

Zallen, Richard, Dr., Papers

Dr. Richard Zallen Papers

1940-2007



Title Statement

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Descriptive Summary

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Unit Date

1940-2007

Language

The materials in the collection are in English.

Abstract

The Dr. Richard Zallen Papers document the research and professional development of a physics professor at Virginia Tech specializing in condensed matter research. Papers largely cover the second half of the twentieth century and include information on research at Xerox; professional correspondence; Virginia Tech lecture notes; drafts of published work; and documents concerning trips, sabbaticals, and conferences. Materials include hand-written documents, published material, flat plate drawings, photographs, a sample of "melt-spun amorphous," and stamps from various countries.

Creator

Zallen, Richard, b.1937

Extent

17.4 Cubic Feet 36 boxes

Repository

Special Collections and University Archives, Virginia Tech

Administrative Information

Conditions Governing Access

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Source of Acquisition

The Dr. Richard Zallen Papers were donated to Special Collections and University Archives in 2007.

Processing Information

The processing, arrangement and description of the Dr. Richard Zallen Papers commenced in August 2008 and was completed in October 2008.

Preferred Citation

Researchers wishing to cite this collection should include the following information: [identification of item], [box], [folder], Dr. Richard Zallen Papers, Ms2008-069, Special Collections and University Archives, Virginia Tech, Blacksburg, Va.

Biographical Note

Richard Henry Zallen was born in New York City in 1937. After receiving his bachelors of science in physics from Rensselaer Polytechnic Institute in 1957, Zallen continued his education at Harvard University- eventually receiving his Ph.D. in Applied Physics in 1964. From 1966 to 1983, Dr. Zallen worked at the Xerox Research Laboratories in Rochester, New York. While working at Xerox, he was part of a team that patented Spin Coated Photoconductor Films.

After his research at Xerox, Dr. Zallen served as a professor of physics at Virginia Tech. In 1976 Dr. Zallen became a fellow of the American Physical Society. During his sabbaticals, Dr. Zallen held several visiting appointments. From 1971 to 1972 he acted as the visiting associate professor of physics at the Technion, The Israel Institute of Technology, in Haifa; in the summer of 1979 he was the visiting professor at the Université de Paris VI; from 1990 to 1991 he was the SERC senior research fellow at Imperial College in London; and in 1998 he served as the visiting professor at Imperial College in London.

Dr. Zallen's primary research interest lies in experimental studies of the optical properties of solids. In pursuance of his interests, Dr. Zallen has published more than one hundred articles and a widely cited book, *The Physics of Amorphous Solids*.

In 2006, the Virginia Tech Board of Visitors honored Dr. Zallen with the title "professor emeritus."

Scope and Contents

The Dr. Richard Zallen Papers document the research and professional development of a physics professor at Virginia Tech, specializing in condensed matter research, largely during the second half of the twentieth century. The papers include information concerning Zallen's study at Harvard and his work at Xerox; research notes; professional correspondence; Virginia Tech lectures; drafts of published works; and materials concerning trips, sabbaticals, and conferences. The corporate and governmental institutions with which Zallen worked include: the Office of Naval Research, Raytheon Manufacturing Company, Texas Instruments, and IBM. Examples of mentioned geographical locations are Israel, Belgium, China, England, France, Canada, Italy, and a host of cities in the United States. Materials include hand-written documents, published material, flat plate drawings, photographs, a sample of "melt-spun amorphous," and stamps from various countries. Explanatory notes made by Zallen in 2006 annotate many documents. Some significant documents include supporting patent materials for Spin Coated Photoconductor Films, letters concerning the protest by industrial scientists at Xerox over the escalation of the war in Indo-China, and copies of APS Solid State Correspondence discussing the formation of Solid-State Physics.

(**Please note:** Many of the folders in this collection contain two sets of dates. Dates within parentheses designate the date originally provided by the creator and usually indicate when an event/research occurred. Dates outside of parentheses indicate the chronological range of materials found within the collection.)

Related Material

Also available from VT Special Collections and University Archives and Newman Library is a book by Dr. Richard Zallen: *The Physics of Amorphous Solids*. New York: Wiley, c1983. Call number: QC176.8.A44 Z34 1983. Request via the library catalog online.

Keywords

Faculty and staff

Physicists

Physics

Science and Technology

University History

Students and alumni

Virginia Polytechnic Institute (1944-1970)

Virginia Polytechnic Institute and State University (1970-)

Virginia Polytechnic Institute and State University. College of Arts and Sciences (1970-2003)

Virginia Polytechnic Institute and State University. College of Science (2003-)

Virginia Polytechnic Institute and State University. Physics Department

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Arrangement

The collection maintains original order. Papers are organized by topic and generally appear in reverse chronological order. Correspondence appears alphabetically.

Description of Subordinate Components

Series I: Xerox

Xerox PhD Recruiting (2 folders)

Unit Date 1982-1983

box-folder 1 (box)

Container 1-2 (folder)

Xerox to VT: Ritsko Electron Apparatus Eels (Summer 1985)

Unit Date 1983-1990

box-folder 1 (box)

Container 3 (folder)

Xerox to VT: Opt. Spectrometer

Unit Date Fall 1983

box-folder 1 (box)

Container 4 (folder)

Speakers Hosted at Xerox [mostly]

Unit Date 1970-1989

box-folder 1 (box)

Container 5 (folder)

Diamond-Anvil Cell (Xerox)

Unit Date 1973-1980

box-folder 1 (box)

Container 6 (folder)

Staff Presentation (Xerox)

Unit Date 1981-12

box-folder 1 (box)

Container 7 (folder)

Staff Presentation / Project Review

Unit Date 1981-12-14

box-folder 1 (box)

Container 8 (folder)

Patent for Spin Coated Photoconductor Films

Unit Date 1977-1989

box-folder 1 (box)

Container 9 (folder)

Xerox Advisers' Reports: Bardeen, Tribus, Scheraga

Unit Date 1979

box-folder 1 (box)

Container 10 (folder)

Xerox Research Plans

Unit Date 1968-1982

box-folder 1 (box)

Container 11 (folder)

Xerox Monthly Highlights and Quarterly Reports

Unit Date 1976-1983

box-folder 1 (box)

Container 12 (folder)

Xerox R & D Book

Unit Date 1976

box-folder 1 (box)

Container 13 (folder)

Xerox Capital Equipment

Unit Date 1973-1975

box-folder 1 (box)

Container 14 (folder)

Xerox Trip Reports (2 folders)

Unit Date 1966-1982

box-folder 1 (box)

Container 15 (folder)

box-folder 2 (box)

Container 1 (folder)

Xerox Lab and Office Layout

Unit Date 1965, 1983

box-folder 2 (box)

Container 2 (folder)

Xerox Research Labs, plus...(2 folders)

Unit Date 1965-2002

box-folder 2 (box)

Container 3-4 (folder)

APS Fellow

Unit Date 1976

box-folder 2 (box)

Container 5 (folder)

Essay on Electrostatics in Xerography

Unit Date 1974-1975

box-folder 2 (box)

Container 6 (folder)

Computation Notebook 2/4

Unit Date 1969-1997

box-folder 2 (box)

Container 7 (folder)

Computation Notebook 3

Unit Date 1975-1984

box-folder 2 (box)

Container 8 (folder)

Computation Notebook 1

Unit Date 1966-1969

box-folder 2 (box)

Container 9 (folder)

Perkin Elmer 16 U / Lab Setup at Xerox

Unit Date 1965-1966

box-folder 2 (box)

Container 10 (folder)

Xerox

Unit Date 1964-1965

box-folder 2 (box)

Container 11 (frame)

Series II: Harvard Years

Effect of Pressure of R (h 2) of Ag and Cu

Unit Date 1964-1965

box-folder 3 (box)

Container 1 (folder)

The Effect of Pressure on Optical Properties of Semiconductors

Unit Date 1964

box-folder 3 (box)

Container 2 (folder)

Thesis

Unit Date 1964

box-folder 3 (box)

Container 3 (folder)

MacLeod on Beeswax, Optical Sample Preparation

Unit Date 1966

box-folder 3 (box)

Container 4 (folder)

Reflectivity of Ge, InAs, GaSb

Unit Date 1962-1965

box-folder 3 (box)

Container 5 (folder)

Reflectivity of Silicon vs. Hydrostatic Pressure

Unit Date 1962-1963

box-folder 3 (box)

Container 6 (folder)

GaP paper

Unit Date 1963-1964

box-folder 3 (box)

Container 7 (folder)

RZ thesis notes with comment / WP Comments

Unit Date 1963-1964

box-folder 3 (box)

Container 8 (folder)

Calculations for GaP Absorption Edge under Pressure

Unit Date 1963-1964

box-folder 3 (box)

Container 9 (folder)

GaP Data

Unit Date 1961-1963

box-folder 3 (box)
Container 10 (folder)

Stimulated Emission in Gallium Arsenide (2 folders)

Unit Date 1962-1963
box-folder 3 (box)
Container 11-12 (folder)

Notes on Optical Properties of Solids

Unit Date 1962-1963
box-folder 3 (box)
Container 13 (folder)

Scope and Contents note

Includes notes on the quantum theory of radiation and absorption edges and a photo from the Technion.

Harvard Work on Absorption Edges

Unit Date 1961
box-folder 3 (box)
Container 14 (folder)

Harvard University Laboratory Notebook Physics 1, Section 6

Unit Date 1965
box-folder 3 (box)
Container 15 (folder)

Gordon McKay Laboratory Staff Directory

Unit Date 1964-11-17
box-folder 3 (box)
Container 16 (folder)

Drawings and Designs

Unit Date 1960-1964
box-folder 3 (box)
Container 17 (folder)

Harvard University Laboratory Notebook Physics 1, Section 5

Unit Date 1963-1965
box-folder 4 (box)
Container 1 (folder)

Harvard University Laboratory Notebook Physics 1, Section 4

Unit Date 1961-1963
box-folder 4 (box)
Container 2 (folder)

Harvard University Laboratory Notebook Physics 1, Section 3

Unit Date 1961
box-folder 4 (box)
Container 3 (folder)

Harvard University Laboratory Notebook, Section 2

Unit Date 1960-1961

box-folder 4 (box)

Container 4 (folder)

Harvard University Laboratory Notebook Physics 1, Section 1

Unit Date 1960

box-folder 4 (box)

Container 5 (folder)

Scope and Contents note

Includes charts and diagrams.

Series III: Raytheon Manufacturing Company

Raytheon (1958-1959)

Unit Date 1959-1960

box-folder 4 (box)

Container 6 (folder)

Scope and Contents note

Includes "Technical Memorandum T-189" of Sep 17 1959, "Measurement and Interpretation of Absorption Spectra of Solids in the Absorption Edge Region" of Dec 15 1960 by D. M. Warschauer and "Electroluminescence under Pulsed Square Wave Excitation" by R. Zallen, V. T. Eriksen, and H. Ahlburg.

Raytheon Manufacturing Company-Engineering Notebook

Unit Date 1958-1959

box-folder 5 (box)

Container 1 (folder)

Series IV: Virginia Tech

RZ Funding Notes at VT / Excerpts; ITT / Texas Instruments / CIT / Philip Morris

Unit Date 1985-1996

box-folder 5 (box)

Container 2 (folder)

VT Physics Site Visit / Presentation to Armstrong Committee

Unit Date 1996

box-folder 5 (box)

Container 3 (folder)

VT "Activities Reports" (2 folders)

Unit Date 1986-2004

box-folder 5 (box)

Container 4-5 (folder)

Lecture Pictures / Exams (2 folders)

Unit Date 1989-2006

box-folder 5 (box)

Container 6-7 (folder)

Miscellaneous Teaching

Unit Date 1983-2006

box-folder 5 (box)

Container 8 (folder)

RZ VT Colloquium

Unit Date 1990-04

box-folder 5 (box)

Container 9 (folder)

RZ Hosted VT Speakers [including RZ]

Unit Date 1983-2003

box-folder 5 (box)

Container 10 (folder)

Department Demographics

Unit Date 1988

box-folder 5 (box)

Container 11 (folder)

RZ Part of VT Proposal to IBM

Unit Date 1986

box-folder 5 (box)

Container 12 (folder)

PhD and MS Students

Unit Date 1994-2004

box-folder 5 (box)

Container 13 (folder)

VT Lab Setup

Unit Date 1983-1989

box-folder 5 (box)

Container 14 (folder)

VT Memos (2 folders)

Unit Date 1983-2000

box-folder 5 (box)

Container 15 (folder)

box-folder 16 (box)

Container 1 (folder)

VT Lab Photos

Unit Date 1984-1985

box-folder 6 (box)

Container 2 (folder)

Xerox to Virginia Tech

Unit Date 1983-2007

box-folder 6 (box)

Container 3 (folder)

Series V: Isakson Prize

1984 Isakson Prize Committee, Winner Manuel Cardona

Unit Date 1983-1984

box-folder 6 (box)

Container 4 (folder)

1982 Isakson Prize Committee, Winner Jan Tauc

Unit Date 1980-1982

box-folder 7 (box)

Container 1 (folder)

Series VI: Documented Talks

Percolation Theory: A Model for All Seasons

Unit Date 1983

box-folder 7 (box)

Container 2 (folder)

Scope and Contents note

Includes one VHS tape and one CD.

Michel Besson's Presentation on High Pressure

Unit Date 1979

box-folder 7 (box)

Container 3 (folder)

Scope and Contents note

On videocassette.

Michel Besson's Presentation on High Pressure of 1979

Unit Date 2006

box-folder 7 (box)

Container 4 (folder)

Series VII: Meetings, Trips, Talks, and Sabbaticals

Los Angeles (Mar 2005)

Unit Date 2005

box-folder 7 (box)

Container 5 (folder)

March Meeting

Unit Date 2006

box-folder 7 (box)

Container 6 (folder)

Saint Adele [Thorpefest], Montreal, and Cambridge (Aug 2004)

Unit Date 2004

box-folder 8 (box)

Container 1 (folder)

Montreal (Mar 2004)

Unit Date 2004

box-folder 8 (box)
Container 2 (folder)

Besson Colloquium Paris (May 16 2003)

Unit Date 1980-2004
box-folder 8 (box)
Container 3 (folder)

Michigan State (Spring 2003)

Unit Date 2002-2003
box-folder 8 (box)
Container 4 (folder)

Austin, Texas (Mar 2003)

Unit Date 2003
box-folder 8 (box)
Container 5 (folder)

High Pressure Semiconductor Physics Conference [WP et al.], London (Aug 2002)

Unit Date 2000-2002
box-folder 8 (box)
Container 6 (folder)

RPI Reunion, Troy and Rochester, New York (Jun 2002)

Unit Date 2002
box-folder 8 (box)
Container 7 (folder)

Indianapolis (Mar 2002)

Unit Date 2001-2002
box-folder 8 (box)
Container 8 (folder)

Lubbock, Texas (Apr 2001)

Unit Date 1997-2001
box-folder 8 (box)
Container 9 (folder)

Seattle (Mar 2001)

Unit Date 2000-2001
box-folder 8 (box)
Container 10 (folder)

Cincinnati (Nov 2000)

Unit Date 1988-2000
box-folder 8 (box)
Container 11 (folder)

Nano Conference at VT and Physics Colloquium (Nov 2000)

Unit Date 2000

box-folder 8 (box)

Container 12 (folder)

Cambridge / London, UK (Jul 2000)

Unit Date 2000

box-folder 8 (box)

Container 13 (folder)

March Meeting of the American Physical Society, Minneapolis

Unit Date 2000

box-folder 8 (box)

Container 14 (folder)

Raleigh (Feb 2000)

Unit Date 2000

box-folder 8 (box)

Container 15 (folder)

London / Israel (Jul / Aug, Summer 1999)

Unit Date 1998-1999

box-folder 8 (box)

Container 16 (folder)

March Meeting Atlanta (1999)

Unit Date 1998-1999

box-folder 8 (box)

Container 17 (folder)

Haifa / Oren's Memorial Symposium (Jan 1999)

Unit Date 1998-1999

box-folder 8 (box)

Container 18 (folder)

Dow TAB meeting at MIT (Oct 2, 1998)

Unit Date 1998-1999

box-folder 8 (box)

Container 19 (folder)

Imperial College, London, (Jan-Aug, 1998)

Unit Date 1997-1999

box-folder 9 (box)

Container 1 (folder)

Cincinnati (Jun 6, 1997)

Unit Date 1997

box-folder 9 (box)

Container 2 (folder)

Travel Arrangements for Quantum Epitaxial Designs, Inc. Discussion, (Sep 20, 1996)

Unit Date 1996

box-folder 9 (box)

Container 3 (folder)

NATO Advanced Study Institute, Sozopol [Black Sea] (May-Jun, 1996)

Unit Date 1996-1997

box-folder 9 (box)

Container 4 (folder)

List of Trips / Talks / Sabbaticals (1984-1996)

Unit Date 2006

box-folder 9 (box)

Container 5 (folder)

St. Louis / APS

Unit Date 1996-03

box-folder 9 (box)

Container 6 (folder)

Richmond Conference (Nov 1995)

Unit Date 1994-1997

box-folder 9 (box)

Container 7 (folder)

NSF IMR Panel (Feb 1, 1995)

Unit Date 1994-1995

box-folder 9 (box)

Container 8 (folder)

Oak Ridge Workshop (Oct 1994)

Unit Date 1994

box-folder 9 (box)

Container 9 (folder)

Vancouver / 22nd ICPS (Aug 15-19, 1994)

Unit Date 1994

box-folder 9 (box)

Container 10 (folder)

FLG Symposium, Colorado (Aug 7-11, 1994)

Unit Date 1993-1994

box-folder 9 (box)

Container 11 (folder)

ECD (May 1994)

Unit Date 1986-1994

box-folder 9 (box)

Container 12 (folder)

New Alliances for Economic Development, Charlottesville

Unit Date 1994-05

box-folder 9 (box)

Container 13 (folder)

Pittsburgh

Unit Date 1994-03

box-folder 9 (box)

Container 14 (folder)

Nanoscale Workshop, College Park, Maryland

Unit Date 1993-10

box-folder 9 (box)

Container 15 (folder)

Oxford

Unit Date 1993-05-21

box-folder 9 (box)

Container 16 (folder)

NEC, Princeton

Unit Date 1992-09

box-folder 10 (box)

Container 1 (folder)

March Meeting, Indianapolis

Unit Date 1991-1992

box-folder 10 (box)

Container 2 (folder)

Clusters, Richmond

Unit Date 1991-1993

box-folder 10 (box)

Container 3 (folder)

Cambridge, UK

Unit Date 1991-08

box-folder 10 (box)

Container 4 (folder)

Leicester / Surrey (May 1991)

Unit Date 1991-1994

box-folder 10 (box)

Container 5 (folder)

Imperial College (Sep 1990-Aug 1991)

Unit Date 1989-1995

box-folder 10 (box)

Container 6 (folder)

Exeter**Unit Date** 1991-04**box-folder** 10 (box)**Container** 7 (folder)**University of Reading (Jan 1991)****Unit Date** 1990-1991**box-folder** 10 (box)**Container** 8 (folder)**Philip Morris R&D Center (notes from Sep 6 1989; Jul 6 1990)****Unit Date** 1989-1990**box-folder** 10 (box)**Container** 9 (folder)**VPI Physics Colloquium (Apr 12 1990)****Unit Date** 1990-04-12**box-folder** 10 (box)**Container** 10 (folder)**March Meeting, Anaheim****Unit Date** 1990**box-folder** 10 (box)**Container** 11 (folder)**University of Paris; Imperial College****Unit Date** 1989-10**box-folder** 10 (box)**Container** 12 (folder)**Asheville (Aug / Sep 1989)****Unit Date** 1989-1990**box-folder** 10 (box)**Container** 13 (folder)**Xerox WRC****Unit Date** 1989-06-27**box-folder** 10 (box)**Container** 14 (folder)**Richard Zallen and Calvin Doss's Talks with Philip Morris****Unit Date** 1989-06-22**box-folder** 10 (box)**Container** 15 (folder)**Penn State (Jun 1 1989)****Unit Date** 1988-1992**box-folder** 10 (box)**Container** 16 (folder)

Dow Chemical (Apr 28 1989)

Unit Date 1986-1995

box-folder 10 (box)

Container 17 (folder)

Wake Forest (Apr 13 1989)

Unit Date 1986-1989

box-folder 10 (box)

Container 18 (folder)

APS March Meeting, St. Louis

Unit Date 1989

box-folder 10 (box)

Container 19 (folder)

MRX & Lincoln Lab, Boston (Nov 27-Dec 3 1988)

Unit Date 1988

box-folder 11 (box)

Container 1 (folder)

Penn State

Unit Date 1988-10-18

box-folder 11 (box)

Container 2 (folder)

University of Cincinnati

Unit Date 1988-11-09

box-folder 11 (box)

Container 3 (folder)

CIT Superconductivity Workshop / Philip Morris Research Center, Richmond

Unit Date 1988

box-folder 11 (box)

Container 4 (folder)

SUNY Buffalo

Unit Date 1988-04-21

box-folder 11 (box)

Container 5 (folder)

March Meeting, New Orleans

Unit Date 1988-1989

box-folder 11 (box)

Container 6 (folder)

Texas Instruments, Dallas

Unit Date 1988-02-11

box-folder 11 (box)

Container 7 (folder)

Philip Morris Research Center**Unit Date** 1987-11-23**box-folder** 11 (box)**Container** 8 (folder)**Kodak / Exxon (MCH) (Sep 9-11 1987)****Unit Date** 1987**box-folder** 11 (box)**Container** 9 (folder)**Gordon Conference on ionomers, (Aug 4-7 1987)****Unit Date** 1987**box-folder** 11 (box)**Container** 10 (folder)**Erice (Jun 1987)****Unit Date** 1977-2002**box-folder** 11 (box)**Container** 11 (folder)**UNC / Marvin Silver (Apr 7 1987)****Unit Date** 1986-1987**box-folder** 11 (box)**Container** 12 (folder)**New York, New York****Unit Date** 1987-03**box-folder** 11 (box)**Container** 13 (folder)**Texas Instruments Trip, Dallas (Mar 5-8 1987)****Unit Date** 1987**box-folder** 11 (box)**Container** 14 (folder)**BIAA Sh. Inst. Ceramics, China****Unit Date** 1986-07**box-folder** 11 (box)**Container** 15 (folder)**Scope and Contents note**

[see correspondence for Ai-Lien Juno]

ECD [Energy Conversion Devices] Trip**Unit Date** 1986-05-21**box-folder** 11 (box)**Container** 16 (folder)**Penn / Illinois (May 1-2 1986)****Unit Date** 1985-1990**box-folder** 11 (box)**Container** 17 (folder)

Las Vegas Meeting / WP-Schrift

Unit Date 1986-03-31

box-folder 11 (box)

Container 18 (folder)

Texas A&M (Mar 23-26 1986)

Unit Date 1985-1987

box-folder 11 (box)

Container 19 (folder)

Brown MRL / Harvard Seminar (Feb 1986)

Unit Date 1985-1986

box-folder 12 (box)

Container 1 (folder)

Texas Instruments, Dallas (Jan 31 1986)

Unit Date 1985-1986

box-folder 12 (box)

Container 2 (folder)

Vanderbilt / Bob Weeks (Oct 21 1985)

Unit Date 1985-1992

box-folder 12 (box)

Container 3 (folder)

Conference on Structure, Bloomfield Hills [IaS] (Jun 3-6 1985)

Unit Date 1984-1985

box-folder 12 (box)

Container 4 (folder)

EPRI Workshop, San Diego (May 12-17 1985)

Unit Date 1984-1985

box-folder 12 (box)

Container 5 (folder)

NY State Section Meeting, Corning, New York (Apr 1985)

Unit Date 1984-1985

box-folder 12 (box)

Container 6 (folder)

March Meeting, Baltimore

Unit Date 1985

box-folder 12 (box)

Container 7 (folder)

Case Western Reserve, Southern Ohio / Johns Hopkins (Mar 19-21 1985)

Unit Date 1984-1985

box-folder 12 (box)

Container 8 (folder)

UVA (Feb 8 1985)**Unit Date** 1984-1985**box-folder** 12 (box)**Container** 9 (folder)**Cincinnati (Nov 1984)****Unit Date** 1984-1988**box-folder** 12 (box)**Container** 10 (folder)**Nashville****Unit Date** 1984-06**box-folder** 12 (box)**Container** 11 (folder)**March Meeting, Detroit****Unit Date** 1984**box-folder** 12 (box)**Container** 12 (folder)**DuPont****Unit Date** 1984-03-20**box-folder** 12 (box)**Container** 13 (folder)**University of Pennsylvania (Feb 17 1984)****Unit Date** 1983-1984**box-folder** 12 (box)**Container** 14 (folder)**1960-1984 Meetings, Trips, Talks, Sabbaticals List****Unit Date** 1994-2006**box-folder** 12 (box)**Container** 15 (folder)**IAS [ECD] Short Course / Amorphous Semiconductors, Bloomfield Hills, Michigan (May 18 1984)****Unit Date** 1983-1984**box-folder** 12 (box)**Container** 16 (folder)**University of Maryland (Apr 24 1984)****Unit Date** 1983-1984**box-folder** 12 (box)**Container** 17 (folder)**ECD / IAS / UM / MSU (Nov 1983)****Unit Date** 1983-1984**box-folder** 12 (box)**Container** 18 (folder)

NC State (Oct 3 1983)**Unit Date** 1981-1983**box-folder** 12 (box)**Container** 19 (folder)**SPEX (Sep 22 1983)****Unit Date** 1983-1984**box-folder** 12 (box)**Container** 20 (folder)**Penn State****Unit Date** 1983-09-15**box-folder** 12 (box)**Container** 21 (folder)**Schlumberger****Unit Date** 1983-06-11**box-folder** 12 (box)**Container** 22 (folder)**Symposium on Noncrystalline Solids, Reston, Virginia****Unit Date** 1983-05**box-folder** 12 (box)**Container** 23 (folder)**March Meeting, Los Angeles****Unit Date** 1983**box-folder** 12 (box)**Container** 24 (folder)**RPI Talk****Unit Date** 1982-10-20**box-folder** 12 (box)**Container** 25 (folder)**Visit to Penn (Apr 1982)****Unit Date** 1977-1983**box-folder** 12 (box)**Container** 26 (folder)**Dallas Trip, UT-Austin / VT-Dallas / Xerox Committee****Unit Date** 1982-04**box-folder** 13 (box)**Container** 1 (folder)**March Meeting, Dallas (1982)****Unit Date** 1981-1982**box-folder** 13 (box)**Container** 2 (folder)

Brown, CUNY, APS / DCMP (Nov, Dec 1981)

Unit Date 1981-1982

box-folder 13 (box)

Container 3 (folder)

Amorphous Conferences, Grenoble

Unit Date 1981-07

box-folder 13 (box)

Container 4 (folder)

Phoenix, Houston, Tuscan (Mar 1981)

Unit Date 1980-1988

box-folder 13 (box)

Container 5 (folder)

HU / BU / GTE (Feb 1981)

Unit Date 1980-1983

box-folder 13 (box)

Container 6 (folder)

Aspen (1980)

Unit Date 1980-1990

box-folder 13 (box)

Container 7 (folder)

In this Box

Unit Date 2006

box-folder 13 (box)

Container 8 (folder)

March Meeting, New York, New York (Mar 1980)

Unit Date 1979-1980

box-folder 13 (box)

Container 9 (folder)

8th International Conference on Amorphous and Liquid Semiconductors, Cambridge, Massachusetts

Unit Date 1979-08

box-folder 13 (box)

Container 10 (folder)

University of Paris, Place Jussieu (Jun / Jul 1979)

Unit Date 1979-1995

box-folder 13 (box)

Container 11 (folder)

Bell Labs / Exxon / NRL / Brooklyn College / NRL, New York, New Jersey (May 1979)

Unit Date 1979-1982

box-folder 13 (box)

Container 12 (folder)

March Meeting, Chicago**Unit Date** 1979**box-folder** 13 (box)**Container** 13 (folder)**Visit to McMaster / Jim Morrison (Nov 28-29 1978)****Unit Date** 1975-1979**box-folder** 13 (box)**Container** 14 (folder)**Semiconductor Conference, Edinburgh (1978)****Unit Date** 1977-1978**box-folder** 13 (box)**Container** 15 (folder)**March Meeting, Washington / Conference at IBM, Yorktown Heights/Rutgers****Unit Date** 1978**box-folder** 13 (box)**Container** 16 (folder)**APS Invited Talk, Miami****Unit Date** 1977-11**box-folder** 13 (box)**Container** 17 (folder)**Statistical Physics 13, Haifa****Unit Date** 1977-08**box-folder** 14 (box)**Container** 1 (folder)**Gordon Conference on Molecular Solids, Plymouth, New Hampshire (Jun 1977)****Unit Date** 1976-1977**box-folder** 14 (box)**Container** 2 (folder)**RZ WRC Colloquium****Unit Date** 1977-05-18**box-folder** 14 (box)**Container** 3 (folder)**Penn (Apr 1977)****Unit Date** 1977-1982**box-folder** 14 (box)**Container** 4 (folder)**March Meeting, San Diego****Unit Date** 1977**box-folder** 14 (box)**Container** 5 (folder)

RPI

Unit Date 1976-11-10

box-folder 14 (box)

Container 6 (folder)

Elliot W. Montroll's Birthday Party at the University of Rochester

Unit Date 1976-11-04

box-folder 14 (box)

Container 7 (folder)

Penn State

Unit Date 1976-09

box-folder 14 (box)

Container 8 (folder)

Aspen

Unit Date 1976-08

box-folder 14 (box)

Container 9 (folder)

MIT

Unit Date 1976-04-23

box-folder 14 (box)

Container 10 (folder)

March Meeting, Atlanta / Williamsburg

Unit Date 1976

box-folder 14 (box)

Container 11 (folder)

Gordon Conference on 2DSolids, Plymouth, New Hampshire (Jul 1975)

Unit Date 1975-1977

box-folder 14 (box)

Container 12 (folder)

PbI2 / APS March Meeting, Denver

Unit Date 1975-03

box-folder 14 (box)

Container 13 (folder)

Bat Sheva Seminar, Haifa (Jan 1975)

Unit Date 1972-1975

box-folder 14 (box)

Container 14 (folder)

Figures for VUE-Graphs, Haifa (Jan 1975)

Unit Date 1974

box-folder 14 (box)

Container 15 (folder)

University of Chicago Visit**Unit Date** 1974-10**box-folder** 14 (box)**Container** 16 (folder)**Semiconductor Conference, Stuttgart, Federal Republic of Germany****Unit Date** 1974-06**box-folder** 14 (box)**Container** 17 (folder)**Lab Visits / Correspondence: Lausanne, Zurich, Stuttgart****Unit Date** 1974-06**box-folder** 14 (box)**Container** 18 (folder)**NRL Seminar****Unit Date** 1974-05**box-folder** 14 (box)**Container** 19 (folder)**Conference on Tetrahedrally-Bonded Amorphous Semiconductors, Yorktown Heights / March Meeting, Philadelphia****Unit Date** 1973-1974**box-folder** 14 (box)**Container** 20 (folder)**Phase Transition Conference, State College, Pennsylvania****Unit Date** 1973-05**box-folder** 15 (box)**Container** 1 (folder)**1973 Talk at Palo Alto Research Center / March Meeting, San Diego****Unit Date** 1973-03**box-folder** 15 (box)**Container** 2 (folder)**Talk on Optical Properties at Amorphous and Molecular Solids, Xerox Webster Research Center****Unit Date** 1973-03**box-folder** 15 (box)**Container** 3 (folder)**Xerox Percolation Talk****Unit Date** 1973-01**box-folder** 15 (box)**Container** 4 (folder)**Varenna (Jul 1972)****Unit Date** 1972-1975**box-folder** 15 (box)**Container** 5 (folder)

Technion (1 of 2) (1971-1972)

Unit Date 1970-1972

box-folder 15 (box)

Container 6 (folder)

Scope and Contents note

Some documents are in Hebrew.

Technion (2 of 2) (1971-1972)

Unit Date 1970-1972

box-folder 15 (box)

Container 7 (folder)

March Meeting, Cleveland

Unit Date 1971

box-folder 15 (box)

Container 8 (folder)

Brown

Unit Date 1970-11

box-folder 15 (box)

Container 9 (folder)

Solid State Talk [NAS SSSP], Rochester

Unit Date 1970-11-04

box-folder 15 (box)

Container 10 (folder)

University of Rochester Talk

Unit Date 1970-10

box-folder 15 (box)

Container 11 (folder)

Semiconductor Conference [1970 Boston Conference]

Unit Date 1970-08

box-folder 15 (box)

Container 12 (folder)

Washington Lobbying Trip

Unit Date 1970

box-folder 15 (box)

Container 13 (folder)

IBM Physics Colloquium [Jim McGrody]

Unit Date 1970-04-30

box-folder 15 (box)

Container 14 (folder)

March Meeting, Dallas

Unit Date 1970

box-folder 15 (box)

Container 15 (folder)

APS New York**Unit Date** 1969-02**box-folder** 15 (box)**Container** 16 (folder)**Gordon Conference on Disordered Systems, Meridian, New Hampshire****Unit Date** 1968-08**box-folder** 15 (box)**Container** 17 (folder)**Moscow / Prague / Cambridge, UK (Jul-Aug 1968)****Unit Date** 1968-1969**box-folder** 15 (box)**Container** 18 (folder)**March Meeting, Chicago****Unit Date** 1967**box-folder** 16 (box)**Container** 1 (folder)**APS, New York****Unit Date** 1967**box-folder** 16 (box)**Container** 2 (folder)**March Meeting at Duke****Unit Date** 1966**box-folder** 16 (box)**Container** 3 (folder)**Conference on the Optical Properties of Metals, Paris (1965)****Unit Date** 1965-1966**box-folder** 16 (box)**Container** 4 (folder)**March Meeting, Kansas City****Unit Date** 1965**box-folder** 16 (box)**Container** 5 (folder)**APS, New York****Unit Date** 1964-01**box-folder** 16 (box)**Container** 6 (folder)**NATO Summer School on Optical Properties, Ghent, Belgium (Jul 1962)****Unit Date** 1962-2007**box-folder** 16 (box)**Container** 7 (folder)

RZ's First APS March Meeting, Baltimore**Unit Date** 1962-03**box-folder** 16 (box)**Container** 8 (folder)**APS, New York****Unit Date** 1960-01**box-folder** 16 (box)**Container** 9 (folder)**Series XIII: Correspondence****Miscellaneous Correspondence****Unit Date** 1971-1990**box-folder** 16 (box)**Container** 10 (folder)**Technion Correspondence (2 folders)****Unit Date** 1971-1997**box-folder** 16 (box)**Container** 11-12 (folder)**Hebrew University, Tel-Aviv Correspondence****Unit Date** 1974-1992**box-folder** 16 (box)**Container** 13 (folder)**Marty Abkowitz****Unit Date** 1973-2002**box-folder** 16 (box)**Container** 14 (folder)**Dave Adler (2 folders)****Unit Date** 1958-2001**box-folder** 17 (box)**Container** 1-2 (folder)**Hayo Ahlburg****Unit Date** 1959-1989**box-folder** 17 (box)**Container** 3 (folder)**Phil Anderson****Unit Date** 1974-1996**box-folder** 17 (box)**Container** 4 (folder)**Mark Azbel****Unit Date** 1977**box-folder** 17 (box)**Container** 5 (folder)

George Bauer

Unit Date 1970-1974

box-folder 17 (box)

Container 6 (folder)

Michel Besson (2 folders)

Unit Date 1965-2004

box-folder 17 (box)

Container 7-8 (folder)

Punit Boolchand

Unit Date 1984-2001

box-folder 17 (box)

Container 9 (folder)

Tutu Bose

Unit Date 1986-1997

box-folder 17 (box)

Container 10 (folder)

Oren Brafman (3 folders)

Unit Date 1970-1999

box-folder 17 (box)

Container 11 (folder)

box-folder 18 (box)

Container 1-2 (folder)

Bridgman

Unit Date 1961-2002

box-folder 18 (box)

Container 3 (folder)

Brodsky

Unit Date 1970-1983

box-folder 18 (box)

Container 4 (folder)

Eli Burstein

Unit Date 1970-1994

box-folder 18 (box)

Container 5 (folder)

Larry Burton

Unit Date 1984-1994

box-folder 18 (box)

Container 6 (folder)

Cardona

Unit Date 1959-2005

box-folder 18 (box)

Container 7 (folder)

Cazaux

Unit Date 1973

box-folder 18 (box)

Container 8 (folder)

Arthur C. Clarke

Unit Date 1985-1986

box-folder 18 (box)

Container 9 (folder)

Marvin Cohen

Unit Date 1980-1994

box-folder 18 (box)

Container 10 (folder)

Morrel Cohen

Unit Date 1964-1997

box-folder 18 (box)

Container 11 (folder)

Esther Conwell

Unit Date 1973-2003

box-folder 18 (box)

Container 12 (folder)

Scope and Contents note

Includes historic letters about the formation of the Division of Solid-State Physics.

Coxeter

Unit Date 1958-1985

box-folder 18 (box)

Container 13 (folder)

Ted Davis

Unit Date 1979-2000

box-folder 18 (box)

Container 14 (folder)

de Gennes

Unit Date 1976-1991

box-folder 18 (box)

Container 15 (folder)

John de Neufville

Unit Date 1979-2006

box-folder 19 (box)

Container 1 (folder)

Calvin Doss**Unit Date** 1988-2002**box-folder** 19 (box)**Container** 2 (folder)**Walter Duncan / Texas Instruments****Unit Date** 1987-1999**box-folder** 19 (box)**Container** 3 (folder)**Leo Falicov****Unit Date** 1981-1983**box-folder** 19 (box)**Container** 4 (folder)**Jeff Feng****Unit Date** 1982-2006**box-folder** 19 (box)**Container** 5 (folder)**Paul Flory****Unit Date** 1982**box-folder** 19 (box)**Container** 6 (folder)**Alan Fowler****Unit Date** 1970-1995**box-folder** 19 (box)**Container** 7 (folder)**Peter Franken****Unit Date** 1963**box-folder** 19 (box)**Container** 8 (folder)**Hellmut Fritzsche****Unit Date** 1972-1987**box-folder** 19 (box)**Container** 9 (folder)**Frank Galeener****Unit Date** 1973-1995**box-folder** 19 (box)**Container** 10 (folder)**Art Geissberger****Unit Date** 1984-2000**box-folder** 19 (box)**Container** 11 (folder)

Marty Glicksman / Rensselaer

Unit Date 1976-2007

box-folder 19 (box)

Container 12 (folder)

Rey Gonzalez

Unit Date 1987-2006

box-folder 19 (box)

Container 13 (folder)

Paul Grant

Unit Date 1967-2006

box-folder 19 (box)

Container 14 (folder)

Steve Groves [SHG]

Unit Date 1970-2006

box-folder 20 (box)

Container 1 (folder)

B.I. Halperin

Unit Date 1970-1971

box-folder 20 (box)

Container 2 (folder)

Tim Hayes

Unit Date 1978-1996

box-folder 20 (box)

Container 3 (folder)

Alan Heeger

Unit Date 1975-1982

box-folder 20 (box)

Container 4 (folder)

Heinz Henisch

Unit Date 1968-2006

box-folder 20 (box)

Container 5 (folder)

Dudley Herschback

Unit Date 1979-1988

box-folder 20 (box)

Container 6 (folder)

Jorge Hirsch

Unit Date 2005

box-folder 20 (box)

Container 7 (folder)

Diane Hoffman**Unit Date** 1984-2002**box-folder** 20 (box)**Container** 8 (folder)**Mark Holtz (2 folders)****Unit Date** 1982-2006**box-folder** 20 (box)**Container** 9-10 (folder)**Puru Jena****Unit Date** 1994-1999**box-folder** 20 (box)**Container** 11 (folder)**Ai-Lien Jung, China (1986)****Unit Date** 1981-1988**box-folder** 20 (box)**Container** 12 (folder)**Marc Kastner****Unit Date** 1972**box-folder** 21 (box)**Container** 1 (folder)**Bob Knox / RSK / Symmetry, Tunneling****Unit Date** 1970-2007**box-folder** 21 (box)**Container** 2 (folder)**Imants Lauks****Unit Date** 1982-2006**box-folder** 21 (box)**Container** 3 (folder)**Yi-Bai Li****Unit Date** 1991-1997**box-folder** 21 (box)**Container** 4 (folder)**Cliff Lilly****Unit Date** 1987-1993**box-folder** 21 (box)**Container** 5 (folder)**Gerry Lucovsky****Unit Date** 1965-2000**box-folder** 21 (box)**Container** 6 (folder)

Benoit Mandelbrot**Unit Date** 1982-1983**box-folder** 21 (box)**Container** 7 (folder)**Richard Martin****Unit Date** 1971-1997**box-folder** 21 (box)**Container** 8 (folder)**E-mail Correspondence with Richard Martin, et al. Vis- $\&\#224$ -vis IR Activity in Elemental Crystals****Unit Date** 1993-2001**box-folder** 21 (box)**Container** 9 (folder)**Scott Massie****Unit Date** 1990-2006**box-folder** 21 (box)**Container** 10 (folder)**Jim McGroddy****Unit Date** 1970-1995**box-folder** 21 (box)**Container** 11 (folder)**Laurie McNeil****Unit Date** 1985-2001**box-folder** 21 (box)**Container** 12 (folder)**Mona Moret****Unit Date** 1994-2006**box-folder** 21 (box)**Container** 13 (folder)**Si Moss****Unit Date** 1973-2004**box-folder** 22 (box)**Container** 1 (folder)**Neville Mott****Unit Date** 1968-1996**box-folder** 22 (box)**Container** 2 (folder)**Stan and Iris Ovshinsky****Unit Date** 1981-2006**box-folder** 22 (box)**Container** 3 (folder)

Damodar Pai

Unit Date n. d.

box-folder 22 (box)

Container 4 (folder)

Bill Paul (3 folders)

Unit Date 1959-2005

box-folder 22 (box)

Container 5-7 (folder)

WP's Sixtieth Birthday Party in Las Vegas (1986)

Unit Date 1964-1986

box-folder 22 (box)

Container 8 (folder)

George Pake

Unit Date 1971-1983

box-folder 22 (box)

Container 9 (folder)

WP Nominations: NAS, Mott Medal, Buckley Prize

Unit Date 1988-2001

box-folder 22 (box)

Container 10 (folder)

WP Bridgman-Medal Attempts

Unit Date 1984-1994

box-folder 22 (box)

Container 11 (folder)

Stuart Pawley

Unit Date 1972-1979

box-folder 23 (box)

Container 1 (folder)

Rudolf Peieris

Unit Date 1971-1986

box-folder 23 (box)

Container 2 (folder)

Erik Pell

Unit Date 1983-2002

box-folder 23 (box)

Container 3 (folder)

Correspondence with Jim Phillips

Unit Date 1969-2004

box-folder 23 (box)

Container 4 (folder)

Zoran Popovic**Unit Date** 1979-1989**box-folder** 23 (box)**Container** 5 (folder)**Ilan Riess****Unit Date** 1972-2002**box-folder** 23 (box)**Container** 6 (folder)**Nick Rivier****Unit Date** 1980-1997**box-folder** 23 (box)**Container** 7 (folder)**Gareth Roberts [G2]****Unit Date** 1970-2005**box-folder** 23 (box)**Container** 8 (folder)**Bill Salaneck****Unit Date** 1983-2006**box-folder** 23 (box)**Container** 9 (folder)**Carl Sagan****Unit Date** 1975**box-folder** 23 (box)**Container** 10 (folder)**Dror Sarid****Unit Date** 1976-1994**box-folder** 23 (box)**Container** 11 (folder)**Harvey Scher****Unit Date** 1978-2006**box-folder** 23 (box)**Container** 12 (folder)**Brian Schwartz****Unit Date** 1985-2001**box-folder** 23 (box)**Container** 13 (folder)**Phil Schmid****Unit Date** 1974-1996**box-folder** 23 (box)**Container** 14 (folder)

Boris Shapiro

Unit Date 1979-1987

box-folder 24 (box)

Container 1 (folder)

Bea Shube

Unit Date n.d.

box-folder 24 (box)

Container 2 (folder)

Alf Siochi

Unit Date 1988-2006

box-folder 24 (box)

Container 3 (folder)

Stu Solin / Visits: Xerox (1969, 1967), Virginia Tech (1986, 2006)

Unit Date 1968-2006

box-folder 24 (box)

Container 4 (folder)

Wantana Songprakob [Nui]

Unit Date 1995-2006

box-folder 24 (box)

Container 5 (folder)

Walter Spear

Unit Date 1983-1988

box-folder 24 (box)

Container 6 (folder)

Tony Stradling

Unit Date 1989-2003

box-folder 24 (box)

Container 7 (folder)

Jan Tauc (3 folders)

Unit Date 1962-2002

box-folder 24 (box)

Container 8-9 (folder)

box-folder 25 (box)

Container 1 (folder)

Craig Taylor

Unit Date 1974-1992

box-folder 25 (box)

Container 2 (folder)

Mike Thorpe

Unit Date 1983-2006

box-folder 25 (box)

Container 3 (folder)

David Thouless

Unit Date 1979-1980

box-folder 25 (box)

Container 4 (folder)

Jim Tsang

Unit Date 1996-2001

box-folder 25 (box)

Container 5 (folder)

Dave Tsu

Unit Date 1995-2001

box-folder 25 (box)

Container 6 (folder)

Ray Tsu

Unit Date 1970-2002

box-folder 25 (box)

Container 7 (folder)

Sathan Vijarnwannaluck ["Daeng"]

Unit Date 1995-2004

box-folder 25 (box)

Container 8 (folder)

Denis Weaire

Unit Date 1983-2005

box-folder 25 (box)

Container 9 (folder)

Bernie Weinstein (2 folders)

Unit Date 1973-2006

box-folder 25 (box)

Container 10-11 (folder)

Gerhard Weiser

Unit Date 1971-1990

box-folder 26 (box)

Container 1 (folder)

Barbara Wilson

Unit Date 1981-1994

box-folder 26 (box)

Container 2 (folder)

Adrian Wright

Unit Date 1986-1994

box-folder 26 (box)

Container 3 (folder)

M. K. Wu / high Te

Unit Date 1987-1988

box-folder 26 (box)

Container 4 (folder)

A. D. Yoffe

Unit Date 1971-1974

box-folder 26 (box)

Container 5 (folder)

Series IX: Zallen Research Materials: Optical Properties / Phonons / Elemental Crystals / Layer Crystals / Pressure-Raman / Percolation

Percolation Lectures, Xerox

Unit Date 1973-1977

box-folder 26 (box)

Container 6 (folder)

Polychromatic Percolation (1976-1977)

Unit Date 1970-1978

box-folder 26 (box)

Container 7 (folder)

Percolation Correspondence

Unit Date 1977-1980

box-folder 26 (box)

Container 8 (folder)

PCPC Correspondence

Unit Date 1977-1978

box-folder 26 (box)

Container 9 (folder)

Polychromatic Percolation Color VUE Graphs and Drawings

Unit Date n.d.

box-folder 26 (box)

Container 10 (folder)

PCPC Flat Plates & Originals

Unit Date 1976-1977

box-folder 26 (box)

Container 11 (folder)

Percolation

Unit Date 1977

box-folder 26 (box)

Container 12 (folder)

Percolation Originals for Stat Phys Slides

Unit Date 1977

box-folder 26 (box)

Container 13 (folder)

PCPC

Unit Date 1970-1977

box-folder 26 (box)

Container 14 (folder)

Harvey's Sec. (3) of 25

Unit Date 1971

box-folder 26 (box)

Container 15 (folder)

Percolation Figures and Flat Plates

Unit Date 1970

box-folder 26 (box)

Container 16 (folder)

Zallen and Scher Correspondence

Unit Date 1970-1971

box-folder 26 (box)

Container 17 (folder)

Figures / Zallen & Scher

Unit Date 1971

box-folder 26 (box)

Container 18 (folder)

Z & S Percolation Outlines

Unit Date 1970-1971

box-folder 26 (box)

Container 19 (folder)

PbI2/2H→?/ Pressure-Inducted Transition [Notes from Open Desk File January 1980]

Unit Date 1974-1980

box-folder 26 (box)

Container 20 (folder)

PbI2 Under Pressure [Unpublished]

Unit Date 1975-1985

box-folder 26 (box)

Container 21 (folder)

Correspondence / 2H→4H PbI2 Paper

Unit Date 1975

box-folder 26 (box)

Container 22 (folder)

Sound-Velocity Accordion

Unit Date 1969-1977

box-folder 26 (box)

Container 23 (folder)

As₄S₄ & S₄N₄

Unit Date n.d.

box-folder 26 (box)

Container 24 (folder)

Zallen's Law; $\gamma \sim 1/\omega^2$

Unit Date 1978-1982

box-folder 27 (box)

Container 1 (folder)

As₄S₄/S₄N₄ Figures and Drawings

Unit Date n.d.

box-folder 27 (box)

Container 2 (folder)

Correspondence: Influence of Pressure & Temperature on Phonons in As₄S₄ & S₄N₄

Unit Date 1978-1979

box-folder 27 (box)

Container 3 (folder)

Sulfur Optical Properties Paper [EDZ]

Unit Date 1976

box-folder 27 (box)

Container 4 (folder)

ZB Review (≈ 1974)

Unit Date 1973-1985

box-folder 27 (box)

Container 5 (folder)

Correspondence: Zallen and Blossey Review on Arsenic Chalcogenide Layer Crystals

Unit Date 1973-1977

box-folder 27 (box)

Container 6 (folder)

Correspondence: Zallen & Conwell Libron Paper

Unit Date 1973-1980

box-folder 27 (box)

Container 7 (folder)

Notes on Simple Spring Model

Unit Date 1972-1973

box-folder 27 (box)

Container 8 (folder)

Vibrational Reduced Mass μ **Unit Date** 1969-1977**box-folder** 27 (box)**Container** 9 (folder)**RL modes (1974)****Unit Date** 1969-1975**box-folder** 27 (box)**Container** 10 (folder)**Pressure-Raman Paper Correspondence****Unit Date** 1973-1980**box-folder** 27 (box)**Container** 11 (folder)**Pressure-Raman (1974)****Unit Date** 1972-1973**box-folder** 27 (box)**Container** 12 (folder)**Drawings: Phonons in Two-Dimensional Solids****Unit Date** 1976**box-folder** 27 (box)**Container** 13 (folder)**Pyrene & Pressure-Raman Figures II****Unit Date** n.d.**box-folder** 27 (box)**Container** 14 (folder)**Pressure-Raman Paper Figures****Unit Date** n.d.**box-folder** 27 (box)**Container** 15 (folder)**Stuttgart / Glossy Prints & Flat Plates [to size]****Unit Date** 1974**box-folder** 27 (box)**Container** 16 (folder)**Stuttgart Paper 16 D 06 Originals****Unit Date** 1974**box-folder** 27 (box)**Container** 17 (folder)**Pressure-Raman & Rigid Layer Figures****Unit Date** 1974**box-folder** 27 (box)**Container** 18 (folder)

Talk on Optical Properties of Amorphous and Molecular Solids

Unit Date 1973-03

box-folder 27 (box)

Container 19 (folder)

Solid State Spectroscopy / One Page Review of Accomplishments (Jan 28 1974)

Unit Date 1974-1977

box-folder 27 (box)

Container 20 (folder)

Sb₂S₃ / Infrared & UV Spectra Flat Plate Set 1 [unpublished]

Unit Date n.d.

box-folder 27 (box)

Container 21 (folder)

Sb₂S₃ Interband & Lattice Spectra [unpublished] (1971)

Unit Date 1970-1972

box-folder 27 (box)

Container 22 (folder)

2 Figures: Rigid Layer Modes in Chalcogenide Crystals: As₂Se₃

Unit Date n.d.

box-folder 27 (box)

Container 23 (folder)

c- & a- As₂S₃ XPS

Unit Date 1976

box-folder 27 (box)

Container 24 (folder)

Amorphous As₂S₃ & As₂Se₃ Absorption Edges

Unit Date 1970-1971

box-folder 27 (box)

Container 25 (folder)

Electronic Structure of Crystalline and Amorphous As₂S₃ & As₂Se₃

Unit Date 1970-1971

box-folder 27 (box)

Container 26 (folder)

R(h₂), @ 10°K; c-As₂S₃ & c-As₂Se₃

Unit Date n.d.

box-folder 27 (box)

Container 27 (folder)

ZDEX Correspondence (1971)

Unit Date 1968-1976

box-folder 27 (box)

Container 28 (folder)

Diperiodic Groups Correspondence

Unit Date 1975-1984

box-folder 27 (box)

Container 29 (folder)

As₂Se₃-As₂Se₃ / Latt. Vib. Flat Plates 2

Unit Date n.d.

box-folder 27 (box)

Container 30 (folder)

e* (As₂S₃)

Unit Date 1969-1979

box-folder 28 (box)

Container 1 (folder)

e*

Unit Date 1967-1977

box-folder 28 (box)

Container 2 (folder)

As₂S₃ & As₂Se₃ average v

Unit Date 1969-1970

box-folder 28 (box)

Container 3 (folder)

ZSW (1971)

Unit Date 1967-1976

box-folder 28 (box)

Container 4 (folder)

Amorphous Ge (1968-1969)

Unit Date 1968-1970

box-folder 28 (box)

Container 5 (folder)

Se Review / Flat Plates

Unit Date 1978-1979

box-folder 28 (box)

Container 6 (folder)

Se Review

Unit Date 1970

box-folder 28 (box)

Container 7 (folder)

Figures for Se Review

Unit Date n.d.

box-folder 28 (box)

Container 8 (folder)

Se Review-Spare Flat Plates

Unit Date n.d.

box-folder 28 (box)

Container 9 (folder)

Drawings for Slides: Reststrahlen in Elemental Crystals

Unit Date n.d.

box-folder 28 (box)

Container 10 (folder)

Outlines: Z & CZ

Unit Date 1967-1968

box-folder 28 (box)

Container 11 (folder)

Correspondence about Z & CZ

Unit Date 1968

box-folder 28 (box)

Container 12 (folder)

1968 Theory Paper / IR Modes in Elemental Crystals

Unit Date 1967-1993

box-folder 28 (box)

Container 13 (folder)

Zallen and Chen, Moscow Conference

Unit Date 1968

box-folder 28 (box)

Container 14 (folder)

1 Set of Good Flat Plates and Glossy Prints / Z & CZ

Unit Date n.d.

box-folder 28 (box)

Container 15 (folder)

Spare Flat Plate Copies for Z & CZ

Unit Date 1968

box-folder 28 (box)

Container 16 (folder)

Shell-Model Notes

Unit Date 1967-1968

box-folder 28 (box)

Container 17 (folder)

Group Theory for D3? Dynamical Matrix / NNN Models for A2 Modes (9/21-10/2/1967)

Unit Date 1967

box-folder 28 (box)

Container 18 (folder)

CZ (10/15-12/14/1967)

Unit Date 1967-1968

box-folder 28 (box)

Container 19 (folder)

D34

Unit Date n.d.

box-folder 28 (box)

Container 20 (folder)

Coulomb Interaction; IC's Notes from BH / Kellermann

Unit Date 1940-1969

box-folder 28 (box)

Container 21 (folder)

Chen & Zallen (10/18/1967-2/20/1968)

Unit Date 1967-1968

box-folder 28 (box)

Container 22 (folder)

HgS Thermal Modulation / RX Notes, Calculations, & Drawings: Abkowitz, Pfister, & Zallen

Unit Date 1970-1972

box-folder 28 (box)

Container 23 (folder)

HgS Thermal Modulation: Abkowitz, Pfister, & Zallen

Unit Date n.d.

box-folder 28 (box)

Container 24 (folder)

Semiconductor-Semimetal Transitions by Alloying

Unit Date 1970

box-folder 28 (box)

Container 25 (folder)

Semi Metals

Unit Date 1957-1970

box-folder 28 (box)

Container 26 (folder)

HgSe (1997)

Unit Date 1970-1997

box-folder 28 (box)

Container 27 (folder)

 β -HgS Figures for Paper

Unit Date n.d.

box-folder 28 (box)

Container 28 (folder)

β -HgS / n, m*, τ **Unit Date** 1970-1998**box-folder** 28 (box)**Container** 29 (folder) **β -HgS Analyses for Impurities****Unit Date** 1967-1970**box-folder** 28 (box)**Container** 30 (folder) **β -HgS Talk****Unit Date** 1970**box-folder** 28 (box)**Container** 31 (folder) **β -HgS****Unit Date** 1962-1970**box-folder** 29 (box)**Container** 1 (folder) **β -HgS Figures****Unit Date** n.d.**box-folder** 29 (box)**Container** 2 (folder)**Unpublished HgS UV****Unit Date** 1979**box-folder** 29 (box)**Container** 3 (folder)**Edge Reflectivity Luminescence: HgS****Unit Date** 1967**box-folder** 29 (box)**Container** 4 (folder)**HgS Correspondence****Unit Date** 1966-1974**box-folder** 29 (box)**Container** 5 (folder)**HgS Flat Plates [set 2]****Unit Date** 1969**box-folder** 29 (box)**Container** 6 (folder)**HgS Original Draft****Unit Date** 1968-1969**box-folder** 29 (box)**Container** 7 (folder)

Madelung Energy

Unit Date 1967-1969

box-folder 29 (box)

Container 8 (folder)

HgS Mode Models

Unit Date 1967-1969

box-folder 29 (box)

Container 9 (folder)

HgS IR-R Selection-Rule Notes

Unit Date 1963-1969

box-folder 29 (box)

Container 10 (folder)

HgS Edge

Unit Date 1966-1968

box-folder 29 (box)

Container 11 (folder)

 α -HgS / Crystal Growth, Preparation

Unit Date 1970-1994

box-folder 29 (box)

Container 12 (folder)

HgS a-c' Planar Projection

Unit Date 1969

box-folder 29 (box)

Container 13 (folder)

HgS Crystal Structure

Unit Date 1969

box-folder 29 (box)

Container 14 (folder)

E2 Sum Rule: Ehrenreich Nozières & Pines Pippard

Unit Date 1967-1969

box-folder 29 (box)

Container 15 (folder)

RZ Notes on Optical Properties

Unit Date 1962

box-folder 29 (box)

Container 16 (folder)

Smith / NATO Lectures, Gent Belgium (1962)

Unit Date 1962-1968

box-folder 29 (box)

Container 17 (folder)

Warschauer**Unit Date** 1960**box-folder** 29 (box)**Container** 18 (folder)

Series X: Zallen Research Materials 1979-2005: nanocrystalline GaAs & AlO(OH) / 1994 elemental crystals / TiO₂ / GaAs:C and Global information: CV / mailing list / experimental methods/optical properties notes

Mailing Lists**Unit Date** 1980-1994**box-folder** 29 (box)**Container** 19 (folder)**CV****Unit Date** 1970-2005**box-folder** 29 (box)**Container** 20 (folder)**RZ Refereeing Reports [some of them]****Unit Date** 1975-2005**box-folder** 29 (box)**Container** 21 (folder)**Survey Absorption Spectrum [Bink original]****Unit Date** 1967-1968**box-folder** 29 (box)**Container** 22 (folder)**T(hv)-Absorption Edge Procedure & Thickness from Interference Fringes****Unit Date** 1962-1996**box-folder** 29 (box)**Container** 23 (folder)**Notes on the Optical Properties of Metals (1 of 2)****Unit Date** 1960-2002**box-folder** 29 (box)**Container** 24 (folder)**Optical Properties, etc (Folder 2 of 2)****Unit Date** 1957-2002**box-folder** 30 (box)**Container** 1 (folder)**s→p Energy Spacings & Bonding****Unit Date** 1969-1972**box-folder** 30 (box)**Container** 2 (folder)

External Optics for Vis-UV Spectrometer (≈1966)

Unit Date 1965-1975

box-folder 30 (box)

Container 3 (folder)

Optical Spectrometer Visible / Ultraviolet

Unit Date 1965-1996

box-folder 30 (box)

Container 4 (folder)

Miscellaneous Raman-Lab Notes

Unit Date 1975-2004

box-folder 30 (box)

Container 5 (folder)

Miscellaneous Experimental

Unit Date 1958-1975

box-folder 30 (box)

Container 6 (folder)

Infrared Lab

Unit Date 2001-2006

box-folder 30 (box)

Container 7 (folder)

Photomultipliers

Unit Date 2001

box-folder 30 (box)

Container 8 (folder)

Spectrometers

Unit Date 1965-1975

box-folder 30 (box)

Container 9 (folder)

Etches

Unit Date 1966

box-folder 30 (box)

Container 10 (folder)

Samples Sent Out

Unit Date 1974-2004

box-folder 30 (box)

Container 11 (folder)

Brookite-TiO₂ Paper (1996-2005)

Unit Date 1968-2005

box-folder 30 (box)

Container 12 (folder)

GaAs:C

Unit Date 1996-2002

box-folder 30 (box)

Container 13 (folder)

SBT Versus Temp / Kamba et al. [Kamba, Petzelt, Moret, Garg, Barber, Zallen]

Unit Date 1999-2002

box-folder 30 (box)

Container 14 (folder)

e* [anatase]

Unit Date 1961-1996

box-folder 31 (box)

Container 1 (folder)

Anatase-TiO₂ Paper

Unit Date 1996

box-folder 31 (box)

Container 2 (folder)

SrBiTa₂O₉ [mostly 1997]

Unit Date 1995-1997

box-folder 31 (box)

Container 3 (folder)

SBT IR Work / MZNJD Paper

Unit Date 1997

box-folder 31 (box)

Container 4 (folder)

Analysis for Number of IR and Raman Modes / SBT

Unit Date 1996-1997

box-folder 31 (box)

Container 5 (folder)

Moret Invention Disclosure on Thin-Film Deposition

Unit Date 1996

box-folder 31 (box)

Container 6 (folder)

RZ Contribution to Encyclopaedia Britannica

Unit Date 1993-1996

box-folder 31 (box)

Container 7 (folder)

1994 Theory Paper / IR Modes In Elemental Crystals

Unit Date 1993-1998

box-folder 31 (box)

Container 8 (folder)

Correspondence: ZMN

Unit Date 1993-1994

box-folder 31 (box)

Container 9 (folder)

Figure 1 [Originals]

Unit Date 1993

box-folder 31 (box)

Container 10 (folder)

Solid H2 (mostly 1993)

Unit Date 1968-1997

box-folder 31 (box)

Container 11 (folder)

CD Figures Back from Physics Review

Unit Date 1992-1993

box-folder 31 (box)

Container 12 (folder)

Calvin Doss / Sol-Gel Alumina AlO(OH)

Unit Date 1990-1993

box-folder 31 (box)

Container 13 (folder)

Tauschtrift Paper

Unit Date 1991-1992

box-folder 31 (box)

Container 14 (folder)

FZ Figures

Unit Date 1988-1992

box-folder 31 (box)

Container 15 (folder)

FZ-MRS Short Paper

Unit Date 1988-1993

box-folder 31 (box)

Container 16 (folder)

HZBM Figures

Unit Date 1987

box-folder 31 (box)

Container 17 (folder)

Miscellaneous GaAs

Unit Date 1988-2002

box-folder 31 (box)

Container 18 (folder)

NSF Referees on BDZ

Unit Date 1988

box-folder 31 (box)

Container 19 (folder)

Work with Texas Instruments / GaAs

Unit Date 1985-1989

box-folder 31 (box)

Container 20 (folder)

HZGS / GaAs / Journal of Applied Physics Correspondence

Unit Date 1985-1986

box-folder 31 (box)

Container 21 (folder)

Higher-dimensional Sphere Packings Notes & Calculations (1985)

Unit Date 1976-1985

box-folder 31 (box)

Container 22 (folder)

Paper for Texas A&M (September 1986)

Unit Date 1986-1987

box-folder 31 (box)

Container 23 (folder)

Originals for VUE-Graphs / Miscellaneous Amorphous

Unit Date n.d.

box-folder 31 (box)

Container 24 (folder)

Semiconductor Handbook [WP] Correspondence

Unit Date 1977-1990

box-folder 32 (box)

Container 1 (folder)

GeS₂ Unpublished Raman Figures (work done $\approx$ 1982)

Unit Date 1986-1989

box-folder 32 (box)

Container 2 (folder)

Grenoble Figures

Unit Date n.d.

box-folder 32 (box)

Container 3 (folder)

GeS₂ Article / Linguini

Unit Date 1979-1981

box-folder 32 (box)

Container 4 (folder)

Figures for Crystal Structures

Unit Date 1979

box-folder 32 (box)

Container 5 (folder)

Graph for the Diamond Structure

Unit Date 1981

box-folder 32 (box)

Container 6 (folder)

Z.W: Local Topography & Geometry [Table III]

Unit Date 1979-1981

box-folder 32 (box)

Container 7 (folder)

Crystal Structures Handwritten Manuscript

Unit Date 1975-1982

box-folder 32 (box)

Container 8 (folder)

Distribution of Structures / Background Material for Figure 1

Unit Date 1975-1979

box-folder 32 (box)

Container 9 (folder)

Crystal Structures Tables

Unit Date 1979

box-folder 32 (box)

Container 10 (folder)

RZ Review of the Book Ordering in Two Dimensions

Unit Date 1981

box-folder 32 (box)

Container 11 (folder)

Statphys Review

Unit Date n.d.

box-folder 32 (box)

Container 12 (folder)

(CI2)2 Herschbach; Beswick & Jertner

Unit Date 1979-1994

box-folder 32 (box)

Container 14 (folder)

Annals of the Israel Physical Society Volume 5

Unit Date 1982-1983

box-folder 32 (box)

Container 15 (folder)

Pressure-Raman Effects in Covalent and Molecular Solids by B. A. Weinstein and R. Zallen

Unit Date n.d.

box-folder 32 (box)

Container 16 (folder)

W & Z Springer Review

Unit Date 1981-1987

box-folder 32 (box)

Container 17 (folder)

Stochastic Geometry: Aspects of Amorphous Solids

Unit Date 1979

box-folder 32 (box)

Container 18 (folder)

Stochastic Geometry Photostats back from North Holland

Unit Date n.d.

box-folder 32 (box)

Container 19 (folder)

Correspondence Concerning Stochastic Geometry...

Unit Date 1978-1987

box-folder 32 (box)

Container 20 (folder)

Series XI: Material for the Physics of Amorphous Solids and the Book in Several Editions

Zallen, Richard. The Physics of Amorphous Solids. New York: John Wiley & Sons

Unit Date 1983

box-folder 32 (box)

Container 21 (folder)

Zallen, Richard. The Physics of Amorphous Solids. New York: John Wiley & Sons

Unit Date 1998

box-folder 33 (box)

Container 1 (folder)

Zallen, Richard. The Physics of Amorphous Solids. [Chinese Translation], Beijing: Beijing University Press

Unit Date 1998

box-folder 33 (box)

Container 2 (folder)

Zallen, Richard. The Physics of Amorphous Solids. [Hardcover Edition] New York: John Wiley & Sons

Unit Date 1983

box-folder 33 (box)

Container 3 (folder)

Zallen, Richard. The Physics of Amorphous Solids. [Polish Translation] Warszawa: Wydawnictwo Naukowe PWN

Unit Date 1994

box-folder 33 (box)

Container 4 (folder)

Zallen, Richard. The Physics of Amorphous Solids. Weinheim: Wiley-VCH

Unit Date 2004

box-folder 33 (box)

Container 5 (folder)

Manuscript Index for The Physics of Amorphous Solids

Unit Date 1983

box-folder 33 (box)

Container 6 (folder)

Fundamentals of Amorphous Semiconductors. Washington, DC: National Academy of Sciences

Unit Date 1972

box-folder 33 (box)

Container 7 (folder)

Structural Model for Amorphous Silicon and Germanium by D. E. Polk for the Office of Naval Research

Unit Date 1970

box-folder 33 (box)

Container 8 (folder)

References, Captions, and Hand Insertions

Unit Date 1981-1982

box-folder 34 (box)

Container 1 (folder)

Correspondence about Book

Unit Date 1985-1998

box-folder 34 (box)

Container 2 (folder)

Bea Shube / Correspondence about RZ Book

Unit Date 1975-1988

box-folder 34 (box)

Container 3-4 (folder)

Drafts-Chapter One

Unit Date 1976-1981

box-folder 34 (box)

Container 5 (folder)

Drafts-Chapter Two

Unit Date 1974-1980

box-folder 34 (box)

Container 6 (folder)

Scope and Contents note

Entitled Chapter Two on folder but numbering indicates folder represents original Chapter One.

Drafts-Chapter Three

Unit Date 1978-1979

box-folder 34 (box)

Container 7 (folder)

Scope and Contents note

Entitled Chapter Three on folder but numbering indicates folder represents original Chapter Four.

Drafts-Percolation Chapter Four

Unit Date 1980-1981

box-folder 35 (box)

Container 1 (folder)

Scope and Contents note

Entitled Chapter Four on folder but numbering indicates folder represents original Chapter Five.

Drafts-Chapter Five

Unit Date 1982

box-folder 35 (box)

Container 2 (folder)

Drafts-Chapter Six

Unit Date 1982

box-folder 35 (box)

Container 3 (folder)

Chapter One-Ink Originals

Unit Date 1981

box-folder 35 (box)

Container 4 (folder)

Chapter Two-Ink Originals

Unit Date 1982

box-folder 35 (box)

Container 5 (folder)

Chapter Three-Ink Originals

Unit Date n.d.

box-folder 35 (box)

Container 6 (folder)

Chapter Four-Percolation Ink Originals

Unit Date 1981

box-folder 35 (box)

Container 7 (folder)

Chapter Five-Ink Originals

Unit Date n.d.

box-folder 35 (box)

Container 8 (folder)

Chapter Six-Ink Originals

Unit Date n.d.

box-folder 35 (box)

Container 9 (folder)

Stochastic Geometry Ink Originals

Unit Date n.d.

box-folder 35 (box)

Container 10 (folder)

Flyers-The Physics of Amorphous Solids

Unit Date 1983

box-folder 35 (box)

Container 11 (folder)

Flyers-The Physics of Amorphous Solids

Unit Date 1983

box-folder 35 (box)

Container 12 (folder)

The Physics of Amorphous Solids Correspondence

Unit Date 1982-1990

box-folder 35 (box)

Container 13 (folder)

Permissions for Figures

Unit Date 1980-1983

box-folder 35 (box)

Container 14 (folder)

Percolation Sources

Unit Date 1977-1981

box-folder 35 (box)

Container 15 (folder)

Notes for Book

Unit Date 1977-1978

box-folder 35 (box)

Container 16 (folder)

Glass Transitions

Unit Date 1978-1982

box-folder 36 (box)

Container 1 (folder)

Mott Transition / Anderson Transition

Unit Date 1968-1982

box-folder 36 (box)

Container 2 (folder)

Technion Lecturer**Unit Date** 1968-1972**box-folder** 36 (box)**Container** 3 (folder)**Bat-Sheva Lecture Notes, Haifa****Unit Date** 1973-1976**box-folder** 36 (box)**Container** 4 (folder)**Drawings for Book****Unit Date** 1982**box-folder** 36 (box)**Container** 5 (folder)