



# National Museum of Health and Medicine

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## Otis Historical Archives

### OHA 354 Vorwald Collection

**Date of Records:** ca. 1900-1980s

**Size:** 265 Boxes

**Finding Aid:** By Daniel Bennett (1989); Edited by Kathleen Stocker (2009); Revised by Eric W. Boyle (2012)

**Access and Use:** The Otis Historical Archives is committed to providing open access to its collections as far as possible within the limits of privacy and confidentiality. Access to this collection is at the discretion of the Otis Historical Archives and material contained within the records may be subject to review before access is granted. Files containing private patient information and protected administrative and grant records are currently closed to researchers.

**Biographical Note:** The following biography of Dr. Vorwald was written by his colleague Andrew L. Reeves, in *Toxicological Sciences*: <http://toxsci.oxfordjournals.org/cgi/content/full/toxsci;65/2/164>

Arthur John Vorwald (1904–1974): Arthur Vorwald would not have considered himself a toxicologist but, as an experimental pathologist with specialization in dust disease of the lung, he became a pioneer of the field. He was one of the first investigators to practice exposure of experimental animals to controlled dust aerosols in inhalation chambers, and numerous early discoveries, including competent description of the lung lesion in asbestosis and the first production of lung cancers in rats with beryllium, are associated with his name. His legacy is the present Department of Occupational and Environmental Health Sciences at Wayne State University, which he founded in 1954 and chaired for the next 14 years.

Arthur Vorwald commenced his professional career at the University of Chicago, where he earned his M.D. and Ph.D. in pathology while also functioning as instructional assistant. After internship at Henry Ford Hospital in Detroit and a National Research Council fellowship at Cambridge, England, he received an appointment in 1934 as staff pathologist of the Saranac Laboratory in upstate New York, a leading research institution of lung disorders at the time. His first interest was in tuberculosis, but he soon became intrigued by the synergism between tubercle bacilli and silica and came under the professional influence of Leroy U. Gardner, leading authority on dust diseases of the lung and director of the laboratory. During the late 1930s and early 1940s, Vorwald and his coworkers published extensively on pneumoconiosis and its relation to tubercular infection.



During World War II, Arthur Vorwald took time out to serve in the Medical Corps of the U.S. Navy, and became Director of the Medical Sciences Division of the Office of Naval Research in Washington. He also did a stint as Naval Medical Attaché at the U.S. Embassy in London. In 1947, at the sudden, untimely death of Dr. Gardner, he was invited to become the Director of the Saranac Laboratory, a post he held until 1954.

Vorwald's investigative forte was animal experimentation, and in addition to chamber exposures, he also developed the short-cut technique to endotracheal injections. He followed his test animals for months or years posttreatment. In some cases, however, this was not quite long enough, and his 1951 study on asbestos missed the appearance of pulmonary tumors because his experiment was terminated too soon. When this became clear following the discoveries of Wagner, Gross, and others, he was determined not to make that mistake again, and his work with beryllium was indeed crowned with the first experimental production of pulmonary tumors with that substance.

At age 50, Arthur Vorwald stood at the pinnacle of his career as a leading expert of his field and recipient of numerous professional accolades including honorary degrees from Loras College and Hobart and William Smith College. In 1954 he received an invitation to organize a new department in the medical school of Wayne State University in Detroit: the Department of Industrial Medicine and Hygiene, soon to be renamed the Department of Occupational and Environmental Health, and later (under successor David Bassett) the Department of Occupational and Environmental Health Sciences. Due to Vorwald's untiring efforts, his department became one of the largest grant-getters of the school. Vorwald himself developed quite a taste for "grantsmanship" so that proposal writing became one of his favorite occupations. Carcinogenesis from beryllium and from asbestos, health effects of urban air pollution, health effects of vehicular exhaust fumes, and hygienic study of selected radioisotopes were among the numerous large projects on the agenda of the department during the late 1950s and 1960s. The actual conduct of these studies typically devolved on subordinate staff, with publication put off until the various threads could be pulled together—a conclusion that all too frequently never came.

Ability to delegate authority was not one of Vorwald's many virtues, and this fact, combined with his very extensive travel engagements and multifaceted public service, eventually had its effect on departmental productivity. In the midst of various problems with the granting agencies and with the university administration, he suffered a severe stroke in late 1968, and lived thereafter in quiet retirement with his family in Green Bay, Wisconsin, until his death at age 70 in 1974.

These late difficulties should not obscure the fact that Arthur Vorwald was a seminal figure in the early history of occupational toxicology. His peers regarded him as an absolutely first-class microscopic pathologist, and his contributions to the conduct of long-term inhalation experiments, associated animal hygiene, antibiotic prophylaxis, dust dissemination, and chamber-air monitoring practices were ahead of their time. He was also an excellent lecturer, renowned for the careful preparation of his presentations, including artful slides. Above all, he was a gentleman of the old school, with great charm, humor, and fatherly concern for the welfare of his staff. Even after a quarter of a century, his old associates still remember him with affection.

**Series/Scope and Content Note:** The contents of each box in this collection are noted in the finding aid below. Materials in this rich collection include:

Personal documents of Dr. Vorwald including medical degrees, society membership certificates, awards, vita, and other miscellaneous items as well as lecture notes of Dr. Vorwald, departmental reports, and



miscellaneous memoranda from the Wayne State University School of Industrial Medicine and Hygiene at Wayne State University, Detroit, Michigan.

Correspondence and memoranda from the Saranac Laboratory and Wayne State University include material not related to the issue of asbestos disease as well as material related to the subject of asbestos, including contracts and grants to the Saranac Laboratory and Wayne State University for radiological study, human epidemiology studies, and animal inhalation experiments.

Collected reprints and original manuscripts of articles by Dr. Arthur J. Vorwald et al., 1932-1964; Dr. Leroy U. Gardner et al. 1922-1946; collected reprints of articles by Saranac Laboratory Staff, 1929-1951, including Dr. Donald A. Bailey; Dr. Louis H. Berkelhamer; Dr. D.M. Brumfiel; Dr. Donald Cummings; Dr. Thomas Durkan; Dr. George Wright;

Administrative records including minutes of the Saranac Laboratory Weekly Staff Meetings for the Period November, 1948 to July, 1949; Minutes of the Annual Meeting of the Board of Trustees of the Trudeau Foundation for the Meeting held August 23, 1952; fiscal Records of the School of Industrial Medicine and Hygiene, Wayne State School of Medicine, Wayne State University, Detroit, Michigan for the Period 1954-1967; annual reports of the Trudeau Foundation and the Saranac Laboratory: collected annual reports of the Director, Saranac Laboratory, for the Years 1900-1910 and 1910-1920 (bound)

Research material including accepted proposals of the Saranac Laboratory; collected papers, progress reports, final reports, notes, and correspondence from research contracts and grants of the Saranac Laboratory (1931-1953) and the Wayne State University School of Industrial Medicine and Hygiene (1954-1967), arranged alphabetically by sponsor in 18 Boxes; collected records of experiments which were conducted by Saranac Laboratory and Wayne State University in support of research contracts and grants on subjects including animal research (arranged loosely by subject and by experiment number in four boxes); collected reprints with some interspersed original papers and notes by the staff of the Saranac Laboratory relating to research on the treatment of pulmonary disease and infection with Bacille Calmette-Guerin Vaccination;

On the subjects of asbestos and cancer, materials include government and conference/symposia synopses which generically consider the subject of asbestos carcinogenicity; collected reprints on the subject of cancer including environmental/occupational health; collected reprints on experimental cancer research including methodologies in test species development and technique. On asbestosis and silicosis, the collection includes collected reprints, reports, and studies relating to industrial hygiene and sanitation research, surveying, and disease prevention techniques for industry; files on silica-bearing materials which cause or were suspected of causing silicosis; metals which were known, or suspected, to cause pulmonary illnesses or other occupational diseases; a complete manuscript copy of the Final Report of the Committee on the Prevention of Silicosis through Engineering Control of the National Silicosis Conference, U.S. Department of Labor/Division of Standards held in 1937; the incomplete set of records for the Saranac Silicosis Symposia (seven) which were held during Dr. Vorwald's tenure at the Institute; Proceedings of the Conferences on Silicosis held by the McIntyre Research Foundation (1950-1960). Other subjects related to asbestos include trade literature including collected reprints, newspaper articles, and original papers relating to the 1949 workers' strike of the asbestos mines of the Thetford Mines Region of Quebec, Canada; collected industry literature on asbestos and asbestos products; collected industry literature on Owens Corning Fibre Glass; material on asbestos threshold limit values including reprints, government bulletins, state data sheets, and the Committee on Threshold Limit Values to set figures for Maximum Allowable Concentrations of inorganic/organic dusts and



chemicals during the 1950s; collected miscellaneous documents including manuscripts of reports and papers by Dr. Vorwald which discuss the topic of asbestos-related disease and other miscellaneous materials; and general reprints and original papers (including drafts) relating to research on asbestos.

Collected reprints on other related subjects include research on pulmonary conditions including emphysema and pneumonia, sarcoid, tuberculosis, various topics concerning the lungs and other body organ injuries and diseases. Published periodicals, special reports, and conference proceedings on a variety of subjects are arranged in numerical order in 23 Boxes.

**\*\*Note--the contents of the Boxes 119-256 in the collection are restricted from ordinary access by all researchers irrespective of interest. Persons desiring to gain access to these materials must first agree to comply with a protective order similar to the order of settlement and stipulation of dismissal filed in the case of Baron & Associates v. U.S. Department of the Army, C.A. no. 84-2021 (D.D.C. April 1, 1985). Copies of this document are available at Otis Historical Archives and must be signed by all researchers before using these materials. Subjects in these files include clinical patient records, microscope slides, lantern slides, paraffin blocks, x-rays, colored illustrations, and photographs.**

## BOX AND CONTENT LIST

**Box 001:** Personal documents of Dr. Arthur J. Vorwald including medical degrees, society membership certificates, awards, vita, and other miscellaneous items.

- 1 Obituary
- 2 Curriculum Vitae 1953, 1959, ca. 1967; Lectures given, 1948
- 3 Newspaper clipping on resignation from Trudeau Foundation and Saranac Lab, 1953
- 4 Memberships, appointments, conferences attended
- 5 Newspaper clippings on travel to Bahamas and Peru, and TV lecture on cancer
- 6 Books in office library list
- 7 Certificates, Awards, Licenses 1927-1966
- 8 Fellowship Certificate-American College of Physicians, 1952
- 9 Group photo-framed: Saranac Lake, N.Y., June 1, 1937
- 10 Group photo-stamped NIH and signed by members, group includes Vorwald
- 11 Group photo-includes Vorwald, signed
- 12 Group photos-include Vorwald, signed
- 12a Group photo – Trudeau School instructors, 1951
- 12b Group photo – Trudeau School instructors and students, 1951
- 13 Group photos from 1947 Saranac conference (4)
- 14 Photos of A.J. Vorwald, some ca. 1960
- 15 License to practice Medicine and Surgery, 1937
- 16 Vorwald-Wright Patterson Air Force Base (Photo)
- 17 Bibliography of Arthur John Vorwald as retained in the Otis Historical Archives, Armed Forces Medical Museum
- 18 Brass nameplate, Dr. Arthur J. Vorwald

**Box 002:** Correspondence and memoranda from the Saranac Laboratory and Wayne State University not related to the issue of Asbestos diseases. Includes correspondence relating to some of



the Contracts/Grants of these institutions.

- 1 Trudeau and Saranac Correspondence, 1932-1935: Correspondents include: Dr. E.R. Baldwin, Dr. James A. Miller; Dr. Leroy U. Gardner Correspondence:
- 2 1941: Correspondents include: Aluminum Company of America; Porcupine Clinic for Silicosis Research-Canadian Johns Manville Co.; Dr. Irwin, University of Toronto
- 3 1942: Correspondents include: Aluminum Company of America; Dr. Irwin, University of Toronto
- 4 1943: Correspondents include: Aluminum Company of America
- 5 1944-1946: Correspondents include: Aluminum Company of America; Dr. Irwin, University of Toronto; Union Carbide and Carbon Corp; Vorwald.
- 5a Dr. Arthur J. Vorwald Correspondence: 1942: Mrs. Philip G. Cole, Saranac Laboratory
- 6 1945-1947: Correspondents include: U.S. Public Health Service; Dr. Bowditch, Massachusetts Department of Labor and Industries; Monsanto Chemical Company; Harvard School of Public Health; Captain C.W. Shilling
- 7 1948: Correspondents include: Captain C.W. Shilling; Pickands Mather Co.; E.W. Brown, M.D.; Phillip Drinker, Harvard University; Owens-Illinois Glass Company
- 8 1949: Correspondents include: Aluminum Company of America; E.W. Brown, M.D.; Republic Steel Corporation; Anna M. Baetjer, Sc.D., Johns Hopkins University; Owens-Illinois Glass Company; American Mutual Liability Insurance Co.
- 9 1950: Correspondents include: Johns-Manville; Kimble Glass; Industrial Hygiene Foundation
- 10 1951-1952: Correspondents include: The Society of Ohio Safety Engineers; Republic Steel Corporation; American Mining Congress; University of Cincinnati; The Constantinian Society; Anthracite Institute; American Cancer Society; Dr. Edgar Mayer
- 11 1953-1954: Correspondents include: Esmond Long of American Trudeau Society; The American Review of Tuberculosis; Henry Phipps Institute; Union Carbide and Carbon Corporation; Trudeau-Saranac Institute; John Steele, M.D.; American Cancer Society/National Research Council; William E. Smith, M.D.
- 11a Memorandum: Concerning X-ray interpretations for industrial concerns, November 6, 1947
- 11b Memorandum: Industrial patients who are admitted to the Sanatorium for observation and/or treatment under the auspices of the Trudeau Foundation, July 17, 1948
- 11c Memorandum: Papers to be completed for publication, December 7, 1948
- 11d Note: Air Mail special delivery, re: E.R.A. Merewether, M.D., February 12, 1949
- 11e Memorandum: Chemical analysis of animal lungs, April 14, 1949
- 11f Memorandum: Reminder – List apropos biological activity of industrial substances, July 20, 1949
- 11g Memorandum: Brake shoe dust inhalation at Trudeau, undated
- 11h Note: Suggested letter to Canadian Journal of Medicine, May 16, 1952
- 11i Handwritten note naming "Skip," Dr. Vorwald, "Pratt," Mrs. Blinn; Wayne State University College of Medicine
- 12 1954-1959: Correspondents include: Trudeau Saranac Institute; American Industrial Hygiene Association; Saranac Laboratory; Owens-Illinois; McIntyre Research Foundation; NCI
- 13 1960-1968: Correspondents include: McIntyre Research Foundation; AMC Aeronautical Systems Center-Subject: Beryllium Toxicity; University of Cincinnati; State of Ohio Department of Health; American Medical Association; J.P. Lippincott Company; Journal of Occupational Medicine; Excerpta Medica Foundation; M. Fishbein, M.D.; Detroit Edison Company; Warner Chilcott Laboratories; Committee on Occupational Diseases of the Chest; American Cancer Society; Edison Electric Institute, Unidentified
- 14 Name, address, and phone number of Mr. and Mrs. John K. Walker



**Box 003:** Asbestos Correspondence: Correspondence related to the subject of Asbestos. Includes Contracts/Grants to the Saranac Laboratory and Wayne State University for radiological study, human epidemiology studies, and animal inhalation experiments. Note: some correspondence of is contained in the Boxes retaining research contracts/grants and clinical cases.

- 1 Amberson, J. Burns; Board of Trustees, Saranac/Trudeau Foundation
- 2 Bowditch, Manfred
- 3 Bowes, V.E.; Owens-Illinois Glass Co.
- 4 Brown, Mrs. Lawrason
- 5 Brown, Vandiver [papers missing from folder]
- 6 Cartier, Paul
- 7 Coleman, Allen L.
- 8 Copeland, T.A.; Eagle Pitcher Company
- 9 Couture, Yvan; Canadian Johns-Manville
- 10 Cralley, Lewis J.; Public Health Service Study of Asbestos
- 11 Eckert, W.F.; Pickands Mather and Co.
- 12 Fabel, George S.; Southern Asbestos Company
- 13 Fisher, A.R.; Johns-Manville
- 14 Hardy, Harriet
- 15 Hazard, W.G.; Owens-Illinois Glass Company
- 16 Jackson, H.M.; Johns-Manville
- 17 Jones, E.O.; Belle City Malleable Iron Company
- 18 Kellers, Samuel; Johns-Manville
- 18a Kelly, R. Emmet, Monsanto Chemical Company
- 19 Lanza, Anthony
- 20 Lindell, Karl V.; Chairman of the Board, Canadian Johns-Manville
- 21 Long, Esmond
- 22 Mancuso, Thomas F.
- 23 McConnell, W.J.; Metropolitan Life Insurance Co.
- 24 McGarrahan, Burl E.; The Mead Corporation
- 25 McKinley, C.S.; Union Carbide
- 26 Merewether, E.R.A.
- 27 Muehleck, Ernest; President, Keasby and Mattison
- 28 Sabourin, Ivan
- 29 Sander, O.A.
- 30 Schepers, Gerrit W.; Director, Saranac Laboratory
- 31 Shook, Charles F.; Medical Director, Owens-Illinois Glass Co.
- 32 Smith, Kenneth W.; Canadian Johns-Manville
- 33 Smith, W.E.; New York University
- 34 Webster, Ian; Pneumoconiosis Research Unit, South African Council for Scientific and Industrial Research
- 35 Woodard, J.P.; Johns-Manville
- 36 Wright, Nicholas; University of Vermont
- 37 Correspondence Relating to: Quebec Asbestos Mining Association Contract to Saranac Laboratory Experimental/Epidemiological Study
- 38 Correspondence Relating to: X-ray (Radiology) Contract between Johns-Manville and Saranac
- 39 Correspondence Relating to: X-ray (Radiology) Contract between Owens-Illinois Glass Company



and Saranac Laboratory

**Box 004:** Lecture notes of Dr. Arthur J. Vorwald, departmental reports, and miscellaneous memoranda from the Wayne State University School of Industrial Medicine and Hygiene at Wayne State University, Detroit, Michigan. (arranged alphabetically by note type and numerically by course announcement number)

- 1 Lecture Notes, AJV
- 2 Industrial Hygiene, Teaching and Training, 1959
- 3 Departmental Report, 1966-1967 (missing pp. 1-2)
- 4 Inter-departmental Memorandum, January 27, 1965
- 5 Histopathology on Various Animals, March 1, 1962

**Box 005:** Collected reprints and original manuscripts of Articles by Dr. Arthur J. Vorwald et al., 1932-1964 (arranged chronologically) (in 2 Boxes)

- 1 "An Attempt to Influence the Growth of the Tubercle Bacillus in the Animal Body by Modifying the Concentration of a Growth-Promoting Substance (Glycerol) in the Tissues," December 1930
- 1a "A Comparison of Tissue Reactions to Testicular Inoculation of Acid-Fast Bacilli," May 1932
- 2 "Experimental Production of Bronchogenic Abscess of the Lung," 1933
- 3 "The Treatment of Pulmonary Tuberculosis by Bronchial Occlusion," August 1934
- 4 "Experimental Tuberculous Infection in the Guinea-Pig Foetus Compared with that in the Adult," February 1937
- 5 "Influence of Dusts of Tuberculosis Infection," July 1937
- 6 "Pneumoconiosis and Pulmonary Carcinoma," January 1938
- 7 "Dust and Pulmonary Disease, with Special Reference to Silica Dust," from the Annual Meeting of the Medical Society of the State of New York, May 12, 1938
- 8 "Dust and Pulmonary Disease: with Special Reference to Silica Dust," August 1938
- 9 "The Influence of Silica of the Natural and Acquired Resistance to the Tubercle Bacillus," September 1938
- 10 "Silicosis and Type III Pneumococcus Pneumonia: an Experimental Study," February 1940
- 11 "Therapeutic Effect of Dodecanoyl-Sulfanilamide on Tuberculosis in Guinea Pigs," from the Transactions of the Thirty-Sixth Annual Meeting of the National Tuberculosis Association, 1940
- 12 "Cavities in the Silicotic Lung: a Pathological Study with Clinical Correlation," September 1941
- 13 "Les Pneumoconioses," 1948 (in French)
- 14 "Essential Correlations Between Medicine and Industrial Research," March 1948
- 15 "Pathologic Aspects of Acute Pneumonitis and Pulmonary Granulomatosis in Beryllium Workers," June 1948
- 16 "Diatomaceous Earth Pneumoconiosis," 1949
- 17 "Variations in Individual Susceptibility to Industrial Dust Inhaled into the Lungs," July 1950
- 18 "Effects of So-Called Inert Dusts," August 1950
- 19 Asbestosis Articles Summaries/Reviews-1951 (in German): "Experimental Studies of Asbestosis," Vorwald, Pratt, Durkan; "BCG Vaccination in Silicosis," Vorwald, Dworski, Pratt, Delahant
- 20 "Experimental Studies of Asbestosis," January 1951, published version of the Johns-Manville Corporation contracted research by the Saranac Laboratory
- 21 "Adenocarcinoma in the Lung of Albino Rats Exposed to Compounds of Beryllium," Proceedings



- of the Scientific Session, Annual Meeting, November 3-4, 1953
- 21a "Non-Occupational Involvement of the Respiratory Tract in Workers Exposed to Industrial Dusts," presented to Youngstown, Ohio safety engineers, February 16, 1951; also in St. Louis, April 1951
- 22 "Relationship between the Piezoelectric Property and the Fibrogenic Capacity of Dust," August, 1953
- 23 "BCG Vaccination in Silicosis II, an Experimental Study of the Influence of Quartz Dust upon Infection by BCG (Aronson), H37Ra, and M. Marinum Strains of Tubercle Bacilli," May 1954
- 24 "The Production of Pulmonary Cancer in Albino Rats Exposed by Inhalation to an Aerosol of Beryllium Sulfate," January 21, 1954 (abstract)
- 25a "The Use of Quartz Dust for Challenging the Viability of Tubercle Bacilli in Tuberculous Lesions," May, 1954
- 25b "The Pathogenesis and Management of Pneumoconiosis," July, 1955
- 26 "Cancer Today," presented at Kellogg Center, Michigan State University, October 15, 1955
- 27 "Industrial Medicine and Hygiene at Wayne State University," March, 1956
- 28 "Disabling Pneumoconioses," 1957
- 29a "Environmental Aspects in the Etiology of Lung Cancer," 1957 (Proceedings of the Third National Cancer Conference)
- 29b "Environmental Aspects in the Etiology of Occupational Cancer," January, 1957 (Typed manuscript dated December, 1956) Asbestos File, Carcinoma of the Lung

**Box 005a:**

- 30 "Pathology of Certain Pneumoconioses," presented at Pneumoconiosis Conference, Montreal, Quebec, June 16, 17, 18, 1958 [original typed manuscript]
- 31 "The Bio-Assay of Dust with Particular Reference to Experimental Methods," 1959
- 32 "Inhaled Submicroscopic Particles in the Pathogenesis and Pathology of Silicosis," 1959
- 33 "Pathologic Changes Induced by Beryllium Compounds," February 1959
- 34 "Inhaled Atmospheric Pollutants in the Genesis of Lung Cancer: an Experimental Study of Biochemical Changes Induced by Beryllium," 1959
- 35 "Occupational Medicine or Industrial Medicine," Student-Faculty Assembly, October 23, 1959
- 35a "Diffuse Fibrogenic Pneumoconiosis," January, 1960
- 36 "Emphysema, Pneumoconiosis and Compensation," October 1960; March, 1961
- 37 "A New Method for Massive Dust Exposures by Inhalation," April, 1961
- 37a "Sulfur Dioxide and Public Health in Los Angeles," March 16, 1961
- 38 "The Lungs, the Environment, and Compensation," March, 1962
- 38a "The Air We Breathe," Downtown Rotary Club, Detroit, Michigan, February 7, 1962
- 39 "Mineral Content of Lung in Certain Pneumoconiosis," October, 1962
- 40 "The Pneumoconioses," August, 1963
- 41 "Evaluation of Disability," June, 1964
- 42 "Clinical Features of Asbestosis Correlated with Pulmonary Pathology," Caen, France, 1964
- 43 "Cancer of the Lung," Discussion: no date
- 43a "Observations on Workers in the Graphite Industry," 1965
- 44 "Effect of Polynuclear Hydrocarbon Carcinogens on the Lungs," no date
- 45 "Pulmonary Changes Induced by Inhaled Atmospheric Pollutants," no date

**Box 006:** Collected Reprints of Articles by Dr. Leroy U. Gardner et al. 1922-1946 (arranged chronologically)





- 1 "Publications of Leroy U. Gardner, M.D. vol. 1," 1917-1931
- 2 "Studies on the Relation of Mineral Dusts to Tuberculosis: II. The Relatively Early Lesions  
Produced by Inhalation of Marble Dust and Their Influence on Pulmonary Tuberculosis,"  
November, 1922
- 3 "Studies on Experimental Pneumoconiosis: IV. Inhalation of Asbestos Dusts: Its Effect Upon  
Primary Tuberculosis Infection," February, 1931
- 4 "Studies on Experimental Pneumoconiosis: VIII. Inhalation of Quartz Dust," January, 1932
- 5 "The Reaction to Fine and Medium Sized Quartz and Aluminum Oxide Particles, Silicotic Cirrhosis  
of the Liver," April, 1933
- 6 "The Pathological Reaction to Various Pneumoconiosis" (And discussion of paper by R.H. Jaffe,  
August, 1933)
- 7 "Silicosis and Its Relationship to Tuberculosis," January, 1934
- 8 "General Pneumoconiosis with Reference to Asbestosis or Silicosis"- "The Pathology of Various  
Mineral Dust Diseases," March, 1934
- 9 "Inhaled Silica and Its Effect on Normal Tuberculous Lungs," September, 1934
- 10 "Dust Diseases: Silicosis, Asbestosis, Bituminosis, Carborundosis," August, 1935
- 11 "Silicosis and Silico-Tuberculosis Census," August, 1935
- 12 "Pneumoconiosis," 1935
- 13 "The Diagnosis of Silicosis, with Special Reference to Roentgenological Manifestations." August,  
1936
- 14 "Pathology of Pneumoconiosis," October, 1936
- 15 "The Similarity of the Lesions Produced By Silica and by the Tubercle Bacillus," January, 1937
- 16 "Silicosis and Related Conditions," March, 1937
- 17 "Silico-Tuberculosis," December, 1937
- 18 "Reaction of the Living Body to Different Types of Mineral Dusts With and Without Complicating  
Infection," May, 1938
- 19 "Evidence of Inhibitory Action of Different Minerals Upon Silica," November, 1938
- 20 "Etiology of Pneumoconiosis," November, 1938
- 21 "The Medical Control of Silicosis and Tuberculo-Silicosis," February, 1939
- 21a "Air Hygiene in the Mining Industry," January 1940
- 22 "Recent Developments in Relation to Silicosis," February, 1940
- "Therapeutic Effect of Dodecanoyl-Sulfanilamide on Tuberculosis in Guinea Pigs," from the  
Transactions of the Thirty-Sixth Annual Meeting of the National Tuberculosis Association,  
1940 (SEE Box 5, folder 11)
- 23 "The Pathological and Roentgenographic Manifestations of Pneumoconiosis," February, 1940
- 24 "The Knudsen Award," June, 1940
- 25 "Research" (in the Industrial Health Program) December, 1940
- 26 "Tuberculosis in Industry," June, 1941
- 27 "Chrysotile Asbestos as an Indicator of Subtle Differences in Animal Tissues," June, 1942
- 28 "The Significance of Examination in the Diagnosis of Silicosis," June, 1942
- 29 "The Pneumoconioses," July, 1942
- 29a "Action of Finely Divided Magnesium upon the Lungs," October 29, 1942
- 30 "Elements of Diagnosis and Prognosis in Pneumoconiosis," June, 1944
- 31 "Aluminum Therapy in Silicosis," September, 1944
- 32 "The Employability of Silicotic Subjects," 1946
- 33 Occupational Medicine, vol. 4, no. 1, (Leroy J. Gardner Memorial Number), July, 1947



**Box 007:** Collected Reprints of Articles by Saranac Laboratory Staff, 1929-1951: Dr. Donald A. Bailey; Dr. Louis H. Berkelhamer; Dr. D.M. Brumfiel; Dr. Donald Cummings; Dr. Thomas Durkan; Dr. George Wright (arranged by author, within author chronologically).

- 1 Bailey. "Conversion of Silica During Ignition: A Possible Source of Error in Analysis of Powdered Samples," July, 1947
- 2 Berkelhamer. "Settling Characteristics of Various Inorganic Dusts," September, 1940
- 3 Berkelhamer. "X-ray Diffraction-an Important Tool in Pneumoconiosis Research and a New Method of Tissue Analysis," May, 1941
- 4 Brumfiel. "Pneumoconiosis," January, 1940
- 5 Cummings. "Dust Concentrations and Methods of Measurement," (Silicosis Symposium)
- 6 Cummings. "Occupational History," (Silicosis Symposium)
- 7 Cummings. "Studies On Experimental Pneumoconiosis. IV. The Separation of Particulate Matter Smaller than Screen Sizes into Graded Fractions," September 1929
- 8 Cummings. "The Significance of Silicosis in Mining," September, 1935
- 9 Cummings. "A Study of the Types and Virulence of Tubercle Bacilli Isolated from Tuberculous Silicotics and Some Observations Regarding The Nature and Relationship of Infections in Silicotics and Their Contacts," 1935
- 10 Cummings. "Suggestions for the Control of Silicosis in Mining," May 1938
- 11 Cummings. "Tuberculous Lesions in Male Industrial Workers," April 1939
- 12 Durkan. "The Determination of Free Silica in Industrial Dust," September 1946
- 13 Filley, Hawley & Wright. "The Toxic Properties of Silica: I. Bronchoconstrictor Effect of Colloidal Silica in Isolated Perfused Guinea Pig Lungs," February 1945
- 14 Wright. "Diseases of the Respiratory System," 1951
- 15 Wright. "Pulmonary Fibrosis and Respiratory Function," May 1951

**Box 008:** Minutes of the Saranac Laboratory Weekly Staff Meetings for the Period November, 1948 to July, 1949; Minutes of the Annual Meeting of the Board of Trustees of the Trudeau Foundation for the Meeting held August 23, 1952. Note: The Minutes of the Saranac Staff Meetings were held during the period of the Owens-Illinois KAYLO experiments and contain some relevant discussions. (arranged chronologically). Miscellaneous curricula vitae; Miscellaneous papers of the Saranac Laboratory.

- 1 "Saranac Laboratory/Trudeau Foundation- Meeting Minutes," November, 24, 1948 - July 18, 1949
- 2 "Board of Trustees Meeting," August 23, 1952  
[Copied From: Proposal to Johns-Manville Corporation for Elimination Studies Concerning Diatomaceous Earth]
- 3 Miscellaneous curricula vitae (not Vorwald).
- 4 Miscellaneous: Trudeau School of Tuberculosis, Sept.-Oct. 1947; The Saranac Laboratory: Papers in Print (for 1948 report); Trudeau Foundation roster of personnel, August 1, 1947; "Department of Radiology," by Leonard J. Bristol (Fall 1950); Trudeau Foundation Organizational Chart, September 1948; "The Department of Physiology," by George W. Wright (undated); "Pneumoconiosis, Trudeau School," (outline), 1947; Papers Being Prepared for Publication (tentative titles), January 8, 1953; The Edward L. Trudeau Foundation: Its Beginnings, Purposes, Manner of Control by the Trustees, and Sources of Income (2 copies); The Saranac Laboratory (staff list, papers in print, current and completed studies and papers, fee schedule), September 23, 1948; Department of Radiology –



Industrial Films Read During the Period 10/1/49-9/30/50.

**Box 009:** Fiscal Records of the Saranac Laboratory, Saranac Lake, New York/and the Trudeau Foundation for the Period 1932-1954. (arranged chronologically) Also includes: Fiscal Records of Building Fund Contributions-Long Range Budgets-Miscellaneous Fiscal Records

- 1 Saranac Laboratory- Fiscal Budgets, 1932, 1934, 1935, 1936, 1938, 1939
- 2 Saranac Laboratory- Fiscal Budgets, 1940, 1942, 1943, 1944, 1945
- 3 Saranac Laboratory- Fiscal Budgets, 1946, 1947, 1948, 1949
- 4 Saranac Laboratory- Fiscal Budgets, 1950, 1951, 1952, 1953, 1954
- 5 Saranac Laboratory- Building Fund Contributions, 1945-1952
- 6 Saranac Laboratory- Long Range Budgets, 1949-1952
- 7 Saranac Laboratory- Miscellaneous Fiscal Records, No Dates

**Box 010:** Fiscal Records of the School of Industrial Medicine and Hygiene, Wayne State School of Medicine, Wayne State University, Detroit, Michigan for the Period 1954-1967 (arranged chronologically)

- 1 Wayne State University-Summary of Accounts, July 1961-May 1963
- 2 Wayne State University-Summary of Accounts, June 1963-December 1964
- 3 Wayne State University-Summary of Accounts, January 1965-July 1965
- 4 Wayne State University-Summary of Accounts, August 1965-September 1966
- 5 Wayne State University-Summary of Accounts, October 1966-June 1967

**Box 011:** Annual Reports of the Trudeau Foundation and the Saranac Laboratory: Collected Annual Reports of the Director, Saranac Laboratory, for the Years 1900-1910 and 1910-1920 (bound)

- 1 Saranac Laboratory: Annual Reports of the Director-Studies of the Saranac Laboratory for 1900-1910
- 2 Saranac Laboratory: Annual Reports of the Director-Studies of the Saranac Laboratory for 1910-1920

**Box 012:** Accepted Proposals of the Saranac Laboratory, Saranac Lake, New York. (arranged alphabetically by sponsor) (Bound in spiral notebook)

- 1 Saranac Laboratory
- 2 Chemical Corps, Camp Detrick, Frederick, Maryland: Proposal for Study – “The Reaction of Tuberculin-sensitive, Tuberculosis, and Normal Guinea Pigs to Inhaled Tuberculosis”
- 3 American Cancer Society: Request for extension of grant – “Experimental Epithelial New Growths (Adenocarcinoma) in the Lung of Rats Exposed for Prolonged Periods to the Inhalation of Beryllium Sulphate”
- 4 American Trudeau Society (N.T.A.): BCG
- 5 Columbia-Southern Chemical Corporation (subsidiary of Pittsburgh Plate Glass Company): Proposal – “The Toxicity of Hi-Sil-C”
- 6 Dow Corning Corporation: Proposal – “The Capacity of Inhaled Finely-divided Silica Dust to Damage the Lung”
- 7 E.I. duPont deNemours Corporation: Proposal – “The Capacity of Inhaled Hydrophobic Silica



- Dust to Damage the Lung”
- 8 General Electric Company: “Proposal for Further Investigations (Final Report) Investigation of Potential Respiratory Hazard with Silica Fume”
  - 9 Johns-Manville Corporation: “Revised Proposal for Research Program with Diatomaceous Earth”
  - 10 Johns-Manville Corporation, Aluminum: Proposal – “Powdered Aluminum Hydroxide in Diatomaceous Earth Pneumoconiosis”
  - 11 Lake Superior Iron Ore Project: [Contract between Saranac Laboratory and the M.A. Hanna Company, Oglebay, Norton and Company, Oliver Iron Mining Company, Pickands Mather and Company, Agents, and Republic Steel Company to study Silicosis]
  - 12 Monsanto Chemical Company: Review of Program – “The Biototoxicity of Syton” [also Santocel]
  - 13 Perlite Institute: Great Lakes Carbon Corporation: “Proposal for the Investigation of the Biologic Activity of Perlite Inhaled into the Lung”
  - 14 Quebec Asbestos Mining Association: Proposal – “Asbestosis and Pulmonary Cancer”
  - 15 Republic Steel Corporation - Mineville and Lyon Mt. Contracts: Evaluation of Dust Control Programs]
  - 16 Reserve Mining Company: Proposal – “Investigation of the Respiratory Dust Hazard Attending the Mining, Processing, and Use of Taconite”
  - 17 Damon Runyon Memorial Fund For Cancer Research, Inc.: “Studies Concerning Environmental Cancer of the Lung”
  - 18 United States Atomic Energy Commission: Proposal and Requests for Renewal – “Experimental and Clinical Investigations Concerning Beryllium”
  - 19 United States AEC, Cortisone, 2-5-51: Proposal – “The Influence of Cortisone Upon Chronic Inflammatory Disease of the Lung and Application for Renewal” – “Clinical Studies and Therapy of Chronic Pulmonary Granulomatosis (Beryllium)”
  - 20 U.S. Navy Task Order II: Research of Chemotherapy in Chronic Tuberculosis and Silico Tuberculosis, BCG (Bacillus Calmette Guerin)
  - 21 Office of Naval Research - Bronchiectasis - 9/27/51- Proposal
  - 22 Veterans Administration - Cortisone – “The Influence of Cortisone Upon Chronic Inflammatory Disease of the Lungs”

**Box 013:** Collected Papers, Progress Reports, Final Reports, Notes, and Correspondence (only partial - see also Correspondence Boxes 1 & 2) from Research Contracts/Grants of the Saranac Laboratory (Period 1931-1953) and the Wayne State University School of Industrial Medicine and Hygiene (Period: 1954-1967) (arranged alphabetically by sponsor in 18 Boxes—starting with the American Brake Shoe Company to Asbury Graphite Mills Box 013):

- 1 “American Brake Shoe Company: Experiment No. 1045, Interim Report [Dust Inhalation],” December 21, 1946
- 2 “American Cancer Society: National Research Council- Beryllium Sulphate,” 1951-1954
- 3 “American Cancer Society: Supplement to Progress Report- Experimental Pulmonary Cancer Induced by Compounds of Beryllium and by Other Potential Respiratory Carcinogens,” April 30, 1959
- 3a American Cancer Society: “Horizontal Refrigerator Cabinet in Lieu of Cold Room,” March 1961.
- 4 “American Cancer Society: Application for Grant in Support of Research- Pulmonary Cancer Induced by Compounds of Beryllium and Other Test Agents in Experimental Animals,” September 15, 1961
- 5 “American Cancer Society: Progress Report - Pulmonary Cancer Induced by Compounds of “Beryllium and by Other Test Agents In Experimental Animals,” September 1, 1961



- 6 "American Trudeau Society, National Tuberculosis Association: Report- The Influence of "Inhaled Crystalline Silica Aerosols upon Pulmonary Infection by BCG and Other Strains of Acid Fast Bacilli," March 19, 1954
- 7 "Asbestos Association: Research conducted using raw data of the contract with them- "Pneumoconiosis and Pulmonary Malignancy," Vorwald/Karr, 1939
- 8 "Asbury Graphite Mills, New Jersey: Graphite" - Study of Graphitosis Cases from the Graphite Industry," 1958-1962
- 9 "Asbury Graphite Mills, New Jersey: Graphite" [folder 1 of 2] - Notes, etc. that were utilized in the co-authored report, Vorwald & Pendergrass, 1965
- 10 "Asbury Graphite Mills, New Jersey: Graphite" [folder 2 of 2] - Notes, etc. that were utilized in the co-authored report, Vorwald & Pendergrass, 1965

**Box 014:** AEC Beryllium Contracts, 1948-1954

- 1 AEC: Beryllium, Contract No. AT (30-1)-983, 1948-1954 Proposal- March 4, 1948; Request for Renewal-March 15, 1952 Progress Reports
- 2 AEC: Beryllium, Contract No. AT (30-1)-983, Book 1, 1948-1954 "The Effect of Beryllium on Certain Enzymes;" "The Biochemical Effects of Pulmonary Granulomations" [Division of Medicine & Biology, Washington, DC]
- 3 AEC: Beryllium, Contract No. AT (30-1)-983, Book 2, 1948-1954 "The Effect of Beryllium on Certain Enzymes;" "The Biological Effects of Pulmonary Granulomatosis" [Division of Medicine & Biology, Washington, DC]
- 4 AEC: Beryllium, Contract No. AT (30-1)-983 "Experimental Investigations of the Toxicity of Beryllium," Progress Report, Part 1
- 5 AEC: Beryllium, Contract No. AT (30-1)-983, April 23, 1951 "Aspects of Pulmonary Disease Occurring in Beryllium Workers," Progress Report, Part 2
- 6 AEC: Beryllium, Contract No. AT (30-1)-983, April 23, 1951 "Request for Renewal of Research Grant" [Division of Biology & Medicine]
- 7 AEC, Office of Naval Research: Beryllium, Contract No. AT (30-1)-983, "Beryllium Excretion in Humans"

**Box 015:** Atomic Energy Commission (AEC) Beryllium Contracts, 1954-1962

- 1 AEC: Beryllium, Contract No. AT (30-1)-983, March 1, 1954 "Experimental Investigation Concerning the Toxicity of Beryllium Deposited in the Lung," Final Report
- 2 AEC: Contract No. AT (30-1), 1398, Request for Rewards- March 22, 1952- March 31, 1953- Correspondence, Progress Reports Biochemical Aspects of Pulmonary Granulomatosis
- 3 AEC: Contract No. AT (11-1)-600, August 22, 1957, Research Proposal "The Response of the Respiratory Tract and Lung to Inhaled Stable and Radioactive Isotopes of Certain Elements"
- 4 AEC: Contract No. AT (11-1)-600, April 7, 1958, "The Response of the Respiratory Tract and Lung to Inhaled Stable and Radioactive Isotopes of Certain Elements"
- 5 AEC: Contract No. AT (11-1)-600, Tritium (H3), Promethium 147, Scandium 46, Cobalt 60, July 31, 1959, "Application of Supplemental Fund for Purchase of Equipment"
- 5 AEC: Contract No. AT (11-1)-600, March 1, 1960, Application for Renewal of Contract- "The



Response of the Respiratory Tract and Lung to Inhaled Stable and Radioactive Isotopes of Certain Elements”

- 6 AEC: Contract No. AT (11-1)-600, March 1, 1960, Application for Renewal of Contract
- 7 AEC: Contract No. AT (11-1)-600, March 1, 1960, Application for Renewal of Contract
- 8 AEC: Contract No. AT (11-1)-600, December 5, 1960, Application for Renewal of Contract
- 9 AEC: Contract No. AT (11-1)-600, March 30, 1961, Statement to Mr. White, Contracts Division, AEC Operations Office
- 10 AEC: Contract No. AT (11-1)-600, April 13, 1961, Proposed Budget for Renewal of Contract
- 11 AEC: Contract No. AT (11-1)-600, July 11, 1961, Interim Progress Report
- 12 AEC: Contract No. AT (11-1)-600, October 17, 1961, Interim Progress Report
- 13 AEC: Contract No. AT (11-1)-600, February 2, 1962, Application for Renewal of Contract
- 14 AEC: Contract No. AT (11-1)-600, April 17, 1962, Interim Progress Report
- 15 AEC: Contract No. AT (11-1)-600, April 27, 1962, Revised Budget, Renewal of Contract

**Box 016:** B.F. Goodrich Company to Dow Corning Corporation

- 1 B.F. Goodrich Co., Akron, OH: Amorphous Silica, 1949, “Preliminary Injection Studies with Goodrich Products”
- 2 B.F. Goodrich Studies: February 28, 1951, “Final Report, Investigation to Determine the Biologic Activity of Various Dusts”
- 3 Chemical Corps Biological Laboratories MM Division, Camp Detrick, Frederick, MD: TUBERCULIN, December 31, 1953, “Inhaled Tuberculin Study Using Guinea Pigs” [Folder 1 of 2]
- 4 Chemical Corps Biological Laboratories. TUBERCULIN, December 31, 1953, “Inhaled Tuberculin Study Using Guinea Pigs” [Folder 2 of 2]
- 5 The Chlorine Institute, New York, N.Y.: October 9, 1967, “The Health of Workers in the Chlorine Industry Report”
- 6 Corning Glass Company: August 11, 1950, “Proposal for the Investigation of Bacteriostatic and Bactericidal Glass”
- 7 Damon Runyon Memorial Fund: December 1, 1949, Application for Institutional Research Grant for Cancer Research
- 8 Damon Runyon Memorial Fund: October 9, 1951, Application for Renewal of Grant
- 9 Damon Runyon Memorial Fund: October 9, 1951, “Environmental Cancer: The Capacity of Inhaled Dust to Elicit and Initiate Pulmonary Tumors in Experimental Mice” - Progress Report
- 10 Damon Runyon Memorial Fund: October 14 & 29, 1952, Application of Renewal for Institution Research Grant for Cancer Research
- 11 Damon Runyon Memorial Fund: October 20, 1952, “Progress Report >Environmental Cancer: The Capacity for Inhaled Dust to Elicit and Initiate Pulmonary Tumors in Experimental Mice”
- 12 Damon Runyon Memorial Fund, Project #QU-75: 1949-1952, Incoming Correspondence
- 13 Damon Runyon Memorial Fund, Project #QU-75: 1949-1953, Incoming Correspondence
- 14 Damon Runyon Memorial Fund: October 25, 1949 - January 18, 1952, Various Memoranda about the Grant
- 15 Damon Runyon Memorial Fund, Project #QU-75: 1950-1952, Budget- 1950-1951 and 1952-1953
- 16 Damon Runyon Memorial Fund: 1953 - Press Release about grants funded by D.R.M.F.
- 16a Detroit Tuberculosis Sanatorium Association. April 1, 1962, “The Mineral Content of the Lung in Certain Pneumoconioses.” Includes photographs and illustrations.
- 17 DOW Corning Corporation: February 19, 1953, Amorphous Silica, “The Capacity of Inhaled Finely-Divided Amorphous Silica to Damage the Lung”



**Box 017:** E.I. duPont deNemours & Company to General Electric Company

- 1 E.I. du Pont de Nemours & Company Chemicals: March 1, 1952-- Contractual Materials for Proposal for Research 1952-1953. Hydrophobic and Salt-Free Hydrophobic Silica, The Capacity to Damage the Lungs... Proposal and Correspondence. [Book 1]
- 2 E.I. du Pont de Nemours & Company Chemicals: Progress Report, March 1, 1954-- Contractual Materials. Hydrophobic and Salt-Free Hydrophobic Silica, The Capacity to Damage the Lungs... Proposal, Correspondence and Reports.
- 3 E.I. du Pont de Nemours and Company Grasselli Chemicals, Wilmington DE: March 1, 1954. The Biological Activity Hydrophobic Silica and of Salt-Free Hydrophobic Silica, Progress Report, March 1, 1954
- 4 General Electric Company, Cleveland, OH: July 30, 1949. Silica Fume - Interim Progress Report #1, July 30, 1949
- 5 General Electric, Nela Park, OH, Silica Fume Research Contract 1948-1951. Silica Fume: "Investigation of Potential Respiratory Hazard with Silica Fume," Interim Progress Report, June 30, 1949: Schedule and Operations Proposal, Correspondence. [Book 2]
- 6 General Electric Company, Nela Park, NJ. Amorphous Silica: "Investigation of Incandescent Light-bulb Capacity to Damage Human Lungs," 1948-1949
- 7 General Electric, Nela Park, OH, Silica Fume Research Contract 1948-1951. Silica Fume: "Investigation of Potential Respiratory Hazard with Silica Fume," Memoranda, Final Report, September 13, 1951. [Book 1]
- 8 General Electric, Nela Park, OH, Silica Fume Research Contract 1948-1951. Silica Fume: "Investigation of Potential Respiratory Hazard with Silica Fume," Interim Report, June 30, 1949. Final Report September 13, 1951, Silica Fume Test Results. [Book 3]
- 9 General Electric Company, Metallurgical Products Department, Detroit, MI: July 8, 1966. Medical Aspects of Metallurgical Dust. (Section of a larger report)

**Box 018:** Great Lakes Carbon Corporation

- 1 Great Lakes Carbon Corporation, New York, NY, December 12, 1951. Perlite Plaster/Permalite Plaster
- 2 Great Lakes Carbon Corporation, New York, NY, December 12, 1951. Raw Petroleum Coke and Calcined Coke, "The Capacity to Damage the Lungs of Experimental Animals"

**Box 019:** Johns-Manville Corporation (Diatomaceous Earth)

- 1 Johns-Manville Corporation - Diatomaceous Earth
- 2 Johns-Manville Corporation - Aluminum in Diatomaceous Earth Pneumoconiosis
- 3 Johns-Manville Corporation - Diatomaceous Earth and Aluminum

**Box 020:** Johns-Manville Corporation (cont.) and Asbestos to McIntyre Research Limited

- 1 Johns-Manville Corporation, New York, NY (Sponsor of Study), September 13-17, 1984. Diatomaceous Earth Pneumoconiosis, Presented at the Ninth International Congress On



- Industrial Medicine London, England Paper, September 13-17, 1948
- 2 Johns-Manville Corporation, New York, NY, April 23, 1949. Discussion of the Problem of Diatomaceous Earth Dust, April 23, 1949
  - 3 Johns-Manville Corporation, Great Lakes Carbon Corp., October 27, 1949. Diatomaceous Earth, Interim Progress Report #2, October 27, 1949
  - 6 Johns-Manville Corporation, Great Lakes Carbon Corporation. Comparison of the Biologic Activity of Natural Diatomaceous Earth, Regular Flux-Calcined Diatomaceous Earth, and Special Flux-Calcined Diatomaceous Earth, April 1, 1953
  - 7 Johns-Manville Corporation, New York, NY, March 31, 1948. Diatomaceous Earth Pneumoconiosis, Experimental and Clinical Studies Report, March 31, 1948.
  - 8 Johns-Manville Corporation, New York, NY, September 13-17, 1948. Diatomaceous Earth Pneumoconiosis, Presented at the Ninth International Congress on Industrial, London
  - 9 Johns-Manville Corporation, New York, NY, September 30, 1948. Asbestosis, Experimental Studies Report (unedited)
  - 10 Johns-Manville Corporation, New York, NY, January 31, 1949. Asbestosis, Experimental Studies (working copy for revision)
  - 11 Johns-Manville Corporation, January 31, 1949. Asbestosis, Experimental Studies
  - 12 Johns-Manville Corporation, January 31, 1949. Asbestosis, Experimental Studies (copy 2)
  - 13
  - 14 Johns-Manville Corporation, Quebec, Canada, May 15, 1952. Report of Examination of Atmospheric Dust Collected at Plant of Canadian Johns-Manville Company, Limited, Asbestos, Quebec
  - 15 Lederle Pharmaceutical Co. ? Reaction of Normal and Tuberculin-Hypersensitive Guinea Pigs To Inhaled Tuberculin Aerosol, June 21, 1954.
  - 16 McIntyre Research Limited, September 12, 1947. Report to McIntyre Research Limited, Experimental and Petrographic Analysis of Silicious Dust

**Box 021:** Monsanto Chemical Company

- 1 Monsanto Chemical Company, St. Louis, MO, 1947-1948. Santocel (S-90-12), Silica Acid. Effect of Ingestion, Injection, and Inhalation of Santocel Dust. Book 1.
- 2 Monsanto Chemical Company, St. Louis, MO, 1947-1948. Syton, Effect of Ingestion, Injection, and Inhalation of Syton Dust. Book 2
- 3 Monsanto Chemical Company, St. Louis, MO, April 27, 1956. The Biototoxicity of a Colloidal Dispersion of Synthetic Silica "Syton." Addendum to Report Dated March 10, 1955 with cover letter. April 7 1956.
- 4 Monsanto Chemical Company, St. Louis, MO, 1949. Santocel (S-90-R), Santocel Experiment 1077, Paper/I.M.A. Detroit 1949.
- 5 Monsanto Chemical Company, St. Louis, MO, August 31, 1949. Concerning Animal Experiments with Santocel (S-90-R). Third Interim Report with corrections to report 10/10/46 by Gardner.
- 6 Monsanto Chemical Company, St. Louis, MO, 3/30/55. The Biototoxicity of Colloidal Dispersion of Synthetic Silica "Syton." (an experimental study) Final Report with cover letter. March 10, 1955.

**Box 022:** National Lead Company to National Tuberculosis Association (General Grants for Research)

- 1 National Tuberculosis Association, Medical Section, NYC, NY. Proposal 4/1/51. Interim Reports 1951-1954. BCG Studies, Book 1, completed.





- 2 National Tuberculosis Association, Medical Section, NYC, NY 1951-1952. BCG Studies, Book 2, completed.
- 3 National Spectrographic Lab, Inc. June 27, 1961. A report on the Performance of the National Spectrographic Lab Beryllium Monitor.
- 4 National Lead Company, Titanium Alloy Manufacturing Divisions, Niagara Falls, NY. Titanium Alloy: Zircon and Zirconia Final Report. "Assay of the Biological Activity of Zirconium Oxide of Superpax." November 30, 1950 with proposal.

**Box 023:** National Tuberculosis Association: Atlas of the Industrial Lung, 1930-1948

- 1-2 National Tuberculosis Association. Roentgen ray Atlas of the Industrial Lung

**Box 024:** National Tuberculosis Association: Atlas of the Industrial Lung, 1943-1948 (cont.)

- 1-5 National Tuberculosis Association. Roentgen ray Atlas of the Industrial Lung

**Box 025:** Office of Naval Research: Beryllium Study 1948-1950; Streptomycin and Aluminum Hydroxide Study, 1948

- 1 Norton Company, Niagara Falls, NY. Silica Fume: Shaver Disease Notes, 1947-1948
- 2 Office of Naval Research Contract N7onr-307-Task Order Inr120-212. AEC. Beryllium: Experimental Investigations Concerning the Biotoxicity of Beryllium Report. June 22, 1950
- 3 Office of Naval Research Contract N7onr-307,7.0. #1. Beryllium: Biochemical Aspects of Beryllium Pulmonary Diseases, Progress Report. June 20, 1950
- 4 Office of Naval Research. Beryllium: Determination of Traces of Beryllium in Biological Material, Report. 1950
- 5 Office of Naval Research Contract N7onr-307-Task 1. AEC. Beryllium: The Effect of Beryllium on Certain Enzymes, Report. June 22, 1950
- 6 Office of Naval Research Task Order II NR 131-307. BCG Vaccination in Silicosis Contract, Task II, Request for Renewal. December 23, 1948
- 7 Office of Naval Research Task Order II NR 131-307. BCG Vaccination in Silicosis Contract, Task II, Progress Status Report. May 28, 1949
- 8 Office of Naval Research Task Order II NR 131-307, NR 122-212. BCG Vaccination In Silicosis Contract, Task II Proposal. March 1, 1947
- 9 Office of Naval Research Task Order II NR 131-307. BCG Vaccination in Silicosis Contract. Task II Progress Status Report. December 22, 1948
- 10 Office of Naval Research Task Order II, Progress Status Report. BCG Vaccination in Silicosis Contract. October 1, 1949. Progress Report
- 11 Office of Naval Research Task Order II NR 131-307. BCG Vaccination in Silicosis Contract, Task II Request for Renewal. October 20, 1949
- 12 Office of Naval Research Task Order II NR 131-307, BCG Vaccination in Silicosis Contract. Task II Report. February 1, 1950
- 13 Office of Naval Research Task Order II NR 122-212. BCG Vaccination in Silicosis Contract. Task II "The Study of Pulmonary Disease in Beryllium Workers Report." July 15, 1949
- 14 Office of Naval Research Task Order II NR 131-307. BCG Vaccination in Silicosis Contract. Task II Technical Report. July 11, 1950
- 15 Office of Naval Research Task Order II Vaccination in Silicosis Contract. Miscellaneous Documents



- 16 Office of Naval Research, Washington DC, 1948-1951(January). BCG Reports, Task 1, Book 1, Complete.
- 17 Office of Naval Research Task Order II Vaccination in Silicosis Contract. Miscellaneous Documents
- 18 Office of Naval Research, Contract N7ONR-307, Task Order II, December 23, 1948. Technical Report: The Treatment of Experimental Tuberculo-Silicosis with Streptomycin and Aluminum Hydroxide (references Experiments 1055, 1082, 1083, and 1094)

**Box 026:** Office of Naval Research: Beryllium Study 1951-1960

- 1 BCG Vaccination in Silicosis Contract. Task II Progress Status Report. January 30, 1951
- 2 Office of Naval Research. BCG Vaccination in Silicosis Contract. Task II Progress Status Report. January 30, 1951
- 3 Office of Naval Research. BCG Vaccination in Silicosis Contract. Task II Request for Renewal. February 1, 1951
- 4 Office of Naval Research Task Order II NR 131-307. BCG Vaccination in Silicosis Contract. Task II Progress Status Report. July 31, 1951
- 5 Office of Naval Research Task Order II NR 131-307. BCG Vaccination in Silicosis Contract. Task II Progress Status Report. July 31, 1951
- 6 Office of Naval Research Task Order II NR 131-307. BCG Vaccination in Silicosis Contract. Task II Progress Status Report. January 15, 1952
- 7 Office of Naval Research Task Order II NR 131-307. BCG Vaccination in Silicosis Contract. Task II Progress Status Report. January 15, 1952
- 8 Office of Naval Research Task Order II . BCG Vaccination in Silicosis Contract. Task II Progress Status Report. January 15, 1952
- 9 Office of Naval Research Task Order II N 7onr NR 131-307. BCG Vaccination in Silicosis Contract. Task II, Book 1. Reprint Final Report December 31, 1953. Progress Report January 15, 1952. Progress Report July 31, 1951. Request for Renewal February 1, 1951
- 10 Office of Naval Research: Research Sponsored by the ONC under Task Order III- NR 131-307. "BCG Vaccination in Silicosis." Manuscript of Article to American Review of Tuberculosis. October 17, 1953. [Vorwald, D. Worski, Pratt, Oelehant]
- 11 Official Naval Research Contract N 7onr- 307. Task Order III, NRH 2-214. Arterial Blood Gas Studies: (Various) Physiological Contract III. Proposal, Progress Status Report, Technical Reports Memoranda
- 12 Office of Naval Research. Task Order II NR 131-307. BCG Vaccination in Silicosis Contract. Task II Treatment of Tuberculosis and Silicosis with Antibiotics: Study, 1953

**Box 027:** Olga Coal Company, Subsidiary of Pickands Mather & Co. to Pittsburgh Plate Glass Company (BOX contains KAYLO Experiment Documents: Owens-Illinois Glass Company)

- 1 Pickands Mather and Co.; Ogleby-Norton and Co.; Oliver Iron Mining Co.; MA. Hanna Co.; Republican Steel Corporation; Lake Superior Iron Project Industrial Hygiene Project of the Masaba Iron Range, 1948, 1949, 1950, 1951.
- 2 Onandaga Pottery, Niagara Sprayer, Ethicon Suture, Linde Air Products, Calcined Pacing Clays, Insecticides - Fungicides, Tantalumoxide, 20 Millimicron Silica, 1948.
- 3 Olga Coal Co., Coalwood, WV, Pickands Mather and Co., Olga Coal Mine #1; Olga Coal Mine, 1950.
- 4 Owens-Illinois Glass Co., Toledo, OH Asbestos: Kaylo Experiments; "Regarding the Biological



- Activity of Kaylo Dust." Interim Report, April 30, 1949.
- 5 Owens-Illinois Glass Co., Toledo, OH Asbestos: Kaylo Experiments; "Regarding the Biological Activity of Kaylo Dust." Interim Report with Cover Letter, October 30, 1947.
- 6 Owens-Illinois Glass Co., Sayreville, NJ Asbestos: Kaylo Experiments; "Industrial Hygiene Survey of the Kaylo Division Plant of Owens-Illinois Glass Co." Report, May 29, 1951.
- 7 Owens-Illinois Glass Co., Toledo, OH Kaylo: "Investigation concerning the Capacity of Inhaled Kaylo Dust to Injure the Lung." Final Report, January 30, 1952.
- 8 Owens-Illinois Glass Co., Toledo, OH Asbestos: Kaylo Experiments; "Regarding the Biological Activity of Kaylo Dust." Interim Report, October 30, 1948.
- 9 Owens-Illinois Glass Co., Toledo, OH Asbestos: Kaylo Experiments: "Regarding the Biological Activity of Kaylo Dust." Interim Report, January 1, 1950.
- 10 The Perlite Institute, NYC, NY "Perlite: The Biological Activity of Perlite." Interim Progress Report. December 11, 1952.
- 11 Pittsburgh Plate Glass Company, Southern Chemical Company (Division of PPG) 1950-1953, HI-SIL, Studies concerning the Biological Activity of Hi-Sil Dust
- 12 Pittsburgh Plate Glass Co., Pittsburgh, PA December 21, 1950. Regarding the Biological Activity of Hi-Sil Dust. Final Report, December 21, 1950.
- 13 Pittsburgh Plate Glass Company, Southern Chemical Company (Division of PPG) 1950 Hi-Sil, Studies concerning the Biological Activity of Hi-Sil Dust Completion

**Box 028:** Quebec Asbestos Mining Association: ASBESTOS/CANCER 1951-1952 to Summer Institute, Wayne State University

- 1 Quebec Asbestos Mining Association Dec. 26, 1952 Asbestos: Study of Atmospheric Dust Collected at 3 Asbestos Mines in Thetford Area, Quebec, Canada, King Mine, Johnson Mine, Bell Mine
- 2 Quebec Asbestos Mining Association Sept. 21, 1950 Asbestosis and Pulmonary Cancer, Proposal with cover letter
- 3 Quebec Asbestos Mining Association May 7, 1952 Asbestosis and Pulmonary Cancer, First Interim Report
- 4 Reserve Mining Co., Babbitt, Minnesota. Taconite: A Report of the Engineering Work for the Reserve Mining Co. Industrial Hygiene Studies 1949-1953.
- 5 Republic Steel Corporation, Cleveland, OH; Birmingham, AL, Area Mines: Virginia Coal Mines, Dec. Mar, April, 1950; March/April 1951; December 1952; Report of Consultation Service Industrial Health Status of employees in certain operations, December 1, 1952.
- 6 Reserve Mining Co., February 20, 1952 Investigation of the Respiratory Dust Hazard Attending the Mining Processing and use of Taconite, Proposal Temp #2
- 7 Reserve Mining Co., June 29, 1953. Report of Engineering Work.
- 8 Reserve Mining Co., January 19, 1953. Report of engineering work August 1952 - January 1953.
- 9 Summer Institute, 1957. Final Report: 1957 Summer Institute of Radiation Biology for High School Science Teachers June 9, 1950.
- 10 Summer Institute, 1957. Final Report: 1957 Summer Institute of Radiation Biology for High School Science Teachers June 9, 1958.
- 11 Summer Institute, 1958 Proposal for Summer Institute, a teaching and training program for high



- school science teacher in Radiation Biology, August 7, 1957.
- 12 Summer Institute, 1958 Final Report: 1958 Summer Institute on Radiation Biology for High School Science Teachers, March 3, 1959
- 13 Summer Institute, 1959 Proposal for Summer Institute, a teaching and training program for high school science teacher in Radiation Biology, June 25, 1958.
- 14 Summer Institute 1959. Final Report: 1959 Summer Institute on Radiation Biology.

**Box 029:** Union Carbide and Carbon Corporation to United States Public Health Service

- 1 Union Carbide and Carbon Corporation National Carbon Division, Fostoria, OH Petrographic and X-ray Defraction Columbia Activated Carbon, Petro and Xray Defraction Studies 1950
- 2 US Army, Office of the Surgeon General Tuberculosis: "Screening of Various Agents for Assay of their Antimicrobial and Antibiotic Effect upon the Tubercle Bacillus in vivo and invitro," 1951
- 3 US Public Health Service Antibiotics Effect on Tuberculosis Infection Progress Reports (Various Antibiotics), 1948
- 4 US Public Health Service Grant # RG 116 (C1), (C2) Office of Naval Research Contract # N7onr-307, TC #1; #NR 122-212 15 July 1949 Beryllium: "The Study of Pulmonary Disease in Beryllium Workers." Report
- 5 US Public Health Service Grant C-2507 (C1) SEOH December 1, 1955 to November 30, 1956. Experimental Pulmonary Cancer in Monkeys, Progress Report August 17, 1956
- 5a US Public Health Service Grant # RG 542 (C4) January 1, 1949 to December 31, 1950. Number of Streptomycin and PAS Sensitivity Tests Performed at the Trudeau Laboratory. (Attached to report titled TB-1 (4-Acetylaminobenzal Thiosemicarbazone) in Experimental Tuberculosis from the Trudeau Laboratory
- 5b US Public Health Service Grant # RG 61(C4), Clinical Research in Industrial Pulmonary Disability July 1, 1950 to June 30, 1951 (application and progress report)
- 6 US Public Health Service E-36 October 16, 1952. Studies in Experimental Tuberculosis, Application for Research Grant for July 1, 1953 to June 30, 1955
- 7 US Public Health Service Grant C-2507 (C2) SEOH December 1956 to November 30, 1957. Experimental Pulmonary Cancer in Monkeys Progress Report May 20, 1957
- 8 US Public Health Service Grant C-2507 (C3) SEOH December 1, 1957 to November 30 1958. Experimental Pulmonary Cancer in Monkeys Progress Report June 24, 1958
- 9 US Public Health Service Grant C-2507 (C4) SEOH December 1, 1958 to November 30, 1959. Experimental Pulmonary Cancer in Monkeys Progress Report June 18, 1959
- 10 US Public Health Service Grant RG 5082 June 24, 1958 Progress Report: Phenolic Compounds in Urban Air and Their Biological Activity.
- 11 US Public Health Service Grant RG 5082 Interim Progress Report, Phenol Study May 1959
- 12 Urban Air Pollution Studies. The Use of Animal Colonies to Determine the Biological Effects of Urban Air Pollution, by Daniel Weiner before he went to Wayne State, February 8, 1958
- 13 Urban Air Pollution Studies. The Use of Animal Colonies to Determine the Biological Effects of Urban Air Pollution Revision of Budgetary Aspects, January 20, 1958
- 14 Urban Air Pollution Studies. The Use of Animal Colonies to Determine the Biological Effects of Urban Air Pollution Proposed Budget, March 18, 1958
- 15 Urban Air Pollution Studies. The Use of Animal Colonies to Determine the Biological Effects of Urban Air Pollution Progress Report/Taft Center Discussion, October 7, 8 1959
- 16 Urban Air Pollution Studies. Effects of Normally Occurring Air Pollution of the Life Characteristics of Laboratory Animals Renewal Application, May 22, 1959
- 17 Urban Air Pollution Studies. Anticipated Expenditures and Allocation of Funds, May 20, 1960



- 18 Urban Air Pollution Studies. Progress Report, June 1960
- 19 Urban Air Pollution Studies. Protocol of Animals for Study and Costs and Expenditures for Equipment and Building Modifications
- 20 Urban Air Pollution Studies. For period September 1, 1960 to June 30, 1961, August 10, 1960
- 21 Urban Air Pollution Studies. Including Exposure of Animals to Ambient Air and Automotive Exhaust Products Budget Analysis December 1, 1960 to June 4, 1961, December 1, 1960
- 22 Urban Air Pollution Studies. Use of Genetically Controlled Animal Colonies to Determine Biological Effects of Urban Air in the Detroit Metro Area, Quarterly Report, April 10, 1960
- 23 US Public Health Service #SAPH 697334 #SAPH 76086. "Biological Toxicity of Inhaled Automotive Exhaust Products." Proposal, Revised Budgetary Analysis
- 24 US Public Health Service #SAPH 697334 #SAPH 76086 March 1960 "Biological Toxicity of Inhaled Automotive Exhaust Products." Proposal
- 25 US Public Health Service #SAPH 697334 #SAPH 76086 December 1, 1960 "Urban Pollution Studies, Including Exposure of Animals to Ambient Air and Automotive Exhaust Products." Budget Analysis
- 26 US Public Health Service Beryllium: "The Pathogenesis of Pulmonary Beryllium." Proposal July 1967-1969
- 27 US Public Health Service #SAPH 697334 #SAPH 76086 1961 Quarterly, Progress and Final Report
- 28 US Public Health Service, Epidemiologic Study – "Cutting Oil Mists:" Roentgenograms (internal correspondence with Wayne State University co-researchers)

**Box 030:** United States Veterans Administration to Wayne State University. Note: Specific ASBESTOS related documents are found in: Box 12 Re: American Brake Shoe Company; Box 19 Re: Johns-Manville Corporation; Box 26 Re: Owens-Illinois Glass Company; and Box 27 Re: Quebec Asbestos Mining Association

- 1 Wayne State University and Detroit Tuberculosis Sanatorium Semiquantitative Spectrographic Analysis of Human Lung Tissue, Progress Report, June 25, 1962
- 2 Veterans Administration Grant November 1, 1954 Cortisone. "The Influence of Cortisone upon Chronic Inflammatory Disease; Study Pertaining to Silicosis in Experimental Guinea Pigs and Albino Rats."

**Box 031:** Collected records of experiments which were conducted by Saranac Laboratory and Wayne State University in support of Research Contracts/Grants (arranged loosely by subject and by Experiment Number. (Note: This file is by all appearances incomplete and was received in this way by the AFIP in 1975). Four Boxes. Box 031 includes Master List of Experiments, Director's File on Experiments, Animal Data Files on Experiments

- 1 Dust Experiments - Index (2 Copies)
- 2 Master List of Experiments
- 2a List of Beryllium Experiments, #714-1229, dated August 17, 1953
- 3 Summary of Experiments
- 4 Experiments of the Saranac Laboratory – Director's Record
- 4a Absorption-Adsorption: A Semi-Decennial Report, by Andrew L. Reeves, December 1958 (Beryllium)
- 5 Animal Data - Various Experiments #SX27-X904
- 6 Animal Data Experiment X-3 Intratracheal Beryllium Oxide
- 7 Animal Data - Experiment #X-8 Intratracheal Beryllium Oxide



- 8 Animal Data - Experiment #X-9 Intratracheal Beryllium Oxide
- 9 Animal Data - Experiment #X-11 Intratracheal Beryllium Oxide
- 10 Animal Data - Experiment #X-12 Intratracheal Beryllium Oxide
- 11 Animal Data - Experiment #X-13 Intratracheal Beryllium Oxide
- 12 Animal Data - Experiment #26 Intratracheal Beryllium Oxide
- 13 Animal Data - X-147 [Intratracheal Pure Graphite]
- 14 Animal Data - X-148 [Intratracheal Injection of Impure Graphite]
- 15 Animal Data - X-149 [Intratracheal Injection - Quartz Crystals]
- 16 Animal Data - X-150 [Intratracheal Injection - AFM Graphite]
- 17 Animal Data - X-151 [Intratracheal Injection - Artificial Graphite]
- 18 Unidentified x-rays, photographs, 35mm slides, notes.

**Box 032:** Experiments Filed Numerically, Numbers 640-1240 (Incomplete)

- 1 Experiment #640 - Experimental Tuberculosis Infection in the Guinea Pig Fetus as Compared with that in the Adult
- 2 Experiment #1055 - Treatment of Silico-Tuberculosis in Guinea Pigs with Streptomycin [ONR]
- 3 Experiment #1082 - Treatment of Tuberculo-Silicosis with Aluminum plus Streptomycin - Transferred to Experiment 1094
- 4 Experiment 1083 - Modified Treatment of Tuberculo-Silicosis with Streptomycin
- 5 Experiment #1094 - Treatment of Tuberculo-Silicosis with Aluminum and Streptomycin (Combined experiments 1082 and 1083)
- 6 Experiment #1111 - Pittsburgh Plate Glass (Hi-Sil) Inhalation
- 7 Experiment #1152 - Intratracheal Beryllium Oxide (Milled) in Rats
- 8 Experiment #1170A - Aluminum Hydroxide (AlOH<sub>3</sub>) Det. in Chamber [Diatomaceous Earth, Johns-Manville Corp.]
- 9 Experiment #1183 - Beryllium Oxide (Ball Milled Inhalation in Rats - Delayed Onset and Various Doses
- 10 Experiment #1184 - Beryllium Oxide Inhalation and Treatment with Cortisone and Colloidal Aluminum Hydroxide in Rats
- 11 Experiment #1186 - Intratracheal Beryllium Sulphate in Rats
- 12 Experiment #1205 - [Beryllium Sulphate Testing in Rats]
- 13 Experiment #1205 - [Beryllium Sulphate Inhalation in Rats] Experimental Epithelial New Growths (adenocarcinoma in the Lungs of Rats Exposed for Prolonged Periods to the Inhalation of Beryllium Sulphate
- 14 Experiment #1215 – Bio-Chemical Studies of Lung Tissue in Rats Exposed to Beryllium Oxide by Inhalation
- 15 Experiment #1220 - Intratracheal Beryllium Oxide in Rats - Long Term
- 15a Experiment #1221 – BCG Vaccination in Guinea Pigs (correspondence only)
- 16 Experiment #1225 - Intraperitoneal Silex - Protein Coated and Uncoated in Guinea Pigs
- 17 Experiment #1226 - Cortisone and BCG, 1953 ONR Task
- 18 Experiment #1228 - Beryllium Oxide Inhalation in Rats
- 19 Experiment #1229 - Intratracheal Beryllium Sulphate in Rats - Long Term - A comparative Study, cf exp. 1220
- 20 Experiment #1240 - Long Term Normal Air Rats Sherman Stock - Males

**Box 033:** Experiment Files, Unnumbered Relating to Silicate/Silica/Lipidol/Aluminum (Also contains small file on KAYLO Data)



- 1 Aluminum Studies Report
- 2 Diatomaceous Earth
- 3 Immunization Phenomena in Silicosis
- 4 Influence of Silica on the Natural and Acquired Resistance in Tuberculosis
- 5 KAYLO Experiments - Saranac Laboratory, 1947-1949
- 6 Piezo-electricity Research [as related to Silicosis]
- 7 [Plates from the American Journal of Pathology, Volumes 4, 5, 11, 12, and 13 Pulmonary Pathology Studies] "Reaction of Pulmonary Tissue to Lipidol"
- 8 Silicosis Complicated by Tuberculosis and Experimental Tuberculosis
- 9 Soluble Silicate Experiments -Intratracheal Injection

**Box 034:** Miscellaneous Experiments on Beryllium; including Pulmonary Cancer (Be), Injection Paper from Experiments

- 1 Abstracts - Beryllium Sulfate Aerosol
- 2 Cancer Paper - Photographs
- 3 Miscellaneous Experiments [Mostly Beryllium and Silicates]
- 4 Pulmonary Cancer - Rat - Beryllium Paper - Various Data
- 5 Wheatena #28 - [X-ray of Diseased Lungs] (Silicosis Collection)

**Box 035:** ACTH and Cortisone: general reprinted materials and original papers relating to ACTH and cortisone treatment for various pulmonary diseases

- 1 ACTH - A-G, Cortisone Reprints [ACTH=Adrenocorticotrophic Hormone]
- 2 ACTH - H-M, Cortisone Reprints
- 3 ACTH - Merck, Cortisone Reprints
- 4 ACTH - M-R, Cortisone Reprints
- 5 ACTH - S-Z, Cortisone Reprints

**Box 036:** Air pollution: General reprinted materials and original papers relating to the subject of air pollution and its effects on the human respiratory system

- 1 Airborne Pollutions - General Reprints
- 2 Airborne Pollutions - General Reprints
- 3 Airborne Pollutions - General Reprints
- 4 Airborne Pollutions - General Conference Documents
- 5 Airborne Pollutions - General Reprints
- 6 Airborne Pollutions - General Reprints
- 7 Airborne Pollutions - General Reprints

**Box 037:** Air pollution; Donora, PA incident: Original papers relating to the Saranac Laboratory Study of the Donora air pollution disaster October 30-31, 1948

- 1-5 Airborne Pollutions - Donora



**Box 038:** Aluminum treatment for silicosis: General Reprints and Original Papers which relate to Experimental and Clinical use of Aluminum Powder to Treat Silicosis, 1941-1948

- 1 Aluminum - Notes
- 2 Aluminum - Reprints: A-E [Includes Aluminum Book Index]
- 3 Aluminum - Reprints: F-G
- 4 Aluminum - Reprints: H-M
- 5 Aluminum - Reprints: N-W

**Box 039:** Asbestos: General Reprints and Original Papers (Drafts) relating to Research on Asbestos (Experimental/Clinical) (arranged alphabetically by author in two Boxes)

- A) Bibliography of asbestosis reprints (typed and handwritten list)
- 1 Cooke/Hill. "Further Observations on Pulmonary Asbestosis, with Special Reference to Asbestos Dust and The Curious Bodies Found in The Lungs," 1930
  - 2 Draft Copy Report of the PHS. "Environmental and Medical In-House Occupational Health Study of the Asbestos Products Industry," 1963
  - 3 Reference Sheet - Misc. for an article from which a Saranac Case was culled Med. Bull of VA, October, 1933
  - 4 Industrial Hygiene Foundation Proceedings of 8<sup>th</sup> Annual Meeting, 1943
  - 5 "Asbestosis and Asbestos Dust." American College of Chest Physicians Study, 1962
  - 6 Baader/Bauer. (German) Asbestosis, 1937
  - 7 Behrens. "Uber Experimentelle Asbestosis" (German), 1951
  - 8 Beger. "Uber den Schadiguhgsfaktor bei Asbestosis und Silicosis" (German), 1934
  - 9 Beger. "Neve Beobachtungen an Asbestosiskorperchen" (German), 1935
  - 10 Cartier, Paul. "Contribution a L'etude de L'amiantose," 1949
  - 11 Kuhn. "Electron Microscopy in Asbestosis," 1942
  - 12 US Dept. of Interior Bulletin 400. "Review of Literature on Effects of Breathing Dusts with Special Reference to Silicosis," 1937
  - 13 Bader/Selikoff . "Pulmonary Function in Asbestosis of the Lung," 1961
  - 14 M.S. Badollet and William A. Gantt. "Preparation of Asbestos Fibers for Experimental Use" NYAS, 1965
  - 15 Cartier, Paul. Abstract-Asbestosis (original), 1958
  - 16 Crossey. "Wartime Operations Emphasize Industrial Hygiene Problems of Asbestos Industry," 1943
  - 17 Public Health Service Report. "The Size Distribution of Industrial Dusts," JJ Bloomfield Supplement #115, 1935
  - 18 Chamdiex. "Le Diagnostic de L'Asbestose" (French), 1950
  - 19 Crable. "Quantitative Determination of Crystile, Amosite and Crocidolite by X-ray Diffraction," 1966
  - 20 Cralley. "Occupational Health Study of the Asbestos Products Industry in the US," 1964
  - 21 Egbert. "Pulmonary Asbestosis: Report of a Case with Necropsy Findings," 1935
  - 22 US Dept. of Labor . "Occupational Hazards and Diagnostic Signs," Dublin/Vane Bull. #41, 1941
  - 23 Donnelly, J. "Pulmonary Asbestosis: Incidence and Prognosis," 1936
  - 24 Donnelly, J. "Pulmonary Asbestosis," 1933
  - 25 Cralley. "Research on Health Effects of Asbestos," 1967
  - 26 Harrington, JS. "Occurrence of Oils Containing 3:4 - Benpyrene [benzpyrene?] and Related





- Substances in Asbestos," 1962
- 27 Public Health Service Study, 1938. Dreessen Report (PHB #241)
- 28 Holt/Young. "The Mechanism of Production of Asbestos Bodies from Anthophyllite Fibers," 1967
- 29 Kleinfeld, Messite, et al. "Effect of Asbestos Dust Inhaled on Lung Function," 1966
- 30 Lanza, Anthony J. "Comments on Asbestos." Underwriters Meeting, 1933
- 31 Lanza, Anthony J. Unpublished Report. "Effects of the Inhalation of Asbestos Dust on the Lungs of Asbestos Workers," 1932
- 32 Kuhn, Joachin. "Übermikroskopische Untersuchungen an Asbestaub und Asbestlungen" (German), 1940
- 33 PHS Report No. 1665 Lanza and Fehnel Study. "Effects of The Inhalation of Asbestos Dust on The Lungs of Asbestos Workers," 1935 9/20/2000: ARTICLE MISSING - MR.

**Box 040:** Asbestos: General Reprints and Original Papers (Drafts) relating to Research on Asbestos (Experimental/Clinical) (arranged alphabetically by author in two Boxes)

- 1 Merewether, E.R.A. "French Chalk." Copy of Report
- 2 Miller/Sayers. "The Physiological Response to Peritoneal Tissue to Certain Industrial and Pure Mineral Dusts," 1937 (PH Reprint #1787)
- 3 Morgan. "Investigation into the Use of Radioactive Asbestos in Studying the Translocation of Fibers Injected Intrapleurally into Rats," 1967
- 4 Noro, Leo. "On the Histology of Asbestosis," 1945
- 5 Rombola. "Asbestosis in Italy," 1957
- 6 Szymczykiwicz, E. Wieck. "Effect of Fibrous and Amorphous on the Collagen Content in the Lungs of Guinea Pigs - Preliminary from Poland," 1960
- 7 Wagner, JC. "Asbestosis in Experimental Animals," BJIM, 1963
- 8 Sayers. "Silicosis," 1935 PHS Reprint #1626
- 9 Selikoff/Churg/Hammond. "The Occurrence of Asbestosis among Insulation Workers in the US," 1965
- 10 McPheeters, SB. "A Survey of a Group of Employees Exposed to Asbestos Dust," 1963
- 11 Mills, Ralph. "Pulmonary Asbestosis: Report of A Case," 1930
- 12 Review of Bull. Hygiene. Wyers, H. Asbestosis Abstracted Industrial Hygiene Dig. September, 1950
- 13 Wood/Gloyne. "Pulmonary Asbestosis: A Review of 100 Cases," 1934
- 14 Wood, Burton. "Pneumoconiosis: Part II - Pulmonary Asbestosis," 1934
- 16 Wegelius. "Asbestosis: Changes in the Lungs in 126 Cases of Asbestosis Observed in Finland," 1947
- 17 Vestal. "A Brief Summary of Asbestosis in N. Carolina," 1945
- 18 Stewart/Bucher/Coleman. "Asbestosis: Report of Two Cases," 1931
- 19 Sparks. "Some Further Observations on Pulmonary Asbestosis," 1931
- 20 Sparks. "Pulmonary Asbestosis," 1931
- 21 Soper, Willard B. "Pulmonary Asbestosis: A Report of a Case and a Review," 1930
- 22 Sayers/Dreessen. "Asbestosis," 1938. Published Dreessen Report for PHS
- 23 Rousseau/Giroux. "Amintose Incipiente Chez Des Tuberculeux Pulmonaires," 1943
- 24 Page. "A Study of the Sputum in Pulmonary Asbestosis," 1935
- 25 Congres International sur L'Asbestoe / International Congress on Asbestos, "Rapports et discussions," Caen, France 1964

**Box 041:** Asbestos: General Reprints, Original Research, and Government Reports relating to



Pulmonary Response to Asbestos Dust, Air Sampling Techniques for Asbestos, and Animal Dusting Methodologies. Contains audiotape of Vorwald at Quebec Asbestos Conference, March 1964.

- 1 Pulmonary Response. "The Pulmonary Response to Certain Chronic Irritants," Paul Gross/Westrick. September, 1959
- 2 Animal Dusting Methodology. Princi/Church/McGilvray. Second Session Notes. "An Improved Animal Dusting Apparatus," 1959
- 4 Silverman, Leslie. Industrial Hygiene Foundation Bull. 1 "Industrial Air Sampling & Analysis," 1947
- 5 PHS Bulletin #144. "Comparative Tests for Instruments for Determining Atmospheric Dusts," January, 1925
- 6 "Measurement of Dust Exposures in the Asbestos Textile Industry," Lynch, Jeremiah/ H. Ager, 1966
- 7 Commonwealth of Pennsylvania, Special Bulletin #37, Campbell, John. "Asbestos: Part I; The Collection and Counting of Dusts Encountered in Asbestos Fabricating Plants," October, 1934
- 8 "A Critical Review of Dust Sampling Methods Employed in Witwatersrand Gold Mines," Lambrechts, 1940
- 9 "Air Sampling of Asbestos Dust: Comparison of Impinger & Electrostatic Precipitator Methods," William Fehnel, 1939
- 10 Commonwealth of Pennsylvania, Special Bulletin #37, Campbell, John. "Asbestos: Part II; The Nature of the Dust; and Part III: The Effect of the Dust on Workers," September, 1935.
- 11 Lynch/Ayer/Fanney N.Y. ACAD. SC 1965. "A Comparison of Impinger and Membrane Filter Techniques for Air Sample Evaluation in Asbestos Plants."
- 12 Department of Interior Report. "Report of Investigations: Bureau of Mines Midget Impinger for Dust Sampling," R.I. 3360. December, 1937
- 13 Department of Interior Report. "Report of Investigations: Microprojection Method for Counting Impinger Dust Samples," R.I. 3373. January, 1938
- 14 Department of Interior Report. "Midget Microprojector for Dust Determinations," R.I. 3780. September, 1944
- 15 Department of Interior Report. "Filter Method for Obtaining Dust-Concentration Results Comparable to Impinger Results," R.I. 3788. December, 1944
- 16 Department of Interior Report. "Size of Smallest Dust Particles Revealed By Various Microscopic Systems," R.I. 3821. August, 1945.
- 17 "A Method of Counting Samples Taken with The Impinger," Charles Williams, June, 1939
- 18 "Dust Determinations," E.C. Barnes. 1936
- 19 "Industrial Tuberculosis and The Control of The Factory Dust Problem," Winslow/Greensberg, 1921
- 20 "Suggestions for the Control of Silicosis in Mining," Donald Cummings, 1938

**Box 042:** Asbestos: General reprints and government reports relating to Silicosis/Pneumoconiosis with mention of Asbestos research (arranged alphabetically by subject then author in chronological order in two Boxes). Box 1 of 2



- 1 International Labour Office, "Pneumoconiosis: A List of References," Geneva, 1932  
Subject: Industrial Dust
- 2 (Author not noted) "Revision of NSC Health Practices Pamphlet No. 4," January 1961  
Subject: Industrial Health
- 3 Hayhurst, Emery R. "Some Common Industrial Health Hazards," 1929
- 4 Hayhurst, Emery R. "Industry as a Source of Disease," 1937
- 5 Hayhurst, Emery R. "Occupational Diseases," 1938  
Subject: Occupational Health
- 6 Symposia during World War II, "Industrial Health in War Time."  
Subject: Pneumoconiosis
- 7 Chapman, Earle M. "Acute Silicosis," 1932
- 8 Drinker, Philip. "The Causation of Pneumoconiosis," 1936
- 9 Gross, Paul, M.D. "The Mechanism of Dust Clearance from the Lung, a Theory," 1953
- 9a Hamlin, L. E., M.D. "The Pneumoconiosis, Which Industrial Dusts are Inert? Which are Harmful?  
Why?" 1949
- 10 Hatch, Theodore. "Respiratory Dust Retention and Elimination," 1959
- 11 Heffernan, P., M.D. "What is Silicosis?" 1935
- 12 Heffernan, P., M.D. "Industrialism and Tuberculosis," 1936
- 13 Hoffman, Frederick L. "Preliminary Report of Committee on Mortality from Tuberculosis in Dusty  
Trades," U.S. Department of Labor, Working Conditions Service, 1919 (noted on cover to file  
under Hoffman, Frederick L.) [2 copies]
- 14 Hounam, R.F. "Some Colloidal Properties of Inert Dusts," 1950
- 15 Hunt, Robert B., M.D. "Pneumoconiosis" Twenty-second Annual Convention of the International  
Association of Industrial Accident Boards and Commissions, 1935
- 16 Hyde, Leroy. "Diffuse Pulmonary Fibrosis," 1959
- 17 Kaump, Donald H., M.D. "Pulmonary Arteriolar Sclerosis, a Clinicopathologic Study," 1938
- 18 Kehoe, Robert A., Cholak, and Robert V. Story. "A Spectrochemical Study of the Normal Ranges  
of Concentration of Certain Trace Metals in Biological Materials," 1940
- 19 Kettle, E.H. "The Interstitial Reactions Caused by Various Dusts and their Influence on  
Tuberculous Infections," 1932
- 20 Landahl, H.D., and R.G. Herrmann. "On the Retention of Air-borne Particulates in the Human  
Lung," 1948
- 21 Landahl, H.D. et al. "On the Retention of Airborne Particulates in the Human Lung: II," 1951
- 22 MacDonald, G. "Two Cases of Acute Silicosis with a Suggested Theory of Causation," 1930
- 23 McIntyre Research Foundation. "Silicosis: What It Is and How It Can be Prevented," 1959
- 24 Metropolitan Life Insurance Company Pamphlet, "Silicosis."
- 25 Mitchell, Roger S., M.D. "Diffuse Pulmonary Emphysema and Occupation," 1962
- 26 New York State Department of Labor, Hamilton, James A., Industrial Commissioner.  
"Pneumoconiosis-Three Cases: Two of Silicosis, and One of Anthracosis with Tuberculosis  
Superinduced. Complete Histories with Temperature Charts, X-ray Pictures and Colored  
Plates of Lungs," 1925
- 27 New York State Department of Labor, Andrews, Elmer F., Industrial Commissioner. "Silicosis and  
its Prevention," 1938
- 28 Pierson, P.H., M.D. "Silicosis, its Medical, Industrial, and Legal Aspects," 1935
- 29 Sampson, Homer L. "The Roentgenogram in So-called 'Acute' Silicosis," 1933
- 30 Sander, O.A., M.D. "The Pneumoconiosis," 1946
- 31 Scott, Orlando, M.D. "Rx for Pneumoconiosis, in which the doctor also prescribes treatment for



- definite recovery from a malignant institutional malady," no date
- 32 Stewart, M.J. "Silica in Relation to Pulmonary Disease," 1934
- 33 Sutherland, Charles L. "Pneumoconiosis, its Effects and Complications," 1959
- 34 Turner, H. Midgely, M.D. "Tuberculosis in Relation to the Pneumokonioses," 1936
- 35 Vrooman, C.H., M.D. "Silicosis and its Incidence in British Columbia," no date, circa 1930s
- 36 Warren, Stafford L., M.D. "Occupational Health Problems in an Industrial Society," 1955
- 37 Yegge, W. Bernard, M.D. "Diagnostic Problem of Silicosis," no date  
Subject: Pneumoconiosis with reference to Asbestosis or Silicosis
- 38 Air Hygiene Foundation of America, Inc., Medical Series Bulletin No. 1, "Silicosis and Allied Disorders, History and Industrial Importance," 1937
- 39 Bloomfield, J.J. "Studies of Health Hazards in Industry," 1951
- 40 Britton, James A., M.D. "Pneumoconiosis, the Delayed Development of Symptoms," 1931
- 41 Brown, J.H., Cook, K.M., Ney, F.G., and Hatch, Theodore. "Influence of Particle Size upon the Retention of Particulate Matter in the Human Lung," 1950; also, International Labor Organisation, Third International Conference of Experts on Pneumoconiosis, Sydney, Australia, 1950: "Analytical Requirements for Appraisal of Dust Exposure," by Dr. Theodore F. Hatch
- 42 Brumfiel, D.M., M.D. "Pneumoconiosis," 1940
- 43 Clark, W. Irving. "Clinical Aspects, Diagnosis and Treatment of Pneumoconiosis," 1936
- 44 Cooke, W.E., M.D. "Modern Views on Silicosis," 1935
- 45 Heffernan, Patrick, M.D. "Dust Disease in Industry," 1943
- 46 Industrial Labor Office Yearbook. "Silicosis," 1934-1935
- 47 Jaffe, R.H., M.D. "The Pathology of Pneumoconiosis," 1934
- 48 Jones, William R., D. Sc. "Silicotic Lungs: The Minerals They Contain," 1933
- 49 Jones, Dr. William R. "Silicosis," 1934

**Box 043:** Asbestos: General Reprints and Government Reports relating to Silicosis/Pneumoconiosis with mention of Asbestos research (Box arranged by author in chronological order). Box 2 of 2 Subject: Pneumoconiosis with reference to Asbestosis or Silicosis

- 1 Kettle, E.H., M.D. "Observations on the Pneumoconiosis," 1932
- 2 Lang, Von Fritz. "Die Staublungen in der Schweiz," (German), 1951
- 3 Lang, Von Fritz. "Akute Mineursilikosen nach einem Stollenbau," (German), 1949
- 4 Lang, Von Fritz. "Die Streptomycinbehandlung bei Silikotuberkulosen," (German), 1951
- 5 Lanza, A.J. "Etiology of Silicosis," 1933
- 6 Lanza, A.J. "The Prevalence of Silicosis in the General Population and Its Effects upon the Incidence of Tuberculosis," 1934
- 7 Lanza, A.J., M.D. "Silicosis from the Public Health and Economic Viewpoint," 1936
- 8 Lanza, A.J., M.D. "Clinical Features and Industrial Significance of Silicosis," 1936
- 9 Lanza, A.J., M.D. "Clinical Aspects of Silicosis," 1938
- 10 Lanza, A.J., M.D. "The Present Status of Silicosis," 1939
- 11 Lanza, A.J., M.D. "Industrial Dusts and the Mortality from Pulmonary Disease," 1939
- 12 Lanza, A.J., M.D. "Recent Developments in Pneumoconiosis," 1945
- 13 Matz, Philip, M.D. "Pathology of the Lungs and Other Organs in Silicosis," 1937
- 14 Matz, Philip, M.D. "Roentgenologic Classification and Diagnosis of Silicosis," 1938
- 15 Matz, Philip, M.D. "A Study of Silicosis," 1938
- 16 Merewether, E.R.A. "The Pneumokonioses [sic]: Developments, Doubts, Difficulties," 1950
- 17 Middleton, E.L., M.D. "Industrial Pulmonary Disease Due to the Inhalation of Dust, with Special



- Reference to Silicosis," 1936
- 18 Middleton, E.L., M.D. "Silicosis and Other Pneumoconioses," 1950
  - 19 Miller, John W. "The Response of Peritoneal Tissue to Industrial Dusts," 1941
  - 20 Pancoast, H.K., M.D. "A Review of Pneumoconiosis: Further Roentgenological and Pathological Studies," 1931
  - 21 Pancoast, Henry K, M.D. "Pneumoconiosis: the Importance of Accuracy in Roentgenological Interpretation," 1933
  - 22 Pancoast, Henry K, M.D. "Roentgenologic Aspect of Pneumoconiosis and its Differential Diagnosis," 1933
  - 23 Sappington, C.O., M.D. "Silicosis and Other Dust Diseases," 1932
  - 24 Sappington, C.O., M.D. "Silicosis, an Interpretive Review of Accumulated Experience," 1932, revised 1934 [2 copies]
  - 25 Sweany, Henry C. "Borderline Silicosis," 1936
  - 26 Willis, Henry Stuart. "Pneumoconiosis and Tuberculosis," 1930

**Box 044:** Asbestos/cancer: Government and Conference/Symposia Synopses which generically consider the subject of Asbestos Carcinogenicity (unarranged)

- 1 Asbestos Cancer Conferences
- 2 Asbestos Cancer
- 3 Asbestos Cancer Studies
- 4 Hartwell, Jonathan L. Book: Survey of Compounds which have been Tested for Carcinogenic Activity, 1951.
- 5 Book: Symposium on the Endemiology of Cancer of the Lung. 1953.
- 6 Book: Proceedings of the National Cancer Conference. 1949.

**Box 045:** Asbestos/cancer: General Reprints and Original Research Papers relating to Experimental and Clinical research on Asbestos Carcinogenicity (arranged alphabetically by author; chronologically within author in two Boxes)

- 1 Asbestos File "B." Carcinoma of the Lung.
- 2 Asbestos/Cancer. Bogardus, George, Knudtson, Mills. "Pleural Mesothelioma: Report of Four Cases," 1955.
- 3 Asbestos File. Carcinoma of the Lungs. Braun/Traun. "Braun/Traun Report, 1958."
- 4 Asbestos File. Carcinoma of the Lung. Braun/Traun Article: "An Epidemiological Study of Lung Cancer in Asbestos Miners." A.M.A Archives of Industrial Health. June, 1958. Vol. 17.
- 5 Asbestos File. RJ Cureton. Carcinoma of the Lung. "Squamous cell carcinoma occurring in Asbestosis of the Lung," 1948.
- 6 Asbestos File. Carcinoma of the Lungs. Braun, David. Paper read before: "Symposium on Cardio-respiratory Disease in Industry." June 16-17-18, 1958.
- 7 Asbestos File. Carcinoma of the Lung. Richard Doll, "A Study of the Aetiology of Carcinoma of the Lung," 1952.
- 8 Asbestos File. Carcinoma of the Lungs. Doll, Richard. "Mortality from Lung Cancer in Asbestos Workers," 1955.
- 9 Asbestos File. Carcinoma of the Lung. Egbert/Geiger, "Pulmonary Asbestos and Carcinoma," 1936.
- 10 Asbestos File. Carcinoma of the Lung. Enrenhaft/Sensin. Lawrence, "Mesotheliomas of the



- Pleura," 1960.
- 11 Asbestos Files. Carcinoma of the Lung. Frissell/Knox, "Primary Carcinoma of the Lung," 1937.
  - 12 Asbestos/Cancer. Forse, Max, and Walter Haug, "Diffuse Malignant Mesothelioma of the Pleura," 1958.
  - 13 Asbestos/Cancer. Gloyna, Roodhouse, "Two Cases of Squamous Cell Carcinoma of the Lung Occuring in Asbestosis," 1935.
  - 14 Asbestos File. Carcinoma of the Lung. Gloyne, Roodhouse, "A case of Oat Cell Carcinoma of the Lung occurring in Asbestosis," 1936.
  - 15 Asbestos File. Carcinoma of the Lung. "H."
  - 16 Asbestos File. Carcinoma of the Lung. Holleb/Angrist, "Bronchiogenic carcinoma in Association with Pulmonary Asbestosis: Report of Two Cases," 1942.
  - 17 Asbestos File. Carcinoma of the Lung. F. Homburger, "The Co-incidence of Primary carcinoma of the Lungs and Pulmonary Asbestosis," 1943.
  - 18 Asbestos File. Carcinoma of the Lung. Hueper, Wilhelm.
  - 19 Asbestos File. Carcinoma of the Lung. Hueper, Wilhelm, 1949 JAMA Editorial.
  - 20 Hueper, W.C. "Occupational and Environmental Pulmonary Cancer with Special Reference to Pneumoconiosis," (1952). 7<sup>th</sup> Saranac Symposium.
  - 21 Asbestos/Cancer. Hueper, W.C. "Carcinogenic Studies on Water-Insoluble Polymers," 1961.
  - 22 Asbestos/Cancer. Hueper, W.C. "Environmental Carcinogens in Man," 1963.

**Box 46:** Asbestos/cancer: General Reprints and Original Research Papers relating to Experimental and Clinical research on Asbestos Carcinogenicity (arranged alphabetically by author; chronologically within author in two Boxes)

- 1 Asbestos File. Carcinoma of the Lung. Kennaway/Kennaway, "Further Study of the Incidence of Cancer of the Lung and Larynx," 1947.
- 2 Asbestos File. Carcinoma of the Lung. Max O. Klotz, "The Association of Silicosis and Carcinoma of the Lung," 1939.
- 3 Asbestos/Cancer. Lynch, Kenneth, and Atmar Smith, "Pulmonary Asbestosis III: Carcinoma of the Lung in Asbestosilicosis," 1935.
- 4 Asbestos File. Carcinoma of the Lung. Lynch, Kenneth W. Smith, "Pulmonary Asbestosis III: Carcinoma of Lung in Asbesto-Silicosis," 1935.
- 5 Asbestos File. Carcinoma of the Lung. Lynch, Kenneth W. Smith, "Pulmonary Asbestosis V: A Report of Bronchial Carcinoma and Epithelial Metaplasia," 1939.
- 6 Asbestos File. Carcinoma of the Lung. "M."
- 7 Asbestos Files. Carcinoma of the Lung. Machle, Willard, "Environmental and Occupational Lung Cancer," no date.
- 8 Asbestos Files. Carcinoma of the Lung. Mayers, May, "Occupational Causes of Cancer," 1950. New York State Department of Labor Monthly Review.
- 9 Asbestos File. Carcinoma of the Lung. "S."
- 10 Asbestosis/Cancer. Saffioti, Umberto, Borg, Grote, et al., "Retention Rates of Particulate Carcinogens in the Lungs," 1964.
- 11 Asbestos File. Carcinoma of the Lung. Salikoff, I. Churg/Hammond, "Asbestos Exposure and Neoplasia," 1964.
- 12 Asbestos File. Carcinoma of the Lung. Salikoff, I./Churg/Hammond, "Relation between Exposure to Asbestos and Mesothelioma," 1965.
- 13 Asbestos File. Carcinoma of the Lung. Salikoff/Churg/Hammond, "Mesothelioma in Relation to Asbestos in the United States," 1964.



- 14 Asbestos File. Carcinoma of the Lung. William Smith.
- 15 Asbestos File. Carcinoma of the Lung. "W."
- 16 Asbestos File. Carcinoma of the Lung. Wagner/Sleggs/Marchand, "Diffuse Pleural Mesothelioma and Asbestos Exposure in the North Western Cape Province," 1960.

**Box 047:** Asbestos/symposia: Collected Proceedings and notes of some lesser known Symposia whose topics contain references to Asbestos-Related Disease. MEDICAL SOCIETY ROSTERS: Collected Rosters of Medical/Industrial Hygiene Societies listing all members for select years (arranged alphabetically). Note - Material DOES NOT contain the Proceedings of the Saranac Silicosis Symposia OR the McIntyre Conference Proceedings on Silicosis (see Boxes 88, 89, 90, 91, 92).

- 1 Medical Societies. Industrial Medical Association. Roster of Members. July 1, 1957.
- 2 Medical Societies. The Association of Medical Jurisprudence. Member Roster, 1959.
- 3 Symposia. Badham, Charles. "Proceedings of the International Silicosis Conference Held at Johannesburg, August 1930," 1931.
- 4 Symposia on Asbestosis. Discussion at Joint Meeting of the Defractories Association of Great Britain, 1934.
- 5 Symposia. "Summaries of Papers Read at the National Silicosis Conference," February, 1937. U.S. Department of Labor Bulletin No. 13.
- 6 Proceeding of Dust-Related Meetings/Societies. Smith, Gordon C. "Occupational Factors in Pulmonary Dust Disease," 1950.
- 7 Proceedings of Dust-Related Meetings/Societies. Kettle, E.H. "The Relation of Dust to Infection," 1930.
- 8 Notes prepared by Dr. Vorwald for the 1967 asbestos meeting in Antigua. Includes correspondence with Marvin Kuschner. [Second Antigua Conference on the Biological Effects of Asbestos, by Quebec Mining Association, Antigua, 20-23 November, 1967?]
- 9 Symposium. "Status of the Pneumoconiosis Pathology," meeting of Occupational Health Section, 85<sup>th</sup> Annual Meeting, American Public Health Association, Cleveland, Ohio, November 11-15, 1957.
- 10 Meeting. Minutes of Meeting of Advisory Committee on Rock Drilling, Sand Blasting, and Rock Crushing, held July 29, 1931 (Silicosis Hazard).

**Box 048:** Asbestosis/silicosis: Collected Reprints, Reports, and Studies relating to Industrial Hygiene/Sanitation Research, Surveying, and Disease Prevention Techniques for Industry (arranged topically in chronological order)

- 1 Industrial Hygiene/Sanitation. Comm. of Pennsylvania Safe Practice Bull. #20. "Safe Practice in Asbestos Manufacture," 1939.
- 2 Industrial Hygiene/Sanitation. U.S. Treasury Office PHS #1883. Page, Richard T. and J.J. Bloomfield. "A Study of Methods in an Asbestos Fabricating Plant," 1938.
- 3 Government Reports. Hygiene/Sanitation. P.H.S. Bulletin No. 217. "The Determination and Control of Industrial Dust," 1935.
- 4 Industrial Hygiene/Sanitation. "The Proceedings of the Committee on the Prevention of Silicosis through Medical Control," 1936.
- 5 Industrial Hygiene/Sanitation. Bloomfield, J.J. PHS Report No. 1749. "Engineering Control of Occupational Diseases," 1936.
- 6 Industrial Hygiene/Sanitation. Bloomfield, J.J. "Methods Employed in the Appraisal and Control



- of Industrial Health Hazards," 1942.
- 7 Industrial Hygiene/Sanitation. Bloomfield, J.J. "The Study of the Workroom Environment," 1950.
- 8 Industrial Hygiene/Sanitation. Cummings, Donald. "Good Practice in Combating Dust Hazard Associated with Mining Operations." 638 AIMME Tech. Bull.
- 9 Industrial Hygiene/Sanitation. AJ Lanza/Joseph White. "How a Miner Can Avoid Some Dangerous Diseases," Miners' Circular 20 D.O.I. 1916.
- 10 Industrial Hygiene/Sanitation. McLord, Carey P. "The Industrial Hygiene Survey," 1935.
- 11 Industrial Hygiene/Sanitation. Van Sichen, M. "Health Hazard from Dust in the Mines and Allied Industries of the US-Init Survey of the Extent and Severity," 1933.
- 12 Industrial Hygiene/Sanitation. Waters, Theodore. "The Role of Codes in the Prevention of Industrial Health Hazards," 1948.

**Box 49:** Asbestosis/silicosis: Collected Reprints, Reports, and Government Bulletins relating to the Evaluation of Disability and Compensation for Asbestos and Silica Related Disease (arranged alphabetically by author)

- 1 Disability Evaluation/Compensation. Department of Public Health, State of California. Occupational Health Bulletin No. 138/1939. "Facts about Silicosis."
- 2 Disability Evaluation/Compensation. Industrial Hygiene Foundation Legal Committee. Waters, Theodore C. "Legislative Developments in Workmen's Compensation during 1949," 1949.
- 3 Disability Evaluation/Compensation. Wrabetz, V. "The Employability of the Silicotic," no date.
- 4 Disability Evaluation/Compensation. Wright, George W. "Disability Evaluation in Industrial Pulmonary Disease," JAMA, December 1949.
- 5 Disability Evaluation/Compensation. Wright, George W. "Industrial Pulmonary Disease and the Capacity for Work," Occupational Medicine, 1947.
- 6 Disability Evaluation/Compensation. Industrial Hygiene Foundation. Wright, George W. "Medical Aspects of Compensation of Partial Disability from Silicosis," 1944.
- 7 Disability Evaluation/Compensation. Industrial Hygiene Foundation Legal Committee. Waters, Theodore C. "Summary of Legal Conference," November 17, 1948.
- 8 Disability Evaluation/Compensation. Vorwald, Arthur J. "The Relation of Silicosis to Disability."
- 9 Disability Evaluation/Compensation. Report: Committee on Pneumoconioses of the American Public Health Association. "Workmen's Compensation for Silicosis," Lanza, Sayers, Smith. October 1933.
- 10 Disability Evaluation/Compensation. McLann, William S. "Estimation of Disability in Pneumoconiosis." Subcommittee on the Basis for Establishing Disability, 1937.
- 11 Disability Evaluation/Compensation. Pancoast, Henry K., and Eugene Pendergrass, "The Roentgenological Aspects of Pneumoconiosis and its Medico-Legal Importance." The Foundation of Industrial Hygiene, May 1933.
- 12 Disability Evaluation/Compensation. Sappington, C.O. "Medicolegal Trends in Occupational Diseases: A Statistical and Legal Analysis of Medicolegal Experience," 1937.
- 13 Disability Evaluation/Compensation. Sayer, Henry D., "A Review of Medical Practice under the Workmen's Compensation Law," April 1941.
- 14 Disability Evaluation/Compensation. St. Clair, Ashley, "Has Occupational Disease Legislation Kept Pace with the Exposures of Present Day Industrial Processes?" 1949.
- 15 Disability Evaluation/Compensation. Bavard, Paul, "Correlation of Disability with Roentgen and Clinical Findings in Silicosis: Part 1," 1942.
- 16 Disability Evaluation/Compensation. "Silicosis and Occupational Disease Legislation." Symposium, Steel Founders Society, 1935.





17 Disability Evaluation/Compensation. American Public Health Association Yearbook, "Standard Practice for Compensation in Occupational Diseases," 1933.

**Box 050:** Asbestos Strike (Thetford Mines, Quebec)/Asbestos trade literature/Owens Corning Fibre Glas [fiberglass] Trade literature: Collected Reprints, Newspaper Articles, and Original Papers relating to the 1949 Workers' Strike of the Asbestos Mines of the Thetford Mines Region of Quebec, Canada; Collected Industry Literature on Asbestos/Asbestos Products; and Collected Industry Literature on Owens Corning Fibre Glas (arranged topically in three files)

- 1 Asbestos Trade Literature. Literature on the Production and Grading of Asbestos.
- 2 Asbestos Strike. Newspaper/Company Literature on the 1949 Asbestos Workers Strike at Thetford Mines and Asbestos, Quebec.
- 3 Owens-Corning Fibre Glas Trade Literature.

**Box 051:** Asbestos/threshold limit values: Reprints, Government Bulletins, and State Data Sheets relating to the setting of a Threshold Limit Value for exposure to Asbestos and other Pneumoconiosis causing Materials (arranged alphabetically by author/chronological by topic for Government Bulletins).

- 1 Threshold Limit Values. The Acme Company, "Acme Protection Guide for Hazardous Gases," 1954.
- 2 Threshold Limit Values. American Conference of Governmental Industrial Hygienists, "Threshold Limit Values for 1955." June 1955, AMA Archives.
- 3 Threshold Limit Values. Hatch, Theodore. "Permissible Dustiness," March 1955.
- 4 Threshold Limit Values. Massachusetts Department of Labor and Industries, "The Law Relative to Reports by Physicians of Cases of Occupational Diseases." Chapter 149 GL, 1949.
- 5 Threshold Limit Values. Massachusetts Department of Labor and Industries. Massachusetts Safety Conference, May 1935. "Section on Occupational Disease," 1935.
- 6 Threshold Limit Values. The New York Academy of Sciences, "Statistical Tables - Asbestos." August 28, 1964. Conference on Biological Effects of Asbestos.
- 7 Threshold Limit Values. Silson, John E. "The Significance of Maximum Allowable Concentrations." New York Department of Labor Monthly Review, February 1949.
- 8 Threshold Limit Values. Smyth, Henry Field, "Improved Communication - Hygienic Standard for Daily Inhalation." June 1956.
- 9 Threshold Limit Values. U.S. Government Printing Office Chart, "Method of Silicosis Coverage," 1937.
- 10 Threshold Limit Values. Industrial Hygiene Foundation. Yant. W.P. "Industrial Hygiene Codes and Regulations." November 1948.

**Box 052:** Asbestos/miscellaneous: Collected Miscellaneous Documents including Manuscripts of Reports/Papers by Dr. Vorwald which discuss the topic of Asbestos-Related Disease and other Miscellaneous Materials which discuss, in part, Asbestos-Related Disease.

- 1 Asbestos/Miscellaneous. Pneumoconiosis Bibliography. Saranac Laboratory Studies.
- 2 Asbestos/Miscellaneous. Sander, G.A. "The Benign Pneumoconioses," 1956.
- 3 Asbestos/Miscellaneous. Vorwald, Arthur J. "Disabling Pneumoconiosis." May 23, 1956.
- 4 Asbestos/Miscellaneous. Vorwald, Arthur J. Syllabus of refresher course at Texas Medical



- Association, April 1966.
- 5 Asbestos/Miscellaneous. "Inhaled Air Pollutants and Respiratory Disorders." "H."
  - 6 Asbestos/Miscellaneous. "N."
  - 7 Asbestos/Miscellaneous. Vorwald, Arthur J. "Dust and Pulmonary Disease with Special Reference to Silica Dust," 1938. Several drafts.
  - 8 Asbestos/Miscellaneous. Presentation on lung cancer with slides. No date.
  - 9 Asbestos/Miscellaneous. Presentations given at Wayne State University, 1966.
  - 10 Asbestos/Miscellaneous. Presentation given by Arthur J. Vorwald to Drs. Grant and Gagnon. No date.
  - 11 Asbestos/Miscellaneous. "Pathologic Considerations." No date.
  - 12 Asbestos/Miscellaneous. Vorwald, A.J. "The Pathogenesis and Management of Pneumoconiosis." April 12, 1955.
  - 13 Asbestos/Miscellaneous. "The Pneumoconioses: Diagnosis, Evaluation, and Management." A Statement Developed by the Committee on the Pneumoconioses of the Council on Occupational Health. November 14, 1960.
  - 14 Asbestos/Miscellaneous. Lester D. Scheel, E. Fleisher, F.W. Klemperer. "The Toxicity of Silica: I Silica Solutions," September 8, 1953.
  - 15 Asbestos/Miscellaneous. Lung cancer statistics. no date.
  - 16 Asbestos/Miscellaneous. Vorwald, Arthur J. "Criteria Essential for Diagnosis of Pneumoconiosis and for Evaluation of Associated Disabilities." June 16, 1955.
  - 17 Asbestos/Miscellaneous. Vorwald, A.J. and Anthony B. Delahant. "The Influence of Silica on the Natural and Acquired Resistance to the Tubercle Bacillus," no date.
  - 18 Asbestos/Miscellaneous. "Pneumoconiosis and Pulmonary Disease. American Association of Industrial Physicians and Surgeons. Detroit, April 5, 1949.
  - 19 Asbestos/Miscellaneous. Asbestos Report by Dr. William E. Smith.
  - 20 Asbestos/Miscellaneous. Vorwald, A.J. "Incidental Pathological Findings in the Lungs of Industrial Workers." "L." No date.
  - 21 Cartier, Hannon and Schepers. "Asbestosis," no date.
  - 22 Asbestos/Miscellaneous. "Occupational and Environmental Pulmonary Cancer with Special Reference to Pneumoconiosis." South America Lecture. March 1953. Two drafts.
  - 23 Asbestos/Miscellaneous. Vorwald, A.J. "Pathogenesis and Pathology of the Pneumoconiosis." "D." No date. Several drafts.
  - 24 Asbestos/Miscellaneous. Asbestos X-ray diffraction.
  - 25 Bibliography referenced with "x-ray, with silicosis, with P.P. Ca." From a folder labeled "Vorwald's 1938 Study."

**Box 053:** BCG vaccination in the treatment of pulmonary diseases including tuberculosis: Collected Reprints with some interspersed Original Papers and Notes by the Staff of the Saranac Laboratory relating to Research on the Treatment of Pulmonary Disease and Infection with Bacille Calmette-Guerin Vaccination (arranged alphabetically by author)

- 1 BCG Reprints: "A" - "B"
- 2 BCG Reprints: "C, D, E"
- 3 BCG Reprints: "F - L"
- 4 BCG Reprints: "M - N"
- 5 BCG Reprints: "N7A"
- 6 BCG Reprints: "O - Q"
- 7 BCG Reprints: "R"



- 8 BCG Reprints: "S - T"
- 9 BCG Reprints: "U - Z"

**Box 054:** Cancer: Collected Reprints on the Subject of Cancer including:  
Environmental/Occupational (unarranged in two Boxes)

- 1 Cancer Index
- 2 General Reprints A
- 3 General Reprints B
- 4 General Reprints C
- 5 General Reprints D
- 6 General Reprints E
- 7 General Reprints F
- 8 General Reprints G
- 9 General Reprints H
- 10 General Reprints I
- 11 General Reprints J
- 12 General Reprints K

**Box 055:** Cancer: Collected Reprints on the Subject of Cancer including:  
Environmental/Occupational (unarranged in two Boxes)

- 1 General Reprints L
- 2 General Reprints M
- 3 General Reprints N
- 4 General Reprints O
- 5 General Reprints P
- 6 General Reprints R
- 7 General Reprints S
- 8 General Reprints T
- 9 General Reprints V
- 10 General Reprints W
- 11 General Reprints Y

**Box 056:** Cancer/experimental research: Collected Reprints on Experimental Cancer Research including methodologies in Test Species Development and Technique (arranged chronologically)

- 1 Spontaneous Tumors in Mice Strains. 1925. Clara Lynch.
- 2 Spontaneous Tumors in Mice Strains. 1926. Clara Lynch.
- 3 Spontaneous Tumors in Mice. 1927. Clara Lynch.
- 4 Spontaneous Tumors in Mice Strains. 1928. Clara Lynch.
- 5 Spontaneous Tumors in Mice Strains. 1931. Clara Lynch.
- 6 Spontaneous Tumors in Mice Strains. 1934. J. Argyll Campbell.
- 7 Spontaneous Tumors in Mice Strains. 1935. Clara Lynch. James P. Simonds/John S. Curtis.
- 8 Spontaneous Tumors in Mice Strains. 1936. Clara Lynch (2). M.G. Seelig/E.L. Benignus.
- 9 Spontaneous Tumors in Mice Strains. 1937. H.B. Andervont (5), J. Argyll Campbell (2), Clara Lynch (2), William S. Murray.



- 10 Spontaneous Tumors in Mice Strains. 1938. H.B. Andervont (4), John J. Bittner, William S. Murray, M.G. Seelig/E.L. Benignus (2), John M. Swan.
- 11 Spontaneous Tumors in Mice Strains. 1939. H.B. Andervont, John J. Bittner, William S. Murray/C.C. Little, Michael E. Shimkin.
- 12 Spontaneous Tumors in Mice Strains. 1940. H.B. Andervont/Egon Lorenz, Egon Lorenz/Harold Stewart, Clara Lynch.
- 13 Spontaneous Tumors in Mice Strains. 1941. W.E. Heston, John J. Morton, William S. Murray/Joseph G. Hoffman, William S. Murray (2), H. Gideon Wells/Maud Slye/Harriet Holmes.
- 14 Spontaneous Tumors in Mice Strains. 1942. Charles E. Dunlap/Shields Warren, W.E. Heston (2), Joseph Leiter (2), Stuart W. Lippincott.
- 15 Spontaneous Tumors in Mice Strains. 1943. Joseph Leiter, Clara Lynch, M.J. Shear.
- 16 Spontaneous Tumors in Mice Strains. 1944. Harold F. Blum.
- 17 Spontaneous Tumors in Mice Strains. 1947. Anna Goldfeder, C.D. Larsen (3), William S. Murray, J.W. Orr, Paul E. Steiner.
- 18 Spontaneous Tumors in Mice Strains. 1948. Philip P. Goland/Margaret Reed Lewis, William E. Smith/Peyton Rous.
- 19 Spontaneous Tumors in Mice Strains. 1949. I. Berenbaum, Henry S. Kaplan/Edwin D. Murphy, Michael B. Shimkin/James N. McClelland.
- 20 Spontaneous Tumors in Mice Strains. 1950. Paul E. Stainer/Clayton G. Loosli.
- 21 Spontaneous Tumors in Mice Strains. 1951. I. Berenbaum, F.K. Mostofi/C.D. Larsen, Joyce R. Shapiro/Arthur Kirschbaum, Hans L. Falk/Paul Steiner, Douglas A. Sutherland/William E. Smith.
- 22 Spontaneous Tumors in Mice Strains. 1952. Helen A. Horn/H.B. Andervont.
- 23 Spontaneous Tumors in Mice Strains. 1953. Ernest L. Wynder/Evart Graham/Adele Croninger.
- 24 Spontaneous Tumors in Mice Strains. 1954. Paul E. Steiner.
- 25 Spontaneous Tumors in Mice Strains. 1955. Paul E. Steiner.

**Box 057:** Emphysema/pneumonia/other pulmonary conditions: Collected Reprints relating to Research on Pulmonary Conditions including Emphysema and Pneumonia (unarranged in three Boxes).

- 1 General Reprints Pulmonary A
- 2 General Reprints Pulmonary B
- 3 General Reprints Pulmonary C
- 4 General Reprints Pulmonary D
- 5 General Reprints Pulmonary E
- 6 General Reprints Pulmonary F
- 7 General Reprints Pulmonary G

**Box 058:**

- 1 General Reprints Pulmonary H
- 2 General Reprints Pulmonary I
- 3 General Reprints Pulmonary J
- 4 General Reprints Pulmonary K
- 5 General Reprints Pulmonary L
- 6 General Reprints Pulmonary M



**Box 059:**

- 1 General Reprints Pulmonary N
- 2 General Reprints Pulmonary O
- 3 General Reprints Pulmonary P
- 4 General Reprints Pulmonary R
- 5 General Reprints Pulmonary S
- 6 General Reprints Pulmonary T
- 7 General Reprints Pulmonary V
- 8 General Reprints Pulmonary W
- 9 General Reprints Pulmonary Y

**Box 060:** Sarcoid: Collected Reprints and Non-published Notes relating to Research on Sarcoid (unarranged)

- 1 General Reprints A-G
- 2 General Reprints H
- 3 General Reprints J-L
- 4 General Reprints P-S

**Box 061:** Silicosis: Collected Reprints, Government Reports/Bulletins, Data Sheets, Manuscripts, and Original Notes on Research into Silicosis (unarranged in three Boxes)

- 1 Silicates. General - Silicosis Reprints A.
- 2 General Reprints B
- 4 General Reprints C
- 5 General Reprints D
- 6 General Reprints E
- 7 General Reprints F
- 8 General Reprints G
- 9 General Reprints H
- 10 General Reprints I
- 11 General Reprints J
- 12 General Reprints K

**Box 062:**

- 1 General Reprints L
- 2 General Reprints M
- 3 General Reprints N
- 4 General Reprints O
- 5 General Reprints P

**Box 063:**

- 1 General Reprints S
- 2 General Reprints T



- 3 General Reprints U
- 4 General Reprints V
- 5 General Reprints W
- 6 General Reprints Z

**Box 064:** Tuberculosis: Collected Reprints, Manuscripts, and Bibliographies relating to Research on Tuberculosis (unarranged)

- 1 Tuberculosis.
- 2 Tuberculosis.
- 3 Tuberculosis.
- 4 Tuberculosis.

**Box 065:** Research files on silica-bearing materials which cause or were suspected of causing silicosis: Collected Reprints, Government Reports/Bulletins, Data Sheets, Manuscripts, and Original Notes on Research into Minerals/Products which were known, or suspected, to cause Silicosis (arranged alphabetically by topic into four Boxes)—Box 065: Abrasives to Organic Silicon

- 1 Silicates - Abrasives (general).
- 2 Silicates - Cement Dust (general).
- 2a Silicates - Chalcedony.
- 3 Silicates - Clay (Potter's Disease).
- 4 Silicates - Cryolite.
- 5 Silicates - Fuller's Earth.
- 5a Silicates - General.
- 6 Silicates - Glass wool (Fiberglass).
- 7 Silicates - Granite.
- 8 Silicates - Gypsum.
- 9 Silicates - Limestone.
- 10 Silicates - Mineral wool (general).
- 11 Silicates - Olivine Rock (Dunite).
- 12 Silicates - Organic Silicon.
- 13 Silicates - Diatomaceous Earth. (Includes photographs to be "titled for book.")

**Box 066:** Quartz to Tripoli

- 1 Silicates - Quartz (Crystalline Silica).
- 2 Silicates - Sand (General). Also see Quartz.
- 3 Silicates - Serecito.
- 4 Silicates - Silicon Fume.
- 5 Silicates - Shales.
- 6 Silicates - Slate.
- 7 Silicates - Talc.
- 8 Silicates - Tripoli.

**Box 067a:** Special Topic-Coal Dust (General Reprints)



- 1 Coal - General.
- 2 Coal - General.
- 3 Coal - General.
- 4 Coal - General.

**Box 067b:** Special Topic-Coal Dust (General Reprints)

- 5 Coal - General.

**Box 068:** Special Topic-Coal Dust (Subjects)

- 1 Coal - Anthracite.
- 2 Coal - Bituminous.
- 3 Coal - Carcinoma.
- 4 Coal - Reports.
- 5 Coal - Safety/Hygiene.

**Box 069:** Research files on non-silica/silicate bearing materials which cause occupational disease including pulmonary injuries: Collected Reprints, Government Reports/Bulletins, Data Sheets, Manuscripts, and Original Notes on Research into Chemicals, Minerals, Fumes, and Aerosols not including silica/silicates which cause disease and bodily injury (arranged alphabetically by topic into four Boxes)—Box 069: Aerosols to Chemicals

- 1 Aerosols.
- 2 Alphatic Nitrate Ester. Pentaerythritol Tetranitrate (PETN).
- 3 Arsenic.
- 4 Bacteria (as Occupational Hazard). Anthrax (see also Leather Industry).
- 5 Bacteria (as Occupational Hazard). Brucella (Brucellosis in Meatpacking/Farming).
- 6 Bacteria (as Occupational Hazard). Kansas Dust (Dust Storm Bacteria).
- 7 Bauxite (Shaver's Disease).
- 8 Boron (Boral).
- 9 Carbon Arc.
- 10 Carbon Black.
- 11 Carborundum.
- 12 Chemicals - General.
- 13 Chemicals - Ammonia.
- 14 Chemicals - Benzol (Benzene).
- 15 Chemicals - Cyanide.
- 16 Chemicals - Dyes.
- 17 Chemicals - Fluoride.
- 18 Chemicals - Formaldehyde/Paraformaldehyde.
- 19 Chemicals - Ketene.
- 20 Chemicals - Methyl Bromide.
- 21 Chemicals - Monometric Styrene.
- 22 Chemicals - Urethane (Ethyl Carbonate).

**Box 070:** Chemicals (Continued/Complete) to Organic Oils



- 1 Chemicals - Nitric Acid.
- 2 Chemicals - Phenol.
- 3 Chemicals - Xenylamine (Dyestuff).
- 4 Cosmetics.
- 5 Electricity (Piezoelectricity).
- 6 Flue/Stack Dust.
- 7 Gases - Ammonia.
- 8 Gases - Carbon Monoxide.
- 9 Gases - Hydrogen Sulfide.
- 10 Gases - General.
- 11 Gases - Oxides of Nitrogen (Silo-Filler's Disease).
- 11a Gases - Phosphine.
- 12 Gases - Sulfur Dioxide.
- 13 Leather Industrial Dusts (Dust/Chemical Diseases).
- 13a Liquids - Chlorobenzene (Monochlorobenzene, Chlorobenzol, Phenyl Chloride)
- 13b Liquids - Methyl Acetate.
- 13c Liquids -o-Dichlorobenzene.
- 13d Liquids - Trichloroethylene
- 14 Organic Dusts - Ammonia.
- 15 Organic Dusts - Cotton Dust (Byssinosis).
- 16 Organic Dusts - Fungi (General).
- 17 Organic Dusts - Fungi, Blastomycosis.
- 18 Organic Dusts - Fur/Fur Industry.
- 19 Organic Dusts - Grain Dust.
- 20 Organic Dusts - Lycopodium.
- 21 Organic Dusts - Sugar Cane Dust (Bagasse Disease).
- 22 Organic Dusts - Wood Dust.
- 23 Organic Oils (Lipoid Pneumonia).

**Box 071:** Pesticides to Welding Dusts/Fumes

- 1 Pesticides – General.
- 2 Pesticides - D.D.T. (Dichloro-diphenyl-trichloroethane).
- 3 Pesticides - Dowfume EB-5 (Grain fumigant).
- 4 Pesticides - Methyl Bromide.
- 5 Pesticides - Organic Phosphates.
- 6 Pesticides - Parathion.
- 7 Petroleum Products - Cutting Oils.
- 8 Petroleum Products - Tar.
- 9 Petroleum Products - Volatile Oils.
- 10 Soap Dust.
- 11 Solvents - General.
- 12 Solvents - Benzene. See also: Chemicals - Benzol (Benzene).
- 13 Solvents - Chloroethylamine (Mustard Gas).
- 13a Solvents – Ethyl Acetate
- 14 Solvents - Ethylene Dichloride.
- 15 Solvents - Ethylene Glycol.
- 16 Solvents - Hydrocarbons, General.





- 17 Solvents - Ketone.
- 18 Solvents - Lewisite (Vesicant).
- 19 Solvents - Neoprene/Rubber Cements.
- 20 Solvents - Tetrachloride (Carbon).
- 21 Solvents - Trichloroethylene.
- 22 Sulfurs - (Dioxide, Acids).
- 23 Synthetic Cloth Dust (see Chemicals - Formaldehyde).
- 24 Thallium Salts.
- 25 Trinitrotoluene (T.N.T.).
- 26 Welding Dusts/Fumes - General.

**Box 072:** Special Topic-Radioactive Materials

- 1 Radioactive Materials - General Radiation Poisoning.
- 2 Radioactive Materials - General Radiation Poisoning.
- 3 Radioactive Materials - General Radiation Poisoning.
- 4 Radioactive Materials - General Radiation Poisoning.
- 5 Radioactive Materials - General Radiation Poisoning.
- 6 Radioactive Materials - General Radiation Poisoning.
- 7 Radioactive Materials - General Radiation Poisoning.
- 8 Radioactive Materials - Fluoroscopy.
- 9 Radioactive Materials - Radiography.
- 10 Radioactive Materials - Radon.
- 11 Radioactive Materials - Uranium.

**Box 073:** Research files on metals which were known, or suspected, to cause pulmonary illnesses or other occupational diseases: Collected Reprints, Government Reports/Bulletins, Data Sheets, Manuscripts, and Original Notes on Research into the Metals known, or suspected, to cause Occupational Disease (arranged alphabetically by topic in eight Boxes)—Box 073: General Topics, and Aluminum to Indium

- 1 Metals - General Articles.
- 2 Metals - Aluminum.
- 3 Metals - Barium (see also: Beryllium).
- 4 Metals - Cadmium (see also: Beryllium).
- 5 Metals - Corundum.
- 6 Metals - Chromate (see also: Beryllium).
- 7 Metals - Cobalt (see also: Beryllium).
- 8 Metals - Copper.
- 9 Metals - Gallium (see also: Beryllium).
- 10 Metals - Germanium.
- 11 Metals - Gold.
- 12 Metals - Graphite.
- 13 Metals - Heavy Metals (General). (see also: Beryllium).
- 14 Metals - Indium (see also: Beryllium).

**Box 074:** Iron/Steel Dust



- 1 Metals - Iron/Steel Dust (See also: Beryllium).
- 2 Metals - Iron/Steel Dust (See also: Beryllium).
- 3 Metals - Iron/Steel Dust (See also: Beryllium).
- 4 Metals - Lead (See also: Beryllium).
- 5 Metals - Lithium (See also: Beryllium).

**Box 075:** Manganese to Zirconium

- 1 Metals - Manganese
- 2 Metals - Magnesium
- 3 Metals - Mercury (See also: Beryllium).
- 4 Metals - Metal Fume (See also: Beryllium).
- 5 Metals - Metal Sprays (Sprayed Metals). (See also: Beryllium).
- 6 Metals - Palladium (See also: Beryllium).
- 7 Metals - Platinum.
- 8 Metals - Selenium.
- 9 Metals - Silver.
- 10 Metals - Taconite (See also: Beryllium).
- 11 Metals - Tantalum (Ethicon).
- 11a Metals - Tellurium
- 12 Metals - Tin (Stannosis).
- 13 Metals - Titanium (See also: Beryllium).
- 14 Metals -Vanadium.
- 15 Metals - Zinc.
- 16 Metals - Zirconium (Metal Powder).

**Box 076:** Special Topic-Beryllium (Beryllium Report, 1964)

- 1 Beryllium Industrial Hygiene Toxicology and Chemistry, Chapters 1 and 2. 1) "Introduction," by H.E. Stokinger. 2) "History of Beryllium Poisoning," by T.L. Shipman.
- 2 Beryllium Industrial Hygiene Toxicology and Chemistry, Chapter 3. 3) "The Chemistry of Beryllium," by L.E. Krejci and L.D. Scheel.
- 3 Beryllium Industrial Hygiene Toxicology and Chemistry, Chapters 4 and 5. 4) "General Summary of Hazards and Occupational Exposures," by A.J. Breslin. 5) "Analytic Determination of Beryllium," by R.G. Keenan.
- 4 Beryllium Industrial Hygiene Toxicology and Chemistry, Chapters 6 and 7. 6) "Experimental Beryllium Toxicology," by A.J. Vorwald, A.L. Reeves, and E.C.J. Urban. 7) "Recommended Hygienic Limits of Exposure to Beryllium," by H.E. Stokinger.
- 5 Beryllium Industrial Hygiene Toxicology and Chemistry, Chapter 8. "Occupational Health Aspects," by A.J. Breslin.
- 6 Beryllium Industrial Hygiene Toxicology and Chemistry, Chapters 9 and 10. 9) "Community Aspects," by A.J. Breslin. 10) "Medical Aspects of Beryllium Disease," by A.J. Vorwald.
- 7 Incomplete, unattributed report that begins with "Summary of Progress Studies on the 1940-1953 Documented Series of Disabling Acute Occupational Disease: Ohio; Basic Beryllium Industry, Plants A-B, C."

**Box 077:** Special Topic-Beryllium (General Reprints)



- 1 Beryllium.
- 2 Beryllium.
- 3 Beryllium.
- 4 Beryllium.
- 5 Beryllium.
- 6 Beryllium Miscellaneous.
- 7 Beryllium - Index A.
- 8 Beryllium B.
- 9 Beryllium - Bone Tumor.

**Box 078:** Special Topic-Beryllium (General Reprints)

- 1 Beryllium - C, D.
- 2 Beryllium - E-F.
- 3 Beryllium - G.
- 4 Beryllium - H.
- 5 Beryllium - Ho.
- 6 Beryllium - J, K, L.
- 7 Beryllium - Mc, M.

**Box 079:** Special Topic-Beryllium (General Reprints)

- 1 "Current Status of Knowledge of Beryllium Intoxication," by Harriet L. Hardy. 7<sup>th</sup> Saranac Symposium.
- 2 "The Beryllium Problem - Experimental Phases," by A.J. Vorwald. 6<sup>th</sup> Saranac Symposium, October 1947.
- 3 Beryllium.
- 4 Beryllium.
- 5 Beryllium.
- 6 Beryllium.

**Box 080:** Special Topic-Beryllium (General Reprints)

- 1 Beryllium - N, O, P, Q.
- 2 Beryllium - R.
- 3 Beryllium - S.
- 4 Beryllium - T.
- 5 Beryllium.
- 6 Beryllium.
- 7 Beryllium Articles from Saranac and Trudeau.
- 8 Beryllium.

**Box 081:** Miscellaneous pulmonary disease/anatomy files: These materials consist of unarranged Collected Reprints, Original Documents, Notes, and Government Reports/Bulletins, relating to many various topics concerning the lungs and other body organ injuries and diseases (arranged in alphabetical order in four Boxes).

- 1 Acidosis.



- 2 Alcoholism.
- 3 Asbestos.
- 4 Anthrax, Industrial.
- 5 Atmospheric pollutants.
- 6 Autopsy.
- 7 Blood.
- 8 Bone banks.
- 9 Bronchiectasis.
- 10 Carcinogenesis.
- 11 Cardiovascular.

**Box 082:**

- 1 Dermatitis.
- 2 Dust - general.
- 3 Foreign language – unidentified.
- 4 Gerontology.
- 5 Jaundice.

**Box 083:**

- 1 Hearing loss.
- 2 Industrial health – general.
- 3 Jaundice.
- 4 Physical examination.
- 5 Pneumonia.
- 6 Pneumoconiosis.
- 7 Protein depletion and hyperproteinization.
- 8 Pulmonary.

**Box 084:**

- 1 Research - general topics.
- 2 Respiratory.
- 3 Roentgenology.
- 4 Silicosis.
- 5 Smoking.
- 6 Tuberculosis.
- 7 Miscellaneous unrelated papers and notes.

**Box 085:** Records Of The Committee on Threshold Limit Values, Maximum Allowable Concentrations, State Documents on Maximum Allowable Concentrations: These materials concern the efforts by the Committee on Threshold Limit Values to set figures for Maximum Allowable Concentrations of inorganic/organic dusts and chemicals during the 1950s; General Records on Threshold Limit Values; and Government Documents on Maximum Allowable Concentrations (unarranged in one Box)



- 1 Records of Threshold Limit Values.
- 2 Records of Threshold Limit Values.
- 3 Records of Threshold Limit Values.
- 4 "Uniform Industrial Hygiene Code." April 1949. American Conference of Government Industrial Hygienists.

**Box 086:** Symposia/miscellaneous (non-asbestos related): Miscellaneous Collected Symposia Proceedings, Programs, Notes, etc. for Conferences which did not include discussions or papers on the issues concerning the Asbestos Related Diseases (unarranged in two Boxes).

- 1 Miscellaneous symposia papers not related to asbestos problems: Ramazzina Society, 1953; Centennial Symposium, Wayne State University, May 1967
- 2 The American Academy of Occupational Medicine.
- 3 Annual Symposia on Industrial Hygiene. 1933-1967.
- 4 Miscellaneous symposia papers not related to asbestos problems. Workshop on Beryllium, 1961.
- 5 Ninth Annual Congress on Industrial Health. 1949, Chicago.
- 6 Course No. 5434, Pulmonary Diseases in Relation to Industry with registrations. May 21, 1951.
- 7 Fifth and Seventh Annual Assembly of the Constantinian Society. October 1952.
- 8 American Medical Association, San Francisco, 1954. "Pulmonary Function Testing Special Exhibit."
- 9 Symposium on "New Methods for Particle Size Determination in the Subsieve Range," American Society for Testing Materials, March 4, 1941.

**Box 087:**

- 1 Miscellaneous symposia.
- 2 U.S. Technical Conference on Air Pollution. May 1950.
- 3 American Mining Congress. May 1951.
- 4 The Pneumoconioses: Diagnosis, Evaluation and Management. A Statement Developed by the Committee on Pneumoconioses of the Council on Occupational Health. January 26, 1961.
- 5 The National Tuberculosis Association Annual Meeting, 1951.
- 6 National Fund for Medical Education, 1955.
- 7 Minutes of Meeting, Committee on Pneumoconiosis, Council on Occupational Health, March 23-24, 1962

**Box 088a:** Records of the Saranac Silicosis Symposia: Contains the incomplete set of records for the Saranac Silicosis Symposia (seven) which were held at Saranac Lake, New York during Dr. Arthur Vorwald's tenure at that Institute. (Arranged in four Boxes) (SEE Box 79 for Vorwald's paper on beryllium given at the 6<sup>th</sup> Symposium)

**Box 088b:** Contains copies of the contents of Box 88a.

- 1 First Symposium on Silicosis (Preservation Copy). June 18-22, 1934.
- 2 Second Symposium on Silicosis (Preservation Copy). June 3-7, 1935.
- 3 Third Symposium on Silicosis (Preservation Copy) (1 of 2). June 21-25, 1937.
- 4 Third Symposium on Silicosis (Preservation Copy) (2 of 2). June 21-25, 1937.
- 5 Fourth Saranac Laboratory on Silicosis (Preservation Copy) (1 of 2). June 19-23, 1939.



6 Fourth Saranac Laboratory on Silicosis (Preservation Copy) (2 of 2). June 19-23, 1939.

**Box 089:** Seventh Saranac Silicosis Symposium (1952); (SEE Box 79 for Hardy's paper on beryllium given at the 7<sup>th</sup> Symposium)

- 1 List of Participants.
- 2 Contents of the Proceedings.
- 3 Transcripts of the Wednesday, September 24, 1952. Session on "Pneumoconiosis and Pulmonary Cancer."
- 4 Notebooks 1, 1A, and 4 of Transcripts.
- 5 Lists of Attendees, 7<sup>th</sup> Saranac Conference.
- 6 Discussions.
- 7 Photocopy of "Current Status of Beryllium Intoxication," by Harriet L. Hardy. See original: Vorwald Collection Box 79.

**Box 090:**

- 1 7<sup>th</sup> Saranac Symposium. Book 8.
- 2 7<sup>th</sup> Saranac Symposium. Book 9.
- 3 7<sup>th</sup> Saranac Symposium. Book 2.
- 4 7<sup>th</sup> Saranac Symposium. Book 3.
- 5 7<sup>th</sup> Saranac Symposium. Book 5.
- 6 7<sup>th</sup> Saranac Symposium. Book 6.

**Box 091:**

- 1 Seventh Saranac Symposium. Transcript from the Wednesday, September 24, 1952 session.
- 2 Seventh Saranac Symposium. Paul Cartier, "Pulmonary Cancer in Asbestos Workers."
- 3 Seventh Saranac Symposium. "Pulmonary Function Studies in Men Exposed for Ten or More Years to Inhalation of Asbestos Fibres," Gregoire, Ferdinand and George W. Wright. September 25, 1952.

**Box 092:** Proceedings Of McIntyre Conferences On Silicosis: Proceedings of the Conferences on Silicosis held by the McIntyre Research Foundation for the years 1950, 1951, 1952, 1953, 1954, 1956, 1958, and 1960. (Arranged chronologically)

- 1 McIntyre Research Foundation Conference. "Conference on Silicosis and Other Pulmonary Diseases." January 30, 31, 1950. Washington, Pennsylvania.
- 2 McIntyre Research Foundation Conference. "Conference on Silicosis and Other Pulmonary Diseases." January 29, 30, 31, 1951. Schumaker, Ontario, Canada.
- 3 McIntyre Research Foundation Conference. "Conference on Silicosis and Other Pulmonary Diseases." January 28, 29, 30, 1952.
- 4 McIntyre Research Foundation Conference. "Conference on Silicosis and Other Pulmonary Diseases." January 26, 27, 28, 1953.
- 5 McIntyre Research Foundation Conference. "Conference on Silicosis and Other Pulmonary Diseases." February 1, 2, 3, 1954. Toronto, Ontario, Canada.
- 6 McIntyre Research Foundation Conference. "Conference on Silicosis and Other Pulmonary Diseases." October 22, 23, and 24, 1956. Toronto, Ontario, Canada.



- 7 McIntyre Research Foundation Conference. "Conference on Silicosis and Other Pulmonary Diseases." January 27, 28, 28, 1958.
- 8 McIntyre Research Foundation Conference. "Conference on Silicosis and Other Pulmonary Diseases." January, 1960.

**Box 093:** Final report of the Committee on the Prevention Of Silicosis Through Engineering Control, National Silicosis Conference for 1937. This is a complete manuscript copy of the Final Report of the Committee on the Prevention of Silicosis through Engineering Control of the National Silicosis Conference, U.S. Department of Labor/Division of Standards held in 1937. (Arranged by chapter with Box Finding Aid Prepared, see folder 1, "Introduction.")

- 1 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Introduction.
- 2 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Plant Design and Renovation.
- 3 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Application of Good Housekeeping and Maintenance to Control Dust.
- 4 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Methods of Ventilation and Dust Control.
- 5 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Wet Methods (of Dust Control).
- 6 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Respiratory Protective Devices. Their Uses and Limitations.
- 7 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Determination of Concentration and Character of Industrial Dust.
- 8 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Management's and Employees' Responsibility.
- 9 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Etiology of Silicosis.
- 10 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Infection of Silicosis.
- 11 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix A: South Africa. General Report of the Miner's Phthisis Prevention Committee. March 15, 1916.
- 12 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of



- Standards. Appendix A: South Africa. Contributions to the Study of Miner's Phthisis.
- 13 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix A: South Africa. Studies in Experimental Silicosis and Other Pneumoconioses.
- 14 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix A: South Africa. The Silicosis of the South African Gold Mines and the Changes Produced in it by Legislative and Administrative Efforts.
- 15 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix A: South Africa. Silicosis and Tuberculosis Observations on the Origin and Character of Silicotic Lesions as Shown in Cases Occurring on the Witwatersrand.
- 16 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix B: United States. Results of Four Studies of Diseases in Mines.
- 17 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix B: United States. Roentgenological Aspects of Simple Silicosis and Silico-Tuberculosis.
- 18 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix B: United States. The Prevalence of Silicosis in the General Population and its Effect upon the Incidence of Tuberculosis.
- 19 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix B: United States. Inhaled Silica and its Effects on Normal and Tuberculous Lungs.
- 20 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix B: United States. The Etiology of Silicosis.
- 21 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix B: United States. Epidemiological Aspects of Silicosis and Tuberculosis.
- 22 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix B: United States. Infection in Silicosis.
- 23 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix B: United States. The Responsibility of Employers and Employees in the Medical Control of Silicosis.
- 24 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix B: United States. Symposium on Silicotic Pneumoconiosis.
- 25 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix C: Canada. The Clinical Aspects of Simple Silicosis and Silicosis with Tuberculosis.





- 26 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix C: Canada. Silicosis.
- 27 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix C: Canada. Clinical and Radiological Aspects of Silicosis.
- 28 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix D: Great Britain. The Statistical Characteristics of Dust Phthisis.
- 29 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix D: Great Britain. Experimental Silicosis.
- 30 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix D: Great Britain. The Occurrence and Clinical Manifestations of Silicosis Among Hard Ground Workers in Coal Mines.
- 31 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix D: Great Britain. The Action of Harmful Dust.
- 32 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix E: Australia and New South Wales. The Prevalence of Miner's Phthisis and Pneumoconiosis in the Metalliferous Mines at Broken Hill.
- 33 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix E: Australia and New South Wales. Investigation in the Health and Working Conditions of Employees in the Mining Industry of Victoria and Tasmania, 1928.
- 34 National Silicosis Conference. "Report of the Committee on the Prevention of Silicosis through Engineering Control." Final Report: January 26, 1937. U.S. Department of Labor/Division of Standards. Appendix E: Australia and New South Wales. Investigation of the Pulmonary Conditions of Miner Employees, Western Australia, 1925-1926.

**Box 094-95:**

- 1 Annual Report of the Chief Inspector of Factories for the Year 1933.
- 2 Annual Report of the Chief Inspector of Factories for the Year 1934.
- 3 Annual Report of the Chief Inspector of Factories for the Year 1944.
- 4 Annual Report of the Chief Inspector of Factories for the Year 1947. The 1947 report by E.R.A. Merewether details the asbestosis/carcinoma statistics in Great Britain to that date. The report was released in early 1949.
- 5 List: New and Revised Publications Issued by Factory (British) Department, 1944.
- 6 Supplementary List of Publications of the National Bureau of Standards. July 1, 1952 to June 30, 1954. (To accompany NBS Circular 460 and its printed Supplement 7-1-47 to 6-30-52.)
- 7 Publications of the National Bureau of Standards. 1901 to June 30, 1947. Circular 460.
- 8 Supplementary List of Publications of the National Bureau of Standards. July 1, 1947 to June 30, 1952. Supplement to NBS Circular 460.
- 9 "Occupational Health Publications in the United States Prior to 1900," by McCord, Carey P. Industrial Medicine and Surgery, August 1955.



- 10 "Asbestos – General Information," Department of the Interior, United States Bureau of the Mines. Information Circular (I.C. 6817). January 1935.
- 11 "Review of Literature on Dusts," United States Department of the Interior: Bureau of Mines, 1955. Bulletin 478.
- 12 Published lists of occupational health publications available in the United States: Collected published lists of available Articles, Reprints, and Government Reports for Occupational Health Research covering the Public Health Service, National Bureau of Standards, and British Factory Department, and United States Bureau of Mining, United States Department of the Interior represented. (arranged chronologically by Reporting Unit)

**Box 096:** Published periodicals/special reports/conference proceedings: Bound and numbered Periodicals, Reports, Conference Proceedings (arranged in numerical order in 23 Boxes).  
Box 096: Periodicals; Numbers 1-4 (Miscellaneous)

- 1-4 Reference - Reprint Library, Sub Series C. Spectrum Antibiotics, University of Michigan Medical Center, Merck, Cortone-Hydrocortone.

**Box 097:** Periodicals; Numbers 5, 7, 8, 9, 10, and 12

- 5 Abstracts of Research Papers in the Field of Adrenal and Pituitary Glands and Extracts. 1950.
- 7 Royal Commission on Safety and Health of Workers in Coal Mines. Report.
- 8 Discussion of Silicosis at Saranac Inn Claims Conference. 1935.
- 9 Essai de Prévention de la Silicose. 1954. (Two copies).
- 10 Yearbook of Physical Anthropology. 1950.
- 12 Argonne National Laboratory Quarterly Report of Biological and Medical Research Division. October 1954.

**Box 098:** Periodicals; Numbers 14 and 16

- 14 Steclin: Squibb Tetracycline Hydrochloride. 1954.
- 16 Cortone, Hydrocortone and Other Substances of Related Application. Annotated Bibliography VIII. July-December, 1953; Unmarked - Can We Help You? The Story of the Institute of Industrial Health, University of Michigan Medical Center.

**Box 099:** Periodicals; Numbers 19, 21, 23-25

- 1 Reference Reprint Library #19.
- 2 Reference Reprint Library #21.
- 3 Reference Reprint Library #23.
- 4 Reference Reprint Library #24.
- 5 Reference Reprint Library #25.

**Box 100:** Periodicals; Numbers 26, 29, 30, 30A, 31-34, and 39

- 26 Transactions of the 13<sup>th</sup> Conf. on the Chemotherapy of Tuberculosis. February 8-11, 1954.
- 29 Survey of Compounds Tested for Carcinogenic Activity. Jonathan L. Hartwell. 1941.
- 30 British Medical Bulletin. 1950. Volume 7, No. 1-2.
- 30A Steel Industry's Colliery Development. Reprint of articles published in 1947.



- 31 Evaluation of the Industrial Hygiene Problem of the State of Idaho. 1938.
- 32 Respiratory Enzymes. University of Wisconsin Biochemists. 1939.
- 33 The Interaction of Drugs and Cell Catalysts. Frederick Bernheim. 1942.
- 34 Silicosis in the Monument Manufacturing Industry in Virginia. 1938.
- 39 Publications of the South African Institute for Medical Research. No. XLV (Vol. IX, pp.95-122). 1940.

**Box 101:** Periodicals; Numbers 42-48, 50, and 51

- 42 The American Journal of Surgery. October, 1941.
- 43 The Visual Requirements of Industrial Lighting: An Analysis and Some Data. H. Richard Blackwell, Ph.D. Reprinted from *Illumination Engineering*, Vol. XLIX, No. 2, February 1954.
- 45 Industrial Dermatoses. 1938, 1939.
- 46 Compensation Medicine. Vol. 5, No. 4. December 1953 - February 1954.
- 47 Toxicity of DDT to Man and other Mammals. 1946.
- 48 Hematology. U.S. Naval Medical School. 1945.
- 50 Publications of the South African Institute for Medical Research. No. XIX (Vol. III, pp.1-84). December, 1926.
- 51 Index of NACA Technical Publications. June 1953 - May 1954.

**Box 102:** Periodicals; Numbers 54, 55, 57, 58, 60, and 61

- 54 Publications of the South African Institute for Medical Research. No. XXXVL (Vol. VI, pp. 367-406). April 1935.
- 55 Medical Research Council. Special Report Series, No. 198. 1934.
- 56 Publications of the South African Institute for Medical Research. No. XXIV (Vol. IV, pp.171-190). October 1929.
- 57 Publications of the South African Institute for Medical Research. No. XXXIV (Vol. VI, pp. 313-322). September 1934.
- 58 Symposium on Biochemistry of Nucleic Acids. 1950. Reprinted from *Journal of Cellular and Comparative Physiology*, Vol. 38, Supplement 1, July 1951.
- 60 La Pneumoconiose des Mineurs de Fer du Bassin de Lorraine. 1954.
- 61 Symposium on Some Aspects of Microbial Metabolism. 1952. Reprinted from *Journal of Cellular and Comparative Physiology*, Vol. 41, Supplement 1, March 1953.

**Box 103:** Periodicals; Numbers 63-70

- 63 Proceedings of the Society for Experimental Biology and Medicine. Vol. 31, No. 2. November 1933.
- 64 Evaluation of the Industrial Hygiene Problem of Illinois. 1939.
- 65 British Empire Cancer Campaign Annual Report. 1952.
- 66 Surgery - A Monthly Journal Devoted to the Art and Science of Surgery. Vol. 8, No. 6. December 1940.
- 67 Symposium on Radiation Genetics. March 26-27, 1948. Reprinted from *Journal of Cellular and Comparative Physiology*, Vol. 35, Supplement 1, June 1950.
- 68 Physiological Reviews. Vol. 32, Supplement no. 1. July 1952.
- 69 Symposium on Radiation Genetics. March 26-27, 1948. Reprinted from *Journal of Cellular and Comparative Physiology*, Vol. 35, Supplement 1, June 1950.



70 Industrial Commission of Wisconsin, Proceedings of Conference Concerning Effects of Dusts Upon the Respiratory System. February 1933.

**Box 104:** Periodicals; Numbers 71-74, 76, 77, 79, 80, and 82

- 71 Bibliography of Industrial Hygiene. Vol. XIV, 1940.
- 72 Medical Research Council. Special Report Series No. 251. 1945.
- 73 Bibliography of Industrial Hygiene. Vol. XIII, No. 4, December 1939.
- 74 Bibliography of Industrial Hygiene. Vol. XV, 1941.
- 76 Silicosis: Proceedings of the International Conference held in Geneva from 29 August to 9 September 1938. Series F (Industrial Hygiene) No. 17.
- 77 Medical Research Council. Special Report Series No. 249. 1944.
- 79 Silicosis in the South Wales Coalfield. (Excerpt from Proceedings, Vol. LII, No. 3). 1936.
- 80 Public Health Bulletin No. 187. 1929.
- 82 Public Health Bulletin No. 221. December 1935.

**Box 105:** Periodicals; Numbers 83-90, 93-97, 99, 100, 102-112

- 83 Public Health Bulletin No. 144. 1925.
- 84 The Institution of Mining and Metallurgy: Dust Sampling Investigations. 1937.
- 85 Acta Medica Scandinavica. Supplementum CXCI. Accompanies Vol. CXXVIII. 1947.
- 86 Medical Research Council. Special Report Series No. 259. 1946.
- 87 Vanadium Pentoxide Dust: A Clinical and Experimental Investigation on its Effect After Inhalation. 1950. Also appears as Suppl. CCXXXVIII in *Acta Medica Scandinavica*, Vol. 138.
- 88 Cancer Services and Facilities in the United States. 1954.
- 89 Blood Chemistry Handbook. 1929.
- 90 Science, the Endless Frontier: A Report to the President. July 1945.
- 93 Etiology of Boeck's Sarcoid. 1944.
- 94 The South African Institute for Medical Research Annual Report. 1952.
- 95 Acta Medica Scandinavica. Supplementum CXCI. Accompanies Vol. CXXVIII. 1947.
- 96 Proceedings of the Lead Hygiene Conference. November 1948.
- 97 Virginia Health Bulletin. Evaluation of the Industrial Hygiene Problems of Virginia. 1938.
- 99 Lobund Reports. Number 2, February 1949.
- 100 The Working Environment and the Health of Workers in Bituminous Coal Mines, Non-Ferrous Metal Mines, and Non-Ferrous Metal Smelters in Utah. November 1940.
- 102 Lake Superior Mining Section. Proceedings of the Twenty-first Mine Safety Conference. June 1944.
- 103 Health Hazards in the Manufacture of Alkaline Accumulators with Special Reference to Chronic Cadmium Poisoning. 1950. Also appears as Suppl. CCXL in *Acta Medica Scandinavica*, Vol. CXXXVIII.
- 104 Biological Aspects of Air Pollution. April 1950.
- 105 Biological Aspects of Air Pollution. April 1950.
- 106 Joint Medical-Legal Conference, 16<sup>th</sup> Annual Meeting. Transactions Bulletin No. 20. 1951.
- 107 Joint Medical-Legal Conference, Seventeenth Annual Meeting. Transactions Bulletin No. 25. 1952.
- 108 Small Plant Health and Medical Programs. May 1952.
- 109 Health Hazards in the Chloroprene Rubber Industry and Their Prevention. 1948. Also appears as



Suppl. CCXIX in *Acta Medica Scandinavica*, Vol. CXXXVII.

- 110 Seventeenth Annual Meeting, Industrial Hygiene Foundation. Transactions Bulletin No. 23. 1952.
- 111 Atomic Energy and the Physical Sciences. January 1950.
- 112 16<sup>th</sup> Annual Meeting, Legal Conference. Transactions Bulletin No. 21. 1951.

**Box 106:** Periodicals; Numbers 113-118, 121-129, and 131-138

- 113 Control of Radiation Hazards in the Atomic Energy Program. July 1950.
- 114 Biological Aspects of Air Pollution. April 1950.
- 115 Health of Workers in Chromate Producing Industry. Public Health Service Publication No. 192.
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**\*\*Note--the contents of the remaining Boxes 119-256 in the collection are restricted from ordinary access by all researchers irrespective of interest. Persons desiring to gain access to these materials must first agree to comply with a protective order similar to the order of settlement and stipulation of dismissal filed in the case of Baron & Associates v. U.S. Department of the Army, C.A. no. 84-2021 (D.D.C. April 1, 1985). Copies of this document are available at Otis Historical Archives and must be signed by all researchers before using these materials.\*\*\***

**Box 119:**

Card file: Pneumoconiosis "P" series clinical patient records from the Saranac Laboratory, 1930-1954. Card catalogue of Pneumoconiosis cases collected by the Saranac Laboratory during the period 1930-1954. Cards indicate Patient Number, Patient Name, Diagnosis, and Available Material on the Case (e.g. folder, slides, lantern slide, x-ray, etc.). (arranged numerically 1 to 593 with diagnosis Cross File) (Housed at end of collection with Box 120 in a metal card file.)

**Box 120:**

Card file: Pneumoconiosis "P" series clinical patient records from the Saranac Laboratory, 1930-1952. Card catalogue of Pneumoconiosis cases collected by the Saranac Laboratory during the period 1930-1954. Typed cards indicate Patient Number, Autopsy Number, Patient Name, Type of Dust Exposure, Duration of Dust Exposure, Occupation of Patient, Diagnosis, and Source of the Case. (arranged



numerically 1-579) (Housed at end of collection with Box 119 in a metal card file.)

- TRAY 1 Card file: Subject cross-reference file; Pneumoconiosis series clinical patient records from the Saranac Laboratory, 1930-1954. Card catalogue of Pneumoconiosis cases collected by the Saranac Laboratory during the period 1930-1954. Typed cards indicate Diagnosis, Patient Number, Patient Name, Type of Dust Exposure, Duration of Dust Exposure, and Source of the Case (arranged alphabetically by various subjects including Type of Dust Exposure, Source of Exposure, and Diagnosis--Nearly 3000 cards)

#### **Box 121:**

Lists of collected Pneumoconiosis "P" Series clinical patient files from the Saranac Laboratory 1930-1954: Manuscript size Box of collected lists of the Pneumoconiosis "P" Series Files from the Records of the Saranac Laboratory 1930-1954. Four Files are currently contained in this Box including:

- 1) Listing of "P" Series Files Numbers P-30-21 to P-52-579
- 2) Listing of Collected Asbestosis Cases
- 3) File of Collected Lists of Asbestosis Cases Marked "Incomplete"
- 4) File of Collected Asbestosis Cases with Cancer of the Lung from Thetford Mines, Quebec

Folders:

- 1 Collected Pneumoconiosis Files, Clinical Patient Files from the Saranac Laboratory, 1930-1954.
- 2 List of collected Asbestosis cases.
- 3 File of collected list of Asbestosis cases. Marked incomplete.
- 4 List of collected Asbestosis cases, cancer of the lung. Thetford Mines, Quebec, Canada.

#### **Box 122:**

Pneumoconiosis "P" Series clinical patient files from the Saranac Laboratory 1930-1954. Collected patient files of pneumoconiosis clinical cases from the Saranac Laboratory. These cases were collected by Dr. Leroy U. Gardner, Dr. Arthur J. Vorwald, and the staff of the Saranac Laboratory during the period 1930-1954. (Arranged numerically by assigned Pneumoconiosis "P" Series Number. Numbers are in three parts (e.g. P-40-230) the first being the series (Pneumoconiosis), the second being the year the case was collected (1940), and the third being the numerical sequencing of the cases representing a total number in the series collected to that date--no internal arrangement within the file. (arranged numerically in fifteen Boxes).

Box 122 contains "P" Series Numbers P-xx- 2 to P-35-131

- a P-xx-2.
- b P-25-6.
- c P-26-13.
- d P-29-19.
- 1 P-30-21.
- 2 P-30-22.
- 2a P-30-25a.
- 2b P-31-29.
- 3 P-31-30.
- 3a P-31-31.
- 4 P-31-34.
- 4a P-31-35.



- 5 P-31-37.
- 6 P-32-40.
- 7 P-32-42.
- 8 P-32-47.
- 9 P-32-48.
- 10 P-32-50.
- 11 P-33-57.
- 12 P-33-59.
- 13 P-33-60.
- 14 P-33-72.
- 15 P-33-73.
- 16 P-33-76.
- 17 P-33-89.
- 18 P-33-90.
- 19 P-33-92.
- 20 P-34-93.
- 21 P-34-94.
- 22 P-34-95.
- 22a P-34-96.
- 23 P-34-98.
- 24 P-34-100.
- 25 P-34-101.
- 25a P-34-102.
- 25b P-34-103.
- 26 P-34-104.
- 27 P-33-105.
- 27a P-34-106.
- 28 P-34-107.
- 28a P-34-109.
- 29 P-34-110.
- 30 P-35-112.
- 31 P-35-114.
- 32 P-35-116.
- 33 P-35-117.
- 34 P-35-118.
- 35 P-35-119.
- 36 P-35-120.
- 37 P-35-121.
- 38 P-35-122.
- 38a P-35-128.
- 39 P-35-129.
- 40 P-35-130.
- 41 P-35-131.

**Box 123:** "P" Series Numbers P-35-132a to P-40-228

- 1 P-35-132a.
- 2 P-35-133.



- 3 P-36-134.
- 4 P-36-135.
- 5 P-36-136.
- 6 P-36-137.
- 7 P-36-138.
- 8 P-36-139.
- 9 P-36-140.
- 10 P-36-141.
- 11 P-36-142.
- 12 P-36-143.
- 13 P-36-144.
- 14 P-36-145.
- 15 P-36-146.
- 15a P-36-147.1
- 16 P-36-148.
- 17 P-36-149.
- 18 P-36-150.
- 19 P-36-151.
- 20 P-36-152.
- 21 P-36-153.
- 22 P-36-155.
- 23 P-36-156.
- 24 P-36-157.
- 25 P-30-158.
- 26 P-36-159.
- 27 P-36-160.
- 28 P-36-161.
- 29 P-36-162.
- 30 P-36-165.
- 30a P-36-167.
- 31 P-36-170.
- 32 P-36-172.
- 33 P-36-173.
- 34 P-36-174.
- 35 P-37-175.
- 36 P-37-176.
- 37 P-37-177.
- 38 P-37-178.
- 39 P-37-179.
- 40 P-37-180.
- 41 P-37-181.
- 42 P-37-182.
- 43 P-37-183.
- 44 P-37-184.
- 45 P-37-185.
- 46 P-37-186.
- 47 P-37-190.
- 48 P-37-192.





49 P-38-195.  
50 P-38-196.  
51 P-38-198.  
52 P-38-200.  
53 P-38-201.  
54 P-38-202.  
55 P-38-203.  
56 P-39-205.

**Box 124:** "P" Series Numbers P-39-206 to P-41-260

1 P-39-206.  
2 P-39-207.  
3 P-39-208.  
4 P-39-209.  
5 P-39-210.  
6 P-39-211.  
7 P-39-212.  
8 P-39-214.  
9 P-39-215.  
10 P-39-216.  
11 P-39-217.  
12 P-39-218.  
13 P-39-219.  
14 P-39-220.  
15 P-39-221.  
16 P-39-223.  
17 P-39-222.  
18 P-39-224.  
19 P-39-225.  
20 P-39-226.  
21 P-40-228.  
22 P-40-229.  
23 P-40-230.  
24 P-40-231.  
25 P-40-232.  
26 P-40-235.  
27 P-40-236.  
28 P-40-240.  
29 P-40-241.  
30 P-40-242.  
31 P-40-244.  
32 P-41-245.  
33 P-40-246.  
34 P-40-247.  
35 P-40-248.  
36 P-40-249.  
37 P-40-250.



38 P-40-251.  
39 P-40-252.  
40 P-40-253.  
41 P-41-256.  
42 P-41-257.  
43 P-41-258.  
44 P-41-259.  
45 P-41-260.

**Box 125:** "P" Series Numbers P-41-261 to P-44-315

1 P-41-261.  
2 P-41-262.  
3 P-41-263.  
4 P-41-264.  
5 P-41-265.  
6 P-41-266.  
7 P-41-268.  
8 P-41-269.  
9 P-42-270.  
10 P-42-271.  
11 P-42-272.  
12 P-42-273.  
13 P-42-274.  
14 P-42-275.  
15 P-42-276.  
16 P-42-277.  
17 P-42-281.  
18 P-42-282.  
19 P-42-283.  
20 P-42-284.  
21 P-42-285.  
22 P-43-286.  
23 P-43-287.  
24 P-43-288.  
25 P-43-289.  
26 P-43-290.  
27 P-43-293A.  
28 P-43-295.  
29 P-43-297.  
30 P-43-298.  
31 P-43-299.  
32 P-43-300.  
33 P-43-303.  
34 P-43-305.  
35 P-43-306.  
36 P-43-307.  
37 P-43-308.



- 38 P-43-309.
- 39 P-43-310.
- 40 P-43-311.
- 41 P-43-312.
- 42 P-44-313.
- 43 P-44-314.
- 44 P-44-315.

**Box 126:** "P" Series Numbers P-44-316 to P-45-355

- 1 P-44-316.
- 2 P-44-317.
- 3 P-44-318.
- 4 P-44-319.
- 5 P-44-320.
- 6 P-44-321.
- 7 P-44-322.
- 8 P-44-324.
- 9 P-44-325.
- 10 P-44-326.
- 11 P-44-327.
- 12 P-44-328.
- 13 P-44-329.
- 14 P-44-330.
- 15 P-45-331.
- 16 P-45-332.
- 17 P-45-333.
- 18 P-45-334.
- 19 P-45-335.
- 20 P-45-336.
- 21 P-45-337.
- 22 P-45-338.
- 23 P-45-339.
- 24 P-45-340.
- 25 P-45-341.
- 26 P-45-342.
- 27 P-45-343.
- 28 P-45-344.
- 29 P-45-345.
- 30 P-45-346.
- 31 P-45-347.
- 31a P-45-348.
- 32 P-45-349.
- 33 P-45-350.
- 33a P-45-352.
- 34 P-45-353.
- 35 P-45-354.
- 36 P-45-355.



**Box 127:** "P" Series Numbers P-45-356 to P-48-407

- 1 P-45-356.
- 2 P-45-357.
- 3 P-45-360.
- 4 P-45-361.
- 5 P-45-362.
- 6 P-45-363.
- 7 P-45-364.
- 8 P-45-365.
- 9 P-45-366.
- 10 P-46-367.
- 11 P-46-369.
- 12 P-46-370.
- 13 P-46-371.
- 14 P-46-372.
- 15 P-46-373.
- 16 P-47-374.
- 17 P-47-375.
- 18 P-47-379.
- 19 P-47-381.
- 20 P-47-383.
- 21 P-47-384.
- 22 P-47-387.
- 23 P-47-389.
- 24 P-48-391.
- 25 P-48-392.
- 26 P-48-393.
- 27 P-48-394.
- 28 P-48-395.
- 29 P-48-396.
- 30 P-48-397.
- 31 P-48-398.
- 32 P-48-399.
- 33 P-48-400.
- 34 P-48-401.
- 35 P-48-402.
- 36 P-48-403.
- 37 P-48-404.
- 38 P-48-405.
- 39 P-48-407.

**Box 128:** "P" Series Numbers P-48-409 to P-49-440

- 1 P-48-409.
- 2 P-48-410.
- 3 P-48-411.



- 4 P-48-412.
- 5 P-48-413.
- 6 P-48-414.
- 7 P-48-415.
- 8 P-48-416.
- 9 P-48-417.
- 10 P-48-418.
- 11 P-48-419.
- 12 P-48-420.
- 13 P-48-421.
- 14 P-48-422.
- 15 P-48-423.
- 16 P-48-424.
- 17 P-48-425.
- 18 P-48-426.
- 19 P-48-427.
- 20 P-48-428.
- 21 P-48-429.
- 22 P-48-430.
- 23 P-48-431.
- 24 P-48-432.
- 25 P-48-433.
- 26 P-48-434.
- 27 P-48-435.
- 28 P-49-436.
- 29 P-49-437.
- 30 P-49-438.
- 31 P-49-439.
- 32 P-49-440.

**Box 129:** "P" Series Numbers P-49-441 to P-49-466

- 1 P-49-441.
- 2 P-49-442.
- 3 P-49-443.
- 4 P-49-444.
- 5 P-49-445.
- 6 P-49-446.
- 7 P-49-447.
- 8 P-49-448.
- 9 P-49-449.
- 10 P-49-450.
- 11 P-49-451.
- 12 P-49-452.
- 13 P-49-453.
- 14 P-49-454.
- 15 P-49-455.
- 16 P-49-456.



- 17 P-49-457.
- 18 P-49-458.
- 19 P-49-459-1.
- 20 P-49-459-2.
- 21 P-49-460.
- 22 P-49-461.
- 23 P-49-462.
- 24 P-49-463.
- 25 P-49-464.
- 26 P-49-465.
- 27 P-49-466.

**Box 130:** "P" Series Numbers P-49-467 to P-50-485

- 1 P-49-467.
- 2 P-49-468.
- 3 P-49-469.
- 4 P-49-470.
- 5 P-50-471.
- 6 P-49-472.
- 7 P-50-473.
- 8 P-50-474.
- 9 P-50-475.
- 10 P-50-476.
- 11 P-50-477.
- 12 P-50-478.
- 13 P-50-479.
- 14 P-50-480.
- 15 P-50-481.
- 16 P-50-482.
- 17 P-50-483.
- 18 P-50-484.
- 19 P-50-485.

**Box 131:** "P" Series Numbers P-50-486 to P-50-500

- 1 P-50-486.
- 2 P-50-487.
- 3 P-50-488.
- 4 P-50-489.
- 5 P-50-490.
- 6 P-50-491.
- 7 P-50-492.
- 8 P-50-493.
- 9 P-50-494.
- 10 P-50-495.
- 11 P-50-496.
- 12 P-50-497.



- 13 P-50-498.
- 14 P-50-499.
- 15 P-50-500.

**Box 132:** "P" Series Numbers P-50-501 to P-51-520

- 1 P-50-501.
- 2 P-50-503.
- 3 P-51-504.
- 4 P-51-505.
- 5 P-51-506.
- 6 P-51-507.
- 7 P-51-508.
- 8 P-51-509.
- 9 P-51-510.
- 10 P-51-511.
- 11 P-51-512.
- 12 P-51-513.
- 13 P-51-514.
- 14 P-51-515.
- 15 P-51-516.
- 16 P-51-517.
- 17 P-51-518.
- 18 P-51-519.
- 19 P-51-520.

**Box 133:** Minutes of the New York Workmen's Compensation Board, January 30, 1953, Numbers 1 -3.

"P" Series Numbers P-51-521 to P-51-533

- 1 P-51-521.
- 2 P-51-522.
- 3 P-51-523.
- 4 P-51-524.
- 5 P-51-525.
- 6 P-51-526.
- 7 P-51-527.
- 8 P-51-528.
- 9 P-51-529.
- 10 P-51-530.
- 11 P-51-531.
- 12 P-51-532.
- 13 P-51-533.

**Box 134:** "P" Series Numbers P-51-534 to P-52-550

- 1 P-51-534.
- 2 P-51-535.



- 3 P-51-536.
- 4 P-51-537.
- 5 P-51-538.
- 6 P-51-539.
- 7 P-51-540.
- 8 P-51-541.
- 9 P-51-542.
- 10 P-51-543.
- 11 P-51-544.
- 12 P-51-545.
- 13 P-51-546.
- 14 P-51-547.
- 15 P-51-548.
- 16 P-52-549.
- 17 P-52-550.

**Box 134a:** "P" Series Numbers P-52-551 to P-52-572

- 1 P-52-551.
- 2 P-52-552.
- 3 P-52-553.
- 4 P-52-554.
- 5 P-52-555.
- 6 P-52-556.
- 7 P-52-557.
- 8 P-52-558.
- 9 P-52-559.
- 10 P-52-560.
- 11 P-52-561.
- 12 P-52-562.
- 13 P-52-563.
- 14 P-52-564.
- 15 P-52-565.
- 16 P-52-566.
- 17 P-52-567.
- 18 P-52-568.
- 19 P-52-569.
- 20 P-52-570.
- 21 P-52-571.
- 22 P-52-572.

**Box 134b:** "P" Series Numbers P-52-573 to P-53-593

- 1 P-52-573.
- 2 P-52-574.
- 3 P-52-575.
- 4 P-52-576.
- 5 P-52-577.





- 6 P-52-578.
- 7 P-52-579.
- 8 P-53-580.
- 9 P-53-581.
- 9a P-53-582.
- 10 P-53-585.
- 11 P-53-587.
- 12 P-53-588.
- 13 P-53-589.
- 14 P-53-590.
- 15 P-53-593.

**Box 135:** Pneumoconiosis "P" Series microscope slides from the Saranac Laboratory 1930-1954 (arranged numerically in three Boxes).

P-1 to P-174; P-175 to P-260; P-261 to P-291; P-295 to P-346.

**Box 136:**

P-348 to P-394; P-400 to P-463; P-464 to P-501; P-504 to P-546.

**Box 137:**

P-553 to P-586; P-587 to P-590; P-593.

**Box 138:** Pneumoconiosis "P" Series lantern slides from the Saranac Laboratory 1930-1954 (arranged numerically in fifteen Boxes).

P-1 to P-80.

**Box 139:**

P-81 to P-148.

**Box 140:**

P-171 to P-210.

**Box 141:**

P-211 to P-212; P-215; P-217 to P-221; P-229; P-231; P-235 to P-237; P-240; P-242; P-244 to P-245; P-247.

**Box 142:**

P-249 to P-268.

**Box 143:**



P-269 to P-345.

**Box 144:**

P-346 to P-398.

**Box 145:**

P-403 to P-404; P-407; P-410; P-417 to P-421; P-423; P-425 to P-426; P-430 to P-431; P-433; P-439 to P-441; P-443; and P-445.

**Box 146:**

P-446 to P-448; P-451 to P-453; P-456; P-458; P-460; P-462; P-467; P-470 to P-471; P-474 to P-475; P-477 to P-480; and P-482 to P-484.

**Box 147:**

P-485 to P-499.

**Box 148:**

P-500 to P-518.

**Box 149:**

P-519 to P-540.

**Box 150:**

P-542 to P-569.

**Box 151:**

P-571 to P-600.

**Box 152:**

Miscellaneous lantern slides from the "P" Series

**Box 152a:** Three binders

1) (a) "P" Series case studies, arranged by case number, with photos, drawings, x-rays, and notes. (b) Autopsy notes. Chart: "Preliminary Data in the Study of Bed Rest and Spreads of Disease," 1951. (c) Chart: "6 Data charts – New TB Drug Therapy (Biological Laboratory)," 1952. (d) Charts: "Resections Data – Dr. Welles – Dr. Brumfiel Truceau [Trudeau?] School 1952." Chart: "TB Data Charts – Dr. Mitchell." (e) Chart: "TB Statistics Charts – Dr. Meade 1952 NTA." (f) "Saranac Laboratory Museum," 1 page of notes.



(g) Chart: "Location of 339 Cavities in Simple Tuberculosis Compared with 90 Cavities in Silicosis and Tuberculosis," with supporting notes. Typed manuscripts: (h) "The Physiological and Pathological Aspects of Silica," by Earl J. King and Thomas H. Belt, 1938. (i) "Cultivation of Tubercle Bacilli from the Blood and Organs after Death," by Popper, Leser, and Gerzner, 1938. (j) "The Cavity in Pulmonary Tuberculosis," based on articles by Max Pinner, 1928, 1931. (k) "A Study of the Position of Primary Cavities in Pulmonary Tuberculosis," based on articles by Sweeney, Cook, and Kegerreis, 1931. (l) "The Pathology of Pneumoconiosis," by Oscar Auerbach, 1936. (m) "Cavernous silicosis," by S. Puder, 1938. (n) "Tuberculosis of Intestines in Tuberculous Anthracosilicosis," by Robert Charr and Archivald C. Cohen, 1938. (o) "The Radiological Classification of Cases of Pulmonary Tuberculosis," by James Watt, 1937.

2) "Gross Section of Lungs Dr. A.J. Vorwald, prop." Lung sections from the "P" Series. "Latest Advances in Medical Journal Illustrations," presented by Ward Bentley, nd, affixed to two more lung sections.

3) "Beryllium Cases." "P" Series case notes arranged by case number.

**Box 153:** Industrial Medicine "I.M." series clinical patient files from the School of Industrial Medicine and Hygiene, Wayne State University School of Medicine 1954-1967: Collected Clinical Patient Files of Industrial Medicine Cases from the Wayne State University School of Industrial Medicine and Hygiene. These clinical cases were collected by Dr. Arthur J. Vorwald during his tenure as Director of that program in the period 1954 to 1967 (arranged in numerically in thirty Boxes with no internal arrangement.) Box 153 contains: "I.M." Series Numbers IM- 1 to IM-24

- 1 I.M. Case #1.
- 2 I.M. Case #2.
- 3 I.M. Case #3.
- 4 I.M. Case #4.
- 5 I.M. Case #5.
- 6 I.M. Case #6.
- 7 I.M. Case #7.
- 8 I.M. Case #8.
- 9 I.M. Case #9.
- 10 I.M. Case #10.
- 11 I.M. Case #11.
- 12 I.M. Case #12.
- 13 I.M. Case #13.
- 14 I.M. Case #14.
- 15 I.M. Case #15.
- 16 I.M. Case #16.
- 17 I.M. Case #17.
- 18 I.M. Case #18.
- 19 I.M. Case #19.
- 20 I.M. Case #20..
- 21 I.M. Case #21.
- 22 I.M. Case #22.
- 23 I.M. Case #23.
- 24 I.M. Case #24.



- 25 I.M. Case #24.
- 26 I.M. Case #24.
- 27 I.M. Case #24.
- 28 I.M. Case #24.

**Box 153a:** Photocopies of documents in Box 153 for cases IM 1, 3-10.

**Box 154:** "I.M." Series 15 Numbers IM-25 to IM-43

- 1 I.M. Case #25.
- 2 I.M. Case #26.
- 3 I.M. Case #27.
- 4 I.M. Case #28.
- 5 I.M. Case #29.
- 6 I.M. Case #30.
- 7 I.M. Case #31.
- 8 I.M. Case #32.
- 9 I.M. Case #33.
- 10 I.M. Case #34.
- 11 I.M. Case #35.
- 12 I.M. Case #36.
- 13 I.M. Case #37.
- 14 I.M. Case #38.
- 15 I.M. Case #39.
- 16 I.M. Case #40.
- 17 I.M. Case #41.
- 18 I.M. Case #42.
- 19 I.M. Case #43.

**Box 155:** "I.M." Series Numbers IM-45 to IM-62

- 1 I.M. Case #45.
- 2 I.M. Case #46.
- 3 I.M. Case #47.
- 4 I.M. Case #48.
- 5 I.M. Case #49.
- 6 I.M. Case #50.
- 7 I.M. Case #51.
- 8 I.M. Case #51.
- 9 I.M. Case #51.
- 10 I.M. Case #52.
- 11 I.M. Case #53.
- 12 I.M. Case #54.
- 13 I.M. Case #54-1.
- 14 I.M. Case #55.
- 15 I.M. Case #56.
- 16 I.M. Case #57. (empty)
- 17 I.M. Case #58. (empty)



- 18 I.M. Case #59. (empty)
- 19 I.M. Case #60. (empty)
- 20 I.M. Case #61. (empty)
- 21 I.M. Case #62. (empty)

**Box 156:** "I.M." Series Numbers IM-63 to IM-85

- 1 I.M. Case #63. (empty)
- 2 I.M. Case #64.
- 3 I.M. Case #65. (empty)
- 4 I.M. Case #66.
- 5 I.M. Case #67.
- 6 I.M. Case #67.
- 7 I.M. Case #68.
- 8 I.M. Case #69.
- 9 I.M. Case #70.
- 10 I.M. Case #71.
- 11 I.M. Case #72.
- 12 I.M. Case #73.
- 13 I.M. Case #74.
- 14 I.M. Case #75.
- 15 I.M. Case #76.
- 16 I.M. Case #77.
- 17 I.M. Case #78.
- 18 I.M. Case #79.
- 19 I.M. Case #80.
- 20 I.M. Case #81.
- 21 I.M. Case #82.
- 22 I.M. Case #84.
- 23 I.M. Case #85.

**Box 15 :** "I.M." Series Numbers IM-86 to IM-107

- 1 I.M. Case #86.
- 2 I.M. Case #87.
- 3 I.M. Case #88.
- 4 I.M. Case #89.
- 5 I.M. Case #90.
- 6 I.M. Case #91.
- 7 I.M. Case #92.
- 8 I.M. Case #93.
- 9 I.M. Case #94.
- 10 I.M. Case #95.
- 11 I.M. Case #96.
- 12 I.M. Case #97.
- 13 I.M. Case #98.
- 14 I.M. Case #99.
- 15 I.M. Case #100.



- 16 I.M. Case #101.
- 17 I.M. Case #102.
- 18 I.M. Case #103.
- 19 I.M. Case #104.
- 20 I.M. Case #105. (empty)
- 21 I.M. Case #106.
- 22 I.M. Case #107.

**Box 158:** "I.M." Series Numbers IM-108 to IM-138

- 1 I.M. Case #108.
- 2 I.M. Case #109.
- 3 I.M. Case #110.
- 4 I.M. Case #111.
- 5 I.M. Case #112.
- 6 I.M. Case #113.
- 7 I.M. Case #114.
- 8 I.M. Case #115.
- 9 I.M. Case #116.
- 10 I.M. Case #117.
- 11 I.M. Case #118.
- 12 I.M. Case #119.
- 13 I.M. Case #120.
- 14 I.M. Case #121.
- 15 I.M. Case #122.
- 16 I.M. Case #123.
- 17 I.M. Case #126.
- 18 I.M. Case #127.
- 19 I.M. Case #128.
- 20 I.M. Case #129.
- 21 I.M. Case #130.
- 22 I.M. Case #131.
- 23 I.M. Case #132.
- 24 I.M. Case #133.
- 25 I.M. Case #134.
- 26 I.M. Case #135.
- 27 I.M. Case #136.
- 28 I.M. Case #137.
- 29 I.M. Case #138.

**Box 159:** "I.M." Series Numbers IM-138 to IM-144

- 1 I.M. Case #138.
- 2 I.M. Case #138.
- 3 I.M. Case #138.
- 4 I.M. Case #138.
- 5 I.M. Case #138.
- 6 I.M. Case #139.



- 7 I.M. Case #140.
- 8 I.M. Case #141.
- 9 I.M. Case #144.

**Box 160:** "I.M." Series Numbers IM-145 to IM-149

- 1 I.M. Case #145.
- 2 I.M. Case #146.
- 3 I.M. Case #147.
- 4 I.M. Case #147.
- 5 I.M. Case #148.
- 6 I.M. Case #149.

**Box 161:** "I.M." Series Numbers IM-150 to IM-167

- 1 I.M. Case #150.
- 2 I.M. Case #151.
- 3 I.M. Case #152.
- 4 I.M. Case #153.
- 5 I.M. Case #154.
- 6 I.M. Case #155.
- 7 I.M. Case #156.
- 8 I.M. Case #157.
- 9 I.M. Case #158.
- 10 I.M. Case #159. (empty)
- 11 I.M. Case #160.
- 12 I.M. Case #162.
- 13 I.M. Case #163.
- 14 I.M. Case #164.
- 15 I.M. Case #165.
- 16 I.M. Case #166.
- 17 I.M. Case #167.

**Box 162:** "I.M." Series Numbers IM-168 to IM-182

- 1 I.M. Case #168.
- 2 I.M. Case #169.
- 3 I.M. Case #170.
- 4 I.M. Case #171.
- 5 I.M. Case #172.
- 6 I.M. Case #170, 171, 172.
- 7 I.M. Case #173.
- 8 I.M. Case #174.
- 9 I.M. Case #175. (empty)
- 10 I.M. Case #176.
- 11 I.M. Case #177.
- 12 I.M. Case #178.
- 13 I.M. Case #179.



- 14 I.M. Case #180.
- 15 I.M. Case #181.
- 16 I.M. Case #182.

**Box 163:** "I.M." Series Numbers IM-183 to IM-192

- 1 I.M. Case #183.
- 2 I.M. Case #184.
- 3 I.M. Case #185.
- 4 I.M. Case #186.
- 5 I.M. Case #187.
- 6 I.M. Case #188.
- 7 I.M. Case #189.
- 8 I.M. Case #190.
- 9 I.M. Case #191.
- 10 I.M. Case #191.
- 11 I.M. Case #192.
- 12 I.M. Case #192.

**Box 164:** "I.M." Series Numbers IM-193 to IM-206

- 1 I.M. Case #193.
- 2 I.M. Case #194.
- 3 I.M. Case #195.
- 4 I.M. Case #196.
- 5 I.M. Case #196
- 6 I.M. Case #197.
- 7 I.M. Case #198.
- 8 I.M. Case #199.
- 9 I.M. Case #200.
- 10 I.M. Case #201.
- 11 I.M. Case #202.
- 12 I.M. Case #203.
- 13 I.M. Case #204.
- 14 I.M. Case #205.
- 15 I.M. Case #206.

**Box 165:** "I.M." Series Numbers IM-207 to IM-218

- 1 I.M. Case #207.
- 2 I.M. Case #207.
- 3 I.M. Case #208.
- 4 I.M. Case #209.
- 5 I.M. Case #210.
- 6 I.M. Case #211.
- 7 I.M. Case #212.
- 8 I.M. Case #213.
- 9 I.M. Case #214.





- 10 I.M. Case #215.
- 11 I.M. Case #216.
- 12 I.M. Case #217.
- 13 I.M. Case #218.

**Box 166:** "I.M." Series Numbers IM-219. to IM-232

- 1 I.M. Case #219.
- 2 I.M. Case #220.
- 3 I.M. Case #221.
- 4 I.M. Case #222.
- 5 I.M. Case #223.
- 6 I.M. Case #224.
- 7 I.M. Case #224, 223, 235.
- 8 I.M. Case #235-223.
- 9 I.M. Case #225.
- 10 I.M. Case #226.
- 11 I.M. Case #227.
- 12 I.M. Case #228.
- 13 I.M. Case #229.
- 14 I.M. Case #230.
- 15 I.M. Case #231.
- 16 I.M. Case #232.

**Box 167:** "I.M." Series Numbers IM-233 to IM-246

- 1 I.M. Case #233.
- 2 I.M. Case #234.
- 3 I.M. Case #235.
- 4 I.M. Case #236.
- 5 I.M. Case #237.
- 6 I.M. Case #238.
- 7 I.M. Case #239.
- 8 I.M. Case #240.
- 9 I.M. Case #241.
- 10 I.M. Case #242.
- 11 I.M. Case #243.
- 12 I.M. Case #244.
- 13 I.M. Case #245.
- 14 I.M. Case #246.

**Box 168:** "I.M." Series Numbers IM-247 to IM-268

- 1 I.M. Case #247.
- 2 I.M. Case #248.
- 3 I.M. Case #249.
- 4 I.M. Case #250.
- 5 I.M. Case #251.



- 6 I.M. Case #252.
- 7 I.M. Case #253.
- 8 I.M. Case #254.
- 9 I.M. Case #255.
- 10 I.M. Case #256.
- 11 I.M. Case #257.
- 12 I.M. Case #258.
- 13 I.M. Case #259.
- 14 I.M. Case #260.
- 15 I.M. Case #261.
- 16 I.M. Case #262.
- 17 I.M. Case #263.
- 18 I.M. Case #264.
- 19 I.M. Case #266.
- 20 I.M. Case #267.
- 21 I.M. Case #268.

**Box 169:** "I.M." Series Numbers IM-269 to IM-277

- 1 I.M. Case #269.
- 2 I.M. Case #270.
- 3 I.M. Case #271.
- 4 I.M. Case #272.
- 5 I.M. Case #273.
- 6 I.M. Case #274.
- 7 I.M. Case #275.
- 8 I.M. Case #276.
- 9 I.M. Case #277.

**Box 170:** "I.M." Series Numbers IM-278 to IM-298

- 1 I.M. Case #278.
- 2 I.M. Case #279.
- 3 I.M. Case #280.
- 4 I.M. Case #281.
- 5 I.M. Case #282.
- 6 I.M. Case #283.
- 7 I.M. Case #284.
- 8 I.M. Case #285.
- 9 I.M. Case #286. (empty)
- 10 I.M. Case #287.
- 11 I.M. Case #288.
- 12 I.M. Case #289.
- 13 I.M. Case #290.
- 14 I.M. Case #291.
- 15 I.M. Case #292.
- 16 I.M. Case #293.
- 17 I.M. Case #294.



- 18 I.M. Case #295.
- 19 I.M. Case #296.
- 20 I.M. Case #297.
- 21 I.M. Case #298.

**Box 171:** "I.M." Series Numbers IM-299 to IM-310

- 1 I.M. Case #299.
- 2 I.M. Case #300.
- 3 I.M. Case #301.
- 4 I.M. Case #302.
- 5 I.M. Case #303.
- 6 I.M. Case #306.
- 7 I.M. Case #307.
- 8 I.M. Case #308.
- 9 I.M. Case #309.
- 10 I.M. Case #310.

**Box 172:** "I.M." Series Numbers IM-311 to IM-329

- 1 I.M. Case #311.
- 2 I.M. Case #312.
- 3 I.M. Case #313.
- 4 I.M. Case #314.
- 5 I.M. Case #315.
- 6 I.M. Case #316.
- 7 I.M. Case #317.
- 8 I.M. Case #318.
- 9 I.M. Case #318.
- 10 I.M. Case #318.
- 11 I.M. Case #318.
- 12 I.M. Case #318.
- 13 I.M. Case #318.
- 14 I.M. Case #319.
- 15 I.M. Case #320.
- 16 I.M. Case #321.
- 17 I.M. Case #322.
- 18 I.M. Case #323.
- 19 I.M. Case #324.
- 20 I.M. Case #325.
- 22 I.M. Case #326.
- 23 I.M. Case #327.
- 23 I.M. Case #328.
- 24 I.M. Case #329.

**Box 173:** "I.M." Series Numbers IM-331 to IM-361

- 1 I.M. Case #331.



- 2 I.M. Case #332.
- 3 I.M. Case #333.
- 4 I.M. Case #334.
- 5 I.M. Case #335.
- 6 I.M. Case #336.
- 7 I.M. Case #337.
- 8 I.M. Case #338.
- 9 I.M. Case #339.
- 10 I.M. Case #340.
- 11 I.M. Case #341.
- 12 I.M. Case #342.
- 13 I.M. Case #343.
- 14 I.M. Case #344.
- 15 I.M. Case #345.
- 16 I.M. Case #346. (empty)
- 17 I.M. Case #347.
- 18 I.M. Case #348.
- 19 I.M. Case #349.
- 20 I.M. Case #350.
- 21 I.M. Case #351.
- 22 I.M. Case #352.
- 23 I.M. Case #353.
- 24 I.M. Case #354.
- 25 I.M. Case #355.
- 26 I.M. Case #356.
- 27 I.M. Case #357.
- 28 I.M. Case #358.
- 29 I.M. Case #359.
- 30 I.M. Case #360.
- 31 I.M. Case #361.

**Box 174:** "I.M." Series Numbers IM-362 to IM-383

- 1 I.M. Case #362.
- 2 I.M. Case #363.
- 3 I.M. Case #364.
- 4 I.M. Case #365.
- 5 I.M. Case #366.
- 6 I.M. Case #367.
- 7 I.M. Case #368.
- 8 I.M. Case #369.
- 9 I.M. Case #370.
- 10 I.M. Case #371.
- 11 I.M. Case #372.
- 12 I.M. Case #373.
- 13 I.M. Case #374.
- 14 I.M. Case #375.
- 15 I.M. Case #376.



- 16 I.M. Case #377.
- 17 I.M. Case #378.
- 18 I.M. Case #379. (empty)
- 19 I.M. Case #381.i
- 20 I.M. Case #382.
- 21 I.M. Case #383.

**Box 175:** "I.M." Series Numbers IM-384 to IM-414

- 1 I.M. Case #384.
- 2 I.M. Case #385.
- 3 I.M. Case #386.
- 4 I.M. Case #387.
- 5 I.M. Case #388.
- 6 I.M. Case #389.
- 7 I.M. Case #390.
- 8 I.M. Case #391.
- 9 I.M. Case #392.
- 10 I.M. Case #393.
- 11 I.M. Case #394.
- 12 I.M. Case #395.
- 13 I.M. Case #396.
- 14 I.M. Case #397.
- 15 I.M. Case #398.
- 16 I.M. Case #399.
- 17 I.M. Case #400.
- 18 I.M. Case #401.
- 19 I.M. Case #402.
- 20 I.M. Case #403.
- 21 I.M. Case #404.
- 22 I.M. Case #405.
- 23 I.M. Case #406.
- 24 I.M. Case #407.
- 25 I.M. Case #408.
- 26 I.M. Case #409.
- 27 I.M. Case #410.
- 28 I.M. Case #411.
- 29 I.M. Case #412.
- 30 I.M. Case #414.

**Box 176:** "I.M." Series Numbers IM-415 to IM-458

- 1 I.M. Case #415.
- 2 I.M. Case #416.
- 3 I.M. Case #417.
- 4 I.M. Case #418.
- 5 I.M. Case #419.
- 6 I.M. Case #420.



- 7 I.M. Case #421.
- 8 I.M. Case #422.
- 9 I.M. Case #423.
- 10 I.M. Case #424.
- 11 I.M. Case #425. (empty)
- 12 I.M. Case #426.
- 13 I.M. Case #427.
- 14 I.M. Case #428.
- 15 I.M. Case #429.
- 16 I.M. Case #430.
- 17 I.M. Case #431.
- 18 I.M. Case #433.
- 19 I.M. Case #434.
- 20 I.M. Case #435.
- 21 I.M. Case #436.
- 22 I.M. Case #437.
- 23 I.M. Case #438.
- 24 I.M. Case #439.
- 25 I.M. Case #440.
- 26 I.M. Case #441.
- 27 I.M. Case #442.
- 28 I.M. Case #443.
- 29 I.M. Case #444.
- 30 I.M. Case #445.
- 31 I.M. Case #447.
- 32 I.M. Case #448.
- 33 I.M. Case #449.
- 34 I.M. Case #450.
- 35 I.M. Case #451.
- 36 I.M. Case #452.
- 37 I.M. Case #453.
- 38 I.M. Case #454.
- 39 I.M. Case #455.
- 40 I.M. Case #456.
- 41 I.M. Case #457.
- 42 I.M. Case #458.
- 43 I.M. Case #459.

**Box 177:** "I.M." Series Numbers IM-460 to IM-483

- 1 I.M. Case #460.
- 2 I.M. Case #461.
- 3 I.M. Case #462.
- 4 I.M. Case #463.
- 5 I.M. Case #464.
- 6 I.M. Case #465.
- 7 I.M. Case #466.
- 8 I.M. Case #467.



- 9 I.M. Case #468.
- 10 I.M. Case #470.
- 11 I.M. Case #472.
- 12 I.M. Case #473.
- 13 I.M. Case #474.
- 14 I.M. Case #475.
- 15 I.M. Case #476.
- 16 I.M. Case #477.
- 17 I.M. Case #478.
- 18 I.M. Case #479.
- 19 I.M. Case #480.
- 20 I.M. Case #481.
- 21 I.M. Case #482.
- 22 I.M. Case #483.
- 23 I.M. Case #485.

**Box 178:** "I.M." Series Numbers IM-486 to IM-513

- 1 I.M. Case #486.
- 2 I.M. Case #487.
- 3 I.M. Case #488.
- 4 I.M. Case #489.
- 5 I.M. Case #490.
- 6 I.M. Case #491.
- 7 I.M. Case #492.
- 8 I.M. Case #493.
- 9 I.M. Case #494.
- 10 I.M. Case #495.
- 11 I.M. Case #496.
- 12 I.M. Case #498.
- 13 I.M. Case #499.
- 14 I.M. Case #500.
- 15 I.M. Case #501.
- 16 I.M. Case #502.
- 17 I.M. Case #503.
- 18 I.M. Case #504.
- 19 I.M. Case #505.
- 20 I.M. Case #506.
- 21 I.M. Case #507.
- 22 I.M. Case #508.
- 23 I.M. Case #509.
- 24 I.M. Case #510.
- 25 I.M. Case #511.
- 26 I.M. Case #512.
- 27 I.M. Case #513.

**Box 179:** "I.M." Series Numbers IM-514 to IM-543



- 1 I.M. Case #514.
- 2 I.M. Case #515.
- 3 I.M. Case #517.
- 4 I.M. Case #518.
- 5 I.M. Case #519.
- 6 I.M. Case #520.
- 7 I.M. Case #521.
- 8 I.M. Case #522.
- 9 I.M. Case #524. (empty)
- 10 I.M. Case #525.
- 11 I.M. Case #526.
- 12 I.M. Case #527.
- 13 I.M. Case #528.
- 14 I.M. Case #529.
- 15 I.M. Case #530.
- 16 I.M. Case #531.
- 17 I.M. Case #532.
- 18 I.M. Case #533.
- 19 I.M. Case #534.
- 20 I.M. Case #535.
- 21 I.M. Case #536.
- 22 I.M. Case #537.
- 23 I.M. Case #538. (empty)
- 24 I.M. Case #539.
- 25 I.M. Case #540.
- 26 I.M. Case #542.
- 27 I.M. Case #543.

**Box 180:** "I.M." Series Numbers IM-544 to IM-554

- 1 I.M. Case #544.
- 2 I.M. Case #545.
- 3 I.M. Case #546.
- 4 I.M. Case #547.
- 5 I.M. Case #548.
- 6 I.M. Case #549.
- 7 I.M. Case #550.
- 8 I.M. Case #551.
- 9 I.M. Case #552.
- 10 I.M. Case #553.
- 11 I.M. Case #554.

**Box 181:** "I.M." Series Numbers IM-555 to IM-583

- 1 I.M. Case #555.
- 2 I.M. Case #556.
- 3 I.M. Case #557.
- 4 I.M. Case #558.





- 5 I.M. Case #559.
- 6 I.M. Case #560.
- 7 I.M. Case #561.
- 8 I.M. Case #562.
- 9 I.M. Case #563.
- 10 I.M. Case #565.
- 11 I.M. Case #567.
- 12 I.M. Case #568.
- 13 I.M. Case #569.
- 14 I.M. Case #570.
- 15 I.M. Case #571.
- 16 I.M. Case #572.
- 17 I.M. Case #573.
- 17a I.M. Case #574.
- 18 I.M. Case #575.
- 19 I.M. Case #577. (empty)
- 20 I.M. Case #578. (empty)
- 21 I.M. Case #579. (empty)
- 22 I.M. Case #580.
- 23 I.M. Case #581.
- 24 I.M. Case #582.
- 25 I.M. Case #583.

**Box 182:** "I.M." Series Numbers IM-584 to 596

- 1 I.M. Case #584.
- 2 I.M. Case #585.
- 3 I.M. Case #586.
- 4 I.M. Case #587.
- 5 I.M. Case #588.
- 6 I.M. Case #589.
- 7 I.M. Case #590.
- 8 I.M. Case #591.
- 9 I.M. Case #592.
- 10 I.M. Case #593.
- 11 I.M. Case #594.
- 12 I.M. Case #595.
- 13 I.M. Case #596.

**Box 183:** "I.M." Series Numbers IM-597 to IM-621

- 1 I.M. Case #597.
- 2 I.M. Case #598.
- 3 I.M. Case #599.
- 4 I.M. Case #600.
- 5 I.M. Case #602.
- 6 I.M. Case #603.
- 7 I.M. Case #604.



- 8 I.M. Case #605.
- 9 I.M. Case #606.
- 10 I.M. Case #607.
- 11 I.M. Case #608.
- 12 I.M. Case #609.
- 13 I.M. Case #610.
- 14 I.M. Case #611.
- 15 I.M. Case #612.
- 16 I.M. Case #614.
- 17 I.M. Case #615.
- 18 I.M. Case #616.
- 19 I.M. Case #617.
- 20 I.M. Case #618.
- 21 I.M. Case #619.
- 22 I.M. Case #620.
- 23 I.M. Case #621.
- 24 I.M. Case #622.

**Box 183A:** "I.M." Series Numbers IM-623 to IM-645

- 1 I.M. Case #623.
- 2 I.M. Case #624.
- 3 I.M. Case #625.
- 4 I.M. Case #626.
- 5 I.M. Case #627.
- 6 I.M. Case #628.
- 7 I.M. Case #629.
- 8 I.M. Case #630.
- 9 I.M. Case #631.
- 10 I.M. Case #632.
- 11 I.M. Case #633.
- 12 I.M. Case #634.
- 13 I.M. Case #635.
- 14 I.M. Case #636.
- 15 I.M. Case #638.
- 16 I.M. Case #639.
- 17 I.M. Case #640.
- 18 I.M. Case #641.
- 19 I.M. Case #642.
- 20 I.M. Case #643.
- 21 I.M. Case #644.
- 22 I.M. Case #645.

**Box 183B:** "I.M." Series Numbers IM-646 to IM-669

- 1 I.M. Case #646.
- 2 I.M. Case #648 and 649.
- 3 I.M. Case #650.



- 4 I.M. Case #651.
- 5 I.M. Case #652.
- 6 I.M. Case #653.
- 7 I.M. Case #654.
- 8 I.M. Case #655.
- 9 I.M. Case #656.
- 10 I.M. Case #657.
- 11 I.M. Case #658.
- 12 I.M. Case #659.
- 13 I.M. Case #660.
- 14 I.M. Case #661.
- 15 I.M. Case #662.
- 16 I.M. Case #663.
- 17 I.M. Case #664.
- 18 I.M. Case #665.
- 19 I.M. Case #666.
- 20 I.M. Case #667.
- 21 I.M. Case #668.
- 22 I.M. Case #669.

**Box 184:** Industrial Medicine “I.M.” series microscope slides from the Wayne State University School of Industrial Medicine and Hygiene 1954-1967 (arranged numerically in twenty Boxes. See Box 202a for miscellaneous IM- series numbers). Note – ( ) = separate Box within larger Box. 20 Boxes—Box 184 contains:

(IM-1, 7, 12); (IM-7, 14, 15, 23, 35, 36, 45); (IM-14-16); (IM-23, 30, 32); (IM-35-36, 39)

**Box 185:**

(IM-42-43); (IM-45-46, 48-49); (IM-50, 56, 64); (IM-68); (IM-72); (IM-79)

**Box 186:**

(IM-50, 56, 72, 88, 93); (IM-81-82); (IM-83, 88, 93); (IM-94, 95, 103, 105, 109, 132); (IM-138)

**Box 187:**

(IM-103, 129); (IM-139, 141); (IM-144-148, 160); (IM-144, 146)

**Box 188:**

(IM-147); (IM-147 Cont.); (IM-148); (IM-162, 165); (IM-160, 162, 164)

**Box 189:**

(IM-165-167); (IM-184); (IM-184 Cont., IM-192, 196); (IM-190-191); (IM-192);

**Box 190:**



(IM-192 Cont.); (IM-203, 207); (IM-196, 197, 198, 201); (IM-203 Cont., IM-207 #5); (IM-207 #1-3)

**Box 191:**

(IM-207 #5 Cont. IM-262); (IM-207 Cont., IM-209, 211); (IM-212, 214, 219); (IM-227); (IM-228)

**Box 192:**

(IM-237-238, 241, 243); (IM-244); (IM-250); (IM-251-258); (IM-262-277); (IM-266-308)

**Box 193:**

(IM-278-286); (IM-287-297); (IM-298-310); (IM-309-377); (IM-311-314)

**Box 194:**

(IM-315-320); (IM-324-344); (IM-344 Cont., IM-345); (IM-345 Cont., IM-346-357); (IM-362-363); (IM-363 Cont., IM-364-374)

**Box 195:**

(IM-377); (IM-381-384); (IM-384 Cont., IM-385-400); (IM-381-384, IM-385-394 Cont.); (IM-396-398 Cont.)

**Box 196:**

(IM-398-400 Cont.); (IM-401-426); (IM-400 unstained) (IM-403-426 Cont., IM-427); (IM-432-445)

**Box 197:**

(IM-448-454); (IM-448-450 unstained); (IM-455-469); (IM-451-454, 457, 490 unstained); (IM-474-475); (IM-486-490)

**Box 198:**

(IM-491, 497-498, 501, 502); (IM-503, 507); (IM-504-507 Cont.); (IM-510, 515); (IM-518 Box-1)

**Box 199:**

(IM-518 Cont., IM-519-520); (IM-518-520 Cont., IM-521-565); (IM-527 and 531 Cont.); (IM-534-545 Cont.); (IM-546 and 563 Cont.)

**Box 200:**

(IM-564-565 Cont., IM-566-567); (IM-565-567 Cont., IM-568-591); (IM-571 and 572 Cont.); (IM-577-581 Cont., IM-583 Cont.); (IM-571-574 Cont.)



**Box 201:**

(IM-591 Cont.); (IM-591 Cont., IM-592-603); (IM-592-593 Cont.); (IM-595-596 Cont.) (IM-598-603 Cont. "No Good")

**Box 202:**

(IM-603 Box-1); (IM-603 Cont. IM-604-636); (IM-637-669)

**Box 202a:**

IM-68-1; IM-68-9; IM-68-10; IM-68-11; IM-68-12; IM-79-2; IM-79-3; IM-79-7; IM-81-1; IM-81-3; IM-82-3; IM-94-3; IM-94-4; IM-94-5; IM-94-7; IM-94-8; IM-94-10; IM-94-12; IM-94-15; IM-133; IM-134; IM-141-3; IM-459; unidentified.

**Box 203:** Industrial Medicine "I.M." series lantern slides from the Wayne State University School of Industrial Medicine and Hygiene 1954-1967 (arranged numerically in seven Boxes)

IM-5; IM-15; IM-35-36; IM-44-46; IM-50; IM-53-54; IM-68; IM-72; IM-79

**Box 203a:**

IM-81-82; IM-88; IM-94; IM-129; IM-133-143; IM-138-139; IM-141; IM-144; IM-146

**Box 204:**

IM-147-148; IM-160; IM-162

**Box 205:**

IM-165; IM-167; IM-185-189; IM-191-192; IM-198; IM-201; IM-203; IM-207; IM-212; IM-250

**Box 206:**

IM-251; IM-262; IM-297; IM-306; IM-309; IM-312-313; IM-315; IM-344; IM-374; IM-395-400; IM-403-404; IM-460

**Box 207:**

IM-507; IM-518; IM-591; IM-595-596; IM-603

**Box 208:**

Miscellaneous lantern slides from "I.M." Series

**Box 209:** Industrial Medicine "I.M." series paraffin blocks from the Wayne State University School of Industrial Medicine and Hygiene 1954-1967: Collected Tissue Samples of Industrial Medicine Cases of the School of Industrial Medicine and Hygiene, Wayne State



University. Preserved by embedding in paraffin blocks packaged in small Boxes (arranged numerically in eleven Boxes).

IM-14 to 23; IM-23 Cont. to 46

**Box 210:**

IM-50 to 56; IM-68 (1) to 68 (15)

**Box 211:**

IM-72 (1) to 72 (13); IM-83; IM-88; IM-93; and IM-79

**Box 212:**

IM-81 to 82; IM-94; and IM-105

**Box 213:**

IM-129; IM-133; IM-134; IM-139; IM-141; IM 144; IM-146 to 148

**Box 214:**

IM-160 to 192; IM-196 to 228

**Box 215:**

IM-237 to 253; IM-258 to 313

**Box 216:**

IM-315 to 384; IM-395 to 399

**Box 217:**

IM-400 to 447; IM-448 to 518

**Box 218:**

IM-524 to 591 (6); IM-591 (7) to 603

**Box 219:**

IM-603 Cont. to 668 (“EHL-Lantern Blocks”)

**Box 220:** Industrial Medicine “I.M.” Series x-rays from the Wayne State University of Industrial Medicine and Hygiene: Collected x-rays of some of the Industrial Medicine “I.M.” Series clinical cases studied by Dr. Vorwald while at Wayne State University’s



Medical School (arranged numerically in twenty-one Boxes).

I.M.-2, 3, 4(2), 31, 34, 41, 53, 68

**Box 221:**

I.M.-70, 72, 74, 79, 80, 81, 82(2), 84, 87

**Box 222:**

I.M.-89, 94, 100, 101, 102, 107, 108, 128, 130

**Box 223:**

I.M.-135, 137, 139, 140(2), 148

**Box 224:**

I.M.-149, 158, 166, 167(2), 174, 176, 190, 194, 210

**Box 225:**

I.M.-216, 224, 225, 231, 235, 237

**Box 226:**

I.M.-247, 248, 249, 252, 254, 256, 269, 270, 271, 273, 274

**Box 227:**

I.M.-275, 278, 280, 281, 283, 284, 287

**Box 228:**

I.M.-295, 308, 310, 312(2)

**Box 229:**

I.M.-313, 324, 326, 329, 334, 335, 336, 339

**Box 230:**

I.M.-351, 356, 358, 360, 366, 367, 368, 369, 370

**Box 231:**

I.M.-376, 378, 381, 382, 383, 385, 388, 389, 390



**Box 232:**

I.M.-394, 405, 412, 421, 422, 426

**Box 233:**

I.M.-429, 433, 434, 437, 445, 460, 461, 464, 467(2)

**Box 234:**

I.M.-480, 481, 486, 487, 490, 494, 498, 509

**Box 235:**

I.M.-510, 512, 513

**Box 236:**

I.M.-514, 517(2), 521, 522, 536, 539, 540, 547

**Box 237:**

I.M.-548, 549, 550, 553, 554, 557, 558, 559

**Box 238:**

I.M.-568, 569, 571, 573, 575, 581, 586, 608, 609, 614, 618

**Box 239:**

I.M.-619, 621, 629, 641, 642(3), 643, 644, 650, 656(2)

**Box 240:**

I.M.-660, 663, 664, 665, 666

**Box 240a:**

- Case books (handwritten ledgers), "I.M." Series
- I.M. 1-575 (includes log of films, correspondence, and other items mailed out)
- I.M. 576-670
- Photo logbook of I.M. cases
- Microscopic logbook

**Box 241:**

Miscellaneous clinical patient records of the Saranac Laboratory Pneumoconiosis "P" Series and Industrial Medicine "I.M." Series: Miscellaneous correspondence, autopsy protocols, and clinical case





history synopses of patient clinical cases observed at the Saranac Laboratory (1931-1954) and the Wayne State University School of Industrial Medicine and Hygiene (arranged roughly by subject in four Boxes).

Several Pneumoconiosis "P" Series cases; notes on Buffalo, New York meeting with Republic Steel Corp. Officials (1949); Manuscript of California Lectures on Pneumoconiosis; Various manuscripts on other lectures delivered by Dr. Vorwald on Pneumoconiosis; Manuscript of William Beaumont Annual Lecture delivered by Dr. Vorwald; Correspondence indicating names of patients; patient records of diatomaceous earth clinical cases.

**Box 242:**

Lists of autopsies conducted at the Saranac Laboratory (1920s to 1950s); lists of slides; lists of experiments; monograph on human clinical cases from Diatomaceous Earth Project conducted for the Johns-Manville Corporation Lompoc, California Facility.

**Box 243:**

Asbury Graphite Mills clinical patient cases from the Graphite Study, Wayne State University; Clinical cases of Shaver's Disease; file on the correlation of x-ray findings and cavity wall (lung); file on "Reaction of Pulmonary to Lipidol."

**Box 244:**

Clinical Patient Synopses of Pneumoconiosis "P" Series Cases (Miscellaneous); clinical patient synopses of industrial medicine "I.M." Series cases; clinical patient synopses of diatomaceous earth cases; dry lung tissue mounts.

NOTE--These materials were singularly transferred from various Boxes in the General Collections to comply with concerns relating to the Privacy Act by the JAGC, Department of the Army in 1984. The Material was not interleaved back into the Patient Files ("P" or "I.M.") because it was unsure as to whether the records ultimately belonged in those groups or had been retained separately by Dr. Vorwald for some not immediately apparent reason.

**Box 245:**

6 Boxes (a-f) of AFIP miscellaneous lantern slides from the Saranac Laboratory and the Wayne State University School of Industrial Hygiene and Medicine: These slides were used for teaching/education courses by Dr. Vorwald (arranged in four Boxes);

Miscellaneous microscope slides from the Saranac Laboratory pneumoconiosis "P" series and the Wayne State University School of Industrial Medicine and Hygiene "I.M." series: These slides were utilized by the AFIP Pulmonary Pathology Department Study of Pulmonary Diseases (1979-1980). Cut from paraffin blocks in the collection by members of the Department of Pathology; AFIP miscellaneous microscope slides from the Saranac Laboratory and the Wayne State University School of Industrial Hygiene and Medicine: approximately 500 microscope slides of various human/animal cases.



**Box 246:**

Miscellaneous x-rays from the Saranac Laboratory (arranged in five related units):

- Rabbit Project
- Bone Charcoal Experiments
- Patient (No Number)
- Patient P-496
- Patient (No Number)

**Box 247-249:**

Hard copy of the 1983 Department of Justice microfilm project: Hard copy pages of clinical case records of the Vorwald Collection; including Pneumoconiosis and "I.M." Series files (arranged numerically by case number in three Boxes).

**Box 250-251:**

Microfilm from the 1983 Department of Justice microfilm project: Microfilm rolls containing clinical records of the Vorwald Collection; including Pneumoconiosis and "I.M." Series files (arranged numerically by case number on five rolls in two Boxes). Rolls 1-5

**Box 251a:**

"Public" group of microfilm reels from the Department of Justice.  
Silver microfilm reels, numbers VCW001-VCW030.

**Box 251b:**

"Non-public" group of microfilm reels from the Department of Justice.  
Silver microfilm reels, numbers VCW031-VCW059.

**Box 252a:**

- Colored medical illustrations, Rabbit, Plates 1-6, by A.J. Vorwald, University of Chicago
- Colored medical illustration, TB Rat + Glycerin, by A.J. Vorwald
- Negatives: Charts, Nuclear Biochemistry – RNA (63-355)
- Photographs (copyright unknown):
- Spinning machine unprotected by modern exhaust apparatus
- Drilling with local exhaust and portable settling chamber
- Granite cutting and finishing sheds: carborundum saws cutting flutes in column. These saws are operated wet and the amount of dust the operator is exposed to is relatively low.
- Granite Quarries: Leyner bar operator drilling with dust control
- Surfacing machine in granite industry with exhaust in operation
- Granite Quarries: Leyner bar operator drilling without dust control
- Foundry shakeout without exhaust
- Granite Quarries: jackhammer operator drilling without dust control
- Drilling without exhaust



- Granite Quarries: Leyner bar operator drilling with dust control. The hood is of the split cover type designed, particularly for Leyner drilling, with a suction of 400 cubic feet per minute. Dust count tests show results well below the permissible limit of ten million particles per cubic foot of air.
- Granite Quarries: Leyner bar operator drilling without dust control. Sometimes several machines are set up in one corner of the quarry. The photograph illustrates the resulting dust conditions. Figure 6.
- Granite cutting and finishing sheds. Pneumatic hand tool operator using exhaust hood on vertical face of stone. The hoods are connected to the main branch by flexible rubber hose and supported by a friction rod arrangement, making it possible for the cutter to set the hood in any desired position.
- Granite surfacing, exhaust not in operation. Greenburg [?]. No. 2.
- Granite quarries: two Leyner bar operators drilling without dust control. The dust from the Leyner bar in the lower part of the picture is rising to the level of the other Leyner bar operator's section. Fig 5.
- Granite quarries. General scene in "quarry hole." Arrow indicates dust control unit being installed for the control of dust at Leyner drill.
- Granite quarries. Plug driller in surface yard drilling without dust control.
- Granite quarries. Leyner bar operator broaching.
- Granite cutting and finishing sheds. Exhaust system for pneumatic hand tools or bankers.
- Old method of storing siliceous materials in open bins. (A)
- Shakeout in foundry grid with exhaust. (Small bench molding.) Greenburg. 4.
- Granite Quarries: general quarry scene. 1) Leyner bar operators drilling; 2) Leyner bar operators broaching; 3) foreman; 4) pumpman; 5) derrickman; 6) laborers; 7) grouter
- Sand blasting. Greenburg. 1.
- Foundry. General view showing flasks, etc. Greenburg. 5.
- Same view of hopper – valve as in "E" showing free flow of smoke on removal of ball from "poke-hole." 1026. Carnegie-Illinois Steel Corp, Metallurgical Department, Youngstown, Ohio. Aug 11, 1950. F.
- Modern method of transporting silica sand. B.
- Granite surfacing with exhaust in operation. Same shop, same operator. Same operation as in No. 1. Greenburg. A=Hood. B. No. 3.
- Granite Quarries. Leyner bar drilling blast holes horizontally into the face of the stone. Fig. 8.
- Granite cutting and finishing sheds. Polishing machine. The abrasives used are tin oxide, carborundum, steel shot and emery. Page 13.
- Transporting silica sand by wheelbarrow. (A)
- Asbestos industry. A) weighing and storing fiber in bins with exhaust protection.
- Granite Quarries. General scene in quarry hole. Several dust control units are being installed for dust control at Leyner drills. Note in the lower right the large blocks of granite separated from the main body. Fig. 3.
- View of coal bins above gas producers showing dry coal in bins. Black smoke in foreground. Amber smoke in left center. Black smoke in center background. Carnegie-Illinois Steel Corp, Metallurgical Department, Youngstown, Ohio. Aug 11, 1950. 1026. D.
- View of hopper-valve at work floor level below coal storage bins and above gas producer. Shows man "poking down" the fire with vari-colored smoke emanating from the poke-hole. Hole sealed with ball when not "poking down" the fire. Carnegie-Illinois Steel Corp, Metallurgical Department, Youngstown, Ohio. Aug 11, 1950. 1026. E.



- Foundry shake-out with exhaust. (B).
- Animal x-ray. TB Ther. Exp.
- Celloidin cast of a control, untreated perfused lung; cast of lung which showed spontaneous bronchoconstriction; cast of perfused lung treated 6 minutes previously with 3.4 mg. of colloidal silica.
- Hi-Sill (50,000X) (G-ELE-11).
- Chamber for exposing animals.
- Picker machine. Effect without dust control.
- Illustration, unknown subject.
- Illustration. Sketch of larger particles of silica isolated from Silicotic lung, X1000.

#### **Box 252b:**

- Silicosis. Mounted x-rays with captions.
- Silicosis #1: Normal thorax
- Silicosis #2: Slight increase in linear radiation
- Silicosis #3: Slight increase in linear radiation partly infective in type
- Silicosis #4: Moderate increase in linear radiation
- Silicosis #5: Moderate increase in linear radiation partly infective in type
- Silicosis #6: Generalized arborization
- Silicosis #7: Generalized arborization partly infective in type
- Silicosis #8: Generalized arborization with partial small mottling (left)
- Silicosis #9: Generalized arborization with partial small mottling suggestive tuberculosis (right)
- Silicosis #10: Generalized small mottling
- Silicosis #11: Generalized small mottling partly infective in type
- Silicosis #12: Generalized small mottling with diffuse opacity right lower zone. Apparently T.B.C.
- Silicosis #13: Generalized medium mottling
- Silicosis #14: Generalized medium mottling partly infective in type
- Silicosis #15: Generalized medium mottling with large diffuse opacity right upper due apparently to T.B.C.
- Silicosis #16: Generalized large mottling
- Silicosis #17: Generalized large mottling partly infective in type
- Silicosis #18: Generalized large mottling with apparently definite T.B.C.
- Silicosis #21: Chronic tuberculo silicosis. Remained unchanged for 8 years. Localized consolidation upper. No activity. In good health. Mine official age 54; 17½ years service
- Silicosis #24: Chest of average industrial worker. Man, aged 30 no symptoms, and is considered a normal worker
- Silicosis #25: Acute silicosis resulting from 14 months in tunnel construction, breathing fine sandstone dust (10/27/1950)
- Silicosis #26: Chronic silicosis due to breathing fine mineral dust. Sandblaster for 4 years. Complaint cough and shortness of breath
- Silicosis #27: Silicosis and tuberculosis also aneurism of aorta, probably due to syphilis. Silicosis is in 2<sup>nd</sup> stage
- Tissue sample on paper: Pyrophyllitpneumoconiosis [Pyrophyllite pneumoconiosis?] (aluminum silicate pneumoconiosis)
- X-ray: 3 years sandblasting and 18 years no exposure



- X-rays and other transparencies from Box labeled: Silicosis Display Cabinet

**Box 252c:**

- Photographs. (Mostly copies of History of Medicine images (paintings, illustrations, sculptures, etc.) copied from other sources. Most folders include an 8x10 print, a lantern slide, 35mm slide, and 4x5 negative. In many cases the title of the work is unknown and it is listed below as a description.)
- Handwritten description of Vorwald's History of Medicine collection (approximately 280 objects), by Dr. Edward Riolute, Associate Director, Armed Forces Medical Museum, 10/4/83
- Die Zwei Artze, Honoré Daumier, 1808-1879
- Medicale, no artist noted
- Tout ce Qu'on Voudra, Martinet
- Der Arzt Heilt Sich Selbst, H.M. Bateman
- Christ Healing the Sick, Rembrandt
- St. Nilus and St. Bartholomew Curing an Obsessed, Domenchina
- Coney Island, Cudmus
- Vesal's Anatomie in einem Stilleben, Gerard Dou
- Dr. Gachet
- The Transfiguration (detail), Raphael
- From Cerebri Anatome, Thomas Willis, 1622-1675, plates by Christopher Wren
- Measurements of the Human Head, Windsor Library
- Old Man and Boy, hypertrophic actare, Ghirlandaio
- The Holy Family, unknown artist
- Surgery [operating room], 1950
- Der Arzt zu Hause, von Austade, 1665
- Smallpox scars
- Still life, artist unknown
- Masks of Expression – "Effort"
- Masks of Expression – "Fatigue and Exhaustion"
- Masks of Expression – "Breathless"
- Archduke Ferdinand of Austria, Schoen, 1277
- Drawings by an Epileptic and an Alcoholic, ca 1950
- Worker, Allbright, 1936
- Soldier Wounded at Waterloo, Sir Charles Bell, 1774-1842
- Napoleon in Pest Hospital in Jaffa, von Gros, 1804
- The Reward of Cruelty, Hogarth
- Anatomy of Human Body, Vesalius
- Trudeau Memorial, New York
- Gifts for the Doctor, German cartoon
- The Clubfoot Boy, Ribera, 1588-1656
- Operation (surgery)
- Foot surgery
- Childbirth
- St. Elizabeth Curing the Lepers, Holbein
- Examining a patient



- The Anatomy Lesson, Rembrandt
- The Death of Seneca, Rubens, 1577
- Examining a woman
- Childbirth?
- Tertia Musculorum Tabula
- Earliest known print of human skeleton, Nuremberg, 1493. The figure is associated with Richard Herlain.
- Sketch of Lungs and Heart, showing Pleural Cavities, Leonardo
- Skeleton from a drawing, 1323 – manuscript in the Royal Library at Dresden
- Anatomical drawing
- Drawings of the arm by Leonardo
- Childbirth?
- Conference of Physicians, Hogarth, 1647-1764
- Lovesick Maiden, Jan Steen, 1620-1682
- Dentist, German cartoon
- Madness of the Rake, Hogarth
- Group observing a person on the ground
- Landscape
- Drawings by a schizophrenic and a mental defective, 1950
- Man without skin (statue)
- J.P. Morgan, Rivera
- Jean Martin Charcot
- Le Médecine Hydropathe
- Bookplates of famous doctors
- Der Doktor und Sein Kind Lustige Blatter, Feininger
- Seymour Haden at age 62
- Woolsey's Mill, near Yarmouth, from a pencil sketch by Paget, 1814-1899
- Landscape, Banting
- Max Brodel
- Virchow?
- Right Arm Dissected, drawn by M.H. at the College
- Skull with muscles, Thomas
- Famine?
- Bitter Arznei, Brouwer
- Duodenal Ulcer, Tom Jones
- Dissection scene from Fasciculo di Medicina, 1493
- Doctor to the Dissection
- Madonna and Child
- Dissection of Europe, 1930-1940 (political cartoon)
- The Gross Clinic, Eakins
- Slave, Michelangelo
- Measurements of the Human Body [Vitruvian Man], da Vinci
- Antike Bronze
- Painting of water and dam
- Painting of a woman
- Insanity? (painting of a person holding a flower)



- Procession of Cripples, Bosch
- Virgin and Child, by a follower of Roger van der Weyden
- Die Auditorium Welferianum...
- Jenner Vaccinating His Own Child
- Achilles Binds the Wounds of Patroclus (from an Etruscan vase)
- Birth of a baby, 1950
- Painting of a bridge
- Lit de Misere, Bosse, 1632-1676
- Sculptures, James de Berty Trudeau
- Bones of the Leg, M.H., 1914
- Portrait of the Painter, artist unknown
- Mental Illness (old drawing)
- Painting of woman washing another's hair over a basin
- Der Scharlartain
- Relief sculpture, Greek?
- Operation of the arm
- The Apothecary Shop
- Childbirth, quadruplets?
- Early American, Potts' Disease
- Two unidentified cassette tapes

**Box 253:** Three notebooks

- RESTRICTED "Surgical Specimens Post-Chemotherapy:" drafts of various papers; 1) "Materials and Methods for Use of SiO<sub>2</sub> (quartz) in Challenging the Viability of Tubercle Bacilli in Resected Tuberculous Lesions Following Chemotherapy ;" 2) "Conservative Pulmonary Resection with Prolonged Combined Therapy: the Current Status of the Sunmount Study," (Decker, Lee, D'Esopo, Lucas); 3) "Procedure for Inoculating Material Obtained from Resected Pulmonary Tuberculous Tissue into Guinea Pigs with and without Quartz Particles;" agenda of staff conference at the Trudeau Sanatorium, April 20, 1953; newspaper clipping "Some Bacteria Only Play Dead;" documents on quartz dust; transcript of panel discussion "Survival and Revival of Tubercle Bacilli in Healed Tuberculous Lesions," National Tuberculosis Association, May 1953; Surgical Pathological Memos from Saranac Laboratory
- RESTRICTED "Pneumoconiosis – X-Rays, Charts, Statistics:" charts, case histories, photographs, and x-rays on pneumoconiosis and siderosis.
- RESTRICTED "Physiology – X-Rays, Charts, etc.," of patients with Granulomatosis, asbestosis, and emphysema.

**Box 254:** Notebook

- RESTRICTED "Beryllium – Photographs, Tissue Sections, Animals, Humans." X-rays and photomicrographs.

**Box 255:**

- 3-drawer metal cabinet. Lantern slides of veterinary and human subjects.



**Box 256:**

- Working copy of original finding aid

**OVERSIZED: \*\*STORED IN MAP CASE 16, DRAWER 4\*\***

- Certificate for attendance at the Bikini Lagoon, Marshall Islands Atomic Bomb Test, July 1, 1946
- Certificate from the Sociedad Peruana de Tisiologia to Vorwald, March 11, 1953