943-6/29/1943**
Box 7, Folder 8	**Clearence, Security Correspondence: 7/6/1943-8/9/1954**
Box 7, Folder 9	**Security, material request forms: 8/20/1954-11/16/1960**
Box 7, Folder 10	**Varian-Bloch Audit Correspondence: 9/2/1964-4/20/1965**
Box 7, Folder 11	**Varian-Bloch Audit Correspondence: 5/18/1965-2/2/1967**
Box 7, Folder 12	**Varian-Bloch Audit Correspondence: 7/26/1967-8/3/1967**
Box 7, Folder 13	**Varian-Bloch Audit Correspondence: 8/24/1967-9/20/1967**
Box 7, Folder 14	**Elion v. Varian Associates Correspondence: 3/27/1962-8/9/1962**
Box 7, Folder 15	**Elion v. Varian Associates Correspondence: 5/15/1963-12/2/1964**
Box 8, Folder 1	**Bloch-Packard-Shoolery: Patent Application #454,272**
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Box 12, Folder 1	**Faust-- Eine Historie (Strossbrigade des Institut teoretisk Fysik: Les Cent Contre Einstien: 1932), 1931**
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Box 17, Folder nf	**SCIENCE AND TECHNION; a selection of major essays on science and society contributed to the TECHNION YEARBOOK; Ben Dibner, editor; 1959**
Box 18 oversize	**Photograph of Bloch and J.E. Wallace Sterling, inscribed by Sterling, 1952**

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Box 2, Folder 9 **Statistical mechanics, manuscript, pp. 1-34**
Box 2, Folder 10 **Statistical mechanics, manuscript, pp. 35-72**

Accession ARCH-2010-024 **Additional Material**

Box 1 **Collected papers of Felix Bloch: 3 bound volumes.**

Scope and Content Note

"This collection was undertaken with the encouragement of Professors Marvin Chodorow and Walter Meyerhof. It was assembled through the efforts of three dedicated members of the Physics Department staff: Virginia Bonnici, Bobbe Fowlie, and Bogar Tesszary." Each volume has a table of contents. Volume 1 covers 1928-1934; Volume 2 covers 1934-1951; Volume 3 covers 1951-1970.