

26/20/19

Alumni Association

Alumni

Charles H. Spaulding Papers, 1908-19, 1923, 1926-68

Box 1:

Biographical Material, 1917, 1923, 1951-52, 1962, 1968

Birth Record, 1951; marriage certificate, 1917; and a record of Spaulding's employment from 1912 to 1923, ca. 1923; business cards; passports, 1956, 1962; Obituaries and letters of condolence, 1968

Speeches made by Spaulding, ca. 1949, 1958

Original typed papers and reports

Concerning water softening techniques, stabilization, and water purification techniques in general

Mementos of Spaulding's student days at the University of Illinois

Announcement and banquet program of Alpha Chi Sigma, 1911; a postcard to his father, 1908; a commencement booklet for his graduating class including a class roster, 1912; the Alumni Quarterly for November 15, 1917; photographs with mother and Alpha Chi Sigma

Charles H. Spaulding's Bachelor's Thesis, 1912

Panama Photographs, 1912-14 and water testing record book, 1914-15 and diary, 1914-15

Willis J. Spaulding Testimonial, 1947, 1949, 1960 (Charles' brother)

Alvord, Burdick & Howson, Correspondence, 1952-54, concerning contracts to install water conditioning equipment for which Spaulding held patents

Correspondence by Mrs. Spaulding, 1970, regarding her husband's papers

American Society of Civil Engineers, Water Treatment Plant Design Manual, 1955-56

American Water Works Association correspondence, 1940-42; annual meeting, programs, 1963

Appleton, Wisconsin Water Purification Plant, 1963

Data on quality of water and Plant facilities

Australia, 1964

Correspondence with officials at the Sydney, Australia Water Works and printed booklets describing the Sydney plant

Bloomfield, Iowa, 1948

Data regarding the Bloomfield Water Treatment Plant for which Spaulding acted as consultant in planning

Bloomington, Illinois

1932, Spaulding's personal notebook of statistical data relating to the Water Treatment Plant

1941-42, including correspondence with the Treatment Plant and statistical data

1951, Report on Water and Electric Systems for Bloomington, Illinois, February, 1951

1952, Spaulding's notebook of findings regarding phases of water purification at that plant

C. Arthur Brown, 1937-38

Correspondence with the Brown Engineering Co. of Lorain, Ohio, which handled the installation of water purification systems designed by Spaulding

Brown & Caldwell consulting correspondence, 1947-58

Erdlator - combination aerator and agitator, 1951  
Exchange Club, Urbana, 1967-68  
Illinois Section, American Water Works Association Publications, 1958, 1969, 1972  
Illinois Water Treatment Company, 1954  
    Correspondence with the Rockford, Illinois, Company  
Institute of Inter-American Affairs; Rio-De-Janeiro, Brazil, 1952  
    Correspondence concerning the installation of water purification plants  
Wilfred F. Langelier, Correspondence, 1948-67  
Lone Star Brewing Company, 1953-55  
    Correspondence with the Brown, Caldwell Company of San Antonio, Texas, regarding the  
        installation of filtration equipment at the Brewery  
Miami, Florida, 1949  
    Correspondence with the Department of Water & Sewers  
Minneapolis, Minnesota, 1936, 1937, 1941  
    January-February 1942  
        Charts outlining water softening operations  
    August-November 1942  
        Water softening charts  
National Research Council, Subcommittee on Water Supply, 1948-64  
U.S. Naval Engineering Company, Correspondence, 1952  
Oklahoma City, Oklahoma, no date  
    Study of water softening plant  
Patent application of C. H. Spaulding  
    1937, On a filter device  
    1938, For a sludge conditioning device  
    1942, For a mechanism to separate impurities from water  
Patent search, 1945  
    Information gathered by a law firm to establish the originality of Spaulding's idea(s)  
        regarding methods of filtration  
Patent #709, 514  
    Specifications and original ideas regarding the Spaulding Precipitator  
Patent Office Patents #748, 308 to 2,128, 569  
    Patented devices pertaining to water purifications systems  
Patents, 1935, 1938, 1941-72

Box 2:

Permutit  
    1937-38, Correspondence involving Permutit with the Louisiana Steam Co.  
    November 1938-March 31, 1938; April 1938-October 19, 1938  
        Correspondence involving Permutit and the Metropolitan Water District of  
            Southern California  
Metropolitan Water District of Southern California Report #746, 1938  
    Mimeographed summary report of the systems facilities  
Permutit  
    1937, Correspondence involving projects under contract with municipalities and

companies

January-December 1938, (6 folders), Correspondence involving project under contract with municipalities and companies to install water purification facilities

Box 3:

January 1939-December 1942 (7 folders)

Permutit Company Data Book, 1944

Printed catalog of systems installed by the Permutit Co.

Permutit Company, 1947, 1950, 1953-55, 1957-59

Permutit Company Operating Instructions for Water Conditioning Equipment, 1956

Permutit Company, 1960

Blueprint of the Taylorville, Illinois, installation

Permutit Royalties, 1938-42, 1952-56

Box 4:

Portsmouth, Ohio, AEC Project, 1953

Rantoul

Analysis of the Rantoul Facilities

Sangamon River, 1926

Printed report of the quality of the water

Printed report on pollution and channel improvement, 1927

Typed report outlining pollution by Decatur's sewage, 1927

Bacteriological study at Springfield Water Works, ca. 1927

Analyses of pollution factors, 1929

Santa Cruz, California, Water Development, 1954

Springfield, Illinois, Water Department, December 1928, printed circular on Lake Springfield Project

graphs of monthly records for use of chlorine and ammonia, 1928

newspaper clippings, 1931

Water Purification Plant, 1934-36

Annual Reports, 1934-35, 1938

Dam, Lake and Bridge Dedication program, 1935

Discussions of facility by C. H. Spaulding

Monthly checks of water quality, 1936-66

Lake Springfield (1936 and Municipal Light and Water (1939 publications

photograph, 1939

correspondence with the Superintendent of Water Purification, 1940-43

general correspondence, 1941, 1947

Waterlite News, 1941-42

Water Plant, mimeographed Report on the Water System by the Burns & McDonnell Engineering Company, 1948

Two Burns & McDonnell contracts for plant improvements  
 #114 for Suspended Solids Contact Equipment  
 #115 for Treatment Plant Improvements, 1955

Department Notebook of Statistics, 1957  
 Capitennial Booklet, 1957  
 general correspondence and reports, 1954, 1956-60  
 Water Treatment Reports and Stream Survey, 1960-61  
 1961, 1963, 1964, 1966, 1967  
Pitometer Associates Reports which give statistics on pressure in mains  
 general correspondence, reports, analyses pertaining to water treatment, 1962-63  
 correspondence and reports, 1964-65  
 correspondence with and reports of the Crawford, Murphy & Tilly consulting firm,  
 1965

Water Department, correspondence, blueprints of facilities, analyses of systems and  
 photograph, 1966  
 correspondence, reports, specifications and contracts for installation of new  
 facilities, 1967  
 blueprints of Springfield water purification facility, 1955, 1961-62, 1966  
 photographs, ca. 1955

Threshold Odor, 1941, correspondence with firms and individuals concerning findings  
 Threshold Odor, 1941-51, discussions by C. H. Spaulding regarding threshold odor and water  
 softening coagulation

Travel, 1956-1963

University of California Radiation Laboratory - Livermore: Brown & Caldwell, 1954-56  
 University of Illinois correspondence, 1953; Foundation Reports, 1966-68

Water Treatment Plant Design, 1947-1967  
 correspondence and reports

Winnebago State Hospital, ca. 1958  
 notes by C. H. Spaulding on the facilities

#### Box 5:

Great Lakes Study General Correspondence, 1953-54  
 American Water Works Assoc.; Harry E. Jordan; Alvord, Burdick & Howson; Pitometer  
 Assoc.

Great Lakes C-Data, n.d.

Great Lakes Linear Regression Analysis of C-Data, n.d.  
 Buffalo, Cleveland, and Detroit

Lease Square Analysis of Data from various district systems, ca. 1952  
 data from cities on the Great Lakes

Great Lakes area purification plants, 1949-52  
 Spaulding's journal of statistics from cities

Great Lakes Survey Reports, 1952-53

- studies of facilities for water purification selected major cities
- Great Lakes Area Water Quality, 1954-56
  - data on the loss of carrying capacity in mains
- Great Lakes Area, 1954
  - graphs showing the effect of dissolved solids on carrying capacity in mains
- Preliminary Draft Report on the Correlation of Water Quality with Loss of Carrying Capacity in Mains on the Great Lakes by C. H. Spaulding, Feb. 8, 1954
- Great Lakes Water Information
  - Buffalo, New York, ca. 1952
  - Chicago, Illinois, 1950-52
  - Cleveland, 1952
  - Detroit, 1952
  - Detroit, 1954
  - Duluth, Minnesota, 1954
  - Hamilton, Ontario, ca. 1953
  - Lake Michigan Survey, 1951-52
  - Lake Michigan, 1952
  - Milwaukee, Wisconsin, ca. 1943
  - Montreal, ca. 1951-54
  - mimeographed report relating to the Montreal area, 1953
  - Toronto, 1931-32
  - Toronto, 1952
- Reprints & publications
  - AG Chemical Company, 1954
    - printed catalog entitled Isopor Water Laboratory
  - Fred Abbenseth (and J. V. Kelly and W. A. Helbig)
    - Threshold Odor Tests
  - American Water Works Association, 1957-59
    - copies of the AWWA publication Willing Water
  - William Aultman, 1950
    - Desalting Sea Water for Domestic Use
  - Harold E. Babbitt, 1934
    - The Mechanical Aeration of Sewage by Sheffield Paddles & An Aspirator
  - Barkley, J. F., Boiler Water, 1936
  - Brown and Caldwell, Civil and Chemical Engineers, San Francisco, 1953, 1955
    - Report on Softening Plant Study Culver City Water Supply System Southern California Water Co. and Study of Water Quality and Treatment City of Vallejo, California
  - A. M. Buswell, 1948
    - Methane Fermentation of a Fibreboard Waste
  - Thomas R. Camp, 1945
    - Turbulence & Friction in Water Pipes
  - A. T. Clark, 1930

- Relation of the Interior Condition of Water Mains to the Coefficient of Roughness  
Cliffs Dow Chemical Company, 1938  
Activated Carbon for Water Purification  
Alexander Goetz, 1952, 1953  
Application of Molecular Filter Membranes to Specific Problems in Water  
Analyses; The Concentrometer Method of Applying Molecular Filter  
Membranes; Application of Molecular Filter Techniques to the Bacterial  
Assay of Sewage  
Paul Hansen, 1940  
Active Problems in Water Purification  
Vernon L. Hinebrook, 1958  
Michigan's Largest High Rate Water Treatment Plant  
Illinois Municipal League, 1939  
Illinois Municipal Retirement Fund Act  
Illinois State Water Survey Circulars, 1942-43, 1959, 1960, 1963  
#91 Selected Papers on Cooling Tower Water Treatment, 1966  
Illinois Water Treatment Company  
tables of equipment data for equipment produced at the Rockford, IL plant  
J. A. Jensen, 1938, Water Softening at Minneapolis  
Lake Management Reports, 1937-48  
Reports issued by the Natural History Survey at Urbana. Report #2 Fork Lake  
Near Mount Zion, Illinois, 1939; #3 Lincoln Lakes Near Lincoln, Illinois,  
1939; #4 A Second Year of Fisheries Investigations at Fork Lake, 1939; and  
#5 Winterkill of Fishes in Illinois Lake, 1948  
W. F. Langelier, 1936, 1946, 1949, 1950  
The Analytical Control of Anti-Corrosion Water Treatment; Chemical Equilibrium  
in Water Treatment and Effect of Temperature on the pH of Natural Water;  
Mechanism of Flocculation in the Clarification of Turbid Waters; Scale  
Control in Sea Water Distillation Equipment and Report on Cause and  
Presentation of Scale and Corrosion in Thermocompression  
Equipment...employed ...Distillation of Sea Water (1950-51)  
John O. Logan, 1940  
Calcium Hypochlorite in Water Purification

Box 6:

- R. F. MacDowell, 1937  
A Fully Automatic Softening & Iron Removal Plant  
Michie City Publications, 1954  
Code of the City of Springfield  
Henry F. Monroe  
Fluoridation Monograph  
National Association of Corrosion Engineers, 1960

- Service Life of Pipe Exposed to Domestic Waters  
H. M. Olson
- Review of Performances of Municipal Zeolite Plants  
Thomas Parran, 1932
- Rural Water Supply & Sewage Disposal Systems  
A. C. Reents, 1952
- Quality of Water Produced by Ion-Exchange  
Otto S. Reynolds, 1929
- Dry Square Braided Hemp for Yarning Joints  
Charles H. Spaulding, 1927-51
- "Operation of the New Water Softening Plant at Springfield" (1927)  
"Preammoniation at Springfield, Illinois" (1929)  
"Natural & Artificial Purification of the Sangamon River" (1930)  
"Water Softening at Bloomington, Illinois" (1931)  
"Manipulation of pH at Springfield" (1931)  
"Quantitative Determination of Odor in Water" (1931)  
"Contamination of Mains by Jute Packing" (1931)  
"Filter Problem & Water Softening" (1932)  
"The New Water Purification Plant for Springfield, Illinois" (1935)  
"Conditioning of Water Softening Precipitates" (1937)  
"Some New Practices in Water Softening" (1938)  
"Accuracy & Application of Threshold Odor Tests" (1942)  
"Diatomite Water Filtration Developed for Field Troops" (1944)  
"Improved Coagulation by the Use of Pulverized Limestone"  
"Scale Control in Sea Water Distillation Equipment" (1950)  
"Desalting Seawater" (1950)  
"Limestone Coagulation" (1951)
- J. B. Stall, 1952  
The Silting of Lake Springfield
- H. W. Streeter, 1928  
Sewage Polluted Surface Waters As a Source of Water Supply
- Water Information Center, Inc., 1960  
The Future of Salt Water Conversion
- Carl Wilson, 1954  
Remarks Upon a Manganese Deposit in the San Vicente Transmission Line
- Edgar K. Wilson, 1936  
Condition of Mains in Typical American Cities
- Permutit Water Conditioning Handbook  
(Which outlines the various equipment and systems installed by that company)  
American Chemical Society  
Chemistry - Key to Better Living  
Diamond Jubilee Volume 1951

Box 7:

Personal Correspondence, 1949-68, 1970-72 with Willis J. Spaulding, Frank H. Bode and others about sanitary engineering, water supplies, investments, travel and family affairs.  
Federal and Military, personnel forms and reports, 1917, 1938, 1945-56  
Engineer Board, Ft. Belvoir, Virginia  
Correspondence, 1917-18, 1942-57  
Reports, 1944-45  
Professional Association Correspondence, 1956-67  
Newspaper Clippings, 1918, 1923, 1930, 1939, 1943, 1951, 1956-59  
Photographs, 1912, 1969-18, 1951, 1966

Box 8:

Color Slides, Springfield, Illinois filter plant and Spaulding Precipitators, 1960 (45), 1961 (4), 1965 (17)  
Diaries, 1939, 1947, 1949-55, 1958, 1960-61, 1966

Oversize Box 25:

Springfield Public Schools Certificate of promotion to High School, 13 January 1902  
Springfield High School Diploma, 26 January 1906  
University of Illinois Diploma of Bachelor degree, 12 June 1912  
Marriage Licence, 5 July 1917  
Appointment as Assistant Sanitary Engineer, 26 February 1919  
American Water Works Association John M. Goodell Prize, 1933