

11/10/20  
Engineering  
Physics  
John Bardeen Papers, 1910-1991

## TABLE OF CONTENTS

	<u>Boxes</u>	<u>Pages</u>
Biographical Note		2-3
Provenance, Content and Arrangement		4-5
Processing and Finding Aids		5-7
Biographical	1-4	8-9
Publications, 1930-1991	4-8	9-10
Dissertations, 1952-1986	9-13	10-12
Correspondence, 19445-70, 1972-91	14-29	12-16
Subject File		
Undated	29-35	16-18
1910-1949	35-42	18-22
1950-1960	42-62	22-31
1960-1968	62-87	31-45
1969-1978	88-103	45-54
1978-1991	103-123	54-66
Biographical Materials (acquired 27 September 2002)	124	66
Correspondence (acquired 27 September 2002)	124-127	67-68
Subject File (acquired 27 September 2002)	127-130	68-70
Awards and Honors (acquired 14 May 2003)	131-132	70-73
Biographical Materials (acquired 11 August 2022)	133-136	73-76
Publications (acquired 11 August 2022)	136-137	76
Correspondence (acquired 11 August 2022)	137-138	77
Awards and Honors (acquired 11 August 2022)	138-145	77-82
Family Life (acquired 11 August 2022)	145-151	82-87
Publicity (acquired 11 August 2022)	151-155	87-90
Subject File (acquired 11 August 2022)	155-183	90-100
Irregular Sized Materials (acquired 11 August 2022)	168-184	100-104

### Biographical Note

May 23, 1908 Born, Madison Wisconsin – son of Medical School Dean Charles R. Bardeen and Althea Harmer

1923 University High and Madison Central

1928 B.S. Wisconsin, Electrical Engineering. Western Electric. Edward Bennett electrodynamics course

1929 M.S. Wisconsin, Electrical Engineering. J. H. Van Vleck

1930-33 Geophysicists, Gulf Research and Development Corporation - Leo J. Peters

1936 Ph.D. Princeton, Mathematics and Physics. E. P. Wigner

1935-38 Junior Fellow, Harvard. J. H. Van Vleck and P. W. Bridgman

July 18, 1938 Married Jane Maxwell

1939-41 Assistant Professor of Physics, University of Minnesota

1941-45 Principal Physicist, U. S. Naval Ordnance Laboratory (Washington D.C.), magnetism and minesweeping

1945-51 Radar, Bell Telephone Laboratories, Murray Hill, New Jersey

1947 Surface physics - properties of contacts between metals of semi-conductors depend on electron behavior in surface energy levels

1948 Transistors with William B. Shockley and Walter Brattain. Point contact type

1951-75 Professor of Physics and Electrical Engineering, University of Illinois. Louis Ridenour. Xerox Corporation

1952 Transistor literature

March 1953 Fortune article on transistors

Theoretical understanding of semiconductors

Explained why metal-germanium contact gives effect of a PN junction in a semiconductor – in terms of surface energy states

1956 National Academy of Science member

1957 Theory of Superconductivity - vanishing of electrical resistance of some metals at low temperatures

1975 Professor Emeritus, university of Illinois

January 30, 1991 Died, Boston, Massachusetts

#### Research Areas:

Electrical conduction in semiconductors and metals; surface properties of semiconductors; theory of superconductivity; and diffusion of atoms in solids

#### Prizes and Honors:

1952 Ballantine Medal, Franklin Institute

1954 Buckey Prize (solid state)

1955 Scott Medal, D.Sc. Union

1956 Nobel Prize for Physics

1960 D.Sc. University of Wisconsin

1962 London Prize

1972 Nobel Prize for Physics

1974	D.Sc. University of Illinois
1977	Presidential Medal of Freedom
1987	Lomonosov Award, Soviet Academy of Sciences
1990	John Bardeen Chair in Physics and Electrical and Computer Engineering Established at University of Illinois ( <i>Digital Surrogate</i> )

## Provenance

The University Archives received eight accessions of John Bardeen's papers on the following dates: December 12, 1964; February 8, 1965; February 19, 1974; September 10, 1991; December 20, 1991; May 19, 1992; September 27, 2002; and August 11, 2022. Materials accessioned prior to 1991 were processed on receipt. The September 10, 1991 and May 19, 1992 accessions were processed January-June 1996 when the other processed materials were integrated into the collection, and a new finding aid was prepared. Another accession was received September 27, 2002, from Professor Lillian Hoddeson who had held this additional material in an office in Engineering Sciences Building since the main body of Bardeen materials had been moved out of his office in 1991-92. The 2002 addition was processed upon receipt and added to the end of the existing collection, and modifications were made to the existing finding aid. On May 14, 2003, material donated to the Spurlock Museum by the estate of John Bardeen was accessioned. More materials were donated on August 11, 2022. This accession was processed in 2023.

## Content and Arrangement

Papers of John Bardeen (1908-91), Professor of Electrical Engineering and Physics (1951-91), include publications (1930-91), dissertations and theses by Bardeen students (1952-85), correspondence (1945-70, 1972-91), reports, preprints, reprints, drafts, speeches, notes, photographs, slides, tape recorded interviews, motion pictures, emails, transistors, pamphlets, event programs, meal menus, magazines, newspaper clippings, passports, itineraries, photographs, negatives, postcards, guidebooks, stamps, seals, vaccine cards, seat tags, certificates, tie-clips, pins, and a slide ruler (1910-2018) concerning theoretical physics, solid state physics, development of the transistor, Bell Laboratories and the transistor (1936-68), xerography, development of the theory of superconductivity with J. R. Schrieffer and Leon Cooper, the applications of transistors and superconductivity, many body theory, Russian and Chinese physics research, American Physical Society, Army Research Office, Center for Advanced Study, International Union of Pure and Applied Physics, Naval Ordnance Laboratory, Navy Research Office, Sony Corporation, Supertex, Inc., White House Science Council (1979-83), and Xerox and its predecessor, the Haloid Company, electrolytic transistor invention patents (1910-60), consulting work, family life and genealogy, William (Bill) Bardeen, Karen Bardeen, memorial gifts and tributes to John Bardeen, the University of Wisconsin and the Physics Department. Correspondents include Walter H. Brattain, P. W. Bridgman, Leon Cooper, Harry G. Drickamer, H. Fröhlich, Jack E. Goldman, Nick Holonyak, Jr., Charles Kittel, J. R. Schrieffer, Karlheinz Seeger, Frederick Seitz, William B. Shockley, and J. H. Van Vleck. Tape recorded interviews contain comments on theoretical physicists, experimental physics, theory of superconductivity, many body theory, scientific publication, education, Dr. Charles Bardeen, solid state physics, considerations in coming to Illinois, recruitment of new faculty, scientific understanding and communication between and education of non-scientists and scientists. Motion pictures include a May 1972 interview with Bardeen, Brattain and Shockley on the development of the transistor and a December 1972 Swedish film on the contributions of Bardeen, Cooper and Schrieffer to the theory of superconductivity. Reprints include Bardeen's December 11, 1956 Nobel lecture on "Semiconductor Research Leading to the Point Contact Transistor," and his December 11, 1972 Nobel Lecture on "Electron-Phonon Interactions and

Superconductivity."

## **Processing and Finding Aids**

### Initial Subject File Processing

Working at the Physics Department under the direction of University Archivist Maynard Brichford, Tonya Lillie refoldered the material into acid-free folders, retaining the original arrangement of the folders and transcribing the original folder titles. Folders were assigned individual two-part sequential numbers, keyed to the number or letter of the original file cabinet drawers or boxes in which they were stored and to the number of the folder within that drawer or box. The Physics Department then prepared a "Master Index," providing a drawer-by-drawer inventory of Bardeen's file folders in their original order, and listing drawer number, folder-title, date and, in some cases, brief comments on folder contents.

On September 10, 1991, 48 cubic feet of Prof. Bardeen's papers were transferred to the University Archives and processing was conducted intermittently from October 1991 through June 1994. By June 1994, Brichford had identified four major groupings of files within the Bardeen Papers: publications, dissertations, correspondence, and subjects. He arranged chronologically the publications, dissertations, correspondence, and approximately one-quarter of the subject files. He had also begun to supply more descriptive folder titles and to assign more precise dates to folders in the subject files. Brichford and graduate assistant Ellen Swain produced a folder listing in WordPerfect format for drawers 1-9 this segment, sorted both by folder number (original order) and chronologically.

### Subject File processing (January-June 1996)

Under the direction of William Maher and Wanda Finney, graduate assistants Karen Hansen and Thomas Kmetz began processing the remainder of the subject files in January 1996. Original folder numbers were retained. Descriptive folder titles, inclusive dates, and the date of the earliest document in each folder were assigned. The original short folder titles assigned by the Physics Department were retained on the folders, but more descriptive folder titles assigned by the University Archives were written in brackets on folders. Any unfolded material was assigned folder numbers keyed to its original box or drawer location. These folder numbers appear in brackets on folders.<sup>1</sup> Earliest dates, descriptive folder titles with inclusive dates, and folder numbers were entered into a WordPerfect merge file. Dates for Subject File folders processed by Brichford were reviewed and amended as necessary to list the date of the earliest document in each folder and provide the inclusive dates of all documents in those folders. The edited text of Brichford's list for drawers 1-9 was converted to a WordPerfect merge file and combined with the first merge file.

---

<sup>1</sup> In addition, groups of folders, which, in the original Physics Department numbering scheme, were assigned only one inclusive number (for example, D-1) have been assigned their own separate sequential numbers (such as D-1-1 through D-1-13).

Folders in the Subject File which contained correspondence or dissertations were separated and placed chronologically in the Correspondence or Dissertation File respectively. Folders in the Subject File with no dates or with only approximate dates were assigned an earliest date of zero. The merge file was sorted by the earliest dated document (in the format year-month-day) and by folder number thereunder. Folders in the Subject File were then arranged chronologically by date of the earliest document in each folder. Subject File material separated from material processed prior to 1991 has been coded as coming from box "Z". The subject file portion of the papers is listed on the finding aid with the three fields used in sorting the subject file: earliest date, folder number, and folder title.

#### Subject File Processing (October 2002)

On September 27, 2002, 2.3 cubic feet of material was received from the office of Lillian Hoddeson. According to her, after the transfer of Bardeen files to archives in 1992, the secretary of the physics department informed her that papers remained in the secretary's office. These were transferred to Lillian Hoddeson's office. She subsequently deposited them in archives. These files were re-organized by existing groupings, arranged chronologically, and added to the end of the existing series as boxes 124-130. A modified finding aid was then prepared.

#### Subject File Processing (September 2003)

On May 14, 2003, material was received from the Spurlock Museum. This material was arranged chronologically by topic and added to the end of the existing series as boxes 131-132. A modified finding aid was then prepared.

#### Subject File Processing (August 2022)

On August 11, 2022, material was received from the Bardeen Family. This material was arranged chronologically by topic and added to the end of the existing series as boxes 133-184. A modified finding aid was then prepared.

#### Note on Prior Accessions

Prior to 2022, duplicates (1.3 cubic feet) were separated from the papers and are being held unprocessed by the University Archives. File folders were replaced with acid-neutral folders during processing, and original folders were retained by the Archives.

#### Supplementary finding aid

To simplify the searching for topics, titles, and names, the finding aid was available on an IBM diskette for use with word-processing or searching software. This finding aid is no longer being updated as of August 2023.

### Access and Use Considerations

The chronological listing of Bardeen's correspondence currently provides only a summary indication of the breadth of his correspondence with other physicists, with scientists employed in government and industry, with his students, and with the general public. Bardeen's files, especially those in the Subject File often contain documents of several different types (e.g., preprints and reprints of other scientists, correspondence with colleagues, and drafts for his own scientific publications and speeches). In addition, dates for documents within folders can vary widely. As Maynard Brichford mentioned in a February 14, 1994 processing note, Bardeen's "files contain documents of different dates that have little relation to other contents, especially in [folders for] meetings and trips." While descriptive folder titles can capture types and subjects of most documents in individual folders, these folder titles do not provide the subject access points that many research projects may require exploiting the full scope and significance of the Bardeen papers for the history of science and technology will thus be a cooperative venture of researchers and archivists in examining questions in detail beyond what appears on the folder title.

Box 1:

## BIOGRAPHICAL

Complete list of John Bardeen's publications, 1930-91

Interview with John Bardeen by Maynard Brichford, University Archives, (two 7" open reel audio tapes), February 8, 1965

"An Interview with the Transistor Inventors," Bell Laboratories (sound color motion picture featuring J. Bardeen, W. B. Shockley, and W. H. Brattain, 12 min.), May 1972

Swedish Broadcasting Company, Nobel Fysik (three 5" audio tape reels), October 1972

U-matic videocassette containing March 19, 1990 dubs of 16 mm films:

"An Interview with the Transistor Inventors," May 1972, and

"Nobelpriset i fysik möte med John Bardeen, Leon N. Cooper, John Robert Schrieffer"

"Nobelpriset i fysik möte med John Bardeen, Leon N. Cooper, John Robert Schrieffer "Prize in Physics," 16 mm color film in English of meetings with Bardeen, Cooper and Schrieffer, produced for Swedish Radio by Bengt Feldreich and Ake Gustavson (one 10.5" reel, 20 min.), December 6, 1972

Box 2:

## BIOGRAPHICAL

Interview with John Bardeen by Louise Geislars, WILL (one 7" audio tape reel, 3 3/4 IPS), November 6, 1973

Interview of John Bardeen by Lillian Hoddeson for the American Institute of Physics, May, 1977- April, 1978

Three audio cassette copies and typed transcripts (4 folders) accessioned from AIP September 2004

"The Early Days of the Transistor," a talk by Bardeen delivered to the student branch of the Institute of Electrical & Electronic Engineers (one audio cassette), February 28, 1979

Interview of John Bardeen by Lillian Hoddeson for the American Institute of Physics, February 1980. Typed transcripts accessioned from AIP September 2004.

NBI computer diskettes (four 8" disks), 1982-88

Bardeen lecture at U of I, recorded by R. T. Gladin and reproduced November-December 1991 for Nick Holonyak, Jr. (one VHS videotape), May 12, 1987

Bardeen and Holonyak interview with NHK - Japanese TV (one VHS videotape), 1990

Swedish TV presentation on 1972 Nobelists Bardeen, Cooper, and Schrieffer, reproduced by Nick Holonyak, Jr. and Jack Gladin (one VHS videotape), April 1992

John Bardeen Memorial, the Illini Union (one VHS videotape), February 8, 1991

Box 3:

## BIOGRAPHICAL

Presentation of John Bardeen's medals, UIUC Board of Trustees meeting (one audio cassette),



October 10, 1991

Nick Holonyak, Jr. correspondence on Bardeen and Holonyak interview with NHK, October 1992

Photocopy of Transistor Press Release, 1948

Bell Telephone System Technical Publication: Some Contributions to Transistor Electronics, 1949

Biographical sketches, Bardeen vitae, IRS and Department of Defense personnel questionnaires, draft lists of publications, U of I Physics Department personal annual report, sabbatical leave report, 1954, 1959, 1960-61

"Nobel Prize Awarded to Transistor Inventors," Bell Laboratories Record November, 1956

Photographs of Bardeen accepting Nobel Prizes, 1956, 1972, 1986

Reprints of articles by Shockley, Holonyak, Schrieffer, and V. L. Ginzburg, 1961, 1970, 1973, 1982

New Year's note from Stockholm, ca. 1972

"Three Men Who Changed Our World - 25 years later," Bell Laboratories Record December, 1972

Bardeen's Nobel Lecture, "Electron-Phonon Interactions and Superconductivity," December 11, 1972

List of Publications, J. Bardeen, 1974

Indian Institute of Technology Special Convocation Photo Album, ca. 1977

Alfred Nobel and the Nobel Prizes, Washington Award Banquet program, 1983-84 Nobel Foundation Directory, American Academy of Achievement Salute to Excellence, 1978, 1983-84, 1989

Report of the White House Science Council: Federal Laboratory Review Panel May, 1983

Popular press articles relating to superconductivity, 1986-88

"Partial Listing of Certain of John Bardeen's Scientific Papers in his Physics Building office" by Jerome Rowley, (83 pages), 1988

#### Box 4:

#### BIOGRAPHICAL

"New Horizons in Physics," A Symposium in Celebration of John Bardeen's Eightieth Birthday (2 folders), 1988

Science and Technology Center for High Temperature Superconductivity Site Visit Briefing, July 18-19, 1988

Bardeen's nomination for the Charles Stark Draper Prize, 1989

The Office Library of Professor John Bardeen, Master List of Books, ca. 1991

John Bardeen Memorial, program and transcription, 1991

Nick Holonyak, Jr. correspondence, Physics Today John Bardeen Special Issue, 1991-92

Nick Holonyak, Jr., "John Bardeen, 1908-1991," NAE Memorial Tributes, vol. 6, 1993

#### PUBLICATIONS

Complete list of John Bardeen's publications, 1930-91  
#1, 3-5, 1930-1936

Box 5:

PUBLICATIONS

#6-47, 49-52, 54-61, 1930-1956

Box 6:

PUBLICATIONS

#62-69, 71-75, 77-80, 82-104, 1956-1965

Box 7:

PUBLICATIONS

#105-127, 129-139, 1965-1980

Box 8:

PUBLICATIONS

#140-173, 1980-1991

Low Temperature Physics Part 1 of 2, 1962

Low Temperature Physics Part 2 of 2, 1962

Electronics and Medicine, 1983

Notes on Inorganic Quasi-one-dimensional Metals Linear-chain Conductors

Comments on DOE Multipurpose Laboratories for Federal Lab Panel

Discussion Group on "Interaction of Industry and University Research"

Lecture Presented at Pahlavi University, Iran, 1975 "Development of Semiconductor Electronics"

Box 9:

DISSERTATIONS (produced by Bardeen students)

1952, Paul J. Lurgans

1954, Nick Holonyak, Jr.

1955, Thomas Nolan Morgan

1957, Newton Bernardes

1957, Daniel Charles Mattis

1957, John Robert Schrieffer

1957, R. C. Sirrine  
1958, Michael Francis Millea  
1958, Milton William Valenta

Box 10:

DISSERTATIONS

1958, Ling Yun Wei  
1959, Stephen Reynolds Arnold  
1959, William Manos Portnoy  
1960, Richard Elmo Coover  
1960, Piotr B. Miller  
1960, R. A. Missman  
1960, Kendal True Rogers (2 folders)

Box 11:

DISSERTATIONS

1960-61, Toshihito Truneto (contains only John Bardeen's notes)  
1961, Kenneth Rose  
1961, Jerome Luther Hartke  
1962, Daniel Warren Hone  
1962, Peter Vance Gray  
1963, John Warren Wilkins  
1963, W. L. McMillan  
1964, Toshiyuki Yamada  
1964, Wayne Earl Tefft

Box 12:

DISSERTATIONS

1965, John Richard Clem  
1966, Sang Boo Nam  
1968, Wesley N. Mathews, Jr.  
1968, Reiner Kümmel  
1972-1973, 1986, Preprints by K. N. Bennemann, Wesley N. Mathews, Jr. et al./doctoral  
dissertation of Joseph N. Ross, Jr. (1986) (2 folders)  
1972-1973, Socrates Theodorus Pantelides (1973)

Box 13:

## DISSERTATIONS

1973, David Lee Miller (2 folders)  
1974, David William Allender  
1974, James William Bray  
1985-1986, Samuel Cheng-Sheng Pan (1986) (2 folders)  
1985, John Harris Miller, Jr.

### Box 14:

CORRESPONDENCE (Incoming and outgoing correspondence is arranged chronologically. Folders containing only outgoing correspondence are so indicated.)

Early Correspondence, 1945, 1947-1950  
1950-1951  
1952-1954  
1954 (outgoing only)  
January-May, 1955 (outgoing only)  
January-May, 1955  
June-December, 1955  
January-April, 1956  
May-December, 1956  
1956 (outgoing only)

### Box 15:

## CORRESPONDENCE

January-May, 1957  
June-December, 1957  
January-June, 1957  
July-December, 1957  
January-May, 1958  
June-December, 1958  
January-June, 1958  
July-December, 1958 (outgoing only)

### Box 16:

## CORRESPONDENCE

1959 (2 folders)  
January-May, 1959  
June-December, 1959  
1960 (3 folders)

1960 (outgoing only)  
1961 (2 folders)

Box 17:

CORRESPONDENCE

1961 (outgoing only)  
1961-1962  
1962 (3 folders)  
1963

Box 18:

CORRESPONDENCE

January-June, 1963  
July-December, 1963  
Personal correspondence, 1963-1964  
1963-1964  
January-June, 1964  
July-December, 1964

Box 19:

CORRESPONDENCE

1964 (2 folders)  
1965 (outgoing only)  
January-June, 1965  
July-December, 1965  
Europe correspondence, 1965  
1966 (outgoing only)

Box 20:

CORRESPONDENCE

January-June, 1966  
July-December, 1966  
1967 (outgoing only)  
January-June, 1967  
July-December, 1967

Box 21:

CORRESPONDENCE

1968 (2 folders)  
1968 (outgoing only)  
Personal correspondence, 1968, 1986  
1969  
1969 (outgoing only)

Box 22:

CORRESPONDENCE

La Jolla correspondence, 1969-1970  
1970 (4 folders)

Box 23:

CORRESPONDENCE

1972  
January-August, 1972  
September-December, 1972  
January-June, 1973 (2 folders)  
August-December, 1973 (2 folders)

Box 24:

CORRESPONDENCE

1974 (2 folders)  
January-December, 1974  
January, 1975 - July, 1977  
1976 (2 folders)

Box 25:

CORRESPONDENCE

1977  
August, 1977 - April, 1980 (2 folders) (outgoing only)  
1978 (3 folders)  
Charge density wave correspondence, 1978-1980  
1979

Box 26:

CORRESPONDENCE

1980 (2 folders)  
June - December, 1982 (3 folders)  
1981  
1981-1982  
1982  
Japan correspondence, 1982  
1982-1984

Box 27:

CORRESPONDENCE

1983  
1983, 1986, 1989-1990 (2 folders)  
1984  
1984-1985  
1985  
1986 (2 folders)

Box 28:

CORRESPONDENCE

1986-89  
Robert E. Thorne, 1986-1990  
1986, 1989-1991 (2 folders)  
1987  
1987-1988  
1988

Box 29:

CORRESPONDENCE

Birthday letters, 1988  
1988, 1990-1991 (contains photographs)  
1988-1990  
1989  
1989-1990

Karl Seeger, 1989-90

William A. Bardeen correspondence regarding John Bardeen's death, 1991

SUBJECT FILE (Documents on research, projects, lectures, and speaking engagements, arranged by date of earliest document, and containing notes, calculations, preprints, reprints, and photographs.)

<u>First Date</u> YYMMDD	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
0	01-07	Superconductivity, tunneling, charge density wave transport, soliton transparencies
0	01-42	Theory/Tunneling, N.A.T.O. AGARD parts, ca. 1961
0	04-29	Materials Research Lab progress reports
0	04-45	Diagrams and charts for talk
0	04-47	Critical fields and currents
0	08-01	Research problems, phono-scattering
0	09-07	Understanding Superconductivity, notes and rough draft of article
0	09-11	Talk on recent developments

Box 30:

0	09-34	Excitonic superconducting, talk at Meeting Electronics Review
0	09-35	Solid State Physics Chicago Area Colloquium Talk, non-homogenous current flow in superconductors and list of slides
0	12-06	Surface states paper, ca. 1946
0	12-18	Theory of 1/f noise
0	12-20	Self-trapping of electrons
0	12-24	Cu <sub>2</sub> O, impedance, data
0	12-25	Calculation of tunneling
0	12-27	Field effect across CU <sub>2</sub> O rectifier
0	12-30	Surface conductivity
0	12-33	Neutron multiplication, ca. 1940
0	12-39	Formal theory of conductivity, ca. 1942
0	12-41	A.C. impedance rectifiers
0	12-53	I-V characteristics Van Roosbroeck units
0	12-61	H. Fröhlich's manuscript, "Theory of the Superconducting State"
0	12-65	W. G. Pfann's units
0	12-68	Mean free path
0	12-82	Herring, thermo polarizable media
0	13-39	Vortex lines talk, ca. 1969
0	13-55	Colloid and interface science-M. L. Hair, John R. Harbour, Vlad J. Norotny, Michael A. Hopper
0	14-22	Exact symmetry and exact solution of kondo problem, ca. 1970
0	15-17	Calculations notebook



## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
0	16-08	Lectures and notes on "Theory of a Fermi Liquid" by D. Hone
<u>Box 31:</u>		
0	16-10	Case 3-9 patent, ca. 1948 [Cross Reference Sheet: 16-10 Case 3-9 Patent, ca. 1948 See box 168]
0	17-21	Notes and calculations, Japan
0	18-03	Partial listing of certain of John Bardeen's scientific papers by Jerome Rowley
0	19-04	IBM Executary 224 Dictating Unit
0	19-08	Copy of Betamax videocassette of aerial view from a helicopter of Fermi National Accelerator Laboratory sent to Etori Yamane from John Bardeen
0	19-09	John Bardeen photographs (10 identical 8" X 10" glossies)
<u>Box 32:</u>		
0	20-01	Experiments on temperature changes and superfluids with explanatory narrative (VHS videotape, 15 min.), and slides
0	20-02	Slides
0	21-01	Notes and calculations
<u>Box 33:</u>		
0	23-07	Vortex structure report by L. Tewordt
0	23-20	"Depinning of Charge-Density Waves by Quantum Tunneling" draft by Bardeen
0	24-02	Benjamin Abeles, biographical sketch, list of publications, ca. 1971
0	24-03	W.H. Brattain
0	24-10	J.G. Dash
0	24-12	William L. Clinton
0	24-14	Peter J. Feibelman
0	24-33	Preprints, H. G. Drickamer (folder 1)
0	24-34	Preprints, H. G. Drickamer (folder 2)
<u>Box 34:</u>		
0	24-35	H. G. Drickamer, "X-Ray Diffraction Studies of the Lattice Parameters of Solids Under Very High Pressure" and "The

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
		Effect of High Pressure On the Electronic Structure of Solids" (2 folders)
0	25-05	Bardeen's handbook article - theory of superconductivity
0	26-07	Original work on charge density waves tunneling paper
0	26-18	Research notes, ca. 1976
0	A-02-02	Bardeen drafts of papers and chapters
<u>Box 35:</u>		
0	A-02-07	University Microfilms Inc. microfilm catalogue
0	A-02-08	"Materials Research Laboratory Program" and "Additional Projects in Materials Science"
0	B-07-02	Illinois Science Advisory Council members
0	E-27	Information for low temperature commission, ca. 1968
0	I-03	Charge density wave transparencies
0	I-04	17th International Low Temperature Physics Conference, Karlsruhe talk transparencies
0	I-08	Lecture - "Superconductivity: Past and Future"
0	I-19	Chapter VI - Selected Topics from the History of Semiconductor Physics and its Applications-Ernst Braun
0	I-26	Basis for semiconductor model – transparencies
0	I-27	Superconductivity transparencies
0	J-02	"Super-conductivity" handwritten manuscript on problem of magnetic superconductors
0	J-28	Electrolytic Analogues of the Transistor - talk at the symposium of the Institute of Fundamental Chemistry
0	J-29	Charge density wave notes, ca. 1985
0	J-31	Bardeen draft, "Universal Threshold Polarization for Depinning of Charge Density Waves: Application to Blue Bronze"
0	J-38	Charge density wave graphs
0	J-47	Institute of Electrical and Electronics Engineers award talk
0	J-54	Charge density wave transparencies
100621	04-50	Electrolytic transistor invention patent application, 1910, 1919-1920, 1924-1925, 1932-1935, 1953-1954, 1956-1960
291008	26-15	Haloid Xerox Company correspondence, xerographic patents, 1929, 1955, 1958, 1960, 1962, 1965-1967, 1979-80
291223	12-37	Cu <sub>2</sub> O rectifier manuscript, 1929, 1934-1935, 1947

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
<u>Box 36:</u>		
30	19-06	The collected works of John Bardeen from 1930 to 1968, microfiche (15 copies), 1930-1968
300128	16-17	Lilienfeld patents, 1930, 1932-1933, 1940-1941, 1948-1949, 1952, 1966, 1988
340426	18-12	Correspondence, drafts, and reprints on superconductivity, low temperature, and solid state physics, 1934, 1957, 1973-1978, 1989
3508	12-04	Notes on semiconductors, summer session, 1935, 1949, 1951-1953
3604	07-01	Abrikosov - Aubrey reprints, 1936, 1938, 1951, 1954, 1959-60, 1962-1963
3612	12-54	Bell Labs manuscripts and graphs, 1936, 1946-1947, 1949
370525	26-17	Hydrofoil invention, 1937, 1941-1942, 1952, 1956, 1977
381230	12-31	Diffusion equation for D.C. bias, 1938, 1946
390417	11-03	Notes on superconductivity, 1939, 1941, 1945
<u>Box 37:</u>		
3910	12-69	Analysis Purdue Ge data, 1939, 1946
400217	E-15	Calculations and a letter from the Department of Terrestrial Magnetism at the Carnegie Institution, 1940
400902	12-36	Manuscript $\text{Cu}_2\text{O}$ impedance theory, 1940, 1943, 1947
401015	11-13	Drafts of superconductivity paper, outlines of 1952 Bell Labs talk, 1940, 1952, 1957
41	05-09	John Bardeen, "Electroprovodnost' Metallov," <u>Uspekhi Fizicheskikh Nauk</u> , T. xxv, vyp. I, 1941 ("The Electric Conductivity of Metals," <u>Progress of Physics</u> , vol. xxv, part I), 1941
4103	11-20	Bell Labs reprint for W. H. Brattain, table and charts, 1941
4504	12-44	Absorption infrared in Si (Briggs data), 1945, 1949-1951, 1953-1955
451119	12-52	Theory of conduction in Ge and Se, 1945, 1949
460227	12-42	Photoconductivity in infra-red, 1946
4604	12-14	Search for surface states, 1946-47
460419	12-38	Oxidation of CU, 1946
<u>Box 38:</u>		
460627	12-21	Hall effect, thermo power, 1946
460705	12-73	General Si and Ge, 1946-1947, 1950

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
460813	12-72	Ge-Sb units, 1946-1947
460820	12-23	American Physical Society Talk, Debyl conference, 1946-1947
461103	12-35	Talk on Rectifiers, 1946
461119	12-71	Conductivity date of Ge and Si, 1946
4612	J-50	Reprints, technical reports, and status reports on germanium, copper oxidation, semi-conductors, and transistor electronics, 1946, 1948, 1953, 1955-1956
47	12-47	Resistance $Fe_2O_3$ , Ti, 1947
470116	12-10	Surface levels, 1947
470425	12-16	Si and Ge property analysis, 1947
470509	11-31	Bell Labs silicon analysis, charts and tables, 1947-1948
470701	12-11	Nuclear quadruple moments, 1947
470919	12-62	Theory of A.C. impedance of Cu <sub>2</sub> O Rectifier, 1947
471223	12-12	Second order quadruple interaction, 1947-1948
<u>Box 39:</u>		
480107	12-17	Triode, 1948 [Cross Reference Sheet: Bardeen-Brattain 1-7 Copy, Bardeen Brattain 3-9 Insertion, and Insert p. 17, 1948 See box 168]
480115	19-01	Reprints, drafts, newsletters, and publications, 1948-1951, 1954-1955, 1957, 1964, 1967, 1976, 1978-1980, 1984-1985, 1990
480226	16-12	Patent applications for cases 3-9, 1-7, and 4-11 (2 folders), 1948-1949 [Cross Reference Sheet: Case 4-11 Copy, Case 1-2 Copy, and Bardeen-Brattain 3-0, 1948-1949] [Cross Reference Sheet: Case 2 Copy, Bardeen-Brattain 3-9, Bardeen-Brattain Notes, and Case 6-13 Copy, 1948-1949]
480314	12-55	Pressure change of resistance of Te and Ge, 1948-1949
4804	12-58	Notes on conference on X-rays, University of Wisconsin, 1948, 1950
480429	12-15	Notes on Purdue program report, 1948
480513	12-70	Calculations of Si conductivity, 1948
480525	12-08	Transistor history (folder 1), 1948-1949, 1955, 1957, 1959, 1968, 1976, 1978
480525	12-09	Transistor history (folder 2), 1948-1949, 1955, 1957, 1959, 1968, 1976, 1978
480528	11-15	"A Semi-Conductor Triode" draft and paper, 1948
480601	I-37	National Academy of Sciences - Walter H. Brattain biography (3 folders), 1948-1950, 1953, 1956, 1959, 1967-1968, 1973, 1983, 1985, 1987-1990

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
<u>Box 40:</u>		
480603	09-15	Transistor History, documents regarding history of the transistor by William B. Shockley and Charles Weiner, correspondence and reprints, John Scott Award, 1948-1949, 1958, 1972-1975
480603	12-07	Ge-Diode theory, 1948-1950
480702	12-63	<u>Physics Today</u> article correspondence and notes, 1948
480802	12-66	Pfann P-N transistors, 1948
<u>Box 41:</u>		
480822	12-64	Transistor talks, 1948
4809	05-11	Reprints on germanium, the early transistor, magnetic interpretation, and superconductivity, 1948-1950, 1954, 1956-1958, 1990
4809	05-16	"The Transistor -- A Crystal Triode," <u>Electronics</u> , September, 1948
4809	18-02	Early days of transistor reprints and speech, 1948, 1952, 1988
481106	12-57	Diode characteristics, 1948
481129	12-50	Talk on energy bands and mobilities, 1948-1950
481223	12-13	Comments on transistor paper, 1948
49	12-48	Ge thermal expansion, 1949
490107	12-67	Transistor calculations and Holmdel-Deal talk, 1949
490215	12-40	Change of contact potential with light, 1949, 1951
490317	12-26	A.C. impedance spot on Ge Moore's Data, 1949
490323	12-22	Calculations on range of $\alpha$ 's in Ge, 1949
490405	12-49	Data of price, 1949
490411	12-28	Oak Ridge National Laboratory, Tennessee, 1949
490420	12-51	"Diffusion in Binary Alloys," 1949
490608	12-32	Mobilities, 1949-1950
490609	12-19	Theory of A-C Impedance, 1949
490628	12-34	Diffusion in alloys, 1949
4907	05-17	Leo J. Peters, "The Direct Approach to Magnetic Interpretation and its Practical Application," <u>Geophysics</u> , vol. 14, no. 3, July, 1949
490802	12-29	Forming and p-type transistors, 1949
491118	12-46	Radial flow at large fields, recombination at surface, 1949
<u>Box 42:</u>		
491209	09-16	Semiconductors Talks, notes of 13 talks on semiconductors and

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
		transistors, 1949, 1956-1957, 1959-1961, 1963, 1966
491222	12-45	Absorption, Ge and Si, 1949-1950
50	18-13	Reprints, drafts, publications, and correspondence regarding history of superconductivity, 1950-1951, 1958, 1962, 1964, 1971, 1973-1975, 1978-1980, 1983
500102	09-05	Superconductivity literature, notes, Fröhlich's theory of superconductivity, reprints and correspondence on superconductivity, 1950-1951
500131	12-59	Charge of resistance in magnetic field, 1950
500429	12-56	National Research Council Imperfections Conference, 1950
500516	12-43	Superconductivity, 1950
500701	25-08	Drafts on electron-phonon interactions and superconductivity for Herbert Fröhlich article, abstracts and reprints on superconductivity, 1950-1951, 1961, 1963, 1968, 1973
<u>Box 43:</u>		
500701	25-09	"Electron-Phonon Interactions and Superconductivity" by John Bardeen for Herbert Fröhlich volume, <u>Cooperative Phenomena</u> , 1950-1951, 1960, 1966, 1971-1973
501001	01-25	Talk, Ottawa, Canada, 1950, 1953-1956
<u>Box 44:</u>		
501001	11-01	Electrons - vibration interactions, Bardeen, Shockley reprint, 1950, 1955
501003	09-17	Patents, three electrode circuit, oscillation generator, xerographic plate patents, 1950, 1952, 1962
501208	11-09	"Isotope Effect in Superconductivity" and "Criterion For Superconductivity" and "Field Variation of Superconducting Penetration Depth," with notes, correspondence, and calculations, 1950-1951
51	04-23	Nobel Foundation, code of statutes, 1952, 1972
51	17-25	Grade books and grade rosters, Physics 381, 435, 463, 481, 489, 490, 491, 498 (folder 1), 1951, 1953-1959, 1961-1972, 1974
51	17-26	Grade books and grade rosters, Physics 381, 435, 463, 481, 489, 490, 491, 498 (folder 2), 1951, 1953-1959, 1961-1972, 1974
510119	11-04	Superconductivity surface (boundary) energy, drafts and calculations, 1951

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
510129	11-05	Talk on superconductivity, "Superconductivity and Lattice-Vibrations," 1951
510201	11-41	Galley proofs, reprints, manuscripts, and correspondence for published articles, 1951, 1955-1957, 1961
510226	12-60	Atomic constants, 1951
<u>Box 45:</u>		
510411	J-08	Haloid Company, 1951, 1954-1955
5110	11-30	International Conference on Theoretical Physics, Kyoto and Tokyo '53, 1951-1954
511217	11-02	Superconductivity, manuscripts and notes, American Physical Society talk at Washington, 1951-1952
52	04-26	IBM American Physical Society international prize for new materials, 1952, 1974
52	11-07	Washington American Physical Society talk '52, notes and calculations, "Calculation Of Surface Energies," draft, reprints, 1952
52	11-14	Draft and reprint of "Surface Properties of Germanium," drafts of "The Motion of Slow Electrons in a Polar Crystal," 1952-1954
52	18-05	Drafts, reprints, and publications on the history of the transistor and superconductivity (2 folders), 1952, 1958, 1961, 1964, 1966-67, 1969, 1972, 1975-76, 1978, 1980-81, 1984, 1986-89
52	18-17	Reprints, drafts, conferences, and talk on superconductivity, 1952, 1961-1962, 1965, 1969, 1971, 1978
<u>Box 46:</u>		
520205	17-17	Plans for semiconductor research, 1952
520205	18-06	Drafts, reprints, and publications (2 folders), 1952, 1966, 1984-1985, 1987
520208	I-06	The early days of the transistor, 1952, 1960, 1990
5203	11-18	Notes for Purdue report, 1952
520326	05-08	Navy Research Office contracts - proposals, 1952-54, 1958, 1961
520403	09-01	IRE-AIEE Solid Device Meeting, Institute of Radio Engineers and American Institute of Electronic Engineering Conference on Semiconductor Devices Research, 1952
520508	09-37	Superconductivity talks, 21 talks on superconductivity, 1952, 1955-1963, ca. 1975

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
520527	12-05	Summer session on semiconductors, 1952-1953, 1968
520602	12-80	Conduction in solids, University of Wisconsin, summer, 1952
<u>Box 47:</u>		
520609	09-32	Transistor summer school, summer school program, lecture notes at MIT, class experiments, Physics of Transistors Talk at Bell Labs, 1952-53
520609	16-09	Bell Labs talks, outline and reprints on low temperature physics and superconductivity, 1952, 1955
520701	26-16	Haloid Xerox Battelle correspondence, research and conferences on xerographic plates (2 folders), 1952-1955, 1958-1959
521021	09-02	Electrical Engineering Department information and graduate colloquium rules for '67, graduate committee, staff seminars, calendar of graduate college, 1952-1953, 1962, 1967
521231	05-03	Army Research Office contracts - progress reports, 1952, 1954-1955, 1957-1959, 1961-1967, 1969, 1973, 1975
5301	09-27	American Physical Society Talk, Detroit, Michigan, Surface Barrier effects, notes and reprints on surface properties, correspondence, 1953-1954
5301	16-04	Semiconductor reprints, notes, draft, lectures, and publication, 1953-1954, 1957, 1975
530122	24-17	Nick Holonyak, Jr. 60th birthday, 1953, 1962, 1972, 1976, 1986, 1988
5302	03-12	National Academy of Sciences condensed matter physics panel, 1953, 1955, 1957-1958, 1962, 1965, 1966, 1981-1982
<u>Box 48:</u>		
530210	11-10	Correspondence relating to Bardeen's article in <u>Handbuch der Physik</u> , 1953-1955
530210	11-11	Superconductivity notes, "Theory of the Meisner Effect in Superconductors," 1951-1955
530224	05-04	Army Research Office contracts - proposals, 1953-1954, 1957-1959, 1962, 1964-1967, 1970-1971, 1973
530622	04-42	Transistor devices lectures given by John Bardeen, R. N. Hall, R. M. Ryder, William B. Shockley at the Graduate Summer School in Semiconductors and Transistor Electronics, 1953
530622	04-43	Semiconducting materials lectures given by E. Conwell, A. Rose, F. Seitz, H. L. Vink, E. K. Weise at the Graduate Summer School



## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
		in Semiconductors and Transistor Electronics, 1953
530627	03-43	Fritz London endowment, 1953, 1972-1974, 1977-1978, 1982
5309	05-02	Navy Research Office technical reports, 1953, 1956
5309	05-10	Navy Research Office technical reports, numbers 2-8, 1953-1956
5309	05-12	S. R. Morrison, "Some Surface Effects on Germanium Technical Report" no. 2, 1953
<u>Box 49:</u>		
530916	09-47	Light Amplification Papers and Correspondence, Institute of Electrical and Electronics Engineers AdCom meeting, articles and reprints, Gordon Teal letter, 1953, 1962-1963, 1986-1987
531208	01-22	Semiconductors Amsterdam meeting, 1953-1954
531217	01-21	Low Temperature Conference, Houston, Texas, 1953
54	23-14	TCNQ fluctuation superconductivity, 1954, 1973
540115	05-07	Navy Research Office contracts - progress reports, 1954-67
540415	01-23	Buckley committee solid state physics, 1954-1957
5405	07-04	Electrolytic analog transistor and patent documents, 1954, 1964, 1974, 1983, 1986, ca, 1987
540615	05-13	Hubert Bulliard, "Photomagnetic Effect in Germanium and Silicon," <u>The Physical Review</u> vol. 94, no. 6, June 15, 1954
540629	11-28	European trips, 1954, 1958, 1962
<u>Box 50:</u>		
541101	14-26	Correspondence and notes of Raydong Sun (2 folders), 1954, 1958
550226	09-51	Wave Functions for Li and Na Correspondence, correspondence, tables and calculations, 1955-1956, 1964
550314	05-06	Air Force Office of Scientific Research contracts - progress reports, 1955, 1957-1964
550329	09-36	General Electric agreement, consulting agreements and correspondence, 1955-1959
550503	12-81	Noise in semiconductors, drafts and correspondence Bardeen, J. M. Richardson, S. Roy Morrison, 1955
550601	J-22	U.S. Army Research Office technical reports, 1955, 1961, 1974
550609	12-83	Summer school at Les Houches, Paris, 1955-1956

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
<u>Box 51:</u>		
550901	04-37	Ge and Si Diffusion, reports, notes, correspondence (M. W. Valenta, M. F. Millea, G. L. Pearson, Ramasastry, W. W. Tyler), 1955-1956, 1958-1959, 1961
551101	11-06	Book review, Cohen tenure, correspondence, calculations, and abstracts, 1955-1956
551107	26-19	Haloid Xerox Company correspondence and notes on meetings, includes photograph of John Bardeen, 1955-1958
5512	09-33	Solid state physics history project, fundraising letters by John Bardeen to industries, minutes and summaries of organizational meetings, correspondence, question list, 1955, 1979-1983
551215	12-75	Book on superfluids, 1955, 1957-1959
551228	01-11	National Science Foundation Low Temperature Physics Program Conference, 1955
56	04-44	Foreign reprints by John Bardeen through 1933, 1956, 1961, 1964, 1972-1974, 1983
<u>Box 52:</u>		
56	04-52	Nobel Prize lectures, National Science Foundation award, and history of superconductivity, 1956-57, 1966, 1972, 1975, 1978
56	05-15	Harry Letaw, Jr., "Thermal Acceptors in Germanium," <u>Journal of the Physics and Chemistry of Solids</u> , vol. 1, 1956
56	15-04	Notes and lectures on low temperature physics and reprints on superconductivity, 1956, 1958-1959, 1962
56	C-02	Notes, drafts, and reprints (2 folders), 1956-57, 1959-1963
5601	G-09	Reprints, Stephen Brunauer, "Einstein in the Navy," 1956, 1979, 1985-1986
560116	13-33	Symposium on technology of diffusion devices by the staff of Bell Telephone Laboratories for licensees of Western Electric Company, 1956
560214	09-52	Refereed articles and comments for <u>Physics Review</u> , correspondence, 1956-1958
560227	Z-01	P. C. Banbury, correspondence and application for a visiting professorship at UIUC, 1956
560306	01-24	Semiconductors Conference, Garmisch, 1956
560306	27-01	Technical panel on semi-conductors, National Academy of Sciences, National Research Council, 1956

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
560412	Z-07	Toll correspondence regarding Maryland loyalty oath requirement for centennial lecturers, 1956
5605	09-44	Surface properties talks, talk at San Francisco, talk on semi-conductors surface physics Gulf Research Lab, notes for Copenhagen lecture, 1956, 1958-1959
560501	A-03	Ph.D. Preliminary Exam for Emery Wisman, 1956, 1961-1962
<u>Box 53:</u>		
560524	11-32	International symposium at Garmisch, John Bardeen's paper "Methods for Determination of Distribution of Surface States in Ge and Si," 1956
560910	19-02	Drafts and reprints by John Bardeen and others, 1956-1957, 1960-1962, 1964, 1976-1977, 1979-1981, 1983-1985, 1989
561102	01-29	Nobel Prize Stockholm trip, 1956-1957
561106	18-19	Correspondence, drafts, and reprints on superconductor, 1956-58, 1961, 1976
561107	16-11	Drafts, galleys, reprints, and correspondence, 1956-1958
561115	15-14	Collected papers and tables on the theory of conductivity, 1956-1958
561211	09-14	Nobel lecture, semiconductor research leading to the point contact transistor correspondence, 1956-1957, 1960
<u>Box 54:</u>		
57	11-12	Drafts of chapters, <u>Theory of Superconductivity</u> , 1957
570101	25-11	Proofs for 1972 Nobel lecture and <u>World Book Encyclopedia</u> , 1964 American Society for Testing Materials lecture, reprints on superconductivity, 1957, 1963-1964, 1969, 1972-1973
570111	05-05	Air Force Office of Scientific Research - proposals, 1957, 1959, 1961, 1963, 1965-1966, 1968, 1970
570212	01-34	Rochester Semiconductors Conference, 1957-1958
570615	01-30	Superconductivity Conference, Brussels-Leiden, 1957-1958
570617	11-35	National Science Foundation committee for atmospheric sciences, theory of superconductivity technical report (John Bardeen, L. Cooper, and J. R. Schrieffer), 1957, 1961
570625	A-01	Quantum Chemistry Group for Research in Atomic State Theory, Uppsala University, Sweden, technical notes numbers 1-4, 1957

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
<u>Box 55:</u>		
5707	17-20	Tetsuo Tsukamoto, new germanium NPN grown junction crystal for high frequency transistor, July, 1957
5707	26-33	Japanese Universities information, drafts and reprints, 1957, 1968, 1973-1977
570719	03-39	Transistor early days address, electrical engineering symposium, Ohio University, 1957, 1979
570719	09-25	Science and government talk, Normal University, Bloomington, Illinois, science and government talk and 2/24/60 talk on President's Science Advisory Council activities and need for better public understanding of science, 1957, 1960-1961
570723	23-03	Superconductivity history, 1957, 1966, 1972
570828	A-02	Office of Naval Research, directories of scientists and physicists in Europe, 1957, 1959-1960
571028	04-18	Nobel nominations, reprints, nominations, biographies (2 folders), 1957, 1960-1962, 1966-1968, 1971, 1974
<u>Box 56:</u>		
571125	09-43	Michelson Award talks, also talk at American Physical Society Meeting (1970), Bell Labs record (Jul/Aug 68), special report "Electronics Magazine" (2/19/68), 1957, 1961, 1968, 1970
571201	04-09	Superconductivity Conference, Stanford, reprints, papers and notes, 1957, 1965-1966, 1968-1969
571201	18-15	Publication, reprints, and draft regarding superconductivity, 1957, 1962, 1973
571211	18-04	Reprints, drafts, and notes on the history of the transistor and superconductivity (2 folders), 1957-1958, 1962, 1973, 1975-1976, 1978, 1980-1982, 1987-1988
571219	16-13	Physics class papers for 436D, 490, and 491, and reprints, 1957, 1962, 1965-1967
571219	16-15	Physics 362, 436D, 490, and 491 class papers, reprints, and drafts, 1957, 1961-1962, 1965-1967
58	09-49	Superconductivity talk, four reprints on superconductivity, notes, talk <u>Advances in the Theory</u> , 1958, 1963, 1968
<u>Box 57:</u>		
58	14-25	Bardeen notebooks (3 folders), 1958-60, 1963-64, 1966, 1968

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
58	18-10	Transistor history, 1958, 1964, 1968
580314	01-35	Proceedings of Midwest Conference on Theoretical Physics, St. Louis, 1958
580402	01-33	Rochester Semiconductors Conference, 1958
580415	A-01-01	Quantum Chemistry Group for Research in Atomic, Molecular, and Solid-State Theory, Uppsala University, Sweden, technical notes, nos. 10, 12-13, 1958

Box 58:

580513	18-18	Correspondence regarding publication, recommendations, European trip, and physics, 1958-
59580607	11-29	Navy Department's "European Scientific Notes" '59, superconductivity conference booklet '59, summary of papers given at exposition in Brussels '58, 1958-1959
580715	04-01	Flux Flow in Low-K Superconductors with Richard D. Sherman, 1958, 1961, 1971, 1974-1975
580715	23-12	Current flow superconducting and normal boundaries, 1958, 1969-1972
580801	A-01-02	Quantum Chemistry Group for Research in Atomic, Molecular, and Solid-State Theory, Uppsala University, Sweden, technical notes, nos. 15, 16, 18, 1958

Box 59:

580801	J-10	Papers of students under my direction, 1958-1959, 1965, 1973
580818	01-32	Rochester Semiconductors Conference, 1958
580825	01-36	International Conference on Electrical Properties of Metals, 1958
580901	A-02-03	Lists of Nobel Prize winners, American Physical Society Division of Solid State Physics membership, ARPA-SSSP meeting attendees, recipients of superconductivity reports, Electron Tunneling in Solids Symposium attendees, 1958-1959, 1961
580915	A-01-03	Quantum Chemistry Group for Research in Atomic, Molecular, and Solid-State Theory, Uppsala University, Sweden, technical notes, nos. 17, 19-21, 23, 1958-1959
580924	09-03	Karlheinz Seeger final reports to Signal Corps on investigations of microwave duplexer switching mechanism, diagrams, 1958
581106	12-74	Book on superconductivity by Bardeen and J. R. Schrieffer, 1958-1959

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
581111	04-04	Physics 490, notes, problems, and lectures, 1958, 1961-1963
<u>Box 60:</u>		
581201	15-03	Calculations notebook, 1958, 1963, 1965
581207	09-40	President's Science Advisory Committee, announcement of decision to put National Science Foundation in charge of coordinating scientific information, advised by President's Science Advisory Committee, travel details, 1958, 1960
581227	09-48	Strengthening American Science, President's Science Advisory Committee pamphlet and two newspaper clippings with short paragraphs on two colleges, 1958
59	09-54	European trips, Hotel Ukraine, Moscow, closing speech, notes, reprint, 1959
59	12-77	Correspondence and notes on manuscript on superfluids, 1959-1960, 1962
59	22-07	"Quantum Fluids" The Physical Society of Japan, "The Theory of Fermi Liquid" by Abrikosov and Khalatinikov, "The Structure of and Properties of Metal - Semi Conductor Interfaces" by Brillson, and "The Impact of Energy on Industrial Growth," by Kümmel, 1959, 1979, 1982
590206	13-32	Texas Instruments, Jack Kilby integrated circuit patent, 1959, 1970
590215	23-06	Gapless superconductor, thin films, 1959, 1962-1964
590301	J-09	Superconductivity and solid state physics talks, 1959, 1964-1966, 1968, 1972
<u>Box 61:</u>		
590420	A-01-04	Quantum Chemistry Group for Research in Atomic, Molecular, and Solid-State Theory, Uppsala University, Sweden, technical notes, nos. 24-26, 28, 1959
590422	14-20	Science Advisory Council correspondence, application, itinerary, reprints, and newspaper clippings, 1959, 1970, 1978, 1980-1983
590521	01-20	Semiconductor Conference, London, 1951
590526	B-11	Graduate fellowships pamphlets, 1959
5906	01-48	Low Temperature Physics Conference, Columbus, Ohio, 1959, 1963-1965
590619	01-28	Europe summer, 1958, 1962

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
590712	A-01-05	Quantum Chemistry Group for Research in Atomic, Molecular, and Solid-State Theory, Uppsala University, Sweden, technical notes, nos. 30, preprint numbers 125, 127-130, 143, 1959, 1964-1965
5909	01-47	Russia trip reports, 1959
5910	15-11	Tunneling calculations, notes, drafts, publications and reprints, 1959, 1961
591113	A-02-04	National Academy of Sciences, <u>Science</u> preprint, organization information, and membership lists, 1959-1962
<u>Box 62:</u>		
591215	18-16	Reprints on superconductivity, Bardeen "Advances in Superconductivity" drafts and reprints, 1959, 1961-63, 1969-1970, 1973
591222	04-30	Physics class problems, 1959-1960, 1963, 1965
60	01-37	Semiconductor Physics Conference, Prague, 1960
60	01-51	Superconductivity Research Conference, IBM, Yorktown Heights, New York, 1960-1961
60	03-54	Yale correspondence, 1960-1962
60	12-02	Proposal for a midwest electronics research laboratory (folder 1 of 2), 1960, 1962-1964
60	12-03	Proposal for a midwest electronics research laboratory (folder 2 of 2), 1960, 1962-1964
<u>Box 63:</u>		
60	13-12	Revision for Condon and Odishaw, <u>Handbook of Physics</u> , second edition, 1960, 1962-1963
6001	09-24	Semiconductor specialists dinner talk, Chicago, correspondence and reprint on semiconductor research, 1960, 1963
600113	11-24	Trips to Prague and Russia, International Conference on Semiconductor Physics, Prague, report, correspondence, programs, and abstracts, 1960
6004	J-52	J. Bardeen and J. R. Schrieffer, Recent Developments in Superconductivity, 1960
600524	27-05	Haloid Xerox Incorporated, 1960-1965
600815	13-13	Notes and drafts for talks on superconductivity, Stockholm and University of Utah, 1960, 1966, 1971-1972
600912	11-39	Reports on federal support of science, 1960-1961

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
<u>Box 64:</u>		
601017	11-36	Funding, recruitment, and management of federally financed research and development projects, 1960-1962
601020	01-45	Semiconductor Talk, ACS, Rochester, land grant college dinner, 1960-1961
601026	22-27	Correspondence with and reprints of E. G. D. Cohen, 1960-1962, 1966-1968, 1970-1971, 1977, 1984, 1989
601028	09-21	Prague and U.S.S.R. trip report, report to National Academy of Sciences on 8/25 - 9/25 visit to solid state laboratories, 1960
601209	01-38	N.A.T.O./AGARD Materials Science Symposium, Advanced Group Materials Science, Paris, 1960-1961
601209	01-39	N.A.T.O./AGARD Materials Science Symposium, Advanced Group Materials Science, Paris, 1960-1961
<u>Box 65:</u>		
601221	01-41	N.A.T.O./AGARD Materials Science Symposium, Paris, 1960-1961
601229	01-44	IBM Superconductivity Conference, 1960-1961
61	09-38	Rochester talk, semiconductors, 1961
61	15-08	Low temperature physics notes, physics 498C lecture notes and He3 draft, 1961-1962
61	B-05-01	Lecture notes-Physics 498C, 1961-1962
6101	27-03	Federal Council on Science and Technology, Interdepartmental Committee for Atmospheric Science and Technology - Xerox Corporation, 1960-1961
610127	27-04	Atmospheric science, 1961-1962
610415	01-40	Gordon Conference, 1961
610417	01-26	Travel vouchers, 1961
610505	01-54	Conferences, 1961-1962
610512	01-49	Midwest Conference on Theoretical Physics, 1961
610515	01-46	N.A.T.O./AGARD Materials Science Symposium, Paris, 1961
610515	27-10	Excitonic superconductivity, 1961-1978
610523	09-22	Center for Advanced Studies dinner talk, 1961
610606	04-48	Physics 435, Physics 490, and diagrams, 1961-1963, 1973
<u>Box 66:</u>		
610615	18-11	International Conference on the Science of Superconductivity,



## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
		Hamilton, New York, 1961-1963, 1974
610623	11-35	President's Science Advisory Committee, 1961-1962
610623	11-37	Review of effectiveness of private contracts for government research and development, 1961
6107	11-08	Notes on Critical Fields and Currents, draft of "Quantization of Flux in a Superconducting Cylinder," 1961
610701	01-27	President's Science Advisory Committee travel, 1961
610706	11-19	Notes and calculations for papers, "Calculation of Critical Current Density," "Calculation of Free Energy as a Function of Gap for General T," "Calculation of Current Density, small z, y," "Tunneling from a Many-Particle Point of View," 1961-1962
6110	18-26	Reprints and conference information on superconductivity and low temperature physics, <u>Industrial Research</u> , "Scientist of the Year" article, 1961, 1964-1965, 1968, 1970-1972, 1974-1976

Box 67:

6111	07-39	Field effect transistor, three reprints, 1961-1962, 1986
611204	15-09	Physics problems notebooks, Physics 489 and 490, 1961-1962, 1964
611206	12-76	Bardeen paper on critical fields and currents in superconductors, 1961-1962
62	23-05	Notes on Mathias seminar and superconductivity drafts and reprints, 1962, 1966-1970
62	23-15	Superconductivity materials notes, drafts, and reprints, 1962, 1970-1972
6201	07-07	Superconductive tunneling, 1962
6201	22-13	Draft for "The Early Days of the Transistor," reprints of "Review of the Present Status of the Theory of Superconductivity," other articles by Seeger, Ginley, Baker, Richards, Shen, Harris, Lloyd, and Clarke, 1962, 1979-1980
620109	11-34	Federal Council for Science and Technology, 1962
620115	A-02-01	Hughes Aircraft Company, information retrieval program, progress report, 1962
620213	01-43	Superconductivity Conference planning, Hamilton, New York, 1962-1963

Box 68:

620313	11-23	President's Science Advisory Committee Atmospheric Sciences
--------	-------	---

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
		Group, 1962
620328	13-15	<u>The Quantum Theory of Atoms, Molecules, and the Solid State</u> - drafts and correspondence, 1962, 1965-1966
620329	01-31	Eta Kappa Nu Talk, 1962
620329	09-26	Eta Kappa Nu Talk, need for quality people in the civil service, 1962
620330	11-40	Report of the Advisory Panel on Nuclear Structure Physics (formerly Low Energy Physics), 1962-1963
620405	01-53	"Clear Surfaces" Conference, New York, 1962
620420	11-38	"Strengthening the Behavioral Sciences," pamphlet, 1962
6205	09-30	Microelectronics talk, ITT, engineering education and changing technology notes with correspondence and article by Gordon Brown, 1962-1963
6206	01-58	French theoretical physics, superconductivity, Corsica, 1962
620601	01-52	Midwest Conference on Theoretical Physics Proceedings, 1962
620701	15-07	Tunneling drafts, reprints, and notes, 1962
620706	01-55	Low Temperature, London, 1962
620730	G-05	Army Research Office correspondence DA-HC04-69-C0007 C0005, 1962, 1964-1975
620815	13-35	SN boundaries, 1962, 1972
620815	J-24	Superconductivity talks, China and Leiden, 1962, 1975, 1979
620928	15-05	Physics 491 notes, 1962
<u>Box 69:</u>		
6210	14-05	Reprint, correspondence, and drafts on motion of flux lines, 1962, 1965-1966
6210	22-20	Documents relating to Charles F. Gallo, 1962-1963, 1967, 1973-1974, 1980, 1982, 1984, 1987
621022	27-02	Atmospheric Science Panel, questions concerning meterological satellites, 1962
6212	27-25	Ga (As1-X PX) p-n junction laser diode (color photograph), 1962 [oversize box 30]
621228	Z-12	John Bardeen chair of the International Conference on the Science of Superconductivity, August 26-28, 1963, Colgate University, Hamilton, New York, 1962-1963
63	01-59	Russian documents, 1963
63	B-04-02	American Physical Society, Committee on the Character of APS Meetings, report, American Physical Society Council, preliminary agenda and minutes, Washington, D. C. meeting, 1963-1967

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
6301	03-53	Nobel correspondence, draft, 1972 Nobel acceptance speech, 1963, 1972-1973
6301	22-34	Drafts and reprints on charge density waves and superconductivity, encyclopedia article correspondence, Five Continent Peace Initiative, 1963, 1981-1982, 1984-1986
630131	18-27	Xerox Corporation talks and correspondence, 1963-1965
630215	14-12	Current oscillation in silicon reprints and drafts, 1963-1967
6304	01-50	Solid State Theory Conference, Moscow, 1963
630404	09-06	Talk - Moscow, notes reprints, pamphlet in Russian, translated Russian interview of John Bardeen, 1963-1964
630418	09-28	Industrial Research Conference talk, Purdue, Basic Research talk and Industry-University Research Forum talk 4/18/63, 1963, 1965-1966
<u>Box 70:</u>		
630418	09-39	Industry - University Research Forum talk, talk on industrial visitors program (and Sloan Foundation Grant Notice) at Illinois (4/25/63), 1963
630515	01-57	Xerox fall planning conference, London, 1963
630518	18-01	John Bardeen photographs, 1963, 1985 [oversize box OS-30]
630523	16-14	Notebooks concerning physics classes, 1963, 1965, 1967
630711	09-12	Physics of Solid Surfaces Conference talk, Providence, notes, reprints, correspondence regarding various conferences, International Conference on the Physics and Chemistry of Solid Surfaces, 1963-1964
630812	01-56	Transport phenomena in many-particle systems, Banff, 1963
630820	E-19	International Union of Pure and Applied Physics, location of 13th International Conference on Low Temperature Physics, 1963, 1968-1972
631024	13-01	American Society for Testing Material talk, 1963-1964
631202	18-25	Drafts, reprints, notes, papers, University of Illinois at Chicago faculty search committee, travel and conference itinerary, prize nominations, 1963, 1971, 1974-1977, 1988
<u>Box 71:</u>		
631225	12-78	Bardeen and Michael Stephen, abstract on calculation of free energy of superconducting, 1963-1964

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
64	04-49	Diagrams and charts for talk (contains photograph), 1964, 1968, 1972
64	15-10	Calculations and lecture notes for Physics 131B and 463, superconductor and superfluids reprint, 1964, 1966-1967
64	27-24	Club and organization membership cards, international postage stickers, Johnson/Humphrey pin, 1964, 1977, 1988, 1990
640121	B-04-04	American Physical Society minutes (folder 1 of 2), 1964-1966
640121	B-04-05	American Physical Society minutes (folder 2 of 2), 1964-1966
640124	09-08	American Society for Testing and Materials talk, Philadelphia, notes and correspondence, 1964
640128	17-32	Bardeen photographs and University of Illinois Photo Services work orders, 1964, ca. 1975, 1978, 1981, 1985, 1989-1990
640212	09-19	Talk - Recent Developments: Phenomenological Theories, 1964
640326	12-79	Ultrasonic attenuation, V. M. Bobetic, 1964
640408	E-14	International Union of Pure and Applied Physics correspondence, general assembly, 1964, 1966, 1968-1971

Box 72:

6405	14-01	Patent information, 1964-1966
640501	13-28	President's commission on the patent system (contains photographs), 1964-1967
640505	D-13	American Physical society executive committee meeting, New York, 1964-1965, 1967
640508	E-10	International Union of Pure and Applied Physics, commission on very low temperatures, 1964-1967, 1971
640621	01-61	Solid Surfaces Conference, Brown University, 1964
640623	13-31	Texas Instruments, Jack Kilby integrated circuit patent, 1964, 1969-1970
640627	25-01	Autograph requests (folder 1 of 4), 1964-1968, 1970-1974, 1976-1977, 1979-1981, 1984, 1990-1991

Box 73:

640627	25-01	Autograph requests (folder 2 of 4), 1964-1968, 1970-1974, 1976-1977, 1979-1981, 1984, 1990-1991
640627	25-01	Autograph requests (folder 3 of 4), 1964-1968, 1970-1974, 1976-1977, 1979-1981, 1984, 1990-1991
640627	25-01	Autograph requests (folder 4 of 4), 1964-1968, 1970-1974, 1976-1977, 1979-1981, 1984, 1990-1991

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
640717	18-28	Xerox Corporation and Bell Laboratories correspondence, memos, and talks, Air Force Office of scientific research news reports, meetings, and drafts, 1964-1966
640717	B-07-03	Report on automatic teaching and full employment, 1964
640724	B-07	Governor's Advisory Committee, 1964
640727	14-16	Fluctuation relaxation notes, reprints, correspondence, and drafts, 1964, 1968-1970
640807	B-07-12	Proposal for the establishment of a computation center, 1964
640810	B-07-01	Illinois Science Advisory Council minutes, 1964-1965
640831	01-60	9th Low Temperature Physics Conference, Columbus, Ohio, 1964
6409	19-03	Correspondence, blank UIUC post-doc position application, draft of superconducting magnet research, notes, list of publications, 1964-1965, 1971, 1986
6409	B-07-11	Report by the Pennsylvania Governor's Council of Science and Technology, 1964
640901	G-04	Army Research Office financial statement DA-HC04-69-C0007 C0005, 1964-1972

Box 74:

640902	E-1	Correspondence concerning International Union of Pure and Applied Physics, 1964-1972
640925	09-04	Engineers, Scientists, Physicians for Johnson/Humphrey, pamphlets, letters, and newsletters of this group. (A letter by Satterthwaite says Bardeen helped make an ad for the <u>News Gazette</u> , 1964
641008	C-04	Robert W. Hellwarth correspondence (outgoing only), 1964-1965
6411	B-07-07	Report on the need to increase human environment and economic activity, 1964
641112	16-07	Basic research notes, drafts, reprints, and lectures, 1964-1966, 1974
641112	Z-02	Talk presented at Xerox dedication ceremonies, "The Role of Basic Research," 1964
641130	13-18	Solution of Gor'kov equation, 1964-1965
6412	04-35	Collective excitations on electrodynamics of superconductors paper, A. I. Larkin and notes, 1964-1965
641204	14-06	Vortex motion, 1964-1965
641221	24-27	Sang Boo Nam, 1964, 1967, 1969-1972, 1974
650119	B-07-09	Article by Dr. John C. Frye on activities of state geological survey, 1965

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
650228	11-16	"Hall Effect and Vortex Motion," paper as part of Physics 463 course, 1965, 1971, 1973-1975
6503	B-07-04	Report on development of forest and associated land resources of Illinois, 1965
650320	D-12	American Physical Society council meeting, New York (folder 1 of 3), 1965, 1967
650320	D-12	American Physical Society council meeting, New York (folder 2 of 3), 1965, 1967
<u>Box 75:</u>		
650320	D-12	American Physical Society council meeting, New York (folder 3 of 3), 1965, 1967
650326	B-07-10	Chicago Engineering and Science Center, Incorporated, goals and purposes, 1965
650329	15-12	Sussex summer meeting on quantum fluids correspondence, notes, and drafts, 1965
650413	C-03	Philippe Choquard correspondence (outgoing only), 1965
650426	B-04-08	American Physical Society, Committee on the Character of APS Meetings, minutes and correspondence, Washington, D.C. (folder 1), 1965-1966
650426	B-04-09	American Physical Society, Committee on the Character of APS Meetings, report, Washington, D.C. (folder 2), 1965-1966
650501	09-09	Talk - Xerox, Basic Research in the Industrial Labs, 1965
650518	09-46	Superconductivity Talk, Pittsburgh, Bardeen photographs, outline for talk, 1965
650520	D-07	American Physical Society Executive Committee, New York, 1965-1969
650602	15-13	10th International Conference on Low Temperature Physics (2 folders), 1965-1967
650618	26-31	Notes, correspondence, travel itinerary, reprints, and drafts, 1965, 1977, 1979-1981
650622	16-16	Reprint requests, 1965-1966
<u>Box 76:</u>		
650629	13-14	<u>The Quantum Theory of Atoms, Molecules, and the Solid State</u> - correspondence, 1965-1966
650725	04-05	Bardeen, Baym, Pines Manuscript on He3 atoms, papers, calculations, correspondence with Baym and Pines, 1965-1966

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
6508	15-02	He3-He4 solutions reprints and drafts, 1965-1967
650816	14-07	Minneapolis talk, 1965-1968
650816	14-19	Mixtures talk and low temperature physics notes, drafts, and reprints, 1965-1966
650816	24-09	Robert M. Cleary, 1965, 1968, 1970-1971
6509	14-02	Recommendations for national document handling systems, 1965
6509	15-01	Image display regarding PLATO computer system, 1965-1966
6509	27-12	Talk on patents for AAAS meeting, December '66, 1965-1967

Box 77:

650925	14-04	Correspondence, drafts, and notes on flux flow, 1965-1966
651023	13-11	Superconductors and superfluids - proofs and correspondence, 1965-1967
651115	03-40	Iran superconductivity and semiconductor lectures, 1965, 1973-1976
651115	13-10	Superconductors and superfluids proofs, 1965-1966
651115	13-34	Xerox advisory group, 1965, 1974
651115	15-16	Mattic D.C. exact solution of a many-fermion system and its association boson field notes, drafts, and correspondence, 1965-1968
651115	25-10	Reprints on superconductivity, notes on fluctuations (2 folders), 1965, 1970-1973
651115	26-27	Reprints and notes on superconductivity, 1965, 1969, 1972, 1974-1976

Box 78:

651117	04-32	W. L. Everitt and Wheeler Loomis nominations for honorary degree, 1965, 1968-1969
651230	B-04-06	American Physical Society, Committee on the Character of APS Meetings, Gaseous Electronics Conference, Atlanta, 1965-1966
651231	B-04-03	American Physical Society auditor's report, 1965-1967
66	13-16	Drafts, history of superconductivity research, Center for Theoretical Studies, University of Miami, Coral Gables, Florida, 1966, 1969
66	14-24	Department letters, newsletters, and publications (2 folders), 1966-1967, 1969-1970, 1976
66	23-10	Talk in Japan, 1966, 1968-1970

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
660111	27-13	Talks - Japan, Purdue, India, Hungary, and Korea, 1966, 1972, 1976-1977
660124	14-14	Vladimir Galaixo correspondence regarding his theory, 1966
660125	B-04-01	American Physical Society Council, minutes, meeting in New York, 1966
660131	B-04-07	American Physical Society, Committee on the Character of APS Meetings, Physics of Free Atoms Conference, Berkeley, 1966
6602	E-21	American Institute of Physics directories of officers and members of governing bodies, 1966-1970

Box 79:

660218	D-02-02	American Physical Society, Committee on the Character of APS Meetings, New York meeting, 1966-1968
660228	B-07-06	Progress report - land and resources, 1966
6603	D-06	American Physical Society meeting, 1966-1968
660316	D-08	American Physical Society Los Alamos, New Mexico meeting, 1966-1968
660324	14-11	Paper for 10th International Conference on Low Temperature Physics, 1966-1967
660412	09-23	Conference on Superconductivity in Science and Technology Talk, Chicago, 1966
660418	D-03	American Physical Society Washington, D.C. meeting (3 folders), 1966-1968
660608	11-27	Second International Conference On Tunneling Phenomena In Solids, 1966-1967
660809	13-17	National Inventors Council talk, 1966-1967
660810	B-07-08	Report on minerals and energy, 1966
660830	B-07-05	Report on land and natural resources, 1966
660831	09-42	Vortex lines talk, notes, calculations, paper "Macroscopic Quantum Effects and Vortex Motion in Superconductors," 1966, 1969

Box 80:

660903	E-08	International Union of Pure and Applied Physics, reports on the commission on very low temperatures, 1966-1968
660916	13-30	Patent commission material, 1966-1968
661021	D-01-11	American Physical Society, Committee on the Character of APS Meetings, Gaseous Electronics Conference, San Francisco, 1966



## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
661027	09-29	Electron devices meeting talk, University-Industry interaction in solid state research, 1966
661028	D-01-08	American Physical Society, Committee on the Character of APS Meetings, Conference on II-VI Compounds, Brown University, Providence, Rhode Island, 1966
6611	E-03	International Union of Pure and Applied Physics membership, 1966-1967, 1969, 1972
661121	B-05	Bardeen - Physics 491, 1966-1967
661201	B-04	American Physical Society meeting in Nashville, 1966
661214	D-01-12	American Physical Society, Committee on the Character of APS Meetings, Hyperfine Interactions Detected by Nuclear Radiation, 1966-1967
661227	D-01-09	American Physical Society, Committee on the Character of APS Meetings, Computers in Chemistry, California, 1966-1967
67	04-16	O. B. Buckley Solid State Physics Prize, nomination of C. P. Slichter, 1967, 1972
6701	04-34	Michelson-Morely Award, Cleveland, Ohio, Basic Research in Industrial Laboratory booklet in <u>Industrial Research</u> , 1967-1968
670105	D-14	American Physical Society Washington, D.C. meeting, 1967
670109	D-15	American Physical Society executive committee meeting, Chicago, 1967
670112	D-17	American Physical Society meeting Stanford, California, 1967
670116	D-02-04	American Physical Society, Committee on the Character of APS Meetings, correspondence with Karl Darrow, W. W. Havens, Jr., John Archibald Wheeler, 1967
670117	D-02-03	American Physical Society, Committee on the Character of APS Meetings, Washington, D.C. meeting (Folder 1 of 2), 1967
<u>Box 81:</u>		
670117	D-02-03	American Physical Society, Committee on the Character of APS Meetings, Washington, D.C. meeting (Folder 2 of 2), 1967
670130	D-16	American Physical Society meeting, New York, 1967
6702	E-16	International meetings, 1967-1968
670202	11-26	Glasgow trip, correspondence regarding honorary degree, 1966-1967
670210	24-31	Preprints and reprints, M. E. Hawley, Y. Suzumura, S. Abe, A. Schmid, J. K. Jain, K. Kawabata, J. P. Carbotte, L. Kramer, A. E. Jacob, et al., 1966-1968, 1970-1972, 1985-1986

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
670220	15-06	Physics 463 problems course, Spring, 1967
670311	14-13	Fluxline motion correspondence, notes, drafts, and reprints, 1966-1967
670321	04-07	Superconductivity Conference, Stanford, program and correspondence, 1967-1969
670321	04-10	Type II Superconductivity, notes, 1967
<u>Box 82:</u>		
670322	D-01-13	American Physical Society, Committee on the Character of APS Meetings, Neutron Cross Sections and Technology, Washington, D.C., 1967
670401	A-01-06	Quantum Chemistry Group for Research in Atomic, Molecular, and Solid-State Theory, Uppsala University, Sweden, preprint numbers 190-191, and preliminary research reports, nos. 200, 209, 212-213, 1967-1968
6705	15-18	Welch Foundation talk rough draft and summary, 1967-1968
670511	D-01-03	American Physical Society, Committee on the Character of APS Meetings, Vacuum Ultraviolet Radiation Physics-Interaction with Solids Conference, 1967
670519	D-02-01	American Physical Society, Committee on the Character of APS Meetings, Change in Date for New York meeting, 1967
670525	E-17	International Union of Pure and Applied Physics 13th International Conference on Low Temperature Physics, executive committee, 1967-1969, 1971
670615	E-24	International Union of Pure and Applied Physics 13th International Conference on Low Temperature Physics, 1967-1969
670705	D-01-04	American Physical Society, Committee on the Character of APS Meetings, Conference on Intrinsic Noise in Superconductors, 1967-1968
670706	14-03	Calculations, drafts, and correspondence on vortex core, 1967-1968
670706	D-01-05	American Physical Society, Committee on the Character of APS Meetings, International Conference on the Metal-Nonmetal Transition, San Francisco, 1967-1968
670725	E-13	International Union of Pure and Applied Physics-sponsored conferences, 1967-1970, 1972
670726	E-25	International Union of Pure and Applied Physics 12th International Conference on Low Temperature Physics (folder 1), 1967-1970
670726	E-26	International Union of Pure and Applied Physics 12th International Conference on Low Temperature Physics (folder 2), 1967-1970

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
<u>Box 83:</u>		
670803	04-46	Diagrams, charts, and photographs for talk, 1967
670823	D-11	American Physical Society New York meeting, 1967-1968
6709	25-04	Paraconductivity, 1967, 1969-1972
670905	13-37	Xerox technical advisory panel, 1967-1970
670918	D-01-07	American Physical Society, Committee on the Character of APS Meetings, Gas Phase Molecular Structure Conference, Austin, Texas, 1967
671014	24-20	Reiner Kümmel, 1967, 1969-1974
671101	D-01-10	American Physical Society, Committee on the Character of APS Meetings, Topical Conference on Exploding Wires, Boston, 1967
671106	15-15	Welch Foundation itinerary and correspondence, 1967
671116	D-01-02	American Physical Society, Committee on the Character of APS Meetings, Plasma Instability in Astrophysics, Pacific Grove, California, 1967
671122	D-01-01	American Physical Society, Committee on the Character of APS Meetings, Symposium on Relativistic Astrophysics, Dallas, Texas, 1967
671204	18-14	Publication, reprint, and correspondence regarding superconductivity, 1967, 1975, 1977
671205	D-01-06	American Physical Society, Committee on the Character of APS Meetings, Physical Electronics Conference, Minneapolis, 1967
<u>Box 84:</u>		
671213	14-08	Kümmel normal and superconducting boundary correspondence and drafts, 1967-1969
671222	D-09	American Physical Society Berkeley, California meeting, 1967-1968
68	24-32	Preprints and reprints, A. E. Jacobs, J. A. Cohen, H. G. Drickamer, et al., 1968, 1971
68	E-11	International Council of Scientific Unions, yearbooks and bulletin, 1968-1969, 1971
68	J-48	Comstock Award presentation, 1968
680108	D-05	American Physical Society meeting, Miami Beach, Florida, 1968-1969
680110	14-10	Vortex structure notes, correspondence, drafts, and reprints, 1968-1969

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
-------------------	----------------------	---

Box 85:

680122	01-66	U.S.-Soviet Symposium, Moscow, 1968
6802	E-32	American Institute of Physics journals and publications (folder 1), 1968-1969
6802	E-33	American Institute of Physics journals and publications (folder 2), 1968-1969
680213	14-18	Xerox correspondence, 1968-1969
680215	24-15	Nick Holonyak, Jr., 1968-1969, 1971-1972, 1974, 1985-1986
6803	03-28	Transistor history, 1968, 1971, 1979-1981
680307	D-10	American Physical Society meeting Boston, Massachusetts, 1968
680311	16-23	60th birthday, 1968

Box 86:

680313	A-02-06	Conference on fluctuations in superconductors, 1968
680509	E-23	International Union of Pure and Applied Physics, replies to Low Temperature questionnaire, 1968
6806	25-12	European trip, 1968, 1971-1972
680601	A-01-07	Quantum Chemistry Group for Research in Atomic, Molecular, and Solid-State Theory, Uppsala University, Sweden, preliminary research reports, nos. 214-215, 218-221, 226, 1968
680606	E-06	International Union of Pure and Applied Physics 13th International Conference on Low Temperature Physics (folder 1), 1968-1972
680606	E-07	International Union of Pure and Applied Physics 13th International Conference on Low Temperature Physics (folder 2), 1968-1972
680610	23-04	Vortex lines, 1968-1969
680617	24-25	Jared Logan Johnson, 1968-1970, 1972-1973
6807	25-03	Papers on superfluidity and amorphous semiconductors (2 folders), 1968, 1971, 1973
680719	D-04	American Physical Society meeting, La Jolla, California, 1968-1969

Box 87:

680728	A-01-08	Quantum Chemistry Group, International Summer Institute, Uppsala University, Sweden, list of preliminary research reports, nos. 1-208, 1968
6808	E-28	Low Temperature commission meeting, Kyoto, 1968-1970
680819	13-38	Xerox technical advisory panel, 1968-1969

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
680901	G-06	Bardeen DA-HA04-69-C0007, Army Research Office DA-HC04-74-C0005, 1968-1976
680901	G-07	Progress reports C0005 and Army Research Office DA-HC04-69-C0007, 1968-1975
680906	E-31	Protest letters on holding 1970 American Physical Society Annual Meeting in Chicago in light of the 1968 Chicago riots, 1968-1969
680927	E-30	American Physical Society meeting, Miami Beach, November, 1968
681003	09-55	Solid State Physics and Graduate Education, American Physical Society, Dallas, notes, visit to Argonne (1970), physics club of Chicago, correspondence, 1968, 1970
681017	E-29	American Physical Society meeting, New York, February, 1969
681022	04-33	Langmuir Prize, Charles P. Slichter, 1968
681102	13-29	Comments on shielding by surface states-talk for Near Zero Conference, Stanford, 1968, 1976-1978, 1981-1982
681110	14-15	Talk at Case Western Reserve University, drafts and reprint on superconductivity, 1968-1969

Box 88:

69	04-24	International Union of Pure and Applied Physics Very Low Temperature Committee correspondence, 1969, 1972
69	13-27	Reprint - O. H. LeBlanc, Jr. "Tetraphenylborate Conductance Through Lipid Bilayer Membranes," <u>Biochimica et Biophysica Acta</u> , 1969
69	23-11	Utah Frontiers of Science Series, 1969-1971
69	25-17	Specific heat, 1969, 1971-1972
690108	01-62	U.S.-U.S.S.R. Physics Symposium, New York, 1969-1970
690115	24-13	H. J. Deuling, 1969, 1974-1975
690117	24-19	Vincent Bendix Award for Nick Holonyak, Jr., 1969-1970, 1972-1974
690213	14-09	Vortex lines reprint, correspondence, drafts, notes and calculations, 1969
690325	E-22	American Physical Society executive committee meeting minutes, 1969
690801	23-01	Intermediate state, 1969
690807	E-09	International Union of Pure and Applied Physics, memos, report on the commission on very low temperatures, 1969-1970

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
690930	E-20	International Union of Pure and Applied Physics 13th International Conference on Low Temperature Physics, national organizing committee, 1969-1972
6910	04-12	13th Low Temperature Physics Conference, Boulder, Los Alamos and London Award, 1969, 1971-1972
6910	04-13	International Union of Pure and Applied Physics Ballot, Very Low Temperature Commission, 1969, 1972
6910	22-04	Superconductivity talk at Berkeley, March 2, '83, 1969, 1978, 1983
6910	E-05	International Union of Pure and Applied Physics, commission on very low temperatures meeting report, 1969, 1972

Box 89:

691015	E-02	International Union of Pure and Applied Physics helium conservation, 1969-1971
6911	25-07	Diamagnetism, 1969-1973
6911	25-20	Reprints by Bardeen and others on fluctuations of the superconducting order parameter (2 folders), 1969-1972
691218	04-31	Industrial Research & Development, DOD, National Science Policy, Emilio Daddario statements, correspondence, 1969-70
70	25-16	Exciton mechanism, 1970-1972
70	25-19	Reprints by P. C. Hohenberg, Bardeen, R. D. Park on fluctuations, Josef T. Devreese on polarons (2 folders), 1970-1973

Box 90:

700106	04-36	Astronomy Head Search Committee, Icko Iben, 1970-1972
700202	14-23	UIUC Electrical Engineering department letters, <u>Washington Science Trends</u> newsletters, 1970
700302	01-63	12th International Conference on Low Temperature Physics, Kyoto, 1970
700318	09-50	Superconductivity article for <u>Encyclopedia Americana</u> , draft galley, photos, correspondence, 1970
7005	13-36	Reprints, notes, correspondence on superconductivity, 1970-1972, 1974
7006	07-41	Excitonic mechanisms of superconductivity, excitonic mechanisms paper, 3M talk abstract (1/28/86), correspondence, 1970, 1972-1973, 1986
700608	24-22	B. Lischke reprints on flux penetration in superconducting cylinders, 1970

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
700814	24-28	C. T. Sah, 1970-1972, 1974, 1976, 1985
700904	A-02-05	Conference and symposium pamphlets, 1970, 1972, 1974
700918	13-52	Xerox consulting-technical advisory panel, 1970, 1976, 1978-79
7010	J-14	John Bardeen vita, 1970
701001	G-03	Army Research Office progress report DA-HC04-69-C0007 (2 folders), 1970-1973
701007	E-04	International Union of Pure and Applied Physics correspondence, 1970-72
7011	24-11	Ross A. Deegan, 1970-1972
<u>Box 91:</u>		
701125	26-35	Reports on China trip (folder 1 of 2), 1970, 1975-1976
701125	26-36	Reports on China trip (folder 2 of 2), 1970, 1975-1976
71	13-04	XIV General Assembly - International Union of Pure and Applied Physics talk, Washington, D.C., September 20-25, 1972, 1971-72
71	13-22	Vortex motion, 1971-1972, 1975-1977
71	19-05	UIUC Center for Advanced Study announcement of faculty and activities, 1971-1972
710126	E-18	International Union of Pure and Applied Physics, national committee, 1971-1972
710204	23-09	"Non-Homogenous Superconductors" Chicago area colloquium, 1971
710208	24-07	William L. Clinton, 1971-1972
710312	23-02	Statistical physics seminar, 1971
710429	04-21	International Union of Pure and Applied Physics Meeting agenda, correspondence with Dr. T. Sugawara, minutes, news bulletin, reports, 1971-1972
710507	25-02	Reprint requests (folder 1 of 4), 1971-1976
710507	25-02	Reprint requests (folder 2 of 4), 1971-1976
<u>Box 92:</u>		
710507	25-02	Reprint requests (folder 3 of 4), 1971-1976
710507	25-02	Reprint requests (folder 4 of 4), 1971-1976
710510	23-16	Nobel letters of congratulations, 1971-1973
710512	23-08	Talk at Northwestern University, 1971
710614	J-06	Industrial affiliates program in physical electronics, 1971

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
710702	16-06	European visit, drafts, reprints, notes, chemistry symposium, U.S. patent information, 1971, 1974-1975
710707	22-35	Notes, drafts, and reprints on charge density waves and superconductivity, Aspen Institute for Humanistic Studies workshop, and Gordon Conference (2 folders), 1971, 1974, 1977, 1979, 1983-1985
710816	13-46	Xerox expense accounts, 1971-1975
10915	B-02	National Science Foundation, Army Research Office papers and reprints (folder 1 of 2), 1971-1974

Box 93:

10915	B-02	National Science Foundation, Army Research Office papers and reprints (folder 2 of 2), 1971-1974
710924	04-19	13th International Conference on Low Temperature Physics, Boulder, correspondence on speakers, 1971-1972
711006	24-23	E. F. Hammel, 1971
711029	13-05	China Trip '76, 1971, 1974-1976
711115	13-23	44th Steinmetz Memorial Lecture, Schenectady, New York, 1971, 1973
711215	13-48	Xerox Corporation memos and correspondence, 1971-1973, 1977-1978
72	07-30	Charge density waves article, reprints, and transparencies for 3M talk on January 28, 1986 in Chicago, 1972, 1976, 1980, 1983, 1985-1986
72	24-30	Preprints and reprints, M. B. Maple, G. S. Cohen, D. M. Ginsberg, A. D. Singh Nagi, et al., 1972, 1984, 1986

Box 94:

7201	18-29	Reprints, drafts, and notes (2 folders), 1972-1976
720105	04-11	U.S.-U.S.S.R. Institute of Theoretical Physics Proposal, D. Pines correspondence, 1972, 1974
720208	13-54	Xerox consulting - technical advisory panel, 1972-1978
720209	04-14	National Academy of Sciences meeting, Washington, correspondence, invitations, travel vouchers, 1972
7203	I-16	Landau's contribution, 1972, 1987-1988
720418	04-17	American Institute of Physics, Friends of the Center for History of Physics, 1972



## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
720418	25-14	Correspondence, European trip 1972, Walter Schottky colloquium, Erlanger, Germany, 1972
720502	13-06	American Solid State Physics delegation to the People's Republic of China, 1972-1975
7206	22-06	"Fluctuations dans les Supraconducteurs (variations du paramètre d'ordre dans l'espace et le temps)," 1972
720715	24-18	A. Barry Kunz, 1972
720801	04-20	J. Bardeen, William B. Shockley statements for Bell Laboratories <u>Record</u> article, 1972
720812	I-21	May Bradford Shockley (1879-1977) commemorative booklet, 1972, 1977, 1989

Box 95:

720814	23-22	Notes, drafts, reprints, and correspondence on superconductivity, 1972-1973
720824	E-12	International Union of Pure and Applied Physics, remarks on very low temperature commission and report on very low temperature, 1972
720828	01-64	Institute of Electrical and Electronics Engineers Intercon, NYC, 1972-1973
720921	25-13	XIV General Assembly International Union of Pure and Applied Physics talk, 1972
720922	24-06	J. P. Carbotte, 1972
720927	24-24	Frank E. Jaumot, Jr., 1972
721016	24-16	Award nomination materials, including Holonyak's biography, 1972, 1975-1979
721024	09-45	Nobel prize award for BCS theory, 6 copies of Nobel Prize article from <u>Nature</u> (May 1972), nomination of John Bardeen for Nobel Prize by Slichter, 1972
721112	09-10	Rockford Talk, copy of talk and list of slides, 1972
721113	11-25	Correspondence for travel and visits in Europe-Lindau, 1972-1973
721117	04-22	Joint U.S.-U.S.S.R. Institute for Theoretical Physics, Moscow, 1972-1973
721201	09-31	Electron-Phonon interactions in superconductivity talk, Stockholm, 1972[Cross Reference Sheet: 09-31 Bardeen's Set from Talk-Stockholm, 1972]
721209	04-38	"Supercold Superprize" article, <u>National Observer</u> , 1972
721215	01-65	Penn-Princeton superconductivity lectures, 1972-1973

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
721223	J-44	U.S.-Japan joint seminar - "Technological Applications of Tetrahedral Amorphous Solids," July 19-23, 1982 Palo Alto, California, 1972, 1982
721226	G-02	Army Research Office reports DA-HC04-69-C0007 C0005, 1972-1973
73	13-26	Calculation of Strässler-Toombs diagrams, 1973-1974
73	27-22	University of Illinois publications 1973, 1975, 1982, 1989
<u>Box 96:</u>		
730103	04-27	Cecil Lane symposium, Yale University, 1973
730107	25-15	David Miller correspondence on superconductivity in the PbTe surface, reprints on superconductivity and solid state physics, 1973
730228	04-40	Physics Appointment and Promotions Committee documents, 1973-1974
7303	18-31	Reprints, preprints, drafts, and notes (2 folders), 1973, 1975-1976
730306	25-06	Electron-phonon interactions and superconductivity, 1973
730307	13-42	Publications and memoranda, Xerox Research Laboratories and Xerox Research Centre of Canada, 1973-1975
730328	B-03	Superconducting fluctuations, Bardeen, 1973
730606	07-43	Unity of Concepts in Physics background papers, copies and reprints of articles, 1973-1979
7307	J-40	Macroscopic quantum phenomena from pairing in superconductors, 1973
730731	09-13	"The Invention of the Transistor - An Example of Creative-Failure Methodology," William B. Shockley draft, 1973
<u>Box 97:</u>		
7308	17-18	Leo Esaki nomination, 1973-1974, 1984-1989
7308	24-08	Kai-Yuan Chung, 1973
730827	04-15	National Science Foundation development grant review at University of Maryland, 1973
730830	13-56	Xerox consulting, 1973, 1975, 1977-1980, 1982
731101	07-09	High Tc conductors, transparencies, papers, 1973, 1978, 1984-1986
74	G-01	National Science Foundation proposal GH 33634, 1974-1975
7401	13-40	Paraconductivity, 1974
7401	23-24	Notes, drafts, and reprints on charge density waves, notes from Sapporo, Japan meeting, and Nishina talk, 1974, 1983

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
740101	26-14	Drafts and reprints regarding NbSe <sub>3</sub> (folder 1 of 2), 1974, 1977, 1979-1980
<u>Box 98:</u>		
740101	26-14	Drafts and reprints regarding NbSe <sub>3</sub> (folder 2 of 2), 1974, 1977, 1979-1980
740212	04-25	Nobel laureates dinner talk, NYC, 1974
740227	11-22	Reprints and preprints, <u>Physics Bulletin</u> November '75, 1974-1976
740305	04-06	Technology assessment program, energy assessment, Emilio Daddario, 1974
7404	04-28	14th International Conference on Low Temperature Physics, Helsinki, Finland, 1974
740425	24-04	M. Alterelli's trip, 1974
7405	03-44	Reprints, 1974-1976
740508	03-45	Reprints, 1974-1975
740520	04-39	3rd International Conference on Unity of the Sciences, London, also Roger Larson to Shareholder on Larson safety caps, 1974
740624	18-30	Draft of "The Design and Synthesis of Organic Metals" by A. F. Garito and A. J. Heeges, 1974
7407	24-01	M. Altarelli, report on three conferences, 1974
<u>Box 99:</u>		
7408	27-20	Pamphlets - Bangalore, American Physical Society, Bell Labs, Institute for Solid State Physics, also preprints and reprints, Bardeen, L. P. Vor'kov, O. N. Dorokhov, A. A. Gogolin, V. I. Mel'nikov, 1974-1976, 1982
740802	17-19	Makoto Kikuchi, Sony Corporation, correspondence (contains photograph), 1974-1975, 1990
740802	24-26	R. D. Sherman, The Aerospace Corporation, 1974
741002	13-24	Meeting 3He, 1974-1976
741009	27-17	Grenoble Conference on Low Temperature Physics, "Evolution of Superconductivity," 1974, 1977-1978
741023	04-02	Los Alamos consultancy visit, security clearance forms, 1974-1975
741028	24-05	J. P. Carbotte, Steacie Prize, 1974
741115	04-03	American Academy of Arts and Sciences Meeting, Wingspread, Wisconsin, 1974
741115	13-41	Dr. Uzi Landman Suit against Xerox, Bardeen, et. al, 1974-1975

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
741206	04-41	American Academy of Arts and Sciences, Midwest Center, Racine, Wisconsin, 1974
741217	22-01	Notes for Physics 463, 1974
75	13-20	One-dimensional systems, 1975-1977
<u>Box 100:</u>		
75	17-22	Physics postdoctoral research staff 1945-1975 University of Illinois, 1975
75	17-23	Doctors of Philosophy in Physics 1910-1975, University of Illinois, 1975
75	17-24	Department of Physics newsletter, University of Illinois, 1975, 1979
75	26-26	Japanese companies and draft of "Chapter III: The Superconducting Transition Temperature," 1975-1977, 1980
7501	16-03	Iran lectures correspondence, itinerary, and journal, 1975-1976
750226	13-47	Visiting committee for the Materials Research Laboratory at Brown University, 1975-1976
750325	13-03	CECAM/ZWO meeting, Nijmegen, Netherlands, September 13-14, 1976, Conference on Organic Conductors and Semiconductors, Siófok, Hungary, September 1976, 1975-1976
750421	27-21	Letter from Max Bardeen, memo, notebook, Congressional Record (vol. 128 no. 20), life insurance, and postcards, 1975, 1982, 1989
750529	27-15	Trips - India and Japan, 1975-1977
750912	18-22	General Electric publication on metal complexes, draft on nickel, and National Academy of Engineering membership nomination, 1975-1976
7510	26-28	India and Japan trip, 1975-1977, 1980
<u>Box 101:</u>		
751021	17-28	C. Herring, reports on tour of physics institutes in China, 1975
76	07-33	High Temperature Superconductors, reprints and correspondence about visitors, 1976-1978, 1984-1985
76	11-17	Solutions of Gor'kov equations, talk at San Diego, Russian preprint, 1976
76	Z-08	Reprint of W. W. Fenton's "Fluctuation Conductivity Near A Pearls Lattice Distortion" with notes to Bardeen in the margins, 1976, 1981

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
760120	22-14	Correspondence relating to the second Rochester Conference on Superconductivity, 1976
760220	13-21	Superfluids, Gordon Research Conference, Brewster Academy, Wolfeboro, New Hampshire, 1976-1977
760224	03-41	"Local Gauge Invariance and the Bound State Nature of Hadrons" by W. A. Bardeen and R. B. Pearson, 1976
760226	16-05	John Bardeen visit to Brown University draft of comments, 1976
760325	J-53	Articles on pressure tuning spectroscopy, macroscopic quantum tunneling, high temperature superconductivity, thermoelectrical effects in superconductors, 1976, 1980
760426	27-14	Trips-Hungary and Holland, 1976
7606	03-59	"Electron Spectroscopy" by Kai Siegbahn, 1976
7607	13-44	Gordon K. Teal, Nick Holonyak, 1976, 1978

Box 102:

760817	13-08	Applied Superconductivity Conference, Stanford, 1976
760903	03-34	<u>Industrial Research</u> Scientist of the Year Award lecture, Chicago, 1976
760903	13-02	Sixth joint U.S.-U.S.S.R. symposium on current topics in the theory of condensed matter, Boston, October 18-22, 1976
760922	13-09	Superconductivity: past and future, lecture <u>Industrial Research</u> Magazine, 1976
760930	13-25	Frontiers in condensed matter physics symposium, UIUC, includes group photograph with identifications of participants, 1976 "Frontiers in Condensed Matter Physics" Symposium List of Participants and Group Photo, 2 <sup>nd</sup> copy, October 14-16, 1976
7610	18-09	<u>Industrial Research</u> , October 1976 with "Scientist of the Year" (Bardeen) article, 1976
7610	18-20	Talk at St. Andrews, Scotland, 1979 on the history of superconductivity, 1976, 1978
7610	27-23	"Scientist of the Year," <u>Industrial Research</u> article, 1976
761004	03-25	China trip, 1976, 1979-1980
761004	13-07	Sixth joint U.S.-U.S.S.R. symposium on current topics in the theory of condensed matter, Boston, 1976
761013	16-43	Memorandum on Xerox Company meetings, 1976
761025	26-32	Correspondence, notes, peer review, conference material, 1976-1977
761109	27-18	Fiftieth anniversary of Bose statistics - Japan, and visits to institutes in Delhi, Madras, Bangalore and Bombay, 1976-1977

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
761210	27-11	Correspondence concerning National Academy of Sciences conference, Gordon Research Conference, <u>Dictionary of International Biography</u> , <u>Collier's Encyclopedia</u> , consulting for Xerox, 1976-1977
761223	27-19	Honorary degree from Cambridge, 1976-1977
77	13-19	Karlheinz Seeger - nonlinear electronic transport in TTF-TCNQ, 1977-1978
770310	24-21	Chih-Tang Sah nomination for National Academy of Engineering, Heineman Prize committee, 1977
770517	18-23	Notes on phase transition, 1977
770523	22-23	Charge density wave depinning, 1977, 1982
770718	27-16	Notes, drafts, charts, reprints, and IBM Research Report on NbSe <sub>3</sub> , superconductivity, and charge density waves, 1977

Box 103:

770831	13-49	Karlsruhe-Humboldt Prize, 1977-1978
770831	13-50	International Conference on Quasi One-Dimensional Conductors, Dubrovnik Yugoslavia, 1977-1978
771007	03-36	Venezuela National Academy of Science foreign member, 1977-1980
771107	09-18	Bell Labs Dinner Talk, 1977 Nobel for solid state research by Anderson, Mott and Van Vleck, 1977-1978
771122	18-21	Transparencies and draft on superconductivity, 1977
771208	13-43	Seventh U.S.- U.S.S.R. Symposium on Current Problems in the Theory of Condensed Matter, Moscow, 1977
78	22-02	"Transport by Charge-Density Waves in Linear-Chain Conductors," M. B. Maple, "Superconductivity and Magnetic Order," Bardeen's vita, "Reminiscences from the Early Days of Solid State Physics," 1978-1979, 1983
78	27-06	Papers on China (contains photographs), 1978-1980
78	J-51	Drafts on superconductivity and charge density wave motion in NbSe <sub>3</sub> , 1978, 1980-1982, 1991
780209	27-09	International Conference on Quasi One-Dimensional Conductors, Dubrovnik Yugoslavia, 1978
780220	22-16	Preprints and reprints by Greenstein, Wolfe, Kamimura, and Gourley, 1978
780313	03-55	Xerox Corporation visit report, Rochester, 1978-1981
780316	27-07	Correspondence concerning China trip, 1978-1980

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
<u>Box 104:</u>		
780321	09-53	History of Solid State Physics Meeting, London, draft of talk, history of solid state physics for Venezuela, correspondence regarding meeting, draft of talk for Bell Labs dinner, report on HSSP project, 1978-1979
780606	07-06	Venezuela National Academy of Sciences, correspondence with Miguel Parra Leon, 1978-1979
780608	03-35	Evolution of superconductivity, 1978
780612	13-45	Charles B. Duke - nomination for 1979 Davisson-Germer Prize, 1978
7807	26-10	Charge density waves, 1978-1979
780720	13-51	Xerox visit, Webster, New York, technical advisory panel, 1978
780815	01-12	Classical vs. quantum model charge density wave transport, 1978, 1985
780815	26-22	Notes and correspondence on charge density waves, 1978, 1982, 1984
780818	13-53	Xerox consulting - technical advisory panel visit to Xerox Research Centre of Canada, 1978-1979
780818	18-07	History of solid state physics article to be published in <u>World Book Encyclopedia</u> , correspondence, notes, galley proof, 1978, 1982
780823	J-41	Evolution of Superconductivity - 15th International Conference on Low Temperature Physics, Grenoble France, August 23-29, 1978
780901	Z-09	B. I. Verkin correspondence regarding Soviet exchange of scientific information, 1978
7810	15-33	Superconductivity conference booklet, scientific publications, and lab booklets, 1978, 1981-1982
79	15-28	Scientific research for N.A.S.A. and U.S. Navy and White House Science Council lab reviews, 1979-1982

Box 105:

79	26-05	Publication, essays, research notes, correspondence from George Grüner, and notes for talk at Northwestern University, 1979-81
790301	22-05	Articles photocopied from: <u>The Institute</u> , <u>Current Contents</u> , <u>Business Week</u> , <u>Applied Physics Letters</u> , also a Bardeen vita, lecture notes, and calculations, 1979-1981, 1984

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
7904	26-34	Interview of John Bardeen by Lillian Hoddeson and Hoddeson's "The Emergence of Basic Research in the Bell Telephone system, 1875-1915," 1979 Bardeen, John, December 22, 1977 Oral History Interview Revised Transcript, 1977 Bardeen, John, December 1, 1977 Oral History Interview Revised Transcript, 1977 Bardeen, John, April 14, 1978 Oral History Interview Revised Transcript, 1978
7905	J-45	Early Days of the Transistor - E. W. Mueller memorial lecture, April 17, 1980, 1979-1980
790528	22-12	Calculations, drafts, and reprints relating to charge density waves, 1979-1982
790612	J-01	Ashrok Misra, Birla Institute of Technology, Mesra, India, 1979
7907	15-23	White House Science Council notes, correspondence, reprints, and agendas, 1979, 1982
790716	07-42	Unity of concepts in the structure of matter, expansion of 1980 article for publication in Chinese <u>Progress in Physics</u> , 1979-1981

Box 106:

790908	14-17	Unity of concepts notes, reprints, correspondence, 1979-1980
790913	01-10	Nobel meeting, Lindau, 1979, 1983-1985
790913	03-22	John Bardeen, "Reminiscences of the Early Days of Solid State Physics," correspondence, notes, and agenda for February 7-8, 1980 Meeting on Proposed Historical Study of Solid-State Physics, Santa Barbara, 1978-1980
7911	26-03	Notices of the American Math Society, 1979
7911	26-13	Correspondence, notes, preprints on low temperature charge density waves semi-conducting (2 folders), 1979-1981
7911	26-21	Correspondence and reprints on charge density waves, 1979, 1983-1985
791107	03-23	Japan, Taiwan Visit, 1979, 1981-1982, 1987
791126	03-37	Faculty Allerton Conference on Industry and University Research, 1979-1980

Box 107:

80	15-31	White House Science Council documents, 1980, 1982
----	-------	---



## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
8002	22-08	Reprints by Frank Herman, Nick Holonyak, Jr., Bardeen, and Lillian Hoddeson, 1980-1983
8002	22-15	Notes on "Ground State" and "Non-Equilibrium Phenomena In Superconductors" by Bardeen, and "Quantum-Well Heterostructure Lasers" by Holonyak, 1980
800303	03-18	Math Department Search Committee, 1980
800315	J-43	Correspondence, drafts, abstracts, notes on solid state physics, linear-chain conductors, origins of the transistor, 1980-1981, 1983-1985, 1989
800414	26-29	Honorary degree ceremony at the University of St. Andrews, Scotland, 1980
800422	03-15	16th International Conference of Low Temperature Physics, 1980-1981
800430	I-18	Report on a visit to The Peoples Republic of China as an exchange lecturer, 1980
800530	03-42	China exchange trip, 1980
800722	26-09	Charge density waves, 1980-1981
800906	26-04	Tunneling theory of charge density waves depinning, 1980-1981
800908	26-01	Quantum detector or mixer making use of linear-chain charge-density-wave materials proposal, 1980-1982
800926	03-16	University of Illinois Medical Center centennial talk, 1980-1981
801112	03-30	University of Illinois Medical Center centennial talk, 1980-1981
<u>Box 108:</u>		
801124	26-02	Talk on charge density waves, 1980
8012	15-37	Hanford lab reports and Los Alamos lab newsletter, 1980-1981
801215	03-38	Charge density waves depinning by tunneling paper, 1980-1981
801215	26-08	Charge density waves notes, reprints, 1980-1981
801219	03-24	Nobel Prize winners convocation, Pittsburgh, 1980
801226	03-17	Wolf Foundation Physics Prize Award Committee, 1980-1981
81	03-27	FBI Security Clearance, 1981
81	15-35	Lab reports, notes, and papers for Department of Energy review, 1981-1982
81	J-04	Superconductivity: Theory and Critical Temperatures, 1981, 1986
8101	15-36	Progress reports of Los Alamos Meson Physics Facility, 1981
810105	26-06	Correspondence from George Grüner regarding results of experiments proposed by Bardeen, 1981

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
<u>Box 109:</u>		
810205	07-40	Superconductive materials and theory, article for Pergamon Press Encyclopedia of Materials Science and Engineering, reprints and correspondence, 1981-1982
810220	26-11	Paper with Grüner, 1981
8103	15-27	Beltsville Agricultural Research Center, Beltsville, MD and U of I research agreement with Agrigenetics Research Associates, Ltd., 1981-1983
8103	I-24	Transparencies high T <sub>c</sub> , 1981, 1986-1987
8103	Z-03	Masayuki Ido, Hokkaido University Department of Physics, Sapporo, Japan, correspondence and preprints and reprints for charge density waves, hall effect, and NbSe <sub>3</sub> , 1981-1982
810307	03-56	Low-Dimensional Semiconductors Conference, Boulder, Colorado, 1981
810515	I-01	Drafts on superconductivity and other macroscopic quantum phenomena (2 folders), 1981, 1987-1988, 1990
810522	I-20	William B. Shockley obituaries, 1981, 1989
810706	03-26	Charge Density Waves Gordon Research Conference, 1981
8109	17-11	Nobel Prize nomination forms, 1981, 1984-1985, 1988-1990
810917	15-25	Reports, presentation, article, minutes, agreement, and talk on scientific research, 1981-1983
<u>Box 110:</u>		
810929	15-32	White House Science Council Lab Review Panel documents, 1981-1982
811001	03-33	Washington Award Dinner "Electronics and Medicine" talk, 1981, 1983
811008	03-32	International project meeting, history of solid state physics, 1981
811218	03-11	Mac Arthur Chair, 1981-1982
820208	03-14	Near Zero Conference, Shielding by Surface States, Stanford, 1982
820209	15-22	White House Science Council reports, correspondence, and agendas, 1982
820222	15-34	White House Science Council Lab Review Board reports, 1982
820224	03-13	White House Science Council travel (contains photograph), 1982-1983
820305	17-03	National Academy of Sciences, election of members ballot, constitution and bylaws, 1982-1983

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
<u>Box 111:</u>		
820322	15-29	White House Science Council lab reviews and articles, 1982
820322	15-30	White House Science Council lab reviews and research and development, 1982
820415	15-24	White House Science Council Lab Review Panel reports, 1982-1983
820511	26-23	Science 84, American Association for the Advancement of Science publication, 1982, 1984
820511	J-36	Growth of Semiconductor Technology and Devices - Nihan University talk, 1982
820524	07-32	Akira Tonomura reprints and correspondence regarding visit to University of Illinois, 1982-1983, 1985-1986
820622	26-20	Federal Laboratory Review Panel proposed agenda, 1982
820714	J-55	Charge density wave motion in NbSe <sub>3</sub> , macroscopic phase coherence, charge density wave tunneling, 1982-1983
820730	15-21	White House Science Council report and correspondence on lab panel, 1982-1983
<u>Box 112:</u>		
8208	J-26	Current oscillations and stability of charge density wave motions in NbSe <sub>3</sub> , 1982
820816	03-20	Nonlinear transports Sapporo meeting, 1982-1983
8209	15-26	Final reports of the Energy Research Advisory Board, volumes II and III, 1982
821101	22-03	Notes and calculations, <u>Physical Review Letters</u> v. 51, no. 11, 1982-1983
821213	26-30	Reprints and drafts from other scholars (2 folders), 1982-1984
83	11-21	Reprint "Die Frühzeit des transistors: 1946 bis 1955" ("Early Days of the Transistor"), 1983
83	17-10	Nobel Foundation directory, 1983
83	23-18	Drafts on charge density waves, NbSe <sub>3</sub> and TaS <sub>3</sub> , 1983
830115	23-21	Reports and reprints on non-linear conductivity, 1983
830127	J-05	A. Zawadowski, 1983
830131	03-21	"Electronics and Medicine" Washington award dinner, 1983
<u>Box 113:</u>		
830213	03-10	Supertex Board of Directors meeting, 1983-1984

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
830225	23-23	Drafts, reprints, and correspondence on charge density waves, 1983-1984
830305	23-17	Charge density waves drafts and reprints, correspondence, 1983-1984
830328	17-02	National Academy of Sciences biographical supporting material, members and foreign associates, 1983
830426	17-05	National Academy of Sciences press releases, 1983-1984
830504	03-06	Saporo Conference, 1983
830511	14-21	Memoranda for White House Science Council, 1983
830512	Z-04	Mahandra Prasad, head of the Physical Chemistry Division, National Sugar Institute - Kanpur, letter and "Electronic Current from Electron-Hole Conductor In Absence of External Potential," 1983
830704	22-09	Notes and calculations, preprints and reprints by Bardeen, Tasaki, Wonneberger, Kuper, and Seeger, 1983-1985
<u>Box 114:</u>		
830714	03-02	Supertex Corporation semiconductors correspondence, 1983-1984, 1987
830718	18-08	Meester Flim, et al. correspondence regarding superconductivity, 1983
830719	I-29	"Background Leading to the Microscopic Theory of Superconductivity" - draft for Kostas Gavroglu's book, 1983, 1989-1990
830912	07-15	Narrow band noise and steps, George Grüner correspondence, reprints, notes, calculations, 1983-1985
830920	04-08	Supertex Board Meeting, clippings, history, plan, reports, 1983-1986
831024	23-19	Drafts and reprints on charge density waves, 1983-1984
831118	07-18	Yamada Conference, Lake Yamanaka, Japan, also International Conference on Science and Technology of Synthetic Metals, Kyoto, Japan, 6/1 - 6/86, 1983, 1985-1986
831205	22-28	Charge density wave depinning, 1983-1984
84	01-09	Grüner paper on blue bronze, 1984, 1988
84	07-02	"Beginnings of Solid State Physics & Engineering" in <u>The Bridge</u> , 1984, 1986
84	17-12	List of Nobel Prize winners, 1984-1986

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
<u>Box 115:</u>		
84	22-10	Drafts by Bardeen, preprints by Bardeen and Barisic, 1984-1985
840214	02-06	John Tucker correspondence, University of California, Santa Barbara, 1984, 1986-1988
840215	J-35	"Depinning of Charge-Density Waves by Quantum Tunneling," draft for Las Vegas talk, 1984-1986
8403	03-03	Supertex business plan, 1984
840301	17-01	National Academy of Sciences election of members, preference ballot, 1984
840323	07-37	Charge density wave tunneling correspondence, reprints, notes, 1984-1986
840328	17-30	"John Bardeen The Inventor of the Transistor" by elementary school student Melissa Epstein, 1984
8404	26-25	Draft of Lillian Hoddeson, Gordon Baym, and Michael Eckart's "Chapter 2: Development of the Quantum Mechanical Theory of Solids: 1926-33," 1984
8404	27-08	Condensed matter physics in the 1980s, 1984
<u>Box 116:</u>		
840529	03-29	Princeton mathematics in 1930s interview, 1984
8407	J-07	Federal Laboratory Review Panel progress report, volumes I and II, 1984
840706	I-28	Superconductivity - transparencies and notes, 1984-85
840713	22-11	<u>Physical Review Letters</u> papers, 1984-85
840717	07-36	Charge density wave depinning, tunneling theory, Karlheinz Seeger's 60th birthday article, notes and reprints, 1984-87
840810	03-31	National Academy of Engineering Founders Award, beginnings of solid state physics talk, 1984
840814	03-05	Supertex travel, 1984-87
840815	07-38	Fred Brown reprints and preprints, 1984-86
840815	22-19	Reprints by Bardeen and others relating to charge density waves, 1984-87
840823	22-33	Proof, drafts, and reprints on charge density waves, 1984-86
<u>Box 117:</u>		
8410	26-24	Draft, reprints, and preprints regarding charge density waves, 1984-

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
		1985
841003	07-21	Founders Award, National Academy of Engineering, beginnings of solid state physics and engineering talk for Founders Award, 1984, 1986
841008	07-03	Forward to Carolyn Caddes' <u>Silicon Valley Portraits</u> , 1984-86
841017	J-20	Death of William L. McMillan, 1984-85
8411	17-31	<u>The Institute</u> "Engineering Academy Honors Prominent Institute of Electrical and Electronics Engineers Members," 1984
841126	J-46	Beginnings of solid state physics and engineering - abstract, 1984
85	02-25	Charge density waves pinning by quantum tunneling, 1985-88
85	17-04	National Academy of Sciences election of members, 1985
8501	J-03	Condensed matter physics in the 1980s (2 folders), 1985
850110	17-14	American Philosophical Society, suggestion for membership form and class ballot, 1985, 1991
850126	03-01	Supertex, fiscal year 1986 business plan, 1985
<u>Box 118:</u>		
850204	01-17	<u>Physics Review Physica Scripta</u> paper, drafts, and referees' comments, 1985, 1988
850322	J-30	Notes for charge density wave talks, 1985
850322	J-39	Notes on charge density waves, 1985-86
850331	03-19	Supertex, Inc.: Superior Technologies in Superconductors August 9, 1985 Sunnyvale, CA board meeting, 1985
850406	07-35	Charge density wave alloys, George Grüner correspondence, reprints, 1984-86
8506	07-34	Antique Wireless Association Conference, Applied Superconductors Conference, Baltimore, Maryland, 1985-86
8506	I-15	Clippings on superconductivity, 1985, 1987
8507	07-23	Star Wars, <u>Arms Control Today</u> article, "Origins of Star Wars," Union of Concerned Scientists, Senate Hearing on strategic defense initiative, 1985-86
850807	07-29	Charge density waves, Shapiro Steps papers, letters, notes, 1985
850826	01-19	Reprints on charge density waves, 1985-87, 1989
850826	I-05	Draft of "Basis for Tunneling Theory of Charge Density Wave Depinning," 1985
851001	01-01	Karlheinz Seeger visit, 1985, 1987-89
851001	07-28	Robert E. Thorne drafts on phase locking in charge density wave transport; Shapiro Step reprints, 1985

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
<u>Box 119:</u>		
8511	07-22	Strategic defense initiative article with Hans A. Bethe, New York Times, anti-SDI article, staff report to three senators, 1985-86
851108	07-34-01	Applied Superconductivity Conference, foundations and small scale applications, 1985-86
851118	07-20	Yamada Conference, Lake Yamanaka, Japan, also International Conference on Science and Technology of Synthetic Metals, Kyoto, Japan, Korean Physical Society Meeting, 5/13-21/86, 1985-86
851127	22-24	Ginzburg article and drafts, 1985-86
851218	J-19	Robert J. Meyer - requests for letters of recommendation, 1985-86
851231	07-25	Ernest Braun Article, draft of and comments on Braun "semiconductors" for solid state history book, 1985-86
86	02-10	John Tucker Letter, 1986-87
860110	17-13	Douglas D. Osheroff, Robert C. Richardson, David M. Lee - nomination for Nobel Prize, 1986
860126	07-12	Aspen winter Condensed Matter Physics Conference, charge density waves in solids, 1986-87
860207	03-08	Supertex board meeting, 1986
860228	03-07	Supertex, expenses, 1986
8603	07-16	Depinning of charge density waves by quantum tunneling talk, Las Vegas, NV, 1986
860324	J-27	Depinning of charge density waves by quantum tunneling -Las Vegas talk, 1986
860415	07-24	Physics and Engineering College information, 1986
860515	22-18	Robert E. Thorne manuscript, 1986-87
860526	01-15	<u>Physics Review</u> paper, 1986, 1989
860526	J-25	<u>Synthetic Metals</u> paper, Physica paper, V. L. Ginzburg anniversary article and notes, 1986
<u>Box 120:</u>		
860526	J-34	Tunneling model of charge density wave transport-abstract for the Yamada conference, 1986
860630	07-13	Hans Dehmelt Nobel Prize nomination, 1986-87
860708	07-19	Yamada conference, charge density waves papers and notes, 1986
8608	07-14	Transistor history '46-'55, 1986
861020	07-08	John Wheatley Low Temperature Symposium, Los Alamos, 1986

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
861027	J-33	14th Midwest Solid State Theory Symposium, 1986
861110	07-05	High Temperature Superconductors Symposium, Anaheim, California, 1986-87
861128	07-10	V.L. Ginzburg anniversary article, microscopic theory of charge density wave transport, 1986
861208	07-11	Sid Shapiro Award ceremony, Rochester, New York, Institute of Electrical and Electronics Engineers fellow, 1986-87
861209	07-31	Golden Plate Award, 1986 banquet of the Golden Plate book and correspondence, 1986-87
861212	07-17	American Academy of Achievement, Golden Plate Award, Malibu, California, 1986
861227	I-33	Theories of High Tc Superconductors - abstract, 1986-87
87	22-17	Proposal to the National Science Foundation, "Microscopic Structure and Dynamics of Charge Density Waves," 1987
87	22-31	Notes, drafts, and transparencies for Sony meeting in Tokyo, 1987, 1990
8701	I-25	Superconductivity transparencies, 1987
870109	03-04	Supertex board meeting, 1987
8704	02-08	H. Takayama letters, 1987-88
870407	J-37	Superconductivity: Past and Present - abstract for PEAP meeting, 1987
870409	03-09	Supertex board agenda, 1987
870513	01-05	Article for Grüner volume, 1987-88
870610	01-13	Semiconductor Research American Physical Society, New Orleans, 1987-89
870621	I-13	Superconductivity, 1987-88

Box 121:

8707	01-03	Wigner Meetings Nobel Symposium, London, Copenhagen, 1987-88
870928	01-14	Excitonic superconductivity in layer structures, 1987
871028	22-21	Drafts of Van Vleck lecture and forward for the Hatfield volume, 1987
871102	Z-05	Nick Holonyak, Jr., correspondence with Hisashi (Sam) Schichijo at Texas Instruments, 1987
871201	09-41	Spacetime Symmetries Symposium, talk in honor of E. Wigner, College Park, Maryland, 1987-88
88	01-08	Charge density waves visuals, 1988
88	02-27	Hatfield Book high temperature SC material, 1988
88	J-42	Shapiro Steps - La Jolla talk, 1988



## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
880225	J-32	SuperconiX Inc. list of high temperature superconductors for sale, 1988
880406	02-26	PEAP Physical Electronics workshop, University of Illinois, 1988
880419	I-23	High Tc, 1988
880613	01-16	Landau Symposium, 1988
880613	J-12	Phase coherence in charge density wave transport, 1988
880707	02-09	Xerography 80th anniversary meeting, Rochester, 1988
880719	I-35	Karen Fitzgerald articles for Institute of Electrical and Electronics Engineers Spectrum, 1988-89
8811	01-06	High temperature superconductors meeting, Stanford, 1988-89
881130	01-04	Singvi Symposium, 1988
89	01-02	Thorne talk, 1989
89	17-27	The Center for Advanced Study, faculty and staff, University of Illinois, 1989-91
89	I-36	Charge density waves, 1989-90
890118	01-18	Charge density wave systems physics review letters, 1989
19890310	22-25	Kilby/Noyce Nobel nomination, Leroy Chang's nomination for the National Medal of Science, the Morton Award, the Sarnoff Award, and the Liebmann Award, 1989-90
<u>Box 122:</u>		
890420	I-10	Masters of Modern Physics - American Institute of Physics, 1989
890427	22-32	Meeting in Madison, Mack lecture, 1989-90
890908	I-09	3rd International New Materials Conference and Exhibition, Osaka, Japan, October 1-5, 1990, and Sony Corporation, May 1990, 1989-90
890912	I-07	NHK Broadcast Program (Japanese television), 1989
8910	G-10	College conference programs, Rochester and Boston, 189-91
891115	22-29	Drafts, notes, and transparencies on superconductivity, reprint on charge density waves, and Japanese newspaper clipping and correspondence, 1989-90
891130	I-32	NHK interview, 1989-90
892808	I-11	Microelectronics building dedication and Sony endowed chair, 1989
90	17-09	National Research Council preferred hotels, 1990
90	17-16	Harry G. Drickamer, "Forty Years of Pressure Tuning Spectroscopy," <u>American Review of Materials Science</u> , 1990
900109	Z-10	R. Robert Brattain personal correspondence, 1990
900131	17-15	National Medal of Science nomination form, 1990

## SUBJECT FILE

<u>First Date</u>	<u>Folder Number</u>	<u>Folder Title and Inclusive Dates</u>
900320	22-26	Talk at University of Illinois materials workshop, June 25, 1990, 1989-90
900321	I-30	Superconductivity lecture, 1990
900323	17-07	Natl. Acad. of Engineering nomination for membership packet, 1990
900327	I-14	Materials and Mechanisms of Superconductivity - International Conference, Kanazawa, Japan, July 22-26 1991, 1990
900401	I-12	Papers on superconductivity, H. Monien, D. Pines, and others, 1990
900406	19-07	Slides regarding transistors and conductivity, diagrams, early transistors, invitation to physics department luncheon, 1990
9005	22-22	<u>Physics World</u> , May '90 and <u>American Heritage of Invention and Discovery</u> , Spring/Summer '90, 1990

Box 123:

900508	02-02	Patent and Copyright Bicentennial Conference, Washington D.C., 1990
900513	I-02	"Superconductivity and Other Macroscopic Quantum Phenomena" - talk for Sony, May 13, 1990, Tokyo, 1990
900608	I-22	Third International New Materials Conference and Exhibition, October 1-5, Osaka, Japan, 1990,
900924	I-31	Articles by K. K. Likharev, 1990
901101	17-06	National Academy of Sciences, 1991 election ballot, 1990
901112	Z-11	Yung Woo Park correspondence regarding high Tc superconductor, 1990
901118	Z-06	George Grüner, University of California at Los Angeles, Department of Physics, correspondence, 1990
901121	J-11	Richard Chasman, Argonne National Laboratory, 1990
901127	J-13	Oxford honorary degree, 1990
9012	J-15	<u>Vintage Electrics</u> , 1990
910104	17-08	National Academy of Engineering, ballot and nomination forms, 1991
9103	18-24	National Academy of Engineering ballot for election of members and foreign associates and vita of Arkadii G. Aronov, 1991

Box 124:

(Note: Boxes 124-130 were created from material that was accessioned September 27, 2002, from Professor Lillian Hoddeson who had held this additional material in an office in Engineering Sciences Building since the main body of Bardeen materials had been moved out of his office in 1991-92. The 2002 addition was processed upon receipt and added to the end of the

existing collection, and modifications were made to the existing finding aid.)

## BIOGRAPHICAL [2002]

The Vincent Bendix Research Medal Presented to John Bardeen by American Society for Engineering Education, 1964

Nomination of John Bardeen for the IEEE Medal of Honor, 1969

Newspaper and Magazine Clippings on John Bardeen, 1965-1987

Pakistan Academy of Sciences Certificate of Membership, 1982

Symposium in Celebration of Bardeen Eightieth Birthday, 1988

Appointment Book, 1988

Appointment Book, 1989

Supercurrents: The Superconductivity Magazine - Interview with Colleagues of Bardeen, 1988-1989

## CORRESPONDENCE [2002]

Letters of Recommendation A-J (4 folders), 1957-1990

(Note: Letters of Recommendation were written by Dr. Bardeen primarily for students and colleagues)

### Box 125:

## CORRESPONDENCE [2002]

Letters of Recommendation K-Z (6 folders), 1957-1990

### Box 126:

## CORRESPONDENCE [2002]

John Bardeen's Second Nobel Prize

Letters of Congratulations from Corporations, Personal Letters, Phone Messages, 1972-1973

Remarks at the Banquet, Itinerary, Letters from Corporations, Government and Academic Institutions, 1972-1973

Henry-Marsh Fund Committee Correspondence (Chairman: John Bardeen) (4 folders), 1975-1979

Frontiers in Condensed Matter Physics: Symposium in Honor of Professor John Bardeen, 1976

Department of Mathematics Head Search Committee, 1979NAS Panel on Condensed Matter Physics, 1981-1982

White House Science Council, 1982-1983

Outgoing Correspondence, 1985

Box 127:

CORRESPONDENCE [2002]

Outgoing Correspondence

1986

1987

1988

1989

1990

1990-1991

Award Nomination for National Model of Science for Gordon K. Teal by John Bardeen (2 folders), 1986

SUBJECT FILE [2002]

Walter Houser Brattain (1902-1987): A Biographical Memoir

Technical Memoranda on Transistor Related Research at Bell Telephone Laboratories, 1948-1949

Box 128:

SUBJECT FILE [2002]

Technical Memoranda on Transistor Related Research at Bell Telephone Laboratories (4 folders), 1948-1950

Publication Reprints of Other Physics Professors' Work at UIUC, 1964-1970

Theory of Superconductivity - Talk Given at Conference on Superconductivity, May 1966

Solid State Physics: Past and Future Paper for Lecture, September 1968

Box 129:

SUBJECT FILE [2002]

Encyclopedia Americana "Superconductivity" Article Agreement and Manuscript, March 1970  
Non-homogeneous Current Flow in Superconductors Paper for Talk at Sandia Lab, November 1970

The Past and Future of Solid State Physics and Superconductivity: Past and Future - Talk Given at University of Utah, November 1971

Outline of Lectures on Space and Time Changes of the Order Parameter and Fluctuations in Superconductors, May 1972

The Transistor after 25 Years - Paper for Talk, November 1972  
Manuscripts on Superconductivity and Solid State Physics, 1973-1986  
Potential Applications of Superconductivity, January 1971  
Talk at Depauw, September 1973  
China Project, October 1975  
Basic Research and Industrial Development - Lecture in Iran, October 1975  
Development of Semiconductor Electronics - Lecture at Pahlavi University, December 1975  
Comments on Visit to Brown University, February 1976  
Introduction of Speak at Tykociner Lecture, March 1976  
Comments on Superconducting Science and Technology at Stanford, CA, August 1976  
Summary Remarks Presented at Conference on Organic Conductors and Semiconductors, August 1976  
Nonequilibrium Phenomena in Superconductors - Manuscript, 1978  
Recent Development and Comments - Manuscript for Chapter in Highly Conducting One-Dimensional Solids, February 1978-1979  
Excitonic Superconductivity - Manuscript for Journal of Less Common Metals, August 1978  
Concluding Remarks for International Conference on Quasi-one-dimensional Conductors, September 1978  
A Brief History of Solid State Physics - Notes for Presentation to Academia de Ciencias Fisicas Matematicas, Venezuela, 1979  
Theory of Nonohmic Conduction from Charge Density Waves - Manuscript, 1979  
“Reminiscences of the Early Days of Solid State Physics”, September 1979-1980  
Unity of Concepts in the Structure of Matter - Manuscript and Correspondence, September 1979-1981  
Report on Visit to People’s Republic of China, 1980  
Invention Proposal - Quantum Detector or Mixer Making Use of Linear Chain Charge Density Wave Materials, September 1980  
Tunneling Theory of Charge Density Wave Depinning Manuscript and Correspondence on Publication, November 1980  
Field and Frequency Dependence of Charge Density Wave Conduction in NbSe<sub>3</sub> - Manuscript, 1981  
Discussion Group on ‘Interaction of Industry and University Research’ Summary Statement, 1981  
Introductory Remarks for Tykociner Lecture, 1981  
Talk for TSH Sing, Spring 1981  
Talk at Clarkson, May 1981  
Electronics and Medicine: Past and Future - Address to College of Medicine on Centennial of the University, October 1981  
Stability and Noise of Charge-Density-Wave Motion in NbSe<sub>3</sub> Manuscript, February 1982  
Superconductivity Theory - Manuscript for Encyclopedia of Materials Science and Engineering, March 16, 1982

Box 130:

## SUBJECT FILE [2002]

Comments on Shielding by Surface States - Talk for Near Zero Conference, Stanford, March 1982  
Current Oscillations and Stability of Charge Density Wave Motion in NbSe<sub>3</sub> Manuscript, August 1982  
Electronics and Medicine - Paper for Talk at Washington Award Dinner, February 1983  
Charge Transport by Charge Density Waves - Vareena Lectures Paper, June 1983  
Depinning of Charge-density Waves by Quantum Tunneling - Manuscript, February 1984  
Origins of the Transistor and Solid State Electronics - Manuscript, June 1984  
IEEE Spectrum - Comments for Supplement, April 1984  
Soliton Theory of Charge Density Wave Depinning - Manuscript for Conference, September 1984  
Soliton Model of Charge Density Wave Depinning - Manuscript, October 1984  
Dynamics of Charge-Density Waves in Orthorhombic TaS<sub>3</sub> - Manuscript, October 1984  
Beginning of Solid State Physics in Engineering - Paper for Talk, October 1984  
Macroscopic Quantum Tunneling in Quasi-One Dimensional Metals - Manuscript and Correspondence, May 1985  
Depinning of Charge-Density Waves by Quantum Tunneling - Lecture Notes for Las Vegas Meeting, March 1986  
Basis for Tunneling Theory of Charge Density Wave Depinning - Manuscript Submitted to Zeitsf Phys. B, February 1987  
Prehistory of Semiconductor Laser - Manuscript for Optoelectronics Forum, March 1987  
Excitonic Superconductivity In Layer Structures - Manuscript, June 1987  
Development of a Tunneling Model of Charge Density Wave Depinning - Manuscript, June 1987  
Superconductivity: History and Recent Developments - Von Vleck Lecture, October 1987  
Theories of High T<sub>c</sub> Superconductors - Materials for Res. Society Meeting, November 1987  
Solid State Physics - Manuscript for Article to Appear in Solid State Technology Special Issue, December 1987  
Superconductors - Forward by John Bardeen, December 1987  
Obituary for Walter Brattain in Physics Today, January 1988  
Classical vs. Quantum Models of Charge-Density Wave Depinning in Quasi-One-Dimensional Metals - Manuscript and Correspondence, February 1988  
“A Collection of John Bardeen’s Publications on Semiconductors and Superconductivity,” October 1989  
Theory of Size Effects in Depinning of Charge Density Waves - Manuscript, January 1990  
Superconductivity Theory - Revised Manuscript for Encyclopedia of Magnetic and Superconducting Materials, January 1991

Box 131:

(Note: The following material was donated to the Spurlock Museum by John Bardeen, and subsequently accessioned from the museum May 14, 2003.)

# CERTIFICATES, CITATIONS, AND AWARDS (See Also Box 132) [2003]

The Order of Lincoln from the Lincoln Academy of Illinois  
 Zeta Psi Fraternity Certificate, October 1925  
 American Physical Society Oliver E. Buckley Solid State Physics Prize, January 29, 1954  
 American Academy of Arts and Sciences Membership Certificate, May 13, 1957  
 Center for Advanced Study Membership Certificate, September 1, 1959  
 Eta Kappa Nu Association Membership Certificate, March 29, 1962  
 American Society for Testing and Materials, February 3, 1964  
 Wisconsin Academy of Sciences, Arts, and Letters Honorary Membership, May 9, 1970  
     University of Illinois Board of Trustees Distinguished Service Award, December  
     20, 1972  
 National Inventors Hall of Fame Certificate of Induction, February 10, 1974  
 Omicron Delta Kappa Membership Certificate, May 5, 1974  
 Pahlavi Lecture Series Commemorative Certificate, December 1, 1975  
 Phi Kappa Phi Membership Certificate, 1976  
 Alexander Von Humboldt Award, 1977  
 University of Illinois Distinguished Service Medallion Award, May 21, 1978  
 Golden Key National Honor Society Honorary Member, March 3, 1982  
 Institute of Electrical and Electronics Engineers IEEE Centennial Medal, 1984  
 State of Illinois House of Representative Resolution No. 1370 Honoring John Bardeen,  
     May 10, 1988

# HONORARY DEGREES (See Also Box 132) [2003]

University of Notre Dame Introduction of John Bardeen at Commencement  
     Union College Doctor of Science Diploma, Letter from President, and Booklet  
     "Union Worthies: Charles Proteus Steinmetz," 1955  
 University of Wisconsin Commencement Program, 1960  
     News clippings Concerning Honorary Degree, June 6, 1960  
     Honorary Doctor of Science diploma and citation, 1960  
 Western Reserve University Doctor of Science Diploma, Commencement Program, 1966  
 Rose Polytechnic Institute Diploma, Commencement Program, June 1966  
 University of Glasgow Graduation Ceremony Programs, June 21, 1967  
     Princeton University Commencement Program and article "A Commentary on  
     Princeton Commencement, June 11, 1968  
 Michelson Morley Award at Case Western Reserve University  
     News clippings, 1968  
     Correspondence, Award Dinner, Program, 1968  
     Rensselaer Polytechnic Institute Commencement Program, Doctor of Science  
     Diploma, 1969  
 Busch Reising Museum Dinner for Honorary Degree Recipients, June 8, 1973  
 Harvard University Commencement Program, Correspondence, June 14, 1973

University of Minnesota Honorary Doctor of Science Diploma, Commencement Program, Script, December 12, 1973  
 University of Michigan Honorary Doctor of Science Diploma, Commencement Program, Correspondence, 1974  
 University of Illinois Honorary Doctor of Science, May 19, 1974  
 University of Pennsylvania Commencement Program, Guest List, Citation from Board of Trustees for Honorary Degree, May 28, 1976  
 Indian Institute of Technology Honorary Doctor of Science Diploma, 1977  
 University of Cambridge Speeches of the Orator at Presentation of Recipients of Honorary Degree, June 10, 1977  
 University of Illinois Commencement 1978 News Clippings and Correspondence - John Bardeen receives Honorary Degree and Distinguished Service Award, 1978  
 Georgetown University 108th Annual Commencement Program and Diploma, May 27, 1979  
 University of St. Andrews Laureation Address, July 7, 1980  
 Clarkson College of Technology Honorary Doctor of Science Diploma, Commencement Program, May 17, 1981  
 Soviet Academy of Sciences Diploma Translation, September 1982  
 Hungary Academy of Sciences Honorary Degree, 1986

#### CORRESPONDENCE, NEWS CLIPPINGS CONCERNING AWARDS [2003]

Hiromi Arisawa Congratulatory Card (Japan Academy)  
 L.D. Landau Institute Letter to John Bardeen on 80th Birthday  
 Haloid Company to John Bardeen, November 26, 1956  
 Lincoln Academy of Illinois Convocation and Installation of Members - Newspaper Clippings Concerning and Program, February 1965  
 National Medal of Science Award Press Release and Remarks of President, 1965-1966  
 Commemorative Envelope: "Progress in Electronics", July 10, 1973  
 Franklin Institute Medal Award Correspondence and News Clippings, 1975  
 Presidential Proclamation: National Inventors' Day, January 30, 1979  
 Art Buchwald, May 29, 1979  
 Letter from President George Bush, October 4, 1989  
 Life Magazine: 100 Most Important Americans of the 20th Century, 1990  
 Illiniwek Billed Baseball Cap - Cross Reference to Artifact Collection at Archives Research Center

Box 132: [large folder]

#### HONORARY DEGREES [2003]

National Academy of Sciences Diploma, April 27, 1954  
 University of Glasgow Honorary Degree Diploma, 1967



Princeton University Honorary Degree Diploma, 1968  
 Universitatis Dominae Nostra a Laru Honorary Degree Diploma, 1970  
~~Honorary Doctor of Science Degree Diploma, 1973~~  
 University of Pennsylvania Honorary Degree Diploma, 1976  
 University of Delhi Honorary Degree Diploma and Special Convocation, January 1977  
 Collegium Georgiopolitanum, 1979  
 University of St. Andrews Honorary Degree Diploma, 1980

#### CERTIFICATES, CITATIONS, AWARDS [2003]

Praeses Concilium Et Sodales Regalis Societatis Londini  
 Society of the Sigma Xi Membership, January 1929  
 Franklin Institute Stuart Ballantine Medal, October 1952  
 City of Philadelphia John Scott Meal and Premium, September 17, 1954  
 American Philosophical Society Fellow, April 1958  
 President's Science Advisory Committee, 1959  
 American Academy of Arts and Sciences Fellow, May 13, 1959  
 The Fritz London Award to John Bardeen September 1962  
 Vincent Bendix Award, 1964  
 National Medal of Science, 1965  
 State of Illinois Appointment Laureate Lincoln Academy, 1966  
 Symposium in Honor of John Bardeen's 60th Birthday, May 23, 1968  
     University of Pennsylvania Moore School of Electrical Engineering Harold  
     Pinder Award, November 11, 1968  
     Institute of Electrical and Electronics Engineers Medal of Honor, November 10,  
     1970  
 Xerox Corporation Certificate of Achievement, November 27, 1972  
 National Inventors Hall of Fame Certificate of Induction, February 10, 1974  
 Xerox Corporation Resolution Honoring John Bardeen, May 16, 1974  
 Institute of Electronics and Telecommunication Engineers, January 7, 1977  
 La Academia de Ciencias Fisicas, Matematicas y Naturales, June 1978  
 Institute of Electrical and Electronics Engineers Honorary Member, January 1, 1981  
 Institute of Electrical and Electronics Engineers Centennial Medal, 1984  
 Osterreichische Akademie Der Wissenschaften, May 20, 1985

#### Box 133:

(Note: Boxes 133-184 were created from material that was accessioned on August 11, 2022, from John Bardeen's family.)

#### BIOGRAPHICAL [2022]

VHS Tape of Interview with Bob Nellis and Other Events, 1988, 1991

Julian Mack Lecture, John Bardeen: Superconductivity and other Macroscopic Quantum Systems, VHS Tape, April 27, 1990  
 John Bardeen Memorials VHS Tape, 1991  
*Physics 125*, Notes by John Bardeen  
 Biographical Booklet on John Bardeen  
 John Bardeen Biography and Exhibits  
 Vita for John Bardeen  
 International Certificate of Vaccination for John Bardeen, 1953, 1975  
 National Academy of Sciences Ninety-Second Annual Meeting, April 1955  
 Diary notes from 1956, 1956  
*Illinois Technograph*, April 1957  
 Wisconsin Medical Alumni Association, Meeting Program, May 1957  
 University of Illinois Citizens Committee, May 1957  
 Art Group Info (Swedish) and University of Illinois Citizens Committee Attendees List, 1957  
 Milo biography and Teacher Exchange, 1962  
 Photo of John and Jane Bardeen with Guests, 1962  
*The Physics of Superconducting Devices* Symposium, 1967  
 60th Birthday Materials, and Princeton University Commencement Program, 1968

Box 134:

BIOGRAPHICAL [2022]

Cards and letters re 60th birthday, 1968  
 Family Group Photos at John Bardeen's 60th Birthday Party, 1968  
 John Bardeen's 60th Birthday, Article Reprint (Japanese), 1968  
 John Bardeen 60th Birthday Celebration Invites and Song Lyrics, 1968  
 John Bardeen 60th Birthday- Cards, Symposium Info, Planning Materials, Articles, 1968  
 John Bardeen 60th Birthday Symposium Newspaper Article, 1968  
 Pictures of 60th Birthday Banquet at Ch. C. Club, 1968  
 Solid State Physics, 60th Birthday Symposium Program, 1968  
 Vivat Pater, Songs for John Bardeen's 60th Birthday, 1968  
*Technograph*, Vol. 88 No. 1, October 1972, 1972  
*Saturday Review of the Sciences*, March 1973  
 DePauw Nobel Laureate Lectures, 1973  
 John's Biography News Clippings, 1973, 1991  
 Bardeen Lecture on Solid State Physics at J. Wayne Reitz Union, January 1974  
 Symposium: Frontiers in Condensed Matter Physics Part 1 of 2, October 1976  
 Symposium: Frontiers in Condensed Matter Physics Part 2 of 2, 1976-1977  
 Bardeen Symposium Dinner, October 1976

Lex Peterson, January 1981  
Surprise Party for John Bardeen, Event Flyer, May 1983  
Tea Party in Honour of John Bardeen, Guest List, October 1983  
80th Birthday, May 7, 1988  
Materials Relating to John Bardeen's 80th Birthday Symposium, May 1988  
"Interview with a Nobel Laureate" by Robert L. Burtch, 1990  
John Bardeen Passport Data, ca. 1990  
John Bardeen Interview, NHK TV DVD, June 1990  
John Bardeen Obituary, 1991  
Correspondence with Nick Holonyak Jr. Concerning Article on John Bardeen, 1991  
John Bardeen Biography - Hodson, ca. 1991  
Letters to Contributors to the John Bardeen Fund, 1991, 1992  
Memorial Gift Contributions, 1991  
Nick Holonyak Drafts, January 1991

Box 135:

BIOGRAPHICAL [2022]

*Inside Illinois* Volume 10, Number 10, February 7, 1991  
John Bardeen Memorial, February 8, 1991  
Memorial Programs, February 8, 1991  
A.C. Anderson Letter, April 19, 1991  
*Parity* (Japanese), June 1991  
John Bardeen Funeral Attendee Thank You Letter and Sympathy Cards ca. 1991  
Sympathy Letters from the Illinois House of Representatives, 1991  
Sympathy Letters, 1991  
Sympathy Letters and Cards Part 1 of 2, 1991  
Sympathy Letters and Cards Part 2 of 2, 1991  
Sympathy Cards Part 1 of 2, 1991  
Sympathy Cards Part 2 of 2, 1991  
Nick Holonyak, Jr. Tribute to John Bardeen, Final Text and Letter, John Bardeen Memorial Program, 1992

Box 136:

BIOGRAPHICAL [2022]

Borelli Letter "Le Prix Nobel," January 8, 1992

*Recollections of John Bardeen from the Early Years of Solid State Physics, 1934-1951* by  
 Conyer Herring, Article Draft and Letter, February 3, 1992  
 Princeton University Service of Remembrance Event Program, February 22, 1992  
*Physics Today*, April 1992  
 Letter from Nick Holonyak Jr., with Draft of Tribute for John Bardeen, July 8, 1992  
 John Bardeen Royal Society Bit, 1994  
 LCWS 95, ca. 1995  
*MRS Bulletin*, Volume 24 No. 1, January 1999  
 John Bardeen Biography by Vicki Daitch, Articles and Correspondences, 2001-2002  
*True Genius the Life and Science of John Bardeen*, Editor's Draft, ca. 2001  
 John Bardeen Interview with Mihaly Csikszentmihalyi Interview Transcription, 2007  
 Draft of John Bardeen Memoir by David Pines, August 2009

#### PUBLICATIONS [2022]

*Basic Research in the Industrial Labs* by John Bardeen  
*In the Nation's Service*, twenty-six Princetonians reflect on their university - then and  
 now  
*Pahlavi Lecture Series* Volume I, Year 2534 (1975-1976), 1977

#### Box 137:

#### PUBLICATIONS [2022]

Collected Works of John Bardeen From 1930-1968, Microfiche  
*Hole concentration and germanium point contacts* by J. Bardeen, October 1950  
 "Electrolytic Analog Transistor" by Harry Letaw, JR. and John Bardeen, May 1954  
*Physics Today* Vol 16, No 1, January 1963  
*Understanding Superconductivity* by John Bardeen, June 1964  
 5 Nobel Laureates magazine page and "Solid State Physics" Article, January 1967  
*Physics Today*, BCS Nobel Speeches, July 1973  
*Science Magazine*, Vol. 181 No. 4106, September 28, 1973  
*Solid State Physics in the People's Republic of China*, 1976  
*Industrial Research*, November 1976  
*The Early Days of the Transistor* by John Bardeen, ca. 1979  
*Quick is Beautiful* by Freeman J. Dyson, Tykociner Memorial Lecture, 1981  
*Science* 84 Fifth Anniversary Issue, November 1984  
 Hybrid Circuits, No 17, September 1988  
*A Collection of Professor John Bardeen's Publications on Semiconductors and  
 Superconductivity*, 1988

## CORRESPONDENCE [2022]

Card and Clipping from Busey First National Bank  
 Letter to William (Billy) Bardeen from John Bardeen, May 1944  
 Letter Concerning Bell Laboratories Mailing Transistors to John Bardeen, August 1952  
 Letters and Photos from Japan Trip, December 1953  
 Bell Telephone Labs Letter and Photos, 1957  
 Transistor Article from Max Kaplan, July 1957  
 Xerox Directorship Telegrams, February 1961  
 Telegram from Gerard Piel to John Bardeen, October 26, 1962  
 Invitation to Bill's Cornell Graduation, May 1962  
 Letters to John Bardeen from Zeta Psi, 1968, 1971  
 U.S. Naval Ordnance Laboratory Letter and Photo, January 1970  
 Letter to John Bardeen from Charles Keck, January 1971  
 Institute for Materials Research Evaluation Panel, Letter and Photos, March 1971  
 Letter from Prem Sukh Garg and Nobel Laureate Articles, 1972, 1975, 1980  
 Thank You Letter for Working on behalf of Dr. Lipari, February 1972  
 Letter from Chief Secretary of the Netherlands Concerning John Bardeen Appointment as  
 Temporary Professor of Mathematics at the State University (Dutch), 1974

Box 138:

## CORRESPONDENCE [2022]

Thank You Card from Albert Schmid to John Bardeen, 1979  
*Chicago Tribune*, April 9, 1980, Article on Sperm Banks, 1980  
 Letter from Shockley on Sperm Bank Article and Eugenics, 1980-1981  
*Chicago Tribune*, Article on Sperm Banks, April 9, 1980  
 R.W. Danon Letter May 11, 1981  
 President's Science Advisory Committee Letter from Daniel Crane, March 9, 1982  
 Letter to John Bardeen from Harry Drickamer, June 25, 1983  
 William Kent Biography and Letters from William (Bill) F. Whitmore, 1983, 1985, 1989-1990  
 Letter from Roy Shipman Blackshear with Materials on Hawaii Telescope and Bardeen  
 Trip to China, 1985

## AWARDS AND HONORS [2022]

Current and Former Junior Fellows Listing by Term  
 John Bardeen Engineering Fellowship at Fermilab  
 List of Awards, 1952-1978

Nobel Foundation Card  
 Harvard College, Junior Prize Fellow Letter, and Article on John Bardeen's Washington  
 Award Speech, 1935, 1983  
 Materials on Nobel Prize Wins and Talks, 1948, 1956  
 London Accolade Photos, 1952  
 Franklin Institute, October 15, 1952  
 Articles on American Physical Society, John Scott Metals, March 1955  
 Clipping John Scott Medal Presentation, March 1955  
 Union University Commencement Program, June 12, 1955  
*Union College Alumni Review* Vol. 44, No. 4, July 1955  
 American Airlines Christmas Community Song Sheet, ca. 1956  
 Article on King Gustaf Adolf, Transistor Invention, Nobel Prizes, 1956, 1973  
 Bell Telephone Labs, Press Release on Transistor Nobel Win, 1956  
*Blood in the Uranium* Summary, Song Lyrics (Swedish), and Tourist Guide, 1956  
 Copenhagen Photos and Postcards, ca. 1956  
 Cards Congratulating John Bardeen on Nobel Prize Win, 1956

Box 139:

AWARDS AND HONORS [2022]

Correspondences, Programs, Notes, and Articles on 1956 Nobel Physics Prize Win, 1956  
 Nobel Clippings, 1956  
 Nobel Laureate Calendar and List, ca. 1956  
 Nobel Materials and *Telebriefs* Article on First Earth Satellite, 1956  
 Nobel Pictures, 1956  
 Nobel Win Press Release, Itinerary, and Memo, 1956  
 Photos of Nobel Prize and Ceremony, and Postcards, 1956, 1972  
 Professor John Bardeen Grand Hotel, Stockholm, 1956  
 Stockholm Postcards, ca. 1956  
 Sweden and Denmark Tourist and Museum Information and Event Program, 1956  
 Wallet and Receipt from trip to Stockholm, 1956  
 Stockholm Travel Information, November 1956  
 1956 Nobel Event Invites and Programs, December 1956  
 Pictures of Nobel Diplomas and Postcards, December 1956  
 Prints and Negatives of pictures taken in Stockholm, December 1956-1957  
 American Philosophical Society Membership, April 25, 1958  
 Copy of American Academy of Arts and Sciences Fellow Election, May 13, 1959  
 University of Wisconsin Honorary Degree June 7, 1960  
 Land Grant College Centennial, Kansas City, Nobel Prize Winners Group Photo, 1961  
 Eta Kappa Nu Membership, March 29, 1962  
 University of Illinois Faculty Letter No. 80 and President's Report, and Princeton  
 University and Rensselaer Polytechnic Institute Commencement Programs, 1964,  
 1968

Box 140:

## AWARDS AND HONORS [2022]

American Society for Engineering Education Annual Banquet Program, June 25, 1964  
 Lincoln Academy of Illinois, Award Ceremony Photo, February 1965  
 Telegrams on National Medal of Science (White House), December 1965-January 1966  
 National Medal of Science, 1966-1967, 1985  
 Honorary Doctor of Science, Rose Polytechnic Institute, Letter and Photo, July 1966  
 Princeton University Honorary Degree, Photos and Citations, June 1968  
 Case Western Reserve University Michelson Award, October 1968  
 Case Western University Award Dinner Program and Booklet, and *Case Alumnus*,  
 December 1968  
 Award by Wisconsin Academy of Science, Madison, Wisconsin, May 1970  
 University of Notre Dame Commencement Programs, June 1970  
 IEEE Medal of Honor Banquet and Articles, March 24, 1971  
 Story and Program re IEEE Medal, March 1971  
 1972 Nobel Prize Articles and Letter, 1972  
 1972 Nobel Ceremony Pictures, 1972  
 1972 Nobel Prize Ceremony Photos, 1972  
 1972 Nobel Prize- Cards, Event Invites, Guest List, 1972  
 2nd Nobel Prize Win, Newspaper Clippings, 1972  
 Articles and Programs Relating to John Bardeen and 2nd Nobel Prize Win, 1972  
 Articles on 1972 Nobel Prize, 1972  
 Campus Report November 1972, 2nd Nobel Prize Win, 1972  
 Clippings 1972, 1972

Box 141:

## AWARDS AND HONORS [2022]

Congratulations for 1972 Nobel Prize Part 1 of 2, 1972  
 Congratulations for 1972 Nobel Prize Part 2 of 2, 1972  
 Exhibit on Alfred Nobel and American Laureates in Physics, ca. 1972  
 Invite and Articles on 1972 Nobel Prize Win, and Scholars of Excellence Program, 1972-  
 1973  
 Nobel '72 Articles, Postcards, Invites, Event Programs, Photos, 1972  
 Nobel Events Programs and Handouts, 1972-1974  
 Photo of John Bardeen Holding Nobel Certificate, 1972  
 Xerox Interim Report Brochure and *Xerox News*, Field Edition No. 7, 1972  
 Center for Advanced Study, Nobel Prize Win Congratulations, October 20, 1972  
 Engineering Outlook, Vol. 14, No.3, November 1972  
*Illinois Alumni News*, November 1972  
*The Electronic Engineer*, November 1972

*Uni Lausanne* No 5 (French), November 1972  
*Science*, Vol. 178 No. 4060, November 3, 1972  
 Notes of Trip to Stockholm, December 5-18, 1972  
*Kvälls Posten* (Swedish), December 8, 1972  
*The National Observer*, Vol. 11, No. 50, December 9, 1972  
 72 Nobel Articles Swedish Papers, December 11, 1972  
 Harvard Commencement Photos, 1973  
 James Madison Medal, February 1973

Box 10: [142]

#### AWARDS AND HONORS [2022]

Scholars of Excellence Program and Article, and Letter from Busey National Bank,  
 October 1973  
 Scholars of Excellence, October 16, 1973  
 Omicron Delta Kappa May 5, 1974  
 UI Honorary Degree, May 19, 1974  
 The University of Michigan Summer Commencement Program, August 1974  
 University of Illinois Board of Trustees, Retirement Appreciation, ca. 1975  
 University of Pennsylvania *Almanac*, May 25, 1976  
 University of Pennsylvania Commencement Program, May 28, 1976  
*The Pennsylvania Gazette* American Bicentennial Issue, July 1976  
 IR 100 Awards, September 23, 1976  
 Alexander von Humboldt Foundation Award, 1977  
 Medal of Freedom Luncheon, January 10, 1977  
 Presidential Medals of Freedom Program and Copies of Signed Luncheon Menus,  
 January 10, 1977  
 Japan Academy Honorary Fellow Notice, January 12, 1977  
 State of Illinois Eighth General Assembly House of Representative, Joint House  
 Resolution no. 6 and Letter, April 1977  
 Speech at University of Cambridge, Honorary Degree, June 10, 1977  
 University of Cambridge Honorary Degree Programs and Prince Philip Chancellor  
 Installation Order of Proceedings, June 10, 1977  
 Trinity College Garden Party Invites and Lunch Menu, June 10, 1977  
 Honorary Degrees Memorabilia Inventory, October 1988  
 Georgetown Degree, May 27, 1979  
 University of St. Andrews Academic Ceremony for the Conferment of Degrees, Event  
 Program, July 1980  
 Letter and Coins Mounted in a Shadowbox from *Electronics Magazine*, 1980  
 Golden Key Honor Society, March 3, 1982  
 Washington Award, February 23, 1983  
 Washington Award Banquet Program, February 23, 1983



Box 143:

## AWARDS AND HONORS [2022]

IEEE Centennial Medal and Convocation Programs and Newspaper Article on the  
National Academy of Engineering's 1984 Founder's Award, 1984  
Photographs, Articles and Instructions Regarding Adding Street Signs in Tek Beaverton,  
1984  
John Bardeen Presidents Council Membership Certificate and Letter, February 1984  
Golden Omega Award, October 7, 1987  
The American Philosophical Society Meeting Program and Attendee List, Alumni  
Society of the School of Engineering Dinner Program and Sticker, the National  
Inventors Hall of Fame booklet, 1988-1989  
Illinois Jubilee, Sony Corporation, and Family Letter, 1989  
Honors + Awards, 1990  
EPCOT Poll Person of the Century, January 1990  
Third Century Awards Program, May 10, 1990  
The Board of Trustees of the University of Illinois, Resolution Honoring John Bardeen,  
1991  
The Board of Directors, University of Illinois Foundation, Tribute to John Bardeen, 1991  
The University of Illinois, College of Engineering, Memorial to John Bardeen, 1991  
National Academy of Science, Tribute to John Bardeen, May 3, 1991  
University of Illinois Foundation, Tributes to John Bardeen, June 26, 1991  
*Journal of Superconductivity* Volume 4, Number 5, October 1991  
Bardeen Quadrangle and Memorial Garden Materials, 1999  
U.I. Bardeen Memorial, 1999, 2004  
Bardeen Quadrangle Dedication Program, October 14, 2004  
Photo of *News-Gazette* Article on Bardeen Quad, 2004  
*The 2005 Commemorative Stamp Yearbook*, 2005

Box 144:

## AWARDS AND HONORS [2022]

*Guide to U.S. Stamps* Updated Stamp Values, 32nd Edition, 2005  
USPS Philatelic Agreement, June-July 2006  
Correspondence Concerning John Bardeen Stamp, 2006, 2008  
Stamp Program Verification Form and Product Examples, August 2007  
BCS 50th Anniversary, Conference Program, October 2007  
2008 Collection of Commemorative Stamps, 2008  
American Scientists Stamp Books, 2008  
Correspondence on 2008 USPS Stamp Program, 2008  
First Day Covers  
John Bardeen Envelope Sets and Pins of Stamps, 2008

Materials used for the John Bardeen Stamp and First-day Cover, Part 1 of 5, 2008  
 Materials used for the John Bardeen Stamp and First-day Cover, Part 2 of 5, 2008  
 Materials used for the John Bardeen Stamp and First-day Cover, Part 3 of 5, 2008  
 Materials used for the John Bardeen Stamp and First-day Cover, Part 4 of 5, 2008  
 Materials used for the John Bardeen Stamp and First-day Cover, Part 5 of 5, 2008  
 Undeliverable Letters from William Bardeen to Extended Family, 2008  
 USPS Covers Distribution Address List, 2008  
 Articles on John Bardeen Stamp, March 2008  
 American Scientists Stamp Books, First-Day Covers, Display, March 2008  
 Souvenirs and Letters Concerning the American Scientists First-Day Ceremony, March 2008  
 American Scientists Stamp Program Information and Correspondence, Part 1 of 3, April 2008  
 American Scientists Stamp Program Information and Correspondence, Part 2 of 3, March 2008  
 American Scientists Stamp Program Information and Correspondence, Part 3 of 3, 2008

Box 145:

AWARDS AND HONORS [2022]

*Guide to U.S. Stamps*, 35th Edition, 2008  
*2008 Commemorative Stamp Yearbook*, 2008  
 University of Illinois Hall of Fame, 2010

FAMILY [2022]

Bangkok, Klong, Rivers, Boats, and a Saw Mill, Photos and Negatives  
 Bangkok Trip Photos  
 Bardeen Family Photos and Holiday Card  
 Charles Russell Bardeen 25th Anniversary, Event Program  
 Charles Russell Bardeen's Diary, Letters, and Photo  
 Childhood Photos of Jim and Bill Bardeen  
 China Trip Photos: John Bardeen, Mike Shakin, and Dave Dexter  
 Christmas Cards from Masako and Kazumi Maki and from Hajimu and Sachiko Kawamura  
 Elephanta Caves and Park Photos and Negatives  
 Family of Dr Ralph and Elizabeth Patterson Maxwell (Hair Bows)  
 Photo Identification List  
 Family Photos, Part 1 of 4  
 Family Photos, Part 2 of 4, Electric  
 Family Photos, Part 3 of 4  
 Family Photos, Part 4 of 4

Box 146:

## FAMILY [2022]

Gaylord Photos  
 Golf Group Photo  
 Holiday Cards from Physics Department, Henschel Family, and Ryugo Kubo  
 Jane and John Bardeen at Various Events  
 Jane and John Photo Close-ups by Roy Blackshear  
 Jane M. Bardeen Membership to the University of Illinois Presidents Council  
 Letter to Jane (Possibly from Mary and Eugene)  
 Marjorie Gaylord Bardeen Life Membership to the University of Illinois Presidents Council  
 Maxwell and Bardeen Photos and Inventory List  
 Maxwell Family Photos, Mostly Betty Maxwell  
 Maxwell Photos at Washington, PA  
 Mrs. C. R. Bardeen and Japanese Art  
 New Delhi Negatives  
 Nihon University Photo Album  
 Photo of Jane Bardeen and Two Others  
 Photocopies of CW Bardeen Portrait  
 Photos of Charles Russell and Charles William Bardeen  
 Photos and Negatives of Mysore Temple and Mylapore Temple  
 SAS Pilot with John and Jane Bardeen  
 William A. Bardeen Life Membership to the University of Illinois Presidents Council  
 Charles Russell Bardeen Letters to Charles William Bardeen (Copies), Part 1 of 3, 1874, 1889-1923  
 Charles Russell Bardeen Letters to Charles William Bardeen (Copies), Part 2 of 3, 1874, 1889-1923  
 Charles Russell Bardeen Letters to Charles William Bardeen (Copies), Part 3 of 3, 1874, 1889-1923  
 Charles Russell Bardeen Obituary, Letters, and References to him, 1886, 1974, 1994-1995

Box 147:

## FAMILY [2022]

Letters Concerning Patterson Revolutionary War Service, 1911  
 Charles Russell Bardeen Publications and Letter to Ann Bardeen Henschel, 1916, 1924, 1933, 2000  
 University of Wisconsin Medical School Archives, Materials on Charles Russell Bardeen, 1920-1921, 1948, 1967, 1993  
 Charles Russell Bardeen Trust Statements and Tax Forms, 1926, 1929-1930, 1934-1957  
*The Wisconsin Medical Journal*, Volume XXXIV, Number 7, July 1935

Bardeen Genealogy, Ann Bardeen H, 1938, 1976-1977, 1984  
 Jane and John Bardeen Wedding Photos, 1938  
 Negative of JRM Family 1940 by Finish Point, 1940  
 Family Expense Record, 1952-1954  
*Wellesley Alumnae Magazine*, Article on Jane Maxwell Bardeen, January 1953  
 Japan Photos and Brussels Photo, John Bardeen, 1953, 1958  
 William Bardeen Boy Scouts, John Bardeen on Committee Information, May 1954  
 Guest Lists and Menus, 1956-1974  
 Dinner Party Photos, November 1956  
*Wellesley Alumnae Magazine*, May 1957 and March 1957, 1957  
*Wellesley Alumnae Magazine*, May 1957 and *Wisconsin Alumnus* March 1957, 1957  
 Bardeen Memorial Laboratories, Addresses to Honor Charles Russell Bardeen, May 1957

Box 148:

FAMILY [2022]

Wisconsin Seminar, 1960-1961  
*Wisconsin Alumnas*, July 1960  
 Pictures of Chuck at 2 Months, ca. 1962  
 Elizabeth Ann Bardeen (Betsy) Wedding and High School Commencement, 1962, 1966  
 Inauguration of Kingman Brewster Jr. as President of Yale University Invite and Event Materials, 1964  
 Letter and Newspaper Clippings to Jane Bardeen from Mrs. K.L. McCauley, November 1965  
 Avra N. Pershing Jr., Estate of J.R. Maxwell, 1966-1967  
 Russia Trip Photo Album, ca. 1966  
 Bardeen Family Photos, Letters, and Articles, 1969, 1972, 1981, 1991-1992  
 Pictures of Aunt Betty Bardeen and Newspaper Articles, 1970  
 Tokyo Trip Flight Information, Itinerary, and Visa Requirements, 1970  
 Dr. John Bardeen Wisconsin Academy 100th Anniversary, May 7-10, 1970  
 Letter to John Bardeen From Grandchild David about a Language Arts Assignment, and 1971 Engineering Golf Outing Results, 1971, 1988  
 Family Photos and Correspondences, Part 1 of 2, 1972-1976, 1987-1992, 1997  
 Family Photos and Correspondences, Part 2 of 2, 1972-1976, 1987-1992, 1997

Box 149:

FAMILY [2022]

Jane Bardeen hosts Silver Tea for Seven Sisters Colleges, April 1972  
*Rockford Day*, Illinois vs Wisconsin Football Program, November 1972  
 Hamakaura and Friends, Visit to University of Illinois, December 1972  
 Family Photo, Christmas Card from the Slichters, 1973  
 Junior Physics Wives, Photo and Letter, 1973, 1977

Note to Jane from Helen Levine and Article on John Bardeen, February 1973  
 "Properties of Black Holes Relevant to Their Observation" by James M. Bardeen,  
 September 1973  
 Visit to Delco Electronics in Kokomo Indiana, September 1973  
 Ladies Program, London, October 2-3, 1973  
 Letter to Ruth from Jane Bardeen, November 3, 1973  
 Pictures at Dukes, Summer 1974, playing jacks, 1974  
 Alexander von Humboldt Foundation Certificate Awarded to William A. Bardeen, ca.  
 1976  
 Thomas Bardeen Family Group Photo and Letter from Tom and Trix Bardeen, ca. 1976  
 Photos of Champaign-Urbana, Vermont, and New Delhi, 1976  
 Visit to Karl Seeger, September 1976  
 Himeji Castle, Mikimoto Pearl Island, Skyline Connecting Ise and Toba, Photos and  
 Negatives, ca. 1977  
 Itinerary for Japan Trip, 1977  
 Indian Institute of Technology Madras Newsletter and Wedding Photos, 1977  
 Osaka University News and Photos, 1977  
 University of Delhi and Indian Institute of Science Photos, January 1977  
 Clippings on John Bardeen Research and Awards, Blizzard of 1978, and Marge Bardeen,  
 Photo of Marge Bardeen, 1978, 1989-1990  
 Ernest Henchel Investment, 1978  
 Pictures of August-November 1978 Trip, 1978  
 Archipiélago Los Roques Tourist Guide, Articles (Spanish), and Telegrams, March 1979  
 Portraits of Boys, November 1979  
 Informational Booklet on The University of Tsukuba, 1980  
 Japan Photos, 1980, 1983  
 Copy of Thomas Bardeen Death Certificate, December 1980  
 Trip to Japan, Photos and Newspaper Clippings, 1982  
 Article on National Merit Semi-Finalists, Karen Bardeen, September 1982  
 Family Photos and a Postcard, 1982-1983, 1986  
 Glenbard West Commencement Program and *FermiNews* URA Scholarship, 1983  
 Jack Allen's Letters to Jane Bardeen, 1983, 1992  
 IEEE Annual Awards Program, University High School Reunion Program, *FermiNews*  
 "Astrophysicists Host Spacey Conference," and Article on *Spectrum* Magazine  
 Recognition of John Bardeen and William L. Everitt, 1984-1985

Box 150:

FAMILY [2022]

Descendants of Thomas Bardeen and Hannah Nelson, 1987  
 State Retirement SURS, 1987, 1994-1995  
 Distribution and Executrix Account, Elizabeth Patterson Maxwell, 1988

Account of Jane M. Bardeen, Executrix of Estate of Elizabeth Patterson Maxwell, July 1988  
 1990 Senile Sixteen Golf Schedule, 1990  
 Articles on Mrs. McCollum Court Case and Dr. R. J. Maxwell, 1990  
 Photos with Friends and Family, 1990  
*Trapeze*, Karen Bardeen New Chemistry Teacher, September 1990  
 Bardeen Genealogical Materials, 1991, 2004, 2007  
*Centennial History of the Department of Electrical and Computer Engineering 1981-1991* and Letter to Jane Bardeen, 1991-1992  
 Family Photos including Handler Wedding Reception Photo, ca. 1991  
 John Bardeen Obituary and Jane Bardeen Biography, 1991, ca. 1999  
 Picture for Jim, Bill, and Betsy, ca. 1991  
 World Heritage Museum, 1991  
 Letter from Flynn, Palmer, Tague and Lietz Law Firm on Equitable Insurance, April 1992  
*Quarterly*, The Wisconsin Medical Alumni Magazine, Fall 1992, 1992  
 Frederick Seitz Dedication, Letter and Photos, September 1993  
 Correspondence Between Bardeen Family and the University of Illinois Archives, 1996, 1999  
 American Physical Society Award, William Bardeen, May 1996  
 Email Update on Jane Bardeen from Betsy Greytak, February 1997  
 Notification of Jane Bardeen's Passing, 1997  
 Materials related to Jane Bardeen's Passing, 1997-1999  
 The Board of Directors, University of Illinois Foundation, Tribute to Jane M. Bardeen, 1997  
 Charles Russell Bardeen Bust Photos and Letter, May 1998  
*Fermi News*, Volume 21 Number 17, August 28, 1998  
*AlumUni*, Fall-Winter 1999-2000, Vol. 5 No. 1, 1999  
 University of Wisconsin-Madison Greeting Card and Charles Russell Bardeen Bust Photos, ca. 1999  
*A Chronology of the John Simon Guggenheim Memorial Foundation* and Article, 2000  
 National Academy of Sciences Membership, William A. Bardeen, Part 1 of 2, 2000

#### Box 151:

#### FAMILY [2022]

National Academy of Sciences Membership, William A. Bardeen, Part 2 of 2, 2000  
 Transistor Event at the National Academy of Sciences, April 2000  
 Email on John Bardeen, Personal Hero, December 2001  
 Email on Romance Novel *Finally Home*, 2002  
 William A. Bardeen University of Minnesota Honorary Degree, 2002  
 Letter to Bill Marge, Jim, Nancy, and Tom from David on Upcoming Events, ca. 2004  
 Email on Bardeen Film, 2005  
 Email on Policy on Fermilab Scientific Appointments, 2006

Letter and Articles on Transistor Improvements, 2008  
 Russian Newspaper Article with an Image of William Bardeen, ca. 2016

#### PUBLICITY [2022]

Article on John Bardeen and BCS  
 Articles on UR Dedication and BCS Theory  
 Sherwin Gooch's Account of John Bardeen's Lecture  
 Three Men Who Changed Our World - 25 Years Later  
 Articles on Bell Labs, John Bardeen, and Transistors, 1945, 1948  
 Letters and Articles on John Bardeen and Transistors, 1946, 1948, 1951-1953  
 50th Birthday Signs and Transistor Articles and Press Releases, 1947-1948  
 Bell Labs Press Releases, and Articles on the Transistor and John Bardeen, 1948, 1952-1953  
 Transistor Articles and Photos and Bell Labs Press Release, 1948  
 Bell Labs Press Releases, July 1, 1948  
*Chemistry* A Science Service Publication, August 1948  
*Physics Today* August 1948, and *Scientific American* September 1948, 1948  
*Electronics* Magazine, Letter, and Copies of the Magazine Cover, September 1948  
 Articles on Nobel Events and Program on the 1952 Franklin Institute Awards, 1952, 1972, 1975, 1992  
 News Article on Bardeen Receiving American Physical Society Buckle Prize, 1954

#### Box 152:

#### PUBLICITY [2022]

Union College, June 13, 1955  
 Newspaper Clippings on Nobel Family, Prizes, and Events (Norwegian, Swedish, Danish) and Jefferson National Expansion Memorial Info, 1956-1957  
*The Reporter*, November 1956, and Semiconductor Devices Convention Program, 1956, 1959  
*Semiconductor Products*, May/June 1958 and *The Scientific Monthly*, January 1957, 1957-1958  
*Telebriefs* Vol. XIX No. 1, January 1957  
 Illinois Advanced Study Center (Clippings 1950s, Part 1 of 2), ca. 1959  
 The Christian Science Monitor, Transistor Article, (Clippings 1950s, Part 2 of 2), April 16, 1952  
 Transistor Articles, 1961, 1968  
 Cinquante Ans Avec Le Progrès 1911-1961 by Manufacture Belge de Lampes et Matériel électrique (M.B.L.E.), ca. 1962  
 Cargese (French), 1962  
 Robeson's Honors the Very Important People of Our Own Champaign-Urbana, 1962

Scholastic Honors Day Convocation and 39th Annual Honors Day (Clippings 1960s, Part 1 of 7), 1960, 1963  
 Articles, Photos, and a Letter on John Bardeen (Clippings 1960s, Part 2 of 7), February 11, 1963  
 "Bardeen Is Magnavox Club Speaker" article (Clippings 1960s, Part 3 of 7), April 27, 1963  
 National Medal of Science (Clippings 1960s, Part 4 of 7), December 12, 1965  
 Materials Related to the Expo 58 (Clippings 1960s, Part 5 of 7), 1958  
 60th Birthday (Clippings 1960s, Part 6 of 7), May 23, 1968  
 Info on Center for Advanced Study, Rockefeller University Luncheon Program and Installation of Frederick Seitz (Clippings 1960s, Part 7 of 7), 1967-1968  
 "Man Behind the News," *Electronic News*, Mounted News Article, 1963  
 Articles on University of Illinois' Economic Impact on Illinois, Events the Bardeens Attended, London Award, and Science Awards, 1963-1965  
 John Bardeen Receives Bendix Award, Article, 1964  
 Scientific Accomplishments Joseph Tykociner, Frederick Seitz, John Bardeen, and Eugene Rabinowitch 1965  
 John Bardeen Presentation, (Finnish) Newspaper Clipping, 1966  
 Article on Dwindling Research Funding for Physicists, May 1968  
 Clippings 1971, 1971  
 Japanese Science Magazine, ca. 1971  
 John Bardeen's Choices, Newspaper Clipping, March 1971  
 Pictures and Clip of visit to Walla Walla, March 1971  
 AT&T Shareholders Quarterly, Winter 1972, 1972  
*Electronic Design*, Vol. 20 No. 24, November 23, 1972

Box 153:

PUBLICITY [2022]

Advertisement Article Draft on the Invention of the Transistor (Transistor 1970s, Part 1 of 3), ca. 1973  
 Transistor 1970s, Part 2 of 3, January 21, 1973  
*Bridge of Eta Kappa Nu* magazine, *Semi News* Vol. 4, No. 1, and *Sixteen on the Silicon Age* (Transistor 1970s, Part 3 of 3), 1973, 1977  
 Articles, Letters, and Programs on the Invention of the Transistor, William Shockley, and John Bardeen, 1973  
 Article on John Bardeen (Japanese), 1973  
 Clippings 1973, 1973  
*Proceedings of the IEEE* Vol. 61, No. 1, January 1973  
*The Bridge Magazine* Eta Kappa Nu Vol. 69, No. 2, February 1973  
*Sunday Review of the Sciences*, March 1973  
*Princeton Alumni Weekly* Physics at Princeton, October 1973  
*Independent Florida Alligator*, John Bardeen Lectures on Solid State Physics, January 1974



Clippings 1974, 1974  
*Patentalk* Bulletin No. 216, March 1974  
*Chicago Tribune Magazine*, August 25, 1974  
 Clippings 1975, 1975  
*Uusi Suomi* (Finnish), December 16, 1975  
 Clippings 1976, 1976  
 10 Greatest American Scientists, 100 Most Significant Discoveries, Letter, and Press Release, 1976  
*Industrial Research*, Volume 18 Number 10, October 1976  
*Industrial Research* Volume 18 Number 11 and 12, November 1976  
 Clippings 1977, 1977

Box 154:

PUBLICITY [2022]

Clippings Japan India, 1977  
*The Hindu*, Meet Professor John Bardeen, January 1977  
 Clippings 1978, 1978  
 Clippings 1979, 1979  
 Clippings on John Bardeen's Career, 1979  
*China Exchange News* Volume 8, Number 3-4, 1980  
 Clippings 1980, 1980  
 Hatoyama Book, Print and Floppy Disc, ca. 1980  
*Chicago Tribune*, Tempo, John Who article, January 1980  
 Clippings 1981, 1981  
 Article on John Bardeen Honored in Mother's Day Sing, April 1981  
 Articles on Decline in Scientific Research and Inflation, April 1981  
*Denver Post*, John Bardeen Active at 72, June 1981  
 Medical Center Alumni News, Volume 37, Number 2, October 1981  
 Clippings 1982, 1982  
 Bardeen Visits China and Taiwan, Clippings from *China Post* and *The China News*, April 1982  
 USSR Science Academy, October 1982  
 Clippings 1983, 1983  
 Transistor 1980s, Part 1 of 2, 1984, 1987  
 Transistor 1980s, Part 2 of 2, 1987, 1989  
 Clippings 1984, 1984  
 Clippings 1985, 1985  
*On the Surface*, Article on John Bardeen, October 18, 1985  
 Clippings 1986, 1986  
 Articles on Superconductors, Transistor's 40th Birthday, Bardeen's Lomonosov Gold Medals Win, and Sony Honoring Bardeen, 1987

Box 155:

## PUBLICITY [2022]

Clippings 1987, 1987  
 "101 More Things Every College Graduate Should Know", American Heritage,  
 December 1987  
 Clippings 1988, 1988  
*IEEE Spectrum*, Vol. 25 No. 11, Special Issue, 1988  
 University of Illinois Urbana-Champaign, *Department of Physics News*, 1988  
 Star-Bulletin, Article on Roy Blackshear's Phone Collection, December 4, 1988  
 Clippings 1989, 1989  
 Sony Gift to Honor John Bardeen, Article Photocopy, October 1989  
 Articles on John Bardeen Lab Dedication, Biography, Working at Age 81, and  
 Transistors, 1990  
 March 31, 1991 Article on John Bardeen's Impact (Clippings 1990s, Part 1 of 5), March  
 1991  
 January 3, 1990 Note and Clippings to John Bardeen from Michele M. Thompson  
 (Clippings 1990s, Part 2 of 5), January 1990  
 January 6, 1990 Clipping on John Bardeen Working at Age 81 (Clippings 1990s, Part 3  
 of 5), January 1990  
 April 9, 1990 Third Century Award, Foundation for a Creative America (Clippings  
 1990s, Part 4 of 5), April 1990  
 September 1, 1990, 100 Most Influential Americans of the 20th Century (Clippings  
 1990s, Part 5 of 5), September 1990  
*Engineering Today*, College of Engineering, Fall, 1990  
*Illinois Quarterly*, Article on Larry Kanfer, Department of Physics News, and *Physics  
 Today*, 1990, 1992  
 Clippings re John, 1991  
*Parity Magazine*, November 1992  
*Newsweek Extra*, Winter 1997-98, The Power of Invention, 1997  
*Scientific American*, Special Issue Solid-State Century, January 1998  
*Newsweek Extra*, February 9, 1998  
 Smart Computing Reference Series, *Computing Encyclopedia*, Volume 5: People, 2002  
*Washington Section*, 1940s-1950s Recollections Article, January 2, 2005  
*The New York Times*, Science Times, January 8, 2008

## SUBJECT FILE [2022]

Article and Photos on Sony Chairman Akio Morita  
 Bardeen Transistor Postcards  
 Blank Postcards from Spain  
*Champaign-Urbana Courier*, Article on Einstein  
 Dinner for Weizmann Institute  
 Dinner Party Photos

Distinguished Members of the Laureate Circle and the Consular Circle of the University  
of Illinois  
Ehrenfest Article in Encyklopaedie d.M.W.

Box 156:

SUBJECT FILE [2022]

*Electric Circuit Equations* by Edward Bennett, University of Wisconsin  
*Weaver's Electrodynamics*, University of Wisconsin  
General Motors Patent Commission Event Photos  
Group Photo of Leon Cooper, John Robert Schrieffer, and John Bardeen  
Haloid Xerox Information Guide  
Harmer Paintings Price List  
John Bardeen and Hiroyoshi Yanai, Tokyo  
John Bardeen, Harold Scheraga, and Myron Tribus Autographed Group Photo  
John Bardeen at Supertex inc.  
John Bardeen at Various Events  
John Bardeen Photos  
John Bardeen Xerox Event Photos  
*Kayhan*, International Edition, "Giving research more substance"  
Ken McCauley Photo and Pandl's Inn Info  
Korean Physical Society, Electron-Phonon Interaction in Solids Event Program (Korean)  
Letter and Photos on Conference in Hungary  
Materials for Talk on Nobel Prize Events  
Meeting Honoring Bill McMillian Family, Reception Invites  
Monterey Peninsula Tourist Information  
Nanako Yamada and Japanese Prints  
Nobel Meeting at Lindau, Photos  
Offprint List

Box 157:

SUBJECT FILE [2022]

Old Engravings, State Historical Museum, Madison WI. Booklets + History Postcards  
Photo Album from Siemens-Schuckertwerke A.-G. to John Bardeen  
Photos of Delhi National Physics Lab  
Photo of John Bardeen, University of Maine  
Photo of John Bardeen and Len Brillson, Xerox  
Photo of Mr B. and Roy, USSR  
Photocopies of Historical Images from the 72nd Nobel Prize  
Photos of John Bardeen, Holonyak, Jordan, and Henry M.

Photos of John Bardeen Talking to an Unknown Person  
 Platform Party List, Name Tag Information  
 Polykarp Kusch's Experience Winning the 1956 Nobel Prize  
 Postcards of Rockefeller University and Racine, Wisconsin  
 Scott Forbush Interview, Newspaper Article  
 Sobrino de Botín, Iberia and Postcard Menu  
 Stamps and Mailing Letter (Japanese)  
 The Saga of an Expedition to Stockholm, Sweden, December 1956 by W. H. Brattain  
 The Smithsonian Time Machine Article  
 Three Slides, John Bardeen, The Superconductors (FRAGILE BROKEN GLASS SLIDE)  
 Toledo Visiting Card  
 Transistor as Alien Technology Comic  
 Transistor Revolution Poster, State of the Art Illinois  
 Type A Spare for Bell Labs Oscillator-Amplifier Image  
 White House Committee Group Photo  
 Ready Reference Map of Washington D.C., ca. 1944  
 Naval Ordnance Laboratory Report, Science Service, Washington Post Article, and a  
 Calendar Holder, 1945, 1952, 1963, 1967  
 American Telephone and Telegraph Company 1948 Annual Report, Bell Labs December  
 1948 Record, and Photos, 1948  
*Popular Science* Monthly, September 1948  
*Atomic Physics* by Max Born, Fifth Edition, ca. 1951

Box 158:

SUBJECT FILE [2022]

1952 Annual Report of the American Telephone and Telegraph Company, 1952  
 Miyagi, Japan, Industry and Tourist Guide, 1952  
 Bell Labs Transistor Course, June 1952  
 1956 and 1953 Annual Report of the American Telephone and Telegraph Company,  
 1953, 1956  
 Brief History of The Research Institute for Iron, Steel and Other Metals, Tōhoku  
 University, ca. 1953  
 Delegates to International Conference on Theoretical Physics, Dinner Program, 1953  
*Electrical Resistivity and Thermionic Emission of Silicon* by Leo Esaki, Reprint, 1953  
 Excursion to Nikko Itinerary, Symposium on Crystal Dislocation, ca. 1953  
 International Conference on Theoretical Physics, Event Program, ca. 1953  
*Introducing Kyoto University*, Campus Map, 1953  
 John Bardeen Dinner Invites, Japan Trip, 1953  
*Nara and Its Suburbs*, Tourist Guide and Map, ca. 1953  
 Osaka, Japan, Industry and Tourist Guide, 1953  
 Osaka University, Department of Physics Information and Tour Itineraries, ca. 1953  
 Park Hotel and Kanko Hotel Brochure, Japan, ca. 1953

*Properties of Thermally Treated Germanium* by Leo Esaki, Reprint, 1953  
 Sightseeing Locations and Itineraries, Information on Bunraku, 1953  
 Event Invites, Information on Historical Locations, and Letter to Jane, Japan Physics  
 Conference, September 1953  
*Nippon Times*, Physics Conference, September 15, 1953  
*Nippon Times*, No. 19606, Physics Conference, September 16, 1953  
*The Mainichi*, no. 10959 and no. 10958, and Group Photo, Japan Conference, September  
 18-19 1953  
*The Mainichi*, No.10960, September 20, 1953  
*The Mainichi*, No. 10961, September 21, 1953  
*The Mainichi*, No. 10962, September 22, 1953  
*The Mainichi*, No. 10963, September 23, 1953  
*The Mainichi*, No. 10964, September 24, 1953  
*The Mainichi*, No. 10965, September 25, 1953  
*The Mainichi*, No.10966, September 26, 1953  
*The Mainichi*, No. 10967, September 27, 1953  
*Physics Today*, December 1953 Vol. 6 No. 12, and *American Scientist*, January 1954  
 Volume 42 Number 1, 1953-1954  
 John Bardeen Pictures and Coin, 1954, 1972-1973  
*Illinois Alumni News* Volume XXXIII, Number 2, February 1954  
 Conference on Photoconductivity, Group Photo, November 1954  
 Articles on Eugene Wigner's Passing, Alison Krauss, Student Aid at UI, Bardeen Nobel  
 Prize Win, and The Burnham Athenaeum Law Firm, 1955  
*The Milwaukee Journal*, Solar Power, October 30, 1955

Box 159:

SUBJECT FILE [2022]

1958 International Conference on Semiconductors, 1956, 1958  
 La Nouvelle Tauromachie par Giovannella; Supertex 1987 Annual Report; Wildflower  
 Information Guide; Monterey Bay Empire Guide and Map, 1956, 1965, 1980,  
 1987  
 Metropolitan Opera Libretto Aida, ca. 1956  
 Sweden 1957 Planner, ca. 1956  
 Sale Slips, December 1956  
 Illinois State Normal University, Centennial Program, 1957  
 Nobel Laureate Day, Wellesley Article on Jane Bardeen's Experience at Stockholm,  
 Article on Swedish Royal Family, 1957  
 Wheeler Loomis Retirement Information and Letter from the University of Illinois  
 President, Joan Hunter, About the Previous Year, 1957  
 Illinois State Academy of Science, 50th Annual Meeting Program, May 1957  
 The Executives' Club of Chicago, October 1957

Article on International Conference on Semiconductors and Info on Transistor Progress, 1958  
 Haloid Xerox Articles and Programs, 1958, 1961  
 Industry Day Program at Semiconductor-Components Division Plant and Transistor Article, 1958  
 Superconductivity Conference Cambridge, 1959  
 Article on Haloid - Xerox, 1960  
 Haloid Xerox Research and Engineering Center, Opening Materials, 1960  
 Prague Conference 1960, 1960  
 Pictures and Clippings on Detroit Symposium, October 22, 1960  
 Materials on Communism and the European Union Part 1 of 2, 1961-1964  
 Materials on Communism and the European Union Part 2 of 2, 1961-1964

Box 160:

SUBJECT FILE [2022]

Materials on Communism, European Union, and Baixa de Cassanje Revolt (Warning: *On the Morning of March 15* contains graphic imagery and descriptions), 1961-1965  
 Physics Symposium in Michigan, Reprint from Physics Today, March 1961  
 Center for Advanced Study Photo and Banff Summer School Photo, 1962-1963  
 Materials on Communism and the U.S., 1962-1964  
 Xerox Corporation Annual Reports and Info on Concepts in Graphic Communication, 1962-1964  
 Event Photos, John F. Kennedy, April 1962  
 Invitation to the 12th Meeting of Nobel Prize Winners in Lindau, June 1962  
 Reception and Testimonial Dinner for Doctor Frederick Seitz, September 24, 1962  
 British Railways Travel and Map Folder, 1963  
 London Travel Guides, 1963  
*Los Alamos beginning of an era* 1943-1945, and *Bulletin of the Atomic Scientists* April 1963, 1963, 1986  
 National Academy of Sciences, Centennial Convocation, 1963  
 Recommendation and The Dorchester Matchbooks, ca. 1963  
 Wyndham and Aldwych Theatre Programs and Pierre Monteux Orchestra Program, 1963  
 Xerox 1963 Planning Conference, Delegates and Wives List, 1963  
 Xerox Dinner Invite and Table Plan, 1963

Box 161:

SUBJECT FILE [2022]

Xerox Conference in London 1963 Part 1 of 2, 1963  
 Xerox Conference in London 1963 Part 2 of 2, 1963  
 Nobel Dedication, May 4, 1963  
 Article on Xerox and Xerox Report V on Communication, 1964, 1988

*None Call it Treason* Evaluation and Materials on Carole for Another Christmas, 1964  
 "Prefatory Chapter" by Joseph Erlanger, Article Reprint, 1964  
*You and Xerox: a handbook for Xerox people*, January 1964  
 Xerox Educational Communications, Report and Recommendations, March 1964  
 Edith London Art Catalogue, April 1964  
 Recent Trends in Soviet Scientific and Technical Education, Committee on Education and Labor, August 1964  
 Haloid Research and Engineering Center Articles and Press Releases, November 1964  
 Xerox Research and Engineering Center Dedication, Symposium, and Five-Year Plan Review, November 1964

Box 162:

SUBJECT FILE [2022]

175th Anniversary of the U.S. Patent System, ca. 1965  
 HBS Bulletin, January-February 1965  
 Xerox Notice of Annual Meeting and Proxy Statement, April 1965  
 Big Xerox Tent Show, May 1965  
 Photos of John Bardeen at an Event in Lindau, Germany, July 1965  
 Photos of National Inventor Council and President's Commission on the Patent System, 1966-1967  
 John Bardeen Moscow, September 1966  
 National Academy of Sciences 104th Annual Meeting, Scientific Program, 1967  
 The Centennial Year Annual Report 1867-1967 University of Illinois Foundation, ca. 1967  
 Université de Grenoble, Ecole d'été de Physique théorique (French), ca. 1967  
*The New York Times* Dr. J. Robert Oppenheimer Obituary, February 20, 1967  
 National Academy of Sciences, Sightseeing in Washington D.C, April 1967  
 Articles on Lyndon B. Johnson, Vietnam and Reporters in the Blue Room, April 27, 1967  
 Alfred Nobel and the Nobel Prizes Booklet, Lists of Nobel Laureates, 1968, 1971-1973  
 APS Washington, D.C., Photo of Bardeen, Handler, and Havens, 1968  
 Honorary Degree of Doctor of Science Awarded to Dr. J. George Harrar, Newspaper Clipping, 1968  
 The Centennial Train, Walking Tour Guide, 1968  
 Historical map of Scotland, August 1968  
 Russian Takeover, Appendix, Special Issue, August 26, 1968  
 International Conference on the Science of Superconductivity, Participants Roster, August 1969  
 Clipping 1970, Ohio Science Education Association, May 1970  
 12th International Conference on Low Temperature Physics, Participant List and Photo, September 1970  
 Dinner for John H. Dessauer, Event Program and Menu, September 29, 1970  
 Wisconsin Academy of Sciences Centennial Awards and Celebration, May 9, 1970

Seminar to Honor Professor Eugene Paul Wigner's Retirement, Event Program, ca. 1971  
 Photo of Joe Remington, Joe Flavin, and John Bardeen at Palm Beach, March 1971  
 Joseph C. Wilson (Xerox) death, November 23, 1971  
 25th Transistor Birthday, Part 1 of 4, 1972-1973  
 25th Transistor Birthday, Part 2 of 4, 1972-1973  
 25th Transistor Birthday, Part 3 of 4, 1972-1973  
 25th Transistor Birthday, Part 4 of 4, 1972-1973  
 Badger Bell, Wisconsin Telephone Inserts, 1972-1973  
 BCS Signatures and Portraits of John Bardeen, 1972  
 Duke University Press Release on Fritz London Memorial Fund, 1972

Box 163:

SUBJECT FILE [2022]

*The Daily Illini* February 14, 1975, *The News-Gazette* 121st Year No. 130, and  
 Newspaper Clippings, 1972-1976, 1982-1983  
 Group Photos of Pake, Tribus, Tyler, Bardeen, and Rochester, October 25, 1972  
*Science*, Vol. 178 No 4059, October 27, 1972  
 Souvenir of University Dinner for 3 Superconductors, October 28, 1972  
*Expressen*, Nobel Prize Article (Swedish), December 11, 1972  
*Dagens Nyheter*, "Nobelfamiljerna hos kungen" (Swedish), December 12, 1972  
 Articles on John Bardeen, 1973 Nobel Prize, and Swedish Parliament, 1973-1974  
*Mines against Japan* by E.A. Johnson and D.A. Katcher, Naval Ordnance Laboratory  
 (NOL), 1973  
 Reprints on Arthur Becket Lamb, Carnegie Foundation Discussion, and Physics at the  
 University of Illinois, and July 1991 *Illinois Quarterly*, 1973, ca. 1978, 1991  
*Time Magazine* Special Anniversary Issue, The Most Amazing 60 Years in History, 1973  
*European Scientific Notes*, Office of Naval Research London, February 28, 1973  
 John Bardeen, David Henry, and Guy Stever Group Photo, March 1973  
 SPS Newsletter, Volume V, No. 4, March 1973  
 Engineering Open House Booklets, March 16-17, 1973  
 Americana of New York Annual Banquet Program, IEEE Special Awards Luncheon  
 Invite and Program, March 27, 1973  
 Symposium in Honor of Cecil T. Lane, Photo and Certificate, April 1973  
 75th Anniversary of the American Physical Society Calendar, 1974  
 Info on the Royal Swedish Academy of Sciences and Address Transcript on Living on  
 Earth's Terms, 1974  
 Technology Report (German), 1974  
 Xerox Corporation Shareholder Meeting Program and Employment Breakdown, 1974  
*Alumni News*, University of Minnesota, January 1974  
 Franklin Institute, The Franklin Medal, Award Program and Articles on John Bardeen's  
 Retirement, 1975



Box 164:

## SUBJECT FILE [2022]

Nobel Lecturers, Event Programs and Articles on Research, 1975, 1978  
Nobel Foundation 75th Anniversary, General Info, Earlier Laureate Event Programs, and Articles, 1975  
Nobel Foundation 75th Anniversary Speech Translation, Menus, Programs, and Pamphlets, 1975  
Nobel Seating Chart and Menu, 1975  
Magazine Page Depicting the British Royal Family, Belgium's King Baudouin and Queen Fabiola, and Queen Juliana of the Netherlands and husband Prince Bernhard, ca. 1975  
The Japan Academy, Guide and Members List, 1975  
Georgetown University *A Pictorial Review*, 1976  
Reprint The Scientist's Code by Andre Cournand and Michael Meyer , 1976  
John Bardeen with King of Sweden at University of Chicago, April 1976  
Letter and Photos Relating to SEMICON/West Banquet, 1977  
Pink Tinted Photos, 1977  
The Indian National Science Academy, Talk Invite, 1977  
University of Delhi Convocation Hat Measurements and Custom Stationary, 1977  
50th Anniversary of Bossestatistics, International Conference of Theoretical Physics Photos, January 1977  
Council of the Institute of Electronics and Telecommunication Engineers, Lecture Invite, January 1977  
India, January 1977  
International Conference on Frontiers of Theoretical Physics and Winter School Programme, January 1977  
Bombay Photos, February 1977  
*The Visitor*, Visiting Nurse Association of Milwaukee, February 1977  
Sony Research Center, March 9, 1977  
Article on Silver Jubilee of Elizabeth II from *The Sunday Times*, June 1977  
Honeywell Corporate Technology Center, Event Agenda and Golf Scorecard, June-July 1977  
*Physics Bulletin*, December 1977  
University of Illinois Urbana-Champaign Commencement program and article, Newspaper clippings on Bardeens and the blizzard of 1978, Nobel Hall of Science Pamphlet and Article, 1978  
Articles on Blizzard of 1978 in Illinois, January 1978  
Bell Labs Party, April 1978

Box 165:

## SUBJECT FILE [2022]

Cards, Articles, Photos, and Name Tags Relating to Shanghai Lecture Trip, 1980  
 Fudan University, Shanghai, Letter and Photos, 1980  
 Pioneers of Science, Book Information and Photo, 1980  
 Newspaper Clippings on Using Nobel Winner's Genes to Produce Nobel Winning  
 Children, April 1980  
 Sony Lab Photo, June 1980  
*Time Magazine* Special Issue, Inside the U.S.S.R, June 23, 1980  
 Nobel Convocation, 1981  
 Convocation of Nobel Laureates, Program and Articles, February 1981  
 Convocation of Nobel Laureates in Pittsburg, PA, February 1981  
 Gordon Research Conference, Holderness School, Group Photo, July 1981  
 Invite to the White House Christmas Open House, and Autographed Photo and  
 Membership Roster of the President's Science Advisory Committee, 1982  
 College of Indian Tech, Nihon University, Photo Album, May 1982  
 "Engineering researchers developing new chip off old block," *Illinois Alumni News*,  
 November 1982  
 Articles on Nuclear Arms, 1983  
 Photo Slide Set and Giovannella, ca. 1983  
 Museum of Science and Industry 20th Anniversary Conference, April 1983  
 "Antisatellite Weapons" by Richard L. Garwin, Kurt Gottfried and Donald L. Hafner, and  
 "Space-based Ballistic-Missile Defense" by Hans A. Bethe, Richard L. Garwin,  
 Kurt Gottfried and Henry W. Kendall, 1984  
 Clippings from New York Herald Tribune 1984 Reagan Campaign, 1984  
*Department of Physics Newsletter*, University of Illinois Urbana-Champaign, 1984  
 Illinois Annual Report, 1984  
 Invite to a Private Reception with 1984 IEEE President, Richard J. Gowen, 1984  
 The Institute of Electrical and Electronics Engineers Inc. Centennial Calendar, 1984  
*A Meeting to Honor William L. McMillan*, 1984-1985  
 Professor W. L. (Bill) McMillan Memorial, October 1984  
 Karlsruhe, Germany, LT 17, August 1984  
 John Bardeen and Frank Johnson, General Motors, 1985  
 Portraits of Nobel Laureates, Art Exhibition by Giovannella, 1985, 1987-1988

Box 166:

SUBJECT FILE [2022]

School of Physics and Astronomy *Self-Survey Report* Volume 1, University of  
 Minnesota, May 1985, 1985  
 Samsung Group, Honorary Luncheon Menu, 1986  
 The Institute of Electrical and Electronics Engineering, George A. Keyworth II Article,  
 February 1986  
 John Bardeen Professional Portrait, May 1986  
 14th Midwest Solid State Theory Symposium Photos, October 1986

U of I Group Photo for Retirement Event, December 1986  
*Societal Issues Scientific Viewpoints* Edited by Margaret A. Strom and Articles on  
 Sakharov and Genetics, 1987  
*BusinessWeek*, April 6, 1987  
*Time Magazine*, May 11, 1987  
 Sony 1988 Calendar/Notebook, 1988  
 World Communications Conference Materials, 1988  
*Supercurrents*, Volume 2, February 1988  
*Physics Today*, April 1988  
*Physics Today*, "Physicist as Mad Scientist", June 1988  
 Photograph, July 15, 1988  
*Physics Today*, October 1988  
 Sony 1989 Address Book, 1989  
 University Scholars Brochure, 1989  
 Draft of Shockley Obituary-Annals-Weiss, August 20, 1989

Box 167:

SUBJECT FILE [2022]

Transistor 1990's, 1990-1991  
 Contents List by Betsy, 1991  
*Scientific American*, November 1993  
 "Upper Limit on the Binding Energy of a Magnetoturbulent Supermassive Star" by James  
 M. Bardeen and S. P. S. Anand, Article Reprint, June 1996  
 Articles on John Bardeen, 1997, 2001-2002  
 Masaru Ibuka Obituary and Articles on Herbert F. Mataré, 1997, 2003  
*Time Magazine*, 75th Anniversary Issue, March 9, 1998  
*Science Magazine*, July 10 1998  
*Time Magazine*, March 29, 1999  
 Frank Yang Retirement, Letter, Speech and Photos, June 1999  
 Newspaper Articles on Werner Heisenberg and Atomic Bombs, 2000-2001  
 Article on Extra-Terrestrials and Technology, January 2000  
 "Holonyak receives Global Energy Prize from Russia" article photocopy, 2003  
 Spurlock Museum Brochure and Article on Dewey's Laboratory School, 2005  
 Article on Nick Holonyak Jr., 2007  
*Princeton Alumni Weekly*, January 23, 2008 and Copy of Influential Alumni Article,  
 2008  
 Materials Sent to Jawan Kim via C.K. Lee for Technology Expo Sent 10-28-2008, 2008  
 John Bardeen, Summit, and Walter H. Brattain Patent Info and Article on Transistor,  
 2009  
 National History Day, Group Project on the Transistor, 2010  
 Smithsonian Special Collector's Issue, November 2013

*Minneapolis Sunday Tribune* May 5, 1963, *Mankato Free Press* 77th year Number 27,  
*The Minneapolis Star* LXXXV No. 138, *Minneapolis Morning Tribune* Vol.  
 XCVI - No. 345, 1963

Box 168:

John Bardeen Portrait and Photo from an Event  
 Nobel 72 Notes, Itinerary, Address List, and Card Inserts  
 Sale of 55 Greencroft, Part 1 of 7, Abstract of Title, 1951  
 Sale of 55 Greencroft, Part 2 of 7, Closing Document, October 20, 1994  
 Sale of 55 Greencroft, Part 3 of 7, Letters and Contract, 1994  
 Sale of 55 Greencroft, Part 4 of 7, Uniform Residential Appraisal Report, 1994  
 Sale of 55 Greencroft, Part 5 of 7, Copies of Sale Documents, 1994  
 Sale of 55 Greencroft, Part 6 of 7, House Sale, October 12, 1994  
 Sale of 55 Greencroft, Part 7 of 7, Correspondence, Receipts, and Additional Document, 1994  
 Bertha B. Willett Trust Correspondence with Ann Bardeen Henschel, 1958-1959  
 Letter to John and Jane Bardeen from Lee and Sheila Rinderer, October 28, 1972  
 09-31 Bardeen's Set from Talk-Stockholm, 1972  
 State of New Jersey General Assembly Resolution, November 27, 1972  
*Vecko Journalen* (Swedish), December 20, 1972  
 Retirement Article and Nobel Photos, 1975  
 1980 Wisconsin House Appraisal, 1977, 2000  
 Venezuela Clippings, March 1979  
 Venezuelan Academy of Sciences Incorporation, Venezuela Tip, March 1979  
*Bodensee* Magazine (German), 1985

Box 169:

Seoul National University Accolade, Seoul, Korea  
 Key to Seoul and Certificate, Given to John Bardeen, 1986  
 Black Award Box  
     Coins Celebrating the 25th Anniversary of the Invention of the Transistor  
 Coin Memento of the Bicentennial Celebration of the U.S. Patents and Copyrights  
 Tie-Clasp Celebrating International Assembly Commemorating the 175th Anniversary of the  
     U.S. Patent System, 1965  
 Tie-clip Memento of the Haloid Xerox Research and Engineering Center Dedication, 1960  
 Paperweight of the Centennial Celebration of the University of Illinois College of medicine  
 KCC Medallion in a wooden Box  
*Grandma's Brag Book*, Photo Album  
 Orange Sash  
 University of Wisconsin, Life Member John Bardeen, Desk Display  
 Electrical and Computer Engineering Building Dedication, Magnets, 2014  
 Souvenir from Orthodox Cathedral (Russian)  
 Metal Medallion of a Cathedral

Box 170:

Medallions of 1972 Nobel Laureates  
Yonsei University, Seoul, Korea teaspoon set  
Brown Photo Album

Box 171:

John Bardeen Award, Shadow Box, 1994

Box 172:

Sony 6 Transistor Radio  
Panda Pocket Transistor Radio  
John Bardeen Nameplate

Box 173:

Indian Institute of Science, Ivory Statue of a Goddess, 1977

Box 174:

*Francis Chichester's London Man*  
Jane and John Bardeen Seat Name Tags, ca. 1963  
Cigarettes from the House of Commons, ca. 1963  
Custom Fan of Jane and John Bardeen  
House of Commons Matchbook

Box 175:

Yearly Calendar Diaries, 1970-1990  
John and Jane Bardeen Old Passports, Diaries, and Calendars  
Painted Metal Frog on a Ribbon

Box 176:

Bardeen Matchbook  
Nihon University, College of Engineering, Tie Clip  
Tie Tack with Chain, small square with symbol made of arrows  
Blue Rosette Pin (Engineering)  
Gold Color Sigma Pi Sigma Lapel Pin  
Indian Space Research Organisation (ISRO) Pin  
I heart Physics Pin

UIUC Physics 1890-1990 - A Century of Service Pin  
 Black Leather Pin case with National Medal of Science Pin  
 Keys to John Bardeen's Suitcase  
 Honorary Kokomoan Pin  
 Juror Champaign County Pin  
 White Box of Pins - The Rosette of the National Academy of Sciences, Blue and Silver rosette,  
     Metal Pin from International Conference on Theoretical Physics Japan, 1957, ca. 1978  
 Small plastic box with several small pins  
 Plastic Crystal Keychain to John Bardeen from Indiana Institute of Science  
 Empty Wooden Box  
 John Bardeen Wooden Seal Blue Box  
 John Bardeen Stone Seal  
 J. Bardeen Stamp  
 Red Ink for Seals  
 Blue Visiting Cards Cases  
 JB Wooden Seal  
 John Bardeen Name Seal and Ink Set  
 Stack of Business Cards  
 Personal cards  
 10 cents stamp book  
 Seal of University of Glasgow, Degree of Doctor of Laws  
 Faber Foundation Medallion  
 Two Small Flags, US and Sweden  
 Sae-Statements  
 Brown Address Book  
 Red Address Book

Box 177: Fragile Glass

Envelope of Early Transistors  
 $O_2$ ,  $Pb_1Mo_6Ox$  Supercomix, C. Gallo, 1989  
 2 transistors  
 GM Electronics inside a Clear Plastic Case  
 Computer Chip A-21 Technovation Inc  
 Micro-Sensor Micro-systems

Box 178:

Franklin Institute Memento  
 Medal from the 25th Meeting of Nobel Laureates, Lindau, Germany (German)  
 Sony Techno Fair, Book and CD

Box 179:

Bardeen Music Box - Type A transistors spares and test graphs, 2018

Box 180:

Notre Dame Honorary Degree  
1972 Nobel Prize Trip Tips, Instructions, and Souvenirs

Box 181:

Transistor and Speaker

Box 182:

Transistor Photos and Newark News  
*Those Inventive Americans* Letter and Photos, 1970  
*The Bridge of Eta Kappa Nu*, September 1948, and *Electronics* Magazine Cover, 1948  
Ink Print, Signed photo of sculpture August 1968, Photo of Giaever, and a Group Photo  
Note from President Ronald Reagan's Personal Secretary to John Bardeen; President Ronald Reagan's White House Science Advisory Council Photograph, 1966  
Reagan Administration Executive Forum Invite, Pass, and Program; Greeting Card from the President and Mrs. Reagan; White House Red Room Print, 1982-1983  
Progress in Electronics, Commemorative U.S. Postage Stamps, 1973  
Harvard Honorary Doctorate Commencement Photos, June 1973  
William A. Bardeen, Honorary Degree and Program and Newsletter, 2002  
J.J. Sakurai Prize Awarded to William Allen Bardeen by The American Physical Society, 1996  
*Picture Magazine*, Sunday April 28, 1963, 1963  
*Impact'67*, The University of Illinois After 100 Years, 1967  
*John Bardeen, Supercool Scientist* by William K. Stuckey, 1974  
*The New York Times Magazine*, April 20, 1958  
*The New York Times Magazine*, January 1, 1995  
*Life Magazine*, Nobel Winners' Party, May 11, 1962  
*Life Magazine*, The Incredible Year, '68 Special Issue, 1968  
*L'Europeo* (Italian), November 23, 1972  
*The New York Times*, Challenger Explosion, January 29, 1986  
*Newark Sunday News*, Gravure Magazine, Section V, November 28, 1948

Box 183:

Slide Ruler  
*An Essay Concerning Human Understanding* by John Locke, Gent, 25th Edition, ca. 1824  
The Dedication of John Bardeen Quadrangle and Memorial Gardens, 2004  
Consumer Electronics Hall of Fame Award, 2000

Box 184: [OS Box]

Photo John Bardeen/Lyndon B. Johnson [Located in Security File. Please see an archivist if you would like to see the item]

John Bardeen, Honorary Fellow of the Institute of Physics Certificate

ACM 71, A Quarter Century View, 1971

*Portraits of Success Impressions of Silicon Valley Pioneers* by Carolyn Caddes, 1986

Scrapbook on John Bardeen

Massachusetts Institute of Technology, Attempts to Find High Temperature Superconductors, Physics Colloquium Poster, 1973

University of Pennsylvania, Goodspeed-Richards Memorial Lecture, Poster and Letter, 1965

Ohio State University, Lecture on A New Theory of Superconductivity Event Poster, 1951

State of New Jersey Proclamation, December 17-23, 1972 Transistor Week, 1972

Indian Institute of Science, Bangalore, Department of Physics Group Photo with John Bardeen, 1977

Joint Dinner of the American Physical Society and American Association of Physics Teachers, Group Photo, 1954

Joint Dinner of the American Physical Society and American Association of Physics Teachers, Group Photo, 1950

Large Photo of a Group of People in front of a Building