

Ham, William T., Jr. papers

William T. Ham, Jr. papers
1933-1996

Title Statement

Ham, William T., Jr. papersA Guide to the Dr. William T. Ham, Jr., papers 1933-1996 2010.May.5

Subtitle: A Collection in Special Collections and Archives, Health Sciences Library, Virginia Commonwealth University 2010/May/5

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Publication Statement

Publisher: VCU Health Sciences Library

Special Collections and Archives 509 N 12th St
Box 980582

Richmond, Virginia 23298

Business Number: (804) 828-9898

libsca@vcu.edu

URL: <https://www.library.vcu.edu/research-teaching/special-collections-and-archives/locations/>

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Profile Description

Creation: This finding aid was produced using ArchivesSpace on 2026-02-03 07:01:39 -0500.

Language Usage: Description is written in: English, Latin script.

Descriptive Rules: Describing Archives: A Content Standard

Descriptive Summary

Unit ID

2010.May.5

Unit ID

/repositories/3/resources/318

Unit Date

1933-1996

Language

English

Extent

7 Linear Feet

Repository

VCU Health Sciences Library

Administrative Information

Access Restrictions

Collection is open to research.

Use Restrictions

There are no restrictions.

Acquisition Information

Gift of the estate of William T. Ham, Jr.

Preferred Citation

A Guide to the Papers of Dr. William T. Ham, Jr., 1933-1996. Accession # 2010/May/5, Special Collections and Archives, Health Sciences Library, Virginia Commonwealth University, Richmond, Va.

Biographical Information

Dr. William Taylor Ham, Jr. (1908-1998) was born in Norfolk, Virginia, to William and Lucy Ham. He attended Episcopal High School and then the University of Virginia where he received a B.S. in Engineering and an M.S. and Ph.D. in Physics in 1931, 1933, and 1935 respectively. After completing his degrees at Virginia, Ham taught physics at Columbia University from 1936 to 1937. Upon the death of his father in 1937, he worked briefly in the family flour business, W.T. Ham & Company, Inc. In 1938, he returned to the University of Virginia to assist Dr. Jesse Beams and Dr. Leland B. Snoddy who were developing ultracentrifugation to separate uranium isotopes as part of the Manhattan Project.

During World War II Ham served in the Pacific with the United States Marine Corp. He was assigned as a radar officer for the 5th AA Battalion on Okinawa at the conclusion of the war. Ham left the Marine Corps in 1946, having attained the rank of Major. He returned to Charlottesville to head the Division of Physics and Electronics at the Institute of Textile Technology.

In 1948, Ham joined the faculty of the Department of Surgery at the Medical College of Virginia (MCV) as an associate professor. He worked with Dr. Everett I. Evans and his team to study the biological effects of thermal and ionizing radiation in nuclear warfare. He also participated in "Operation Ranger," a series of nuclear tests that provided important data on the time duration of thermal flash from a nuclear fireball, conducted in Nevada in 1951. This data aided studies on thermal flash burns and provided the U.S. military with crucial information for planning strategies. Ham went with a five-man team to Japan in 1956, at the behest of the National Research Council and the Atomic Bomb Casualty Commission. The team investigated the feasibility of gathering accurate data on the exact level of radiation exposure for each survivor of the atomic bombings of Hiroshima and Nagasaki. Their findings were the foundation for "Project Ichiban," a program to document the location of survivors at the instant the bombs detonated. Since many survivors were indoors at the time of detonation, the project recreated traditional wood-frame Japanese houses on a test site in Nevada. These structures were subjected to a simulated nuclear blast to study their shielding properties.

When MCV created the Department of Biophysics in 1953, Ham became the first chair and was promoted to the rank of full professor. He taught courses on biophysics and radiobiology. In addition he continued his research on retinal burns in rabbits, collaborated with colleagues, and served as a consultant for groups such as the Atomic Energy Commission, Corning Glass Works, Eastman Kodak Co., Oak Ridge National Laboratory, the Polaroid Corporation, and Xerox, among others. As laser technology developed in the 1960s, Ham began to study the ocular effects of laser radiation and other light sources such as the sun. Ham and his colleagues conducted research that demonstrated the damaging effects of extended exposure to blue light and its role in age-related macular degeneration. He retired as chair of Biophysics in 1976, and was named professor emeritus. Ham continued as an active researcher until 1989.

Over his career Ham authored 40 published papers, and received numerous recognitions including the Life Achievement Award in Science presented by the Science Museum of Virginia in 1990 and the George M. Wilkening Award in Laser Safety in 1997. Ham has been described as a pioneer and leader in the biomedical application of lasers and as an expert on the effects of radiant energy on the retina.

Ham married Jean Stratton Anderson (b. 1913) of Aberdeen, Scotland in 1940. They had two children, Christina Duncan Anderson Ham and Elspeth Read Ham.

Scope and Content

The papers of Dr. William Taylor Ham, Jr., contain both personal and professional materials, but are primarily composed of items relating to his work as a biophysist and as a professor at the Medical College of Virginia (MCV). The collection includes accounts, correspondence, lecture and conference materials, notebooks, his journal articles, research reports, unpublished works, and papers relating to his tenure as a professor and chair of the Department of Biophysics at MCV.

Series 1: Personal Papers, 1933-1995. The collection contains the personal papers of Ham including accounts and receipts, correspondence, curriculum vitae and biographies of Ham and his colleagues, educational materials (including his school notebooks, thesis, and transcripts), family genealogy, the papers of his wife Jean Stratton (Anderson) Ham (pertaining mostly to her process of immigration and naturalization), estate papers of his mother Lucy G. Ham, photographs, short stories composed by Ham, United States Marine

Corps material, and other personal papers.

Series 2: Professional Papers, 1937-1996. Consists of papers relating to Ham's professional career. This series is divided into four subseries.

Subseries 2.1: Correspondence and Subject Files. Contains general correspondence relating to Ham's professional life. This series also contains files kept by Ham on specific colleagues and subjects, which include correspondence and related materials. Files of particular note are the "Atomic Energy Commission" and the "Operation Ranger," which highlight Ham's participation in research on the effects of nuclear warfare and "Congressional Testimony" which includes his presentation before Congress on the hazards of laser radiation.

Subseries 2.2: Notebooks. This subseries contains notebooks, 1948-1988, which include notes on experiments and research projects, meetings, professional literature, lectures, and some personal reflections. Items of note include a separate volume detailing Ham's work on a grant to study the effects of radiation on rabbit retinas for the Atomic Energy Commission from 1958 to 1963. His notebook dated 1954-1957, contains notes and reflections on his trip to Japan in 1956. Ham traveled to Japan at the behest of the National Research Council and the Atomic Bomb Casualty Commission to study the feasibility of gathering specific data on radiation exposure received by those who survived the atomic bombs dropped on Hiroshima and Nagasaki.

Subseries 2.3: Conferences, Lectures, and Workshops. This subseries is comprised of materials relating to conferences, lectures, symposiums, and workshop in which Ham participated. Of particular interest are the several drafts of his often-delivered "Art and Science" lecture and his talks on nuclear weapons and civil defense that he presented to civic groups and schools.

Subseries 2.4: Articles, Reports, and Unpublished Works. Contains drafts of scientific papers and reprints of journal publications authored or co-authored by Ham. They pertain mainly to the effects of light and radiation on the eye and flash burns or retinal damage due to nuclear weapons. This series contains Ham's unpublished book manuscript entitled, "The Biological Effects of Electromagnetic Radiation of the Eye."

Series 3: MCV Papers, 1948-1994. This series consists of papers relating to Ham's tenure at the Medical College of Virginia. It includes correspondence, course files, materials relating to the Department of Biophysics, and other items associated with his career at MCV. Of interest is the history of the Department of Biophysics written by Ham entitled, *Biophysics at MCV, 1948-1968*, and his course files which contain notebooks with lecture notes and other materials relating to his teaching. This series includes background information compiled by VCU in 1994 to refute allegations that the University conducted unethical radiation studies during the 1950s, in which Ham participated.

Arrangement

This collection is divided into three series: Series 1, Personal Papers, 1933-1995; Series 2, Professional Papers, 1937-1996; and Series 3, MCV Papers, 1948-1994.

Efforts have been made to maintain the original organization when possible. Files are arranged alphabetically within each series and the materials within the files are arranged chronologically where applicable.

Description of Subordinate Components

Series 1: Personal papers

Unit ID 1

Unit ID /repositories/3/archival_objects/2755

Unit Date 1933-1995

Account and Receipts

Unit ID /repositories/3/archival_objects/2758

Mixed Materials 1 (box)

Container 1 (folder)

Accounts, Expense books

Unit ID /repositories/3/archival_objects/2759

Unit Date 1953-1991

Mixed Materials 1 (box)

Container 2-4 (folder)

Applications

Unit ID /repositories/3/archival_objects/2760

Mixed Materials 1 (box)

Container 5 (folder)

Calendars

Unit ID /repositories/3/archival_objects/2761

Unit Date 1962, 1966

Mixed Materials 1 (box)

Container 6 (folder)

Certificates

Unit ID /repositories/3/archival_objects/2762

Mixed Materials 1 (box)

Container 7 (folder)

Correspondence

Unit ID /repositories/3/archival_objects/2763

Unit Date undated, 1930s

Mixed Materials 1 (box)

Container 8 (folder)

Correspondence

Unit ID /repositories/3/archival_objects/2764

Unit Date 1940s

Mixed Materials 1 (box)

Container 9 (folder)

Correspondence

Unit ID /repositories/3/archival_objects/2765

Unit Date 1950s

Mixed Materials 1 (box)

Container 10 (folder)

Correspondence

Unit ID /repositories/3/archival_objects/2766

Unit Date 1960s

Mixed Materials 1 (box)

Container 11 (folder)

Correspondence

Unit ID /repositories/3/archival_objects/2767

Unit Date 1970s

Mixed Materials 1 (box)

Container 12 (folder)

Correspondence

Unit ID /repositories/3/archival_objects/2768

Unit Date 1980s - 1990s

Mixed Materials 1 (box)

Container 13 (folder)

Curriculum Vitae and Biographies

Unit ID /repositories/3/archival_objects/2769

Mixed Materials 1 (box)

Container 14 (folder)

Curriculum Vitae of Colleagues

Unit ID /repositories/3/archival_objects/2770

Mixed Materials 1 (box)

Container 15 (folder)

Education, School notebooks

Unit ID /repositories/3/archival_objects/2771

Unit Date 1933

Mixed Materials 1 (box)

Container 16 (folder)

Education, Thesis and transcripts

Unit ID /repositories/3/archival_objects/2772

Mixed Materials 1 (box)

Container 17 (folder)

Episcopal High School

Unit ID /repositories/3/archival_objects/2773

Mixed Materials 1 (box)

Container 18 (folder)

Estate Papers

Unit ID /repositories/3/archival_objects/2774

Mixed Materials 1 (box)

Container 19 (folder)

Genealogy, Ham Family

Unit ID /repositories/3/archival_objects/2775

Mixed Materials 1 (box)

Container 20 (folder)

Jean Stratton (Anderson) Ham, papers

Unit ID /repositories/3/archival_objects/2776

Mixed Materials 1 (box)

Container 21 (folder)

Lucy G. Ham, Estate papers

Unit ID /repositories/3/archival_objects/2777

Mixed Materials 1 (box)

Container 22 (folder)

Miscellaneous

Unit ID /repositories/3/archival_objects/2778

Mixed Materials 1 (box)

Container 23 (folder)

Newsletters

Unit ID /repositories/3/archival_objects/2779

Mixed Materials 1 (box)

Container 24 (folder)

Newspaper clippings

Unit ID /repositories/3/archival_objects/2780

Mixed Materials 1 (box)

Container 25-26 (folder)

Passport and Security materials

Unit ID /repositories/3/archival_objects/2781

Mixed Materials 2 (box)

Container 27 (folder)

Pets

Unit ID /repositories/3/archival_objects/2782

Graphic Materials 2 (box)

Container 28 (folder)

Photographs

Unit ID /repositories/3/archival_objects/2783

Mixed Materials 2 (box)

Container 29 (folder)

Recommendations

Unit ID /repositories/3/archival_objects/2784

Mixed Materials 2 (box)

Container 30 (folder)

Residential Specifications

Unit ID /repositories/3/archival_objects/2785

Mixed Materials 2 (box)

Container 31 (folder)

Science Museum of Virginia Life Achievement Award in Science

Unit ID /repositories/3/archival_objects/2786

Unit Date 1990

Mixed Materials 2 (box)

Container 32 (folder)

Short Stories

Unit ID /repositories/3/archival_objects/2787

Mixed Materials 2 (box)

Container 33 (folder)

United States Marine Corps materials

Unit ID /repositories/3/archival_objects/2788

Mixed Materials 2 (box)

Container 34 (folder)

University of Virginia materials

Unit ID /repositories/3/archival_objects/2789

Mixed Materials 2 (box)

Container 35-36 (folder)

Veterans Administration materials

Unit ID /repositories/3/archival_objects/2790

Mixed Materials 2 (box)

Container 37 (folder)

W.T. Ham and Company

Unit ID /repositories/3/archival_objects/2791

Mixed Materials 2 (box)

Container 38 (folder)

Series 2: Professional papers

Unit ID 2

Unit ID /repositories/3/archival_objects/2756

Unit Date 1937-1996

Subseries 2.1: Correspondence and subject files

Unit ID 2.1

Unit ID /repositories/3/archival_objects/2792

Unit Date 1937-1996

Correspondence

Unit ID /repositories/3/archival_objects/2815

Unit Date 1937-1949

Mixed Materials 2 (box)

Container 39 (folder)

Correspondence

Unit ID /repositories/3/archival_objects/2816

Unit Date 1950-1959

Mixed Materials 2 (box)

Container 40 (folder)

Correspondence

Unit ID /repositories/3/archival_objects/2817

Unit Date 1960-1965

Mixed Materials 2 (box)

Container 41 (folder)

Correspondence

Unit ID /repositories/3/archival_objects/2818

Unit Date 1966-1969

Mixed Materials 2 (box)

Container 42 (folder)

Correspondence

Unit ID /repositories/3/archival_objects/2819

Unit Date 1970-1975

Mixed Materials 2 (box)

Container 43 (folder)

Correspondence

Unit ID /repositories/3/archival_objects/2820

Unit Date 1976-1979

Mixed Materials 2 (box)

Container 44 (folder)

Correspondence

Unit ID /repositories/3/archival_objects/2821

Unit Date 1980-1981

Mixed Materials 2 (box)

Container 45 (folder)

Correspondence

Unit ID /repositories/3/archival_objects/2822

Unit Date 1982-1984

Mixed Materials 2 (box)

Container 46 (folder)

Correspondence

Unit ID /repositories/3/archival_objects/2823

Unit Date 1985-1986

Mixed Materials 2 (box)

Container 47 (folder)

Correspondence

Unit ID /repositories/3/archival_objects/2824

Unit Date 1987-1989

Mixed Materials 2 (box)

Container 48 (folder)

Correspondence

Unit ID /repositories/3/archival_objects/2825

Unit Date 1990-1996

Mixed Materials 2 (box)

Container 49 (folder)

Correspondence, W.J.H. Butterfield

Unit ID /repositories/3/archival_objects/2826

Mixed Materials 2 (box)

Container 50 (folder)

Correspondence, Ernst Huf

Unit ID /repositories/3/archival_objects/2827

Mixed Materials 2 (box)

Container 51 (folder)

Correspondence, Wolfgang Lieb

Unit ID /repositories/3/archival_objects/2828

Mixed Materials 2 (box)

Container 52 (folder)

Correspondence, Karl Z. Morgan

Unit ID /repositories/3/archival_objects/2829

Mixed Materials 2 (box)

Container 53 (folder)

Correspondence, L. Alan Mounter

Unit ID /repositories/3/archival_objects/2830

Mixed Materials 2 (box)

Container 54 (folder)

Correspondence, David H. Sliney

Unit ID /repositories/3/archival_objects/2831

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Container 55 (folder)

Correspondence, Johannes J. Vos

Unit ID /repositories/3/archival_objects/2832

Mixed Materials 3 (box)

Container 56 (folder)

Correspondence, Kent Wright

Unit ID /repositories/3/archival_objects/2833

Mixed Materials 3 (box)

Container 57 (folder)

Correspondence, Richard Young

Unit ID /repositories/3/archival_objects/2834

Mixed Materials 3 (box)

Container 58-59 (folder)

Absorption of Water in the Infrared, data

Unit ID /repositories/3/archival_objects/2835

Mixed Materials 3 (box)

Container 60 (folder)

Atomic Energy Commission

Unit ID /repositories/3/archival_objects/2836

Mixed Materials 3 (box)

Container 61-62 (folder)

Association for Research in Vision and Ophthalmology

Unit ID /repositories/3/archival_objects/2837

Mixed Materials 3 (box)

Container 63 (folder)

Atomic Flash

Unit ID /repositories/3/archival_objects/2838

Mixed Materials 3 (box)

Container 64 (folder)

Center for Atomic and Molecular Studies, proposal

Unit ID /repositories/3/archival_objects/2839

Mixed Materials 3 (box)

Container 65 (folder)

Congressional Testimony

Unit ID /repositories/3/archival_objects/2840

Mixed Materials 3 (box)

Container 66 (folder)

Consultant Work

Unit ID /repositories/3/archival_objects/2841

Mixed Materials 3 (box)

Container 67 (folder)

Corning Glass Works

Unit ID /repositories/3/archival_objects/2842

Mixed Materials 3 (box)

Container 68 (folder)

Council for International Exchange of Scholars, Yugoslavia

Unit ID /repositories/3/archival_objects/2843

Unit Date 1976

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Container 69 (folder)

Institute of Textile Technology

Unit ID /repositories/3/archival_objects/2844

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Container 70 (folder)

Lasers

Unit ID /repositories/3/archival_objects/2845

Mixed Materials 3 (box)

Container 71 (folder)

NAS-NRC Committee on Vision

Unit ID /repositories/3/archival_objects/2846

Mixed Materials 3 (box)

Container 72 (folder)

Oak Ridge National Laboratory

Unit ID /repositories/3/archival_objects/2847

Mixed Materials 3 (box)

Container 73 (folder)

Operation Ranger, Report

Unit ID /repositories/3/archival_objects/2848

Unit Date 1951

Mixed Materials 3 (box)

Container 74 (folder)

Perceptron

Unit ID /repositories/3/archival_objects/2849

Mixed Materials 3 (box)

Container 75 (folder)

Photobiology

Unit ID /repositories/3/archival_objects/2850

Mixed Materials 3 (box)

Container 76 (folder)

Polaroid Corporation

Unit ID /repositories/3/archival_objects/2851

Mixed Materials 3 (box)

Container 77 (folder)

Solar Eclipse materials

Unit ID /repositories/3/archival_objects/2852

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Container 78 (folder)

Task Force on Research Planning in Environmental Health Science

Unit ID /repositories/3/archival_objects/2853

Mixed Materials 3 (box)

Container 79 (folder)

U.S. Army Research Report, Biological Application and Effects of Optical Masers

Unit ID /repositories/3/archival_objects/2854

Mixed Materials 3 (box)

Container 80 (folder)

Virginia Associated Research Center

Unit ID /repositories/3/archival_objects/2855

Mixed Materials 3 (box)

Container 81 (folder)

Virginia Institute for Scientific Research

Unit ID /repositories/3/archival_objects/2856

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Container 82 (folder)

Virginia Radiation Advisory Board

Unit ID /repositories/3/archival_objects/2857

Mixed Materials 3 (box)

Container 83 (folder)

Subseries 2.2: Notebooks

Unit ID 2.2

Unit ID /repositories/3/archival_objects/2793

Unit Date 1948-1988

Notebook, AEC Project

Unit ID /repositories/3/archival_objects/2858

Unit Date 1958-1963

Mixed Materials 4 (box)

Container 84 (folder)

Notebook

Unit ID /repositories/3/archival_objects/2859

Unit Date Feb. 1948 - Oct. 1954

Mixed Materials 4 (box)

Container 85 (folder)

Notebook

Unit ID /repositories/3/archival_objects/2860

Unit Date Apr. 1957 - Feb. 1963

Mixed Materials 4 (box)

Container 86 (folder)

Notebook

Unit ID /repositories/3/archival_objects/2861

Unit Date Oct. 1954- Mar. 1957

Mixed Materials 4 (box)

Container 87 (folder)

Notebook

Unit ID /repositories/3/archival_objects/2862

Unit Date Jul. 1963 - Aug. 1966

Mixed Materials 4 (box)

Container 88 (folder)

Notebook

Unit ID /repositories/3/archival_objects/2863

Unit Date Aug. 1966 - 1968

Mixed Materials 4 (box)

Container 89 (folder)

Notebook

Unit ID /repositories/3/archival_objects/2864

Unit Date Jul. 1968 - Mar. 1972

Mixed Materials 4 (box)

Container 90 (folder)

Notebook

Unit ID /repositories/3/archival_objects/2865

Unit Date Oct. 1972 - Dec. 1980

Mixed Materials 4 (box)

Container 97 (folder)

Notebook

Unit ID /repositories/3/archival_objects/2866

Unit Date Jul. 1982 - 1988

Mixed Materials 4 (box)

Container 92 (folder)

Subseries 2.3: Conferences, lectures, and workshops

Unit ID 2.3

Unit ID /repositories/3/archival_objects/2794

Unit Date 1950-1992

American Occupational Health Conference

Unit ID /repositories/3/archival_objects/2867

Unit Date Apr. 1983

Mixed Materials 4 (box)

Container 93 (folder)

American Society for Photobiology Conference

Unit ID /repositories/3/archival_objects/2868

Unit Date 1978

Mixed Materials 4 (box)

Container 94 (folder)

Committee on Vision Working Group 35

Unit ID /repositories/3/archival_objects/2869

Unit Date 1981

Mixed Materials 4 (box)

Container 95 (folder)

1st Conference on Laser Safety

Unit ID /repositories/3/archival_objects/2870

Unit Date 1966

Mixed Materials 4 (box)

Container 96 (folder)

1st Conference on Radiation Cataracts, Proceedings

Unit ID /repositories/3/archival_objects/2871

Unit Date Feb. 1950

Mixed Materials 4 (box)

Container 97 (folder)

2nd Conference on Radiation Cataracts, Abstracts

Unit ID /repositories/3/archival_objects/2872

Unit Date Dec. 1950

Mixed Materials 4 (box)

Container 98 (folder)

3rd Conference on Radiation Cataracts, Abstracts and Proceedings

Unit ID /repositories/3/archival_objects/2873

Unit Date Jan. 1952

Mixed Materials 4 (box)

Container 99 (folder)

4th Conference on Radiation Cataracts, Abstracts and Proceedings

Unit ID /repositories/3/archival_objects/2874

Unit Date Feb. 1953

Mixed Materials 4 (box)

Container 100 (folder)

5th Conference on Radiation Cataracts, Abstracts and Proceedings

Unit ID /repositories/3/archival_objects/2875

Unit Date Mar. 1954

Mixed Materials 4 (box)

Container 101 (folder)

6th Conference on Radiation Cataracts, Abstracts and Proceedings

Unit ID /repositories/3/archival_objects/2876

Unit Date Mar. 1955

Mixed Materials 4 (box)

Container 102 (folder)

Laser Seminar

Unit ID /repositories/3/archival_objects/2877

Unit Date 1985

Mixed Materials 4 (box)

Container 103 (folder)

National Eye Institute Meeting

Unit ID /repositories/3/archival_objects/2878

Unit Date Sept. 1982

Mixed Materials 4 (box)

Container 104 (folder)

National Research Council, Meeting on Cataract Research

Unit ID /repositories/3/archival_objects/2879

Unit Date 1950

Mixed Materials 4 (box)

Container 105 (folder)

Symposium on Light Induced Damage to the Retina (VHS tape)

Unit ID /repositories/3/archival_objects/2880

Unit Date 1984

Mixed Materials 4 (box)

Container 106 (folder)

Workshop on Long-Term Visual Health

Unit ID /repositories/3/archival_objects/2881

Unit Date 1983-1984

Mixed Materials 5 (box)

Container 107-108 (folder)

Conference materials

Unit ID /repositories/3/archival_objects/2882

Unit Date 1959-1979

Mixed Materials 5 (box)

Container 109 (folder)

Conference materials

Unit ID /repositories/3/archival_objects/2883

Unit Date 1981-1992

Mixed Materials 5 (box)

Container 110 (folder)

Lecture, "Art and Science"

Unit ID /repositories/3/archival_objects/2884

Mixed Materials 5 (box)

Container 111 (folder)

Lectures on Nuclear War and Civil Defense

Unit ID /repositories/3/archival_objects/2885

Unit Date 1953-1965

Mixed Materials 5 (box)

Container 112 (folder)

Lectures on Organization and Origins of Life

Unit ID /repositories/3/archival_objects/2886

Mixed Materials 5 (box)

Container 113 (folder)

Lecture, "Radiation Effects on the Retina"

Unit ID /repositories/3/archival_objects/2887

Unit Date 1965-1986

Mixed Materials 5 (box)

Container 114 (folder)

Subseries 2.4: Articles, reports, and unpublished works

Unit ID 2.4

Unit ID /repositories/3/archival_objects/2795

Unit Date 1950-1991

Addendum materials for Primate Ocular Photopathology of the Lens and Retina

Unit ID /repositories/3/archival_objects/2888

Mixed Materials 5 (box)

Container 115 (folder)

Article, Consumer Report, Sunglasses

Unit ID /repositories/3/archival_objects/2889

Unit Date 1988

Mixed Materials 5 (box)

Container 116 (folder)

Article drafts, Effects of Laser Radiation of the Mammalian Eye

Unit ID /repositories/3/archival_objects/2890

Mixed Materials 5 (box)

Container 117 (folder)

Article draft, Retinal Effects of Blue Light Exposure

Unit ID /repositories/3/archival_objects/2891

Mixed Materials 5 (box)

Container 118 (folder)

Article drafts

Unit ID /repositories/3/archival_objects/2892

Mixed Materials 5 (box)

Container 119-120 (folder)

Chapter draft, Radiation Biophysics

Unit ID /repositories/3/archival_objects/2893

Mixed Materials 5 (box)

Container 121 (folder)

Data and Notes

Unit ID /repositories/3/archival_objects/2894

Mixed Materials 5 (box)

Container 122 (folder)

Data on Absorption and Reflection, by Geeraets and Berry

Unit ID /repositories/3/archival_objects/2895

Mixed Materials 5 (box)

Container 123 (folder)

Galley Proofs, Light Toxicity

Unit ID /repositories/3/archival_objects/2896

Mixed Materials 5 (box)

Container 124 (folder)

Galley Proofs

Unit ID /repositories/3/archival_objects/2897

Mixed Materials 5 (box)

Container 125 (folder)

Manuscript, The Biological Effects of Electromagnetic Radiation of the Eye

Unit ID /repositories/3/archival_objects/2898

Mixed Materials 5 (box)

Container 126 (folder)

Mixed Materials 6 (box)

Container 127-129 (folder)

Papers of Colleagues

Unit ID /repositories/3/archival_objects/2899

Unit Date undated

Mixed Materials 6 (box)

Container 130 (folder)

Papers of Colleagues

Unit ID /repositories/3/archival_objects/2900

Unit Date 1979-1991

Mixed Materials 6 (box)

Container 131 (folder)

Papers of Colleagues, Robert D. Cowan, Calculation of Retinal Dose Due to Visible Radiation From Nuclear Explosions

Unit ID /repositories/3/archival_objects/2901

Mixed Materials 6 (box)

Container 132 (folder)

Papers of Colleagues, Toichiro Kuwabara, Structure of the Retina

Unit ID /repositories/3/archival_objects/2902

Unit Date 1970

Mixed Materials 6 (box)

Container 133 (folder)

Papers of Colleagues, Charles Tanford, Protein Denaturation

Unit ID /repositories/3/archival_objects/2903

Mixed Materials 6 (box)

Container 134 (folder)

Papers of Colleagues, Richard W. Young

Unit ID /repositories/3/archival_objects/2904

Mixed Materials 6 (box)

Container 135 (folder)

Reprints

Unit ID /repositories/3/archival_objects/2905

Unit Date 1950s

Mixed Materials 6 (box)

Container 136 (folder)

Reprints

Unit ID /repositories/3/archival_objects/2906

Unit Date 1960s

Mixed Materials 6 (box)

Container 137 (folder)

Reprints

Unit ID /repositories/3/archival_objects/2907

Unit Date 1970s

Mixed Materials 6 (box)

Container 138 (folder)

Reprints

Unit ID /repositories/3/archival_objects/2908

Unit Date 1980s

Mixed Materials 6 (box)

Container 139 (folder)

Report, An Ultrastructural Study of the Hazard from Picosecond Pulse of Nd:YAG on the Retina of the Rhesus Monkey

Unit ID /repositories/3/archival_objects/2909

Mixed Materials 6 (box)

Container 140 (folder)

Reviews

Unit ID /repositories/3/archival_objects/2910

Mixed Materials 6 (box)

Container 141 (folder)

Slides

Unit ID /repositories/3/archival_objects/2911

Mixed Materials 6 (box)

Container 142 (folder)

Series 3: MCV papers

Unit ID 3

Unit ID /repositories/3/archival_objects/2757

Unit Date 1948-1994

Biophysics at MCV, 1948-1968

Unit ID /repositories/3/archival_objects/2796

Mixed Materials 7 (box)

Container 143 (folder)

Biophysics Department materials

Unit ID /repositories/3/archival_objects/2797

Mixed Materials 7 (box)

Container 144 (folder)

Commencement Program, MCV

Unit ID /repositories/3/archival_objects/2798

Unit Date 1965

Mixed Materials 7 (box)

Container 145 (folder)

Correspondence

Unit ID /repositories/3/archival_objects/2799

Unit Date 1948-1994

Mixed Materials 7 (box)

Container 146 (folder)

Correspondence, MCV Curriculum Debate

Unit ID /repositories/3/archival_objects/2800

Unit Date 1962-1963

Mixed Materials 7 (box)

Container 147 (folder)

Course File, Applied Electronics in Medical Research

Unit ID /repositories/3/archival_objects/2801

Unit Date 1953-1954

Mixed Materials 7 (box)

Container 148 (folder)

Course File, Biological Aspects of Ionizing Radiation

Unit ID /repositories/3/archival_objects/2802

Unit Date 1952

Mixed Materials 7 (box)

Container 149 (folder)

Course File, Biophysics

Unit ID /repositories/3/archival_objects/2803

Mixed Materials 7 (box)

Container 150-152 (folder)

Course File, Introduction to Biophysics

Unit ID /repositories/3/archival_objects/2804

Mixed Materials 7 (box)

Container 153-154 (folder)

Course File, Radiobiology

Unit ID /repositories/3/archival_objects/2805

Mixed Materials 7 (box)

Container 155 (folder)

Course File, Radioisotopes

Unit ID /repositories/3/archival_objects/2806

Mixed Materials 7 (box)

Container 156-157 (folder)

Department Reports

Unit ID /repositories/3/archival_objects/2807

Mixed Materials 7 (box)

Container 158 (folder)

Faculty Meeting Minutes

Unit ID /repositories/3/archival_objects/2808

Mixed Materials 7 (box)

Container 159 (folder)

Lectures to Medical Students

Unit ID /repositories/3/archival_objects/2809

Unit Date 1962-1971

Mixed Materials 7 (box)

Container 160 (folder)

Medical Education Committee, Notebook

Unit ID /repositories/3/archival_objects/2810

Unit Date 1959-1963

Mixed Materials 7 (box)

Container 161 (folder)

Newsletters

Unit ID /repositories/3/archival_objects/2811

Mixed Materials 7 (box)

Container 162 (folder)

Personnel Forms

Unit ID /repositories/3/archival_objects/2812

Mixed Materials 7 (box)

Container 163 (folder)

School of Basic Science materials

Unit ID /repositories/3/archival_objects/2813

Mixed Materials 7 (box)

Container 164 (folder)

VCU response to radiation experiments

Unit ID /repositories/3/archival_objects/2814

Mixed Materials 7 (box)

Container 165 (folder)