

# Ham, William T., Jr. papers

William T. Ham, Jr. papers  
1933-1996

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## Title Statement

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

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**Author:** Margaret Turman Kidd

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## Profile Description

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## 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

**Mixed Materials** 3 (box)

**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

**Mixed Materials** 3 (box)

**Container** 69 (folder)

**Institute of Textile Technology**

**Unit ID** /repositories/3/archival\_objects/2844

**Mixed Materials** 3 (box)

**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**Mixed Materials** 3 (box)**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**Mixed Materials** 3 (box)**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)