

15/13/57

Liberal Arts and Sciences

History Department

Lillian E. Hoddeson Papers, 1900-2001, 2010

Box 1:

Biographical, Curriculum Vitae, 2010

Conferences

Annual Meeting of History of Science Society/ History of Technology Society

Atlanta, Georgia, 1975

Philadelphia, Pennsylvania, 1976 (2 folders)

Dallas, Texas, 1977

Pittsburgh, Pennsylvania, 1978

Toronto, Canada, 1980

Chicago, Illinois, 1984

Big Science Workshop, Stanford University, 1988-90

Illinois Colloquium, ca. 1974

International Congress of History of Science, Berkeley, California, 1985

International Congress of History of Science, Munich, Germany, 1989

Correspondence

Beckman Institute Appointment, University of Illinois, 2006

Bell Labs publication in *Physics Today*, 1975-77

Duckworth, Eleanor, 1966-68

Heilbron, John and Bruce Wheaton, 1976

Karplus, Betty, 1971

Karplus, Robert, 1971

Kohler, Robert, 1984-85

Kranzberg, Melvin, 1972-80

Krieger, Martin, 1982

Spring Green Multimedia, 1975

University Centers for Rational Alternatives, Inc, 1969

Vosniadou, Stella, 1988-89

Course Teaching Syllabi, 1994-2006

Grants and Fellowships

General, 1989-99

Guggenheim, 2000

National Science Foundation, 1982-99

Research Council, Rutgers, 1973-75

Rockefeller, 1976

Lectures and talks

General, 1988-99

Interview in film "Superbomb," 1987-89

Physics for Poets

Technology Studies Seminar Series, M.I.T., 1975

Manuscripts

General, ca. 1999

“Evolution of the American Physics Community,” book review of Daniel Kevles’ *The Physicists. The History of a Scientific Community in Modern America*. Alfred Knopf: New York, 1978.

“The Evolution of Bell Laboratories’ Program in Basic Solid-State Physics Culminating in the Discovery of the Transistor, 1977-80

“Exact Solutions of the Integral Equations for the Anomalous Skin Effect and Cyclotron Resonance in Metals,” ca. 1966

“The Los Alamos Implosion Program in World War II: A model for postwar American research,” 1988

“Physics in America in the 1920's and 1930's,” 1975

“Remembrance of Things Past: A Laboratory to Recreate History in Physics,” and

“History of Physics Laboratory,” 1971

“Story of Quantum Theory,” 1970-71 (2 folders)

Publications

Computer files from Hoddeson’s book (ed.) *No boundaries : University of Illinois vignettes*. Urbana: University of Illinois Press, 2004, includes 1 CD, 2 zip discs, and 2 floppy discs, 2005

Final Report of Silicon, Carbon, Culture Initiative, University of Illinois, Fall 2002-03

Box 2:

Journal articles and book chapters

1963

1966

1970

1971

1972

1973

1974

1975

1977

1980

1981

1982

1983

1987

1988

1989

1990

1992 (2 folders)

1993

1994

1995

1996

1997

1998

1999

Reviews, 1993-98

Research

Biographical notes on Frederick Seitz, 1961-81

Biographical notes on William Warfield, 1984

Derek Shouba's notes, ca. 1973

Science Education

Brochures on alternative science and math schools in the US, ca. 1968-74

The Dalton School, New York City, New York, 1966-70

The Sudbury Valley School, Framingham, Massachusetts, 1970-71

Piagetian Theory and Instruction, ca. 1968-74

"Proposal for Laboratory Elementary School at the University of Illinois," ca. 1989 (3 folders)

University Primary School Philosophy and Manual, Urbana, Illinois, ca. 1989

Science Education Publications

African Primary Science Program, produced by Educational Services Incorporated, Newton, Massachusetts, operating under US/AID Contract No. csd-772

Teachers' guides and student manuals

"Air," 1966

"Art," 1966

"Chicks in the Classroom," 1966

"Playground Equipment to Build Science Experience," 1966

"Powders," 1966

"Wet Sand," 1966

Elementary Science Study of Educational Services Incorporated, Watertown, Massachusetts

Newsletter, 1970

Teachers' guides and student manuals

"Behavior of Mealworms," 1964

"The Animal Book: Exploring New Ways of Bringing Animals and Children Together," ca. 1965

"Elementary School Biology," Dr. Charles Walcott, ca. 1965

"The Faithful Eye of Robert Hooke," 1965

"A Guide to Tadpoles," ca. 1965

"Pond Water," ca. 1965

"Rock and Mineral Samples," 1965

"Sand," ca. 1965

"Thermometers and Weighing in a Vacuum," ca. 1965

"Using the AS+E Simple Microscope: Supplement to ESS unit 'Small

Things," ca. 1965
 "Batteries, and Bulbs," Books 1 - 3, 1966
 "Batteries and Bulbs Questions," ca. 1966
 "Euglena," 1966
 "Ice Cubes," 1966
 "Things to Do: Some science problems that can be solved with simple equipment," 1966
 "Using Reminders," by Don Ford, 1966
 "What Happens to Trash and Garbage?," 1966
 "Brine Shrimp," by Mary Lela Sherburne, 1967
 "Changes," 1967
 "Paths," by Ira Gerstein, 1967
 "Clay Boats," 1968
 "Daytime Astronomy," 1968
 "Heating and Cooling," 1968
 "Mosquitos," 1968 (2 folders)

Box 3:

"Musical Instrument Recipe Book," 1968
 "Optics," 1968
 "Outdoor Mapping," 1968
 "Sink and Float," 1968 (2 folders)
 "Structures," 1968
 "Tracks," 1968
 "Whistles and Strings," 1968
 "Earthworms," 1969
 "Kids, Cameras, and Communities," 1969
 "Match and Measure," 1969
 "The ESS Reader," 1970
 "A Working Guide to the Elementary Science Study," 1971
 Unidentified document, "Stencil 1327"

Science Curriculum Improvement Study, University of California, Berkeley, California

Brochure, 1967

Newsletters, 1967 -1970

Teachers' guides and student manuals

"Theoretical Background of the Science Curriculum Improvement Study,"
by Robert Karplus, 1965

"Temperature," 1966

"Variation and Measurement," 1966

"Variation and Measurement - Part II," ca. 1966

"Energy," 1967

"Environments," 1968

"Models for Electric and Magnetic Interaction," 1968

"Relativity," 1968
 "Systems and Subsystems," 1968
 "Communities," 1969
 "Energy Sources," 1969
 "Periodic Motion," 1969
 "Populations" 1969
 "Ecosystems," 1970
 "Interactions and Systems," 1970
 "Life cycles," 1970
 "Position and Motion," 1970
 "Subsystems and Variables," 1970
 "Organisms," 1971

Other Science Education Publications

Klopfer, Leo, "Fraunhofer Lines," History of Science Cases (HOSC), Science Research Association, Inc., Chicago, IL, 1964
 Venable, A., "Soapstone Carving," MSS, 1964
 Churchill, Edith H.E., "Balancing: A brief outline for Washington, D.C. teachers," ca. 1965
 ESI, "People Pieces, Color Cubes, Creature Cards, and A Blocks," 1966
 Klopfer, Leo E., "Air Pressure," History of Science Cases (HOSC), Science Research Associations, Inc., Chicago, Illinois, 1966
 Sherburne, Mary Lela, "The Cardozo Model School District: A Peach Tree Grows on T Street," Education Development Center (EDC), Newton, Massachusetts, 1967
 Swartz and Appel, "Individualization: An Emergent Concept in Science Instruction," from Forum on Individualization in Science Instruction, Englewood Cliffs, New Jersey, December 1967
 Responsive Environments Corporation (REC), "The Learning Child of Home," 1968
 Hoddeson, Lillian and Toni Ungerer, "Encyclopedia of Wonderful Things To Do," MSS with color slides, 1970
 Koral, Jerry N., "Solids and Water: An Explorations in Science Lab (Solubility)," Learning Research Associates, Inc.: New York, NY, 1970

Box 4:

Koral, Jerry N., "Weight and Size: Teacher's Guide," Learning Research Associates, Inc., New York, 1970
 Karplus, Robert and Warren Wollman, "Intellectual Development Beyond Elementary School V," 1973
 Lawson, Anton and Anthony Blake, "Concrete and Formal Thinking Abilities in High School Biology Students..." Advancement of Education in Science-Oriented Programs (AESOP), 1974
 Lawson, Anton and Warren Wollman, "Physics Problems and the Process of Self-

Regulation,” Advancement of Education in Science-Oriented Programs (AESOP), 1975

Hoddeson’s research about John Bardeen, in preparation for her book: *True Genius: The Life and Science of John Bardeen*, Washington, D.C.: Joseph Henry Press, 2002.

Interview transcripts

- Alpert, Dan, 1992
- Anderson, Dr. Philip, 1988
- Bardeen Family, 1992
- Bardeen, Jane, 1993 (3 folders)
- Bardeen, John
 - by Lincoln Barnett, 1963
 - by Maynard Brichford, 1965
 - by Louise Geislars, of WILL, 1973
 - by John L. Gregory, with Walter Brattain and William Shockley, 1972
 - by Lillian Hoddeson, 1977 - 85 (3 folders)
 - by William Aspray for *The Princeton Mathematics Community in the 1930s: An Oral History Project*, 1984 (2 copies)
- Baym, Gordon, 1992
- Bohr, Niels, 1962 (5 folders)
- Brattain, Walter
 - By Charles Weiner, 1974
 - By Lincoln Barnett, 1963
 - By A.N. Holden, 1964
- Brattain, Bob, 1998
- Bray, Jim, 1993 (4 folders)
- Burtis, Louis, 1995
- Clarke, John, 1993
- Coleman, Paul, 1992
- Cooper, Leon
 - By E. Rosenfield, 1994
 - Personal account of events that led to the theory of superconductivity, “Origins of the Theory of Superconductivity,” *IEEE Transactions on Magnetism*, 23.2, 1987
 - By Lillian Hoddeson, 2000
- DeBrunner, Peter, 1992
- Dessauer, John and Eric Pell, 1992
- Drickamer, Harry, 1992
- Duke, Charles, 1993
- Early, Jim, 1993
- Eisenhour, Snowden, 1995
- Fisk, James
- Foy, Phil, ca. 2000

Frauenfelder, Hans, 1992
 Gallo, Charles, 1994-95 (4 folders)
 Giaver, Ivar and Charlie Bean, 1995
 Goldwasser, Ned, 1992
 Greytak, Thomas, 1993
 Gruner, George, 2000
 Gunsalus, I.C., 1992
 Hames, John, 1992
 Handler, Paul, 1993
 Hartmann, Gregory, 1992
 Henschel, Anne Bardeen, 1992, 1995 (3 folders)
 Herring, Conyers, 1974, 1992, 2000 (6 folders)
 Transcript of notes on visiting Herring's home, 1981
 Hess, Karl Hess
 Hogan, Les, 1992 (2 folders)
 Holden, Alan, 1974

Box 5:

Holonyak, Nick, 1992, 1993, 1998, 2000 (8 folders)
 Hone, Dan, 1993
 Kelly, 1963
 Lazarus, David, 1992 (2 folders)
 Leggett, Tony, 1993
 Leonard, Nelson, 1992
 Lyding, Joseph, 2000
 Marlow, Don, 1992
 Mapother, Dillon, 1993
 McKay, Ken, 1992 (2 folders)
 McMillan, Joyce, 1995 (2 folders)
 Miller, John, 1993 (2 folders)
 Millman, Sid, 1974, 1992 (2 folders)
 Moll, John, 1992
 Morrison, Glenis Beach, 1995
 Nakajima, Sadas, 1993
 Nier, Al, 1993 (2 folders)
 Nix, Foster, 1975
 Osterhoudt, Walter, 1991
 Pake, George, 1992
 Pao, Henry, 1994 (2 folders)
 Pell, Erik, 1992, 1995 (2 folders)
 Pines, David, 1993
 Pearson, Gerald, 1976
 Pippard, Brian, 1991
 Pierce, John, 1992

Portnoy, William, 1993
 Russell, George, 1995 (2 folders)
 Sah, Chih-Tang, 1993
 Scaff, Jack, 1975, 1995 (2 folders)
 Schmidt, Roland, 1995
 Schrieffer, Bob, 1992
 Seaborg, Glenn, 1995
 Seitz, Fred, 1981, 91, 92, 93, 94 (7 folders)
 Simmons, Ralph, 1993
 Slichter, Charles, 1977, 1992, 1995 (6 folders)
 Sparks, Morgan, 1992, 1993 (3 folders)
 Stone, Marilana, 1995
 Stone, Victor, 1992
 Teal, Gordon, 1993
 Tinkham, Mike, 1993
 Trick, Timothy, 1991
 Tsuneto, Toshihiko, 1993
 Tucker, John, 1995
 Vinen, Joe, 1995
 Wigner, Eugene, 1981 (2 folders)
 Woodyard, John Robert, 1976

Interview Preparations

Bardeen Contacts, ca. 1992-95
 Questions for Interviews, ca. 1992-93 (1 of 2 folders)

Box 6:

Questions for Interviews, ca. 1992-93 (2 of 2 folders)
 Questions for Jane Bardeen, 1992-93
 Notes from Interviews, some not recorded, 1991
 General notes on John Bardeen, by Vicki Daitch, ca. 1991

John Bardeen Subject File

Bardeen and Maxwell Family History

Bardeen

General, ca. 1975-83
 Family Memories, 1965-98
 Harmer (Bardeen), Alexander Francis, ca. 1991
 Bardeen, Charles Russel, ca. 1980
 Bardeen, John, ca. 1980

Maxwell

F. Jane Maxwell and John Bardeen wedding announcement, 1938
 Maxwell genealogy by Dr. J.R. Maxwell, 1962

“The Ancient Pedigree of F. Jane Maxwell Bardeen,” by William Bardeen,
1986

Descendents of Samuel Maxwell, 1988

Maxwell obituaries, Washington County, Pennsylvania, 1990

Early Family Life

General, ca. 1990

College, 1924-28

Correspondence, Jane Bardeen, 1924-28

Trinity Studentship, 1929

Madison years, reference letters, 1928-29

Gulf Oil Laboratories, 1928-33

Pittsburgh, Pennsylvania and Gulf Research Labs, ca. 1930-98

Princeton, 1933-35

General, 1933-45, 1999

Wigner, Eugene, 1995

Harvard, 1935-38,

General, 1928-99

Hoddeson’s Notes on Bardeen at Harvard, 1959

Correspondence, Jane Bardeen, 1935-38

Colleagues

Bridgman, Percy, 1961-2001

Slater, John, 1975

London, Fritz, 1991-95

Harvard Fellows, 1992-99

Minnesota, 1938-41

General, 1939-73

Correspondence, Jane Bardeen, 1939-41

Naval Ordnance Laboratory (NOL), Washington, D.C., 1941-45

General, 1942-2000 (2 folders)

Reports by Bardeen, 1941-43

“Firing Areas for Mark 13 Mine with M4 Mod 1 Mechanism,” Report
605, 1942

Personnel file, 1942-93

History of, 1945-87

Leaving NOL, 1945

Office of Research and Inventions, 1946-47

Bell Labs, 1945-51

General, 1977-96

Correspondence, Jane Bardeen, 1945-51 (2 folders)

Vacuum tubes, 1944-47

Semiconductor, 1945

Trip with Shockley, 1947

Blizzard, 1948

Invention of the Transistor, 1948-94

Isotope effect, 1950
 Leaving Bell Labs, 1950

Box 7:

Transistor, 1950-88
 Resignation letter from Bell Labs, 1951
 Colleagues

Shockley, William, 1929-96
 Ohl, Russell, 1940, 1996
 Oliver Buckley, ca. 1945
 Shockley and Brittain, 1945-77
 Bridgman, Percy, 1949-93
 Mott, Surface States, 1950
 Brattain, Walter, 1954-94
 Lilienfeld, 1963-66
 Teal, Gordon, 1976
 Handel, Kai and Herbert Matare, 1986-98
 Anderson, Phil, 1988
 Pearson, Gerald, 1988
 Pierce, John, 2002

Illinois

Physics and Engineering

General,
 Hoddeson's Notes on Bardeen at University of Illinois, 1951-91 ca. 1974
 (5 folders)
 Move to Illinois, 1944-51
 Charge-Density-Wave Conductors, 1951-96
 Tucker, John and other Charge-Density-Wave project conflicts,
 1972-98
 Charge Density Waves, ca. 1980s
 Physics students, 1952-89
 Letters from Bardeen to/ for students, 1957-72
 Letters of Recommendation by David Pines, 1972-88 (2 folders)
 Bardeen's Post-Doctorate Students, ca. 1988
 List of Bardeen's Post Docs and Grad students, 2001
 Summer school, Semiconductors and Transistor Electronics, 1953
 Security Clearance Papers, 1954-82
 Correspondence, 1955-80
 Superconductivity, 1956-87
 Bardeen's notes on, 1939, 1950 (2 folders)
 Schrieffer on superconductors, 1973
 Abrikosov correspondence, ca. 1978
 Panel on High School Education, 1958
 Rickayzen, Gerald, 1959

Josephson, Brian, 1961-2001
 London Fund, 1972-73
 The Phillips Exciton Affair, 1972-73
 Loomis Lab, 1973-88
 Bardeen retirement, 1975
 China trip, 1980
 High Temperature Superconductors, 1987-2001
 Bardeen Honors, 1989-99
 NHK Broadcasting Japan interview, 1989
 Prizes, 1990
 The Sony Chair, 1990
 Physics Department History, ca. 1991-93, includes Warne, Lisa.
 “Vignettes from a Century of Service to the University, the State,
 and the Nation, 1890-1990,” Department of Physics, University of
 Illinois, 1991.

Personal

Champaign Life, ca. 1950-92
 Vita, 1951-88
 Correspondence
 General, 1981-87
 John Bardeen, correspondence to Jane Bardeen, 1953-78
 Jane Bardeen, correspondence, 1955-75

Box 8:

 John Bardeen and children, 1984-90
 John Bardeen's money, 1962
 Bardeen Autobiography, 1967
 John Bardeen's 60th Birthday, 1968
 John Bardeen's 80th Birthday, 1988
 Bob Kabel, golf, 1973-93
 John Bardeen and children, 1984-90
 Nobel Prize
 1956 Nobel Prize, 1956-63
 Brattain, W.H., “The Saga of an Expedition to Stockholm, Sweden,” 1956
 Nobel Dinner, 1962
 Bardeen Tunneling, 1967-72
 1972 Nobel Prize, 1972-75
 Policy
 General, government policy, 1956-87
 General, science policy, ca. 1979-98
 Notes on John Bardeen as a statesman and citizen, 1941-88
 President's Science Advisory Committee, 1959-73
 American Physical Society, Chicago meeting, 1968-70
 White House Science Council, 1982-95

Industry

- General, 1954-92

- Bardeen and Xerox, 1953-95 (3 folders)

- Dribin, Andy, drafts of paper on Bardeen and Xerox history, ca. 1990

- General Electric, 1960

- Sony, 1989-95

Colleagues

- Cooper, Leon, 1955

- Holonyak, Nick, Jr., 1955-2001 (2 folders)

- Anderson, Philip, 1977

- McMillan, William (Bill), 1984-85

- Bardeen, Marge, ca. 1992

- Tsuneto, 1994

- Seitz, Frederick, 1995-99

Last Years and Death

- General, 1989-2001

- Shockley's Death, 1989

- John Bardeen Memorial, 1991

- Condolence letters to Jane Bardeen, 1991

- Jane Bardeen's death, 1997-2001

Publications by John Bardeen

- Publications lists, ca. 1975-95

- Articles by Bardeen, 1930s

Box 9:

- Bardeen, John and Leo James Peters, The Solution of Some Theoretical Problems Which Arise in Electrical Methods of Geophysical Exploration, Bulletin of the University of Wisconsin, 1930

- Articles by John Bardeen, 1940s

- Minnesota papers, 1940-41

- Transistor patent, 1948-57

- Articles by John Bardeen, 1950s (2 folders)

- Bardeen, John, "Semiconductor Electronics," ca. 1950

- Bardeen, John, "The Theory of Metals by A.H. Wilson," (Book review), ca. 1953

- Bardeen, John, "Theory of Superconductivity," *Handbuch d. Physik*, 15, 1956.

- Bardeen, John, "Solid State Physics, Vol. 4, edited by F. Seitz and D. Turnbull," (Book review), ca. 1957

- Articles by John Bardeen, 1960s

- Bardeen, John, "Field Theoretic Methods in Solid State Physics," ca. 1960

- Bardeen, John, "Quantum Theory of Solids, by C. Kittel" (Book review), ca. 1963

- Articles by John Bardeen, 1970s (2 folders)

- Superconductivity publications, ca. 1970

Bardeen, John, et. al., "Report to the American Physical Society by the study group on physical problems relating to energy technologies: Radiation effects on materials," *Reviews of Modern Physics*, Vol. 47, No. 3, 1975.

Bardeen, John, "Engineering Education in an Era of Changing Technology," ca. 1970

Articles by John Bardeen, 1980s-90s (2 folders)

A Collection of Professor John Bardeen's Publications on Semiconductors and Superconductivity, Introduction sections only, Department of Physics and Department of Electrical and Computer Engineering, on occasion of John Bardeen's 80th birthday, 1989 (3 copies)

A Collection of Professor John Bardeen's Publications on Semiconductors and Superconductivity, Department of Physics and Department of Electrical and Computer Engineering, on occasion of John Bardeen's 80th birthday, 1989 (3 copies)

Numbered publications from John Bardeen's office files

Partial listing of files by Jerry Rowley, with edits, ca. 1990

Final list of files, ca. 1990

Numbered publications, ca. 1951-91 (1 of 6 folders)

Box 10:

Numbered publications, ca. 1951-91 (2-6 of 6 folders)

Manuscripts and drafts by John Bardeen, ca. 1947-95

Speeches and lectures by John Bardeen

Nobel Speech by John Bardeen, 1956

Lecture Transcripts, by John Bardeen, ca. 1975-84

Early days of the transistor, 1979

Publications about John Bardeen

General, 1953-99 (2 folders)

From Wolfgang J. Poppelbaum, 1954-99

Feature articles on Bardeen awards, 1957, 1983-84

Howard Huff essays on Bardeen, 1999-2001

General historical publications on physics by others

General, 1948-89 (2 folders)

Seitz, Frederick, 1935

Shockley, William, 1950

Kuhn, Thomas, 1959

Weiner, Charles, 1969-70

Meeting of the International Project on the History of Solid State Physics, 1981

Wattenberg, Albert 1982

Divac, Paul, 1986
 Schweber, S. S., 1986
 Sah, Chih-Tang, 1988 (2 folders)
 Weart, Spencer , 1988

Box 11:

Bardeen Papers in University of Illinois Archives

General, ca. 1974-88 (Includes Master Index of Bardeen's file folders and list of Bardeen's office library)
 John Bardeen Papers, finding aid, 1996
 Research notes on, ca. 1998
 Jerome Rowley list of Bardeen's office files, ca. 1988

Bardeen Papers in University of Wisconsin - Madison Archives

John Bardeen, ca. 1909-1980 (2 folders)
 Correspondence, 1968-69
 Charles R. Bardeen
 General, ca. (3 folders)
 Correspondence, 1900-23
 Charles Russell Bardeen to CW Bardeen, 1915-20 (2 folders)
 Althea Bardeen, correspondence, ca. 1910
 Walter Hart, ca. 1962-90
 History of Fraternities at University of Wisconsin, ca. 1973
 Photocopies of early maps of Madison, Wisconsin, 1909-1924, 1973

Lillian Hoddeson's Notes on Writing

John Bardeen biography
 Correspondence related to, 1991-95
 Articles on Genius, 1963-99
 Zuckerman, Harriet, 1979-99
 Gambino, Matt, 2000
 Scientific Thinking and Genius, 1995
 Chapter 9, 1985-96
 Chapter 13, ca. 1962-91
 Chapter 15 with edits by John Tucker, 2001
 Seitz, Frederick notes, 2001

Box 12:

Bardeen History Project Administrative Files

Origins and Proposal Drafts, 1991
 Budget, 1991-1993
 Contract, KTCA, 1998

Correspondence

Copyright, 1992
 Brichford, Maynard, 1992

Funding

Raymond Borelli and Dept. Of Physics (UIUC), 1991
 Foundation Support, 1991-1993
 A.T. & T. Funding, 1991-1993
 Texas Instruments, 1992
 Dibner Fund, 1992-1993
 Sloan Foundation, 1994

Interviewee Correspondence

Interviewee and Research Trip Notes, 1991
 John H. Dessauer, 1992
 Eric Pell, 1992
 Fred Brattain (nephew of Walter), 2005

Notes for Bardeen Filming, 2010

Publications Working File

Transistor Book Source Articles and Notes, 1940-2000
 "Out of the Crystal Maze" Book Correspondence, Photocopies and Photographic
 Prints of Images and Diagrams, 1989-1990
 "Crystal Revolution" Book Proposal Correspondence and Notes, 1991-1992
 "Crystal Fire" Book Proposal and Publisher Agreement, 1993
 "Crystal Fire" Permissions for Photographs and Artwork, 1996-1997
 "Crystal Fire" Book Release Announcement, 1997
 Riordan Complimentary Book Mailing List, 1997
 Norton Book Release Announcement: "Crystal Fire," 1997
 "Transistorized!" PBS Documentary (2 folders), 1998
 "John Bardeen and the Question of Genius" talk to Bardeen Scholars, 2001
 "True Genius" Talk Poster and Correspondence, 2001-2002
 "True Genius" Photograph Permissions, 2002

Bardeen Project Source Materials

John Bardeen

Awards, 1968-1998
 Chronology of Bardeen's Departure from Bell Laboratory, Undated
 Bardeen Correspondence, 1948-1992
 Jane Bardeen Correspondence, 1969, 1991, 1999
 Bardeen Memorial Correspondence, 1994, 2003
 Bardeen Project Photographic Images
 Bardeen Photograph Photocopies (2 folders), Undated
 Bardeen Biography Photo Album Drafts
 Photographic Prints
 CDs and Zip Disk of Bardeen Files and Photographs, 2001
 William Bardeen's List of John Bardeen's Slides, 1996

- Family Photos and Letter, 1718, 1895, 1950, 2000
 Russel Ohl Photograph
 High School and University Transcripts (WI), 1923-1929
 Walter Osterhoudt remembrances relating to, 1991
 Bardeen Publications, 1948, 1950, 1968, 1989
 Becker, J. A. And J. N. Shive. "The Transistor - A New Semiconductor Amplifier."
 March 1949
 Bell Telephone Laboratories Releases and *Washington Post* Article, 1943, 1948, 1997
 Walter Brattain
 Bardeen, John. "Walter Houser Brattain, 1902-1987" A Biographical Memoir,
 1994
 Brattain, Walter. Autobiographical Sketch: "Return of a Native," Undated
 Brattain, Walter H. "Genesis of the Transistor" reprinted from The Physics
 Teacher, March 1968
 Brattain Publications Bibliography, undated
 Memoirs of Walter Brattain's Parents (Ross R. and Otilie Houser) in China in
 "Fifty-Year-Plus News" Whitman College Newsletters and "The
 Historical Walla Walla Valley" by C. C. Maxey, 1986
 Medical Records Requests: Walter Brattain and William Shockley, 1996
 "Electronics" A McGraw Hill Publication, September 1948
 "The Esaki Diode" and "Duped by Esaki" chapters in Genryu Sony Challenge 1946-
 1968, 1986
 Proceedings of the Institute of Electrical and Electronics Engineers, Inc. (IEEE) Special
 Issue: "50th Anniversary of the Transistor!" January, 1998
 William Bradford Shockley
 Shockley Archives photocopies and notes, 1992
 Shockley Biographical Memoir by John L. Moll, 1995
 Shockley, William. "The Invention of the Transistor: An Example of Creative-
 Failure Methodology" and notes, 1974
 Fish and Shockley Letter to M. J. Kelly, 1945
 Transistor Diagrams, 1947
 Transistor Patent Information, 1925, 1947
 War Era Sources, 1945-1949

Box 13:

Audio/Video/Digital Materials for Bardeen Project

Audio Cassettes

- Bardeen Lecture for IEEE, "The Early Days of the Transistor," recorded by Doug
 Rothke, February 28, 1971(?)
 Hoddeson and Riordan Review of Lunch Interview Regarding Shockley, Bardeen
 and Brattain Audiocassette, September 26, 1991
 Focus 580: Hoddeson Interview on "Crystal Fire" Book, September 12, 1997
 S7 Discussion Meeting: "Transistors: The Context of Their Discovery," 2 audio

cassettes, December 16, 1997

Video Casette

Bardeen Interview, undated
 Bardeen and Ed Purcell, *Harvard Fellows* Interview, ca. 1980s
 Bardeen NHK Interview, June 1990
 Seitz Session on Bardeen, American Physical Society, 1992
 Holonyak Interview by Gino Del Guercio, June 1998

Microcassette

Interview of Tochihiro Tzuneto in Kyoto by G. Almy, "Growing Up With Bardeen," July 2, 1994

Box 14:

Hoddeson Research Materials and Correspondence

Activity Report, 1998-2000, 2007-2008

Correspondence

General Correspondence and Notes, 1991-2003
 Seitz, Frederick, correspondence and article, 1992-2004
 Holonyak, Nick, including News Articles, 1993-2008
 Riordan, Michael, 1993-1998

Publications

"The Roots of Solid-State Research at Bell Labs," Physics Today article, March 1977
 "Multidisciplinary Research in Mission Oriented Laboratories: The Evolution of Bell Laboratories' Program in Basic Solid-State Physics Culminating in the Discovery of the Transistor, 1935-1948," November 1978
 "The Discovery of the Point-Contact Transistor," UIUC Department of Physics, 1981
 "Chapter 9: Innovation and Basic Research in the Industrial Laboratory..." Between Science and Technology article, 1990
 "Crystal Rectifiers and the Invention of the Transistor" American Physical

Society

presentation paper and correspondence, 1992
 Kolb, Adrienne and Hoddeson. "The Mirage of the World Accelerator for World Peace and the Origins of the SCC, 1953-1983," drafts for publication in the Historical Studies in the Physical and Biological Sciences, 1992-1993
 "The Conflict of Memories and Documents: Dilemmas and Pragmatics of Oral History," 1993, 1995
 "The Discovery of Spontaneous Fission in Plutonium During World War II" drafts, 1993
 "Research on Crystal Rectifiers During World War II and the Invention of the Transistor," History and Technology article, 1994
 Kolb, Adrienne and Hoddeson. "A New Frontier in the Chicago Suburbs: Settling Fermilab, 1963-1972." Drafts and Correspondence, 1994

- “Solid State Science” Paper and Presentation by Hoddeson in Science in the 20th Century Workshop, Florence, Italy, 1995
- “World War II and Science: The Impact of War on Science,” Alumni Association Talk, April 1995
- Riordan and Hoddeson, “The Moses of Silicon Valley,” 1997
- Riordan and Hoddeson, “The Electron and the Invention of the Transistor,” draft, March 15, 1997
- Riordan, Hoddeson and Herring, “The Invention of the Transistor,” draft. 1998
- Riordan and Hoddeson, “The Electron, the Hole, and the Transistor,” Dibner Institute draft, 1999
- “John Bardeen” entry in the New Dictionary of Scientific Biography, 2007
- “John Bardeen: An Extraordinary Physicist,” Physics World article, April 2008
- “Gentle Genius,” Illinois Alumni article, May/June 2008
- “John Bardeen: The Only Person to Win Two Nobel Prizes in Physics,” Physics Education article, 2011
- “Two Nobels are Better than One Hole in One: John Bardeen Moves to Illinois,” print proof, Undated
- “Bell Labs and the Origins of the Integrated Circuit” draft by Riordan and Hoddeson, Undated

Non-Hoddeson Authored Items

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Box 15:

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