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School of Mines and School of Engineering and Applied Sciences records 5801754

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Description is written in: English.

Describing Archives: A Content Standard

Rare Book and Manuscript Library

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Columbia University, Mail Code 1127
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Summary Information

Repository:	Rare Book and Manuscript Library
Creator:	Columbia University. School of Mines
Creator:	Columbia University. School of Engineering and Applied Sciences
Title:	School of Mines and School of Engineering and Applied Sciences records
ID:	5801754
ID:	UA#0098
Date [inclusive]:	1863-2007
Physical Description:	20.26 linear feet 15 document boxes, 13 record cartons, 4 scrapbook boxes, and one volume
Language of the Material:	English .
Abstract:	The records in this collection document the founding, growth, and evolution of the School of Mines, later known as the Fu Foundation School of Engineering and Applied Sciences.

Preferred Citation

Identification of specific item; Date (if known); School of Mines and School of Engineering and Applied Sciences records; Box and Folder number; University Archives, Rare Book and Manuscript Library, Columbia University Libraries.

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Biographical / Historical

Based on the plan submitted by Thomas Egleston, Jr., to the Trustees of Columbia College in 1863, the School of Mines was founded in 1864 at the 49th Street location of the College. With only three professors in the School, supplemented by adjunct professors from the College, the School of Mines opened November 15, 1864, offering a three-year plan of study to its 24 entering students. The "Big Three" founding professors of the School were Egleston, as professor of Mineralogy and Metallurgy; Francis Laurens Vinton, professor of Mining; and Charles Frederick Chandler, profess of Analytical Chemistry and the first Dean of the School.

The School found an early and lasting supporter in Columbia College President Frederick A. P. Barnard, as well as support and sponsorship from the Committee on the School of Mines, a "sub-board" of the College Trustees, responsible for overseeing the development of the new School.

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Biographical / Historical

In its first 35 years of existence, the School flourished as a pioneering, largely undergraduate program. During this period, the program and faculty grew. In 1868, the program of study was extended to four years. In its first decade, the School granted its first degrees of Engineer of Mines (1867), civil engineering and Ph. B. (Bachelor's of Philosophy) in chemistry (1871). The Faculty for the School of Mines, separate from the College's faculty, was created in 1865 by statute and two years later the Trustees of the College adopted a definite set of bylaws for the new Faculty. Known as Camp Columbia, a summer school for practical courses, such as surveying, began in the late 1870s and continued at various sites within easy commuting distance from New York City over the years until it finally settled at its permanent site in Litchfield, CT in 1903.

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Biographical / Historical

In 1871 the Alumni Association for the School of Mines was organized, responsible for alumni gatherings, reunions, and anniversaries of the School. Beyond its social functions, the Association also performed intellectual functions, including recommendations on the School's administration and instruction, most notably with its Committee of Ten in the early 1880s. The Alumni Association's chief organ, the School of Mines Quarterly, began by the undergraduate members of the School's student engineering and chemical societies in 1879 and taken over by the Association by the journal's sixth issue, was published for thirty-five years, providing both news on the School and scholarly articles by the School's students, alumni, and faculty. In 1875, the School of Mines sponsored Columbia's first Ph.D. degree.

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Biographical / Historical

By 1871, the School's rapid growth became the main reason in the Trustees' decision to search for a new site for the College. The School's growing pains continued through the 1880s, during which time the School's physical plant was rebuilt in 1882-1883 to accommodate its expansion. Also during this decade, the School faced the problem of adjusting its program of study to the changing needs of an ever-developing profession. So in 1881 the admission requirements of the School of Mines were again raised and, in an effort to control its increasing enrollment within the constraints of its available physical and intellectual resources, the School no longer accepted non-degree candidates. In 1891, the trend in higher education to establish departments of faculty came to the School of Mines with the creation of the Department of Mining in the same year. By the end of its first 35 years, the School of Mines offered seven course degrees, authorized in different years: Mining (E.M., 1864), Chemistry (Ph.B. to 1896, then B.S.; 1868), Civil Engineering (C.E., 1869), Architecture (Ph.B., 1881), Metallurgy (Met.E., 1886), Electrical Engineering (E.E., 1889), and Geology and Paleontology (Ph.B., 1897).

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Biographical / Historical

In 1896 the School of Mines was renamed the School of Mines, Engineering, and Chemistry, a recognition long coming of the branches of engineering and science beyond the original mines concept. The Faculty of the School of Mines at the same time became the Faculty of Applied Science. These developments, though opposed by most of the faculty devoted to the primacy of the School's original mining emphasis and its traditions, addressed the rising importance of engineering in society. The same year the School recognized its broadening scope of study with an official name change, so too did Columbia College recognize the importance of graduate research and study to its mission, becoming Columbia University in the City of New York. These important changes to the School and College were followed a year later by another significant step in both institution's evolution: the University's move to Morningside Heights.

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Biographical / Historical

With the move of the University to the new Morningside campus, the School of Mines, Engineering, and Chemistry was able to expand and adjust to meet the growing demands of

its faculty, students, and the engineering profession in general as well as realign the duties and modify the curricula of different departments at the turn of the century. In the period leading up to the first World War, from 1897 to 1914, the engineers constituted the largest undergraduate group at Morningside. In 1904, the same year the cornerstone of the new Engineering Building was laid, the Committee on the Programs of Study in Engineering recommended a new structure for the School's program, a combination six-year plan of study. In 1912 the plan was finally approved by the Trustees of Columbia University, the Faculty of Applied Science, and the School's Alumni Association, with new curricula developed from 1912 to 1913 with increased levels and standards of instruction. In 1914 the former, narrowly-technical program was replaced by the implementation of the new course and program structure, which made a general, liberal arts education a prerequisite for admission to the School. The new 6-year plan coincided with the School's first anniversary celebrations, commemorating its 50 years with special events for alumni, faculty, and students. In 1916, the School awarded its first Master's of Science (M.S.) degree, beginning a trend, realized throughout the country, toward graduate engineering study. Exploration of this new trend and the general operation of the School of Mines, Engineering, and Chemistry was interrupted by the United States' involvement in World War I.

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Biographical / Historical

By 1917 retirements and war duties decimated the School's Faculty. War efforts brought military training to Columbia University and the School of Mines, Engineering, and Chemistry undertook technical instruction for armed forces officers during the war. The post-war era saw a reorganization of the School and, as a direct result of lessons learned from the war, the development of the trend towards research which began in 1916. From 1917 to 1939 this new emphasis led to the transformation of the School from a pioneering, largely undergraduate school to one of the largest graduate engineering schools in the country. In 1923 the School's plan of study was again revised, now to offer two undergraduate programs along with a professional graduate degree and the M.S. degree. By the 1920s the School had seven departments total, a division which lasted well into the 1970s: Chemical Engineering, Civil Engineering, Electrical Engineering, Industrial Engineering, Mechanical Engineering, Mining-Metallurgical Engineering, and Drafting (Mechanical Drawing). The six engineering departments sponsored professional courses with drafting as a service department to the others; further specialization within these six engineering branches was confined to graduate study. As indicated by the departmental titles, engineering had become the focus of the School, reflecting the progressing needs in society, and so, in 1926, the School underwent its second name change to become simply the School of Engineering, with its Faculty of Engineering.

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Biographical / Historical

While in the early 1920s the School saw a slow recovery after the war in registration, faculty, and curricula, the remaining time between the two World Wars saw an increase in research and graduate education and enrollment at the School of Engineering. From this developed pressing needs for expanded research laboratories, equipment, space, and facilities, impeded by depression conditions. Throughout the School's history, however, its Faculty found innovative ways to utilize their facilities and equipment to the greatest degree, expanding into spaces unused by other College, and later University, departments, and making use of all resources available. In 1935 a special committee on the School's 75th Anniversary was appointed, chaired by the Columbia University Trustee Chairman Coykendall, an alumnus of the School. In 1939 the School celebrated 75 years of history with an events program spread out through its anniversary year. Of note are its Camp Columbia alumni reunion, called "Old Home Week" and its Fireside Talks, for which School alumni John R. Dunning, a future Dean of the School, and Edwin H. Armstrong, inventor of FM radio and School professor, spoke. Also as part of the celebrations, the first Egleston Awards were bestowed on twelve recipients "for distinguished engineering achievement." Both the Camp Columbia reunions and the Egleston Awards became annual events. Along with an open house of the School and a large, formal dinner, the 75th Anniversary celebrations included the unveiling of a commemorative plaque on the original site of the School of Mines at the corner of 50th Street and Park Avenue.

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Biographical / Historical

At this time, Professor Thomas T. Read of the School of Engineering strove to complete a 75-year history of the School. With the help of Mr. Roger Howson of the University's History Department, Professor Read completed an unpublished manuscript of his history. Though never realized as a published book itself, Read's manuscript was used by Professor James Kip Finch, former Dean of the School, to complete his A History of the School of Engineering for Columbia's bicentennial celebrations in 1954.

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Biographical / Historical

After the year-long anniversary festivities of 1939, the School once again participated in engineering education for the war effort in 1940, this time for World War II. Not only did

the faculty again apply their services to research and duty at the School and elsewhere in the country and world as needed, by they also instructed armed forces men and civilian women who would relieve or replace the service men in industry. During World War II, while some faculty left to participate in the war effort, such as work on the atom bomb, at the School of Engineering the program of study accelerated to meet the growing demand for engineers. Graduate enrollment dwindled at this time, while undergraduate enrollment more than tripled, turning the School of Engineering into a relatively large undergraduate institution throughout the war.

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Biographical / Historical

After the war, the School returned to its pre-war undergraduate program and revived its graduate instruction and research. In 1942 the School of Engineering changed its rules to allow women admission, the last of Columbia's professional schools to do so. Interest engineering flared after World War II, reflected in increased enrollment in the School, and so the School looked into expanding its facilities. In 1948 plans were announced for a new School of Engineering facility at 125th Street and Broadway to address the School's perpetual space issues. The fundraising campaign for the new Engineering Center for laboratory instruction and research began in 1950 during Dwight D. Eisenhower's Columbia University presidency and received notable support from this future President of the United States. With a strong campaign throughout the 1950s, the new center was finally realized in 1961 as the Seeley Wintersmith Mudd Building of the Columbia Engineering Center.

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Biographical / Historical

In 1964 the School of Engineering and Applied Science (SEAS), as it was now called by this time, celebrated the 100th anniversary of the founding of the School of Mines. At this time, the School of Mines, the title of which was retained by Columbia University, honoris causa, was renamed the Henry Krumboltz School of Mines after this alumnus and his wife Lavon Duddleson Krumb.

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Biographical / Historical

The School continued on its course of constant growth and evolution with the addition of three departments over the years: Applied Physics and Applied Mathematics, founded in 1978; Computer Science, established in 1979; and Biomedical Engineering, founded in 2000. Though not new, two of the School's departments evolved from their 1920s incarnations. Operations research courses were added to the industrial engineering program in 1952, forming the Industrial Engineering and Operations Research Department. In 1998 the Henry Krumchool of Mines became the Earth and Environmental Engineering department. The School again underwent another name change in 1997, becoming the Fu Foundation School of Engineering and Applied Science.

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Biographical / Historical

Though the original School of Mines evolved well beyond the original plan of its founder Thomas Egleston, Jr., the Fu Foundation School of Engineering and Applied Science continues its ancestor's tradition of producing pioneering, successful, and well-respected professionals, educators, and researchers in science and engineering.

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Summary

The School of Mines Records describe the founding, growth, and evolution of the School. The materials contained in this collection show the expansion of the School's faculty, student and alumni bodies, and physical plant plus its shift in academic focus from mines and metallurgy to engineering and applied sciences. Also covered are the development of the undergraduate and graduate programs of study and the celebrations and documentation of the School's progress and history.

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Arrangement

This collection is arranged in 8 series.

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Administrative Information

Publication Statement

Rare Book and Manuscript Library

Butler Library, 6th Floor
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535 W. 114th St.

New York, NY 10027

Business Number: (212) 854-5153

Fax Number: (212) 854-1365

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URL: <http://www.columbia.edu/cu/lweb/indiv/rbml/index.html>

Revision Description

XML Document Instance created by Brandi Tambasco. EAD was imported spring 2019 as part of the ArchivesSpace Phase II migration. Moved alumni association records (formerly Series II) to the School of Engineering alumni association records (UA#0093) (JR) Merged materials from the School of Engineering records (UA#0094) (JR) Added boxes 15-23, Dean's correspondence (JR) Added boxes 24-26 (JR) Added boxes 27-28. (JR) Added box 29. (JR) Added boxes 30-33. (JR) Added 3 ledgers to Box 28. (JR) 2010-04-29 2019-05-20 2021-08-18 2021-08 2021-09-02 2021-09-08 2021-09-21 2021-11-10 2022-11-11 2022-11-29

Restrictions on Access

All administrative records of the University are restricted for 25 years from the date of creation.

Restrictions on Access

The following boxes are located offsite: Boxes 4-5 and 15-33. You will need to request this material from the Rare Book and Manuscript Library at least two business in advance to use the collection in the Rare Book and Manuscript Library reading room.

Accruals

Periodic additions are expected.

Immediate Source of Acquisition

Source of acquisition--Columbia University. School of Mines. Method of acquisition--Gift.

Processing Information

This collection was processed Brandi Tambasco, Queens College, April 2010. Series II: Administrative records were processed by Joanna Rios, August-September 2021.

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Related Materials

Selected Related Material--At Columbia

[Buildings and Grounds Collection, 1755-2007 \[Bulk Dates: 1880-2000\]](#), Columbia University Archives, Rare Book & Manuscript Library, Columbia University

Selected Related Material--At Columbia

[Central Files Records, 1890-1971](#), Columbia University Archives, Rare Book & Manuscript Library, Columbia University

Selected Related Material--At Columbia

[Charles Frederick Chandler Papers 1847-1937](#), Rare Book & Manuscript Library, Columbia University

Selected Related Material--At Columbia

[Thomas Egleston Papers 1857-1929](#), Rare Book & Manuscript Library, Columbia University

Selected Related Material--At Columbia

[Henry Smith Munroe Correspondence 1855-1899](#), Rare Book & Manuscript Library, Columbia University

Selected Related Material--At Columbia

[Historical Photograph Collection](#), Columbia University Archives, Rare Book & Manuscript Library, Columbia University

Selected Related Material--At Columbia

[Lewis Morris Rutherford Photographs 1864-1865](#), Rare Book & Manuscript Library, Columbia University

Selected Related Material--At Columbia

[William Campbell Papers \[ca. 1900\]-1925](#), Rare Book & Manuscript Library, Columbia University

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Controlled Access Headings

- Chemical engineering -- Study and teaching
- Civil engineering
- Electrical engineering -- United States
- Engineering schools
- Engineering students
- Engineering -- Study and teaching -- United States
- Industrial engineering
- Mechanical engineering -- Study and teaching
- Metallurgy -- Study and teaching
- Mining engineering -- History
- Mining schools and education
- Columbia University. School of Mines
- Columbia University. School of Engineering and Applied Sciences

Collection Inventory

Series I: Academics, 1864-1963

Scope and Contents

Material related to academic issues and administrative governance of the School of Mines is gathered in this series. This includes curriculum, course and examination schedules, registration information, admission requirements, guide for students, and annual school catalogues. Faculty and trustee reports cover finance, education, instruction, administration, and development of the School. Limited correspondence of the faculty and general inquiry, statistics of enrollment and teaching, and research and patent policies and procedures are also found in this series. Publications issued by the School regarding its departments and engineering at Columbia University in general make up the bulk of this series. Of note are the academic issues of the faculty response to changing its name to encompass the broader, evolving scope of the School's subjects as well as the process of changing the School's course degree program.

Title/Description	Instances	
Academic Issues and Curriculum, 1864-1951 <u>Physical Description:</u> (5 Folders)	box 1	folder 1 to 5
Academic records - Fahs, Charles Frederick, 1874-1878	box 27	folder 1
Camp Columbia, 1901-1904	box 1	folder 6
Correspondence, 1869, 1878-1879, 1869, 1878-1879	box 1	folder 7
Curriculum and Course Materials of Braschi, Victor Manuel, 1879-1882	box 1	folder 8
Enrollment and Teaching Statistics, 1944-1950	box 1	folder 9
Examination and Attendance Schedules, 1864-1897	box 1	folder 10
Guides for Students, 1947-1950	box 1	folder 11
Laboratory Information, 1870s	box 1	folder 12
Negatives, stress tests, 1939-1943	box 26	

Scope and Contents

(Black-and-white, mostly 5" x 7" negatives, prepared by the Columbia University Library's Photograph Division for the School of Engineering. The images record stress tests, impact tests, fire tests, load tests, shrinkage tests, etc. There different materials: acoustical tile, I-beams, gypsum sheeting, aerocrete, etc. And the photos include test setup, closeups, top views, breaking points and/or after test shots.)

Planning Reports, 2003-2007

An Action Plan: 2004-2009, 2003 September	box 29	folder 1
Scope and Contents		
Zvi Galil, Dean		
A 2020 Vision for SEAS, 2007 May 1	box 29	folder 2

Scope and Contents

Report of the Long Range Planning Committee of the SEAS Board of Visitors to Dean Zvi Galil.

Publications		
"Abstracts of Photographic Science & Engineering Literature," 1963 July	box 1	folder 13
"Columbia Institute for Research in Production and Industrial Management," circa, 1950s	box 2	folder 1
Combined Plan for Liberal Education in Engineering, 1950-1952	box 2	folder 2
"Department of Industrial Engineering and Management," 1950	box 2	folder 3
"Engineering, Today and Tomorrow and the School of Engineering of Columbia University"--Draft, 1947	box 2	folder 4
Industrial Development, 1948-1950	box 2	folder 5
"Manual of Physical Measurements," 1928	box 2	folder 6
"Reports in Industrial Engineering," 1949-1950	box 2	folder 7 to 8
Registration, 1877-1903	box 3	folder 1
Reports, 1881-1956 <u>Physical Description:</u> (3 Folders)	box 3	folder 2 to 4
Research and Patents, 1939-1949	box 3	folder 5
Thesis for Degree of EE "Motor Speed Controls" by W.L.S. Pierce and F.E. Ward, 1905 May	box 25	

Scope and Contents

Inscription: "Presented to Mr. M. Arendt (Morton Arendt, Lecturer in Electrical Engineering), in token of our appreciation of past favors received at his hands by F.E. Ward and W.L.S. Pierce. June 11, 1905"

Immediate Source of Acquisition

Accession 2007.004

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Series II: Administrative Records, 1895-1936

Scope and Contents

This series contains the Office of the Dean's correspondence files. These files include information on faculty and student matters, department budgets and annual reports, enrollments, Camp Columbia, alumni gifts, trustee decisions, etc. The first alphabetical run is supposed to be from 1900 to 1910

but includes later materials. School of Engineering Deans during this period: Frederick R. Hutton, 1899-1905; George F. Sever (Acting), 1905-1907; Frederick A. Goetze, 1907-1917; George B. Pegram, 1917-1930 and Joseph Warren Barker, 1930-1946. This series also includes materials related to the School's self-study and/or reviews undertaken as part of the re-accreditation process, which were submitted to the Education and Accreditation Commission of the Engineers' Council for Professional Development, later known as the Accreditation Board for Engineering and Technology.

Subseries II.1: Correspondence, circa 1900-1936

Title/Description	Instances	
Dean's Correspondence, circa 1900-1910		
A1907-1909	box 4	folder 1
B1907-1910	box 4	folder 2
Brimberg, Jacob, 1912	box 4	folder 3
Butler, Nicholas Murray, 1902-1910	box 4	folder 4
C1904-1910	box 4	folder 5-6
<u>Physical Description:</u> 2 folders		
D1905-1912	box 4	folder 7
E1905-1910	box 4	folder 8
F1903-1925	box 4	folder 9
G1907-1910	box 4	folder 10
H1905-1928	box 4	folder 11-12
<u>Physical Description:</u> 2 folders		
I1905-1909	box 4	folder 13
J1905-1923	box 4	folder 14
K1905-1912	box 4	folder 15
L1906-1910	box 4	folder 16
Layton, William, 1908-1909	box 4	folder 17
Lovell, Earl B., 1905-1910	box 4	folder 18
Lucke, Charles E., 1907-1910	box 4	folder 19
Mc, 1906-1910	box 4	folder 20
M1902-1910	box 4	folder 21
N1908-1910	box 4	folder 22
O1906-1909	box 4	folder 23
P1895-1910	box 4	folder 24
Q1905	box 4	folder 25

R1905-1910	box 4	folder 26
S1901-1926	box 4	folder 27
T1905-1909	box 4	folder 28
U1907-1910	box 4	folder 29
V1905-1910	box 4	folder 30
W1907-1910	box 4	folder 31
Scope and Contents		
(Includes a photo of George V. Wendell)		
X, Y, Z, 1910	box 4	folder 32
Dean's Correspondence, 1910-1915		
A1910-1915	box 5	folder 1
B1910-1915	box 5	folder 2-4
<u>Physical Description:</u> 2 folders		
C1910-1915	box 5	folder 5
D1910-1915	box 5	folder 6
F1910-1915	box 5	folder 7
G1910-1915	box 5	folder 8
H1910-1915	box 5	folder 9
J1910-1915	box 5	folder 10
K1910-1915	box 5	folder 11-12
<u>Physical Description:</u> 2 folders		
L1910-1915	box 5	folder 13-14
Mc, 1910-1915	box 5	folder 15
M1910-1915	box 5	folder 16-17
N1910-1915	box 5	folder 18
O1910-1915	box 5	folder 19
P1910-1915	box 5	folder 20-21
Q1910-1915	box 5	folder 22
R1910-1915	box 5	folder 23
S1910-1915	box 15	folder 7-10
<u>Physical Description:</u> 4 folders		
T1910-1915	box 5	folder 24

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U1910-1915	box 5	folder 25
V1910-1915	box 15	folder 1
W1910-1915 <u>Physical Description:</u> 2 folders	box 15	folder 2-3
X, Y, Z, 1910-1915	box 15	folder 4
Unsorted, 1910-1915	box 15	folder 5
Damaged, 1910-1915	box 15	folder 6
Dean's Correspondence, 1915-1920		
A1915-1920	box 15	folder 11
B1915-1920 <u>Physical Description:</u> 4 folders	box 15	folder 12-15
C1915-1920	box 15	folder 16
D1915-1920	box 15	folder 17
E1915-1920	box 15	folder 18
F1915-1920	box 15	folder 19
G1915-1920	box 15	folder 20
H1915-1920	box 16	folder 1
I1915-1920	box 16	folder 2
J1915-1920	box 16	folder 3
K1915-1920 <u>Physical Description:</u> 2 folders	box 16	folder 4-5
L1915-1920 <u>Physical Description:</u> 3 folders	box 16	folder 6-8
Mc, 1915-1920	box 16	folder 9
M1915-1920 <u>Physical Description:</u> 2 folders	box 16	folder 10-11
N1915-1920	box 16	folder 12
O1915-1920	box 16	folder 13
P1915-1920 <u>Physical Description:</u> 3 folders	box 16	folder 14-16
Q1915-1920	box 16	folder 17
R1915-1920	box 16	folder 18-19

Physical Description: 2 folders

S1915-1920	box 16	folder 20-21
<u>Physical Description: 2 folders</u>		
S1915-1920	box 17	folder 1
T1915-1920	box 17	folder 2
U1915-1920	box 17	folder 3-5
<u>Physical Description: 3 folders</u>		
V1915-1920	box 17	folder 6
W1915-1920	box 17	folder 7-9
<u>Physical Description: 3 folders</u>		
X, Y, Z, 1915-1920	box 17	folder 10
Dean's Correspondence, 1920-1925		
A1920-1925	box 17	folder 11
B1920-1925	box 17	folder 12-14
<u>Physical Description: 3 folders</u>		
C1920-1925	box 17	folder 15-16
<u>Physical Description: 2 folders</u>		
D1920-1925	box 17	folder 17
E1920-1925	box 18	folder 1
F1920-1925	box 18	folder 2
G1920-1925	box 18	folder 3
H1920-1925	box 18	folder 4
I1920-1925	box 18	folder 5
J1920-1925	box 18	folder 6
K1920-1925	box 18	folder 7
L1920-1925	box 18	folder 8-9
<u>Physical Description: 2 folders</u>		
Mc, 1920-1925	box 18	folder 10
M1920-1925	box 18	folder 11
N1920-1925	box 18	folder 12
O1920-1925	box 18	folder 13
P1920-1925	box 18	folder 14-15

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Physical Description: 2 folders

Q1920-1925	box 18	folder 16
R1920-1925	box 18	folder 17
S1920-1925	box 18	folder 18-19
<u>Physical Description: 2 folders</u>		
T1920-1925	box 18	folder 20
U1920-1925	box 18	folder 21
U1920-1925	box 19	folder 1-2
<u>Physical Description: 2 folders</u>		
V1920-1925	box 19	folder 3
W1920-1925	box 19	folder 4-5
<u>Physical Description: 2 folders</u>		
X, Y, Z, 1920-1925	box 19	folder 6
Unsorted, 1920-1925	box 19	folder 7
Dean's Correspondence, 1925-1930		
A1925-1930	box 19	folder 8
B1925-1930	box 19	folder 9-11
<u>Physical Description: 3 folders</u>		
C1925-1930	box 19	folder 12-14
<u>Physical Description: 3 folders</u>		
D1925-1930	box 19	folder 15
E1925-1930	box 19	folder 16
F1925-1930	box 19	folder 17
G1925-1930	box 19	folder 18
H1925-1930	box 19	folder 19
I1925-1930	box 19	folder 20
J1925-1930	box 19	folder 21
K1925-1930	box 19	folder 22
L1925-1930	box 19	folder 23
L1925-1930	box 20	folder 1
Mc, 1925-1930	box 20	folder 2
M1925-1930	box 20	folder 3
N1925-1930	box 20	folder 4

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O1925-1930	box 20	folder 5
P1925-1930	box 20	folder 6
Q1925-1930	box 20	folder 7
R1925-1930	box 20	folder 8
S1925-1930	box 20	folder 9
T1925-1930	box 20	folder 10
U1925-1930	box 20	folder 11-12
<u>Physical Description</u> : 2 folders		
V1925-1930	box 20	folder 13
W1925-1930	box 20	folder 14
X, Y, Z, 1925-1930	box 20	folder 15
Dean's Correspondence, 1930-1934		
A1930-1934	box 20	folder 16
Advisory Committee on Education, 1934-1936	box 20	folder 17
Annual Reports, 1931-1934	box 20	folder 18
B1930-1934	box 20	folder 19
Berkey, Charles, P., 1930-1933	box 20	folder 20
Beyer, Albin H., 1931-1933	box 20	folder 21
Blossom, Francis, 1931-1934	box 20	folder 22
Budget, 1930-1934	box 20	folder 23
Butler Commission on Economic Affairs, 1933	box 20	folder 24
C1930-1934	box 20	folder 25
Committee on Instruction (COI) minutes, 1930-1934	box 20	folder 26
Committee, conference and council reports, 1930-1934	box 20	folder 27
Committee on Unemployment of Engineers, 1930-1934	box 21	folder 1
Committee on Housing - 21 Claremong Avenue, 1930-1934	box 21	folder 2
Butler, Nicholas Murray, 1930-1934	box 21	folder 3
Coss, John J., 1930-1934	box 21	folder 4
D1930-1934	box 21	folder 5
Dunn, Gano, 1930-1934	box 21	folder 6
E1930-1934	box 21	folder 7

School of Mines and School of Engineering and Applied Sciences records 5801754

Egbert, James C. - Director of University Extension, 1930-1934	box 21	folder 8
F1930-1934	box 21	folder 9
Fackenthal, Frank D., 1930-1934	box 21	folder 10
Faculty Load Reports - Teaching and Research, 1930-1934	box 21	folder 11
Faculty Minutes, 1930-1934	box 21	folder 12
Faculty Planning Committee, 1932	box 21	folder 13
Finch, James K., 1930-1934	box 21	folder 14
G1930-1934	box 21	folder 15
Goetze, Frederick A., 1930-1934	box 21	folder 16
Grant, Edward J., Registrar, 1930-1934	box 21	folder 17
H1930-1934	box 21	folder 18
Hayden, Philip N., 1930-1934	box 21	folder 19
Hinckley, A. Dexter, 1930-1934	box 21	folder 20
I1930-1934	box 21	folder 21
J1930-1934	box 21	folder 22
Jackson, D. D., 1930-1934	box 21	folder 23
K1930-1934	box 21	folder 24
L1930-1934	box 21	folder 25
Lovell, Earl B., 1930-1934	box 21	folder 26
Lucke, Charles E., 1930-1934	box 21	folder 27
Mc, 1930-1934	box 21	folder 28
M1930-1934	box 21	folder 29
Mayer, Ralph Edward (Fund), 1930-1934	box 21	folder 30
Meixell, Granville (Report on Applied Science Libraries), 1930-1934	box 21	folder 31
Mines, School of - Minutes of the Staff meetings, 1930-1934	box 21	folder 32
N1930-1934	box 21	folder 33
O1930-1934	box 21	folder 34
P1930-1934	box 21	folder 35
R1930-1934	box 21	folder 36
Rautenstrauch, Walter, 1930-1934	box 22	folder 1

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Read, Thomas T., 1930-1934	box 22	folder 2
S1930-1934	box 22	folder 3
Shoudy, W. A., 1930-1934	box 22	folder 4
Slichter, Walter I., 1930-1934	box 22	folder 5
Student Council, 1930-1934	box 22	folder 6
Trustees, Minutes of Meetings, 1930-1934	box 22	folder 7
T1930-1934	box 22	folder 8
U1930-1934	box 22	folder 9
University of the State of New York, 1930-1934	box 22	folder 10
United States Coast Guard, 1930-1934	box 22	folder 11
United States Naval Academy, 1930-1934	box 22	folder 12
V1930-1934	box 22	folder 13
W1930-1934	box 22	folder 14
Westinghouse Electric and Manufacturing Co., 1930-1934	box 22	folder 15
X, Y, Z, 1930-1934	box 22	folder 16
Dean's Correspondence, 1934-1936		
A1934-1936	box 22	folder 17
Annual Reports, 1934-1936	box 22	folder 18
Armour Institute of Technology, 1934-1936	box 22	folder 19
B1934-1936	box 22	folder 20
Blossom, Francis, 1934-1936	box 22	folder 21
Budget, 1934-1936	box 22	folder 22
Butler, Nicholas Murray, 1934-1936	box 22	folder 23
C1934-1936	box 22	folder 24
Committee and Conference Reports, 1934-1936	box 22	folder 25
Committee on Curriculum, 1934-1936	box 22	folder 26
Committee on Instruction (COI) minutes, 1934-1936	box 22	folder 27
D1934-1936	box 22	folder 28
Dunn, Gano, 1934-1936	box 22	folder 29
E1934-1936	box 22	folder 30
Engineers' Council on Professional Development - Accrediting Procedure, 1935	box 22	folder 31

School of Mines and School of Engineering and Applied Sciences records 5801754

F1934-1936	box 23	folder 1
Fackenthal, Frank D., 1934-1936	box 23	folder 2
Faculty Minutes, 1934-1936	box 23	folder 3
Finch, James K., 1934-1936	box 23	folder 4
G1934-1936	box 23	folder 5
H1934-1936	box 23	folder 6
I1934-1936	box 23	folder 7
J1934-1936	box 23	folder 8
Inside Silvered Lamp, 1934-1936	box 23	folder 9
K1934-1936	box 23	folder 10
L1934-1936	box 23	folder 11
Mc, 1934-1936	box 23	folder 12
M1934-1936	box 23	folder 13
N1934-1936	box 23	folder 14
O1934-1936	box 23	folder 15
P1934-1936	box 23	folder 16
Q1934-1936	box 23	folder 17
R1934-1936	box 23	folder 18
Read, Thomas T., 1934-1936	box 23	folder 19
S1934-1936	box 23	folder 20
Scholarships, 1935-1936	box 23	folder 21
Slichter, Walter I., 1934-1936	box 23	folder 22
T1934-1936	box 23	folder 23
United States Coast Guard, 1934-1936	box 23	folder 24
Statistics, Report on Committee of, 1935-1936	box 23	folder 25
Trustees, Minutes of Meetings, 1934-1936	box 23	folder 26
U1934-1936	box 23	folder 27
V1934-1936	box 23	folder 28
W1934-1936	box 23	folder 29
X, Y, Z, 1934-1936	box 23	folder 30
Correspondence - Professors, 1881-1914		
Egleston, Prof. Thomas, 1881-1899	box 27	folder 6

Scope and Contents

(Bound and typed copies of Prof. Thomas Egleston's correspondence)

Peele, Prof. Robert, 1904-1906 and 1912-1914 box 27 folder 2-3
Physical Description: 2 folders

Subseries II.2: Accreditation Records, 1954-1988

Title/Description	Instances	
Procedure for review of undergraduate engineering curricula, work copy, 1954 May	box 24	folder 1
Questionnaire for review of engineering curricula, 1959 February	box 24	folder 2
Questionnaire for review of engineering curricula, 1965 April	box 24	folder 3
Questionnaire for review of engineering curricula, Volume I, 1970 November	box 24	folder 4
Questionnaire for review of engineering curricula, Volume II (by discipline), 1971 January	box 24	folder 5
Questionnaire for review of engineering programs, Volume I, 1976 May	box 24	folder 6
Questionnaire for review of engineering programs, Volume II (by discipline), 1976 May	box 24	folder 7
Report on Engineering Programs, 1978 May	box 24	folder 8
Questionnaire for review of engineering programs, Volume I, 1982 May	box 24	folder 9
Questionnaire for review of engineering programs, Volume II - Chemical Engineering, 1982 May	box 24	folder 10
Questionnaire for review of engineering programs, Volume II - Civil Engineering, 1982 May	box 24	folder 11
Questionnaire for review of engineering programs, Volume II - Engineering Mechanics, 1982 May	box 24	folder 12
Questionnaire for review of engineering programs, Volume II - Electrical Engineering, 1982 May	box 24	folder 13
Questionnaire for review of engineering programs, Volume II - Industrial Engineering, 1982 May	box 24	folder 14
Questionnaire for review of engineering programs, Volume II - Mechanical Engineering, 1982 May	box 24	folder 15
Questionnaire for review of engineering programs, Volume II - Metallurgical Engineering, 1982 May	box 24	folder 16

Questionnaire for review of engineering programs, Volume II - Mining Engineering, 1982 May	box 24	folder 17
Self-Study Questionnaire, Volume I, 1988 May <u>Physical Description</u> : 2 folders Scope and Contents Accreditation Board for Engineering and Technology, United Engineering Center	box 24	folder 18-19
Self-Study Questionnaire, Volume II - Chemical Engineering, 1988 May	box 24	folder 20
Self-Study Questionnaire, Volume II - Civil Engineering, 1988 May	box 24	folder 21
Self-Study Questionnaire, Volume II - Electrical Engineering, 1988 May	box 24	folder 22
Self-Study Questionnaire, Volume II - Engineering Mechanics, 1988 May	box 24	folder 23
Self-Study Questionnaire, Volume II - Industrial Engineering, 1988 May	box 24	folder 24
Self-Study Questionnaire, Volume II - Mechanical Engineering, 1988 May	box 24	folder 25

Subseries II.3: Ledgers, 1864-1895

Title/Description	Instances	
Department of Metallurgy attendance records, 1904-1907 Scope and Contents (This ledger or "class book" organizes students by course (Metallurgy 2, 4, 54, 175), records attendance, and, for some, records grades.)	box 28	folder 7
Department of Metallurgy petty cash and furnace room accounts, 1904-1915	box 28	folder 12
Department of Metallurgy summer school, special funds and laboratory attendant accounts, 1904-1910	box 28	folder 13
Directory of Chemists, 1867-1870 Scope and Contents (Alumni listed by class year, then by last name, with notes on their careers.)	box 28	folder 4
Fees of Students, 1865-1887 <u>Physical Description</u> : 2 Volumes	box 28	folder 1-2

Scope and Contents

(Ledger includes student's name, class year, date of payment, amount of payment and remarks (i.e., "free by permission"). Organized by matriculation year and by last name.)

Fee book, 1887-1888	box 28	folder 11
<p>Scope and Contents</p> <p>Begins with Summer 1887 for the School in Chemistry. Ledger book compiled by Registrar George Fisher.</p>		
Fee book, 1887-1895	box 28	folder 3
Inventory of the Chemical Department, circa 1878-1882	box 28	folder 8-9
<p><u>Physical Description</u>: 2 Volumes</p> <p>Scope and Contents</p> <p>(Includes apparatus room, laboratory of A.A. Julien, quantitative laboratory, qualitative laboratory, assay laboratory, students apparatus, Dr. Chandler's laboratory and lecture room, store room, photographic room, Dr. Chandler's apparatus room, photometric room, Dr. Chandler's office, etc. Includes inventory for the Chemical Museum.)</p>		
Inventory of the Furniture Collections and Apparatus in the Department of Mineralogy and Metallurgy, 1882-1883	box 28	folder 5
<p>Scope and Contents</p> <p>(Organized by space: private offices, balance room, chemical laboratory, collection room, blowpipe closet, blowpipe laboratory, store room and lecture room. Index available on pages 115-117. Mineralogical collections start on page 119.)</p>		
Inventory of the Geological Department, 1878-1883	box 28	folder 6
<p>Scope and Contents</p> <p>(Lithological collection, geological and paleontological collection, collection of antiquities, collection in economic geology, zoological collection, botanical collection, and miscellaneous.)</p>		
Student Accounts, 1873-1877	box 30	
<p>Scope and Contents</p> <p>School of Mines, Ledger #4</p>		
Student Accounts, 1883-1895	box 31	

Scope and Contents

School of Mines, Ledger #6

Student Accounts, 1894-1899

box 32

Scope and Contents

School of Mines, Ledger #7

Student Accounts, 1898-1900

box 33

Scope and Contents

School of Mines and Chemical Department, Ledger #8

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Series III: Anniversaries, 1913-1965

Scope and Contents

Contained in this series are correspondence, programs, announcements, and guest lists of the three School of Mines anniversary celebrations: the 50th anniversary in 1914, the 75th anniversary in 1938, and the 100th anniversary in 1964. The majority of this series resides in the 50th and 75th anniversary materials. The 50th anniversary celebrations included a banquet, convocation, an alumni luncheon, campus night, and commencement. Banquet materials consist of correspondence, menus, programs, guest lists, and announcements. Programs, admission tickets, invitations, and announcements represent the other 50th anniversary celebration events. The remaining 50th anniversary material consists of celebration badges; general correspondence; meeting minutes of the anniversary celebration committee; news clippings; financial papers including bills, reservations, and correspondence; poems and songs written for or performed at the celebrations; commemorative issues of campus publications; and copies of speeches given at the celebrations. The 75th anniversary celebrations included a dinner, convocation, an open house, "old home week" at Camp Columbia, and the unveiling of an Old School of Mines plaque commemorating the original site of the School at 50th Street and Park Avenue. Correspondence, including letters to and from President Nicholas Murray Butler; guest lists; programs; committee meeting minutes; announcements; schedules; news clippings; and commemorative issues of campus publications all compose the 75th anniversary celebration items. Three black and white photographs of the Old School of Mines unveiling ceremony are also included. The 100th anniversary celebration materials consist of a celebration badge, the centennial dinner seating list and program, convocation program and announcement, an alumni centennial questionnaire, and a speech draft for the celebration.

Title/Description	Instances	
50th Anniversary of the School of Mines		
General, 1914	box 3	folder 6
Banquet, 1914	box 3	folder 7
Committee Meeting Minutes, 1913-1914	box 3	folder 8
Correspondence--General, 1913 September-1914 June	box 6	folder 1
Events, 1914	box 6	folder 2

Finance--General, 1913-1915	box 6	folder 3
Finance--Columbia Knickerbocker Trust Company, 1913-1914	box 6	folder 4
News Clippings, 1913-1914	box 6	folder 5
Poems and Songs, 1914	box 6	folder 6
Publications, 1914	box 6	folder 7
Speeches, 1914	box 6	folder 8
75th Anniversary of the School of Mines		
General, 1935-1939	box 6	folder 9
Convocation, 1939 November	box 6	folder 10
Correspondence, 1938 November-1939 November	box 7	folder 1
Dinner--General, 1939	box 7	folder 2
Dinner--Correspondence, 1939 <u>Physical Description:</u> (2 Folders)	box 7	folder 3 to 4
Egleston Awards, 1939	box 7	folder 5
News Articles and Publications, 1936-1939	box 7	folder 6
Old Home Week, 1939	box 7	folder 7
Old School of Mines Plaque, 1939-1940	box 7	folder 8
Open House, 1939	box 7	folder 9
100th Anniversary Celebrations, 1964-1965	box 7	folder 10

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Series IV: Building and Grounds, 1881-1961

Scope and Contents

Fundraising materials and design publications; invitations to and programs for announcement and preview dinners; press releases; news articles and clippings; maps; copies of photographs and artist's building conceptions; reports; and newsletters all concerning the new Engineering Center comprise the bulk of the series. Original photographs, which include President Dwight D. Eisenhower, then-president of Columbia University, and Dean James Kip Finch, are located in the Subject Photo files. Also included in this series are 49th Street building analysis correspondence; announcements and fundraising correspondence related to the move to Morningside Heights; and two photograph-and-blueprint books of proposed new laboratories building for the School of Engineering at 134th Street and Riverside Drive.

Title/Description	Instances	
Engineering Center		
General, 1949-1952, 1959, 1961, 1949-1952, 1959, 1961	box 7	folder 11

Announcement Dinner, 1951	box 7	folder 12
"Engineering Education and the Business Dollar," circa, 1951	box 8	folder 1
Fundraising Materials, 1950-1951	box 8	folder 2
Department Design Booklets, circa, 1950	box 8	folder 3
"The Heat and Mass Flow Analyzer," circa, 1950s	box 8	folder 4
"The New Engineering Center," 1950	box 8	folder 5
Preview Dinner, 1951	box 8	folder 6
"Report of the Council for the School of Engineering," 1956	box 8	folder 7
49th Street Building--Analysis, 1881	box 8	folder 8
Move to Morningside, 1891-1896	box 8	folder 9
"Proposed New Laboratories," circa, 1940s-1950s	box 8	folder 10

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Series V: Events, 1874-1962

Scope and Contents

This series contains materials related to events held by and/or at the School of Mines. The items include invitations, a guest list, programs, schedules, press releases, correspondence, news articles, dance cards, a registration application, and records of proceedings of lectures, dinners, reception, conferences, a symposium, and graduation exercises.

Title/Description	Instances	
General, 1906-1949	box 8	folder 11
Conference on Industrial Personnel, 1951	box 8	folder 12
Dunning (John R.) Luncheon, 1951	box 8	folder 13
Lecture Announcements, 1885-1888	box 8	folder 14
"Proceedings of the Junior Science Symposium," 1962	box 8	folder 15
Students' Annual Reception, 1874-1881	box 8	folder 16

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Series VI: History, 1863-1952

Scope and Contents

Materials related to the history of the School of Mines populate this series. Three distinct subject areas within this series are the planning of the School, the summer surveying school (commonly called

Camp Columbia), and a complete history of the School, the last of which forms the bulk of this series. Items related to the planning of the School include a copy of the trustee meeting minutes in which the creation of the School is discussed, the resolutions of the trustees on the founding of the School, a blank subscription form for the School, and copies of Thomas J. Egleston's original 1863 plan for the School reprinted in booklet form in 1914. "A History of the Summer School of Surveying of Columbia University" by James Kip Finch is a bound draft with handwritten annotations. Included in the back of this book is a letter from Finch to the then-University Librarian regarding Finch's donation of this material to the Columbian collection. The vast majority of this series is devoted to the creation of a complete history of the School of Mines. Correspondence and draft chapters of a 75-year history completed and exchanged by Professor Thomas T. Read and Roger Howson as well as both a complete manuscript and partial manuscript (chapters six through nine), both with handwritten corrections and annotations, of Read's "Columbia School of Mines-Engineering 1864-1939: Seventyfive [sic] Years of Progress in Engineering Education" are included along with James Kip Finch's correspondence, handwritten notes, research, and drafts of his "A History of the School of Engineering at Columbia University 1864-1939."

Title/Description	Instances	
Founding of the School, 1863-1865, 1914, 1863-1865, 1914	box 8	folder 17
History of the School of Mines		
Drafts and Correspondence, 1935-1952 <u>Physical Description:</u> (3 Folders)	box 9	folder 1 to 3
Manuscript by Read, Thomas T.--Complete, 1939	box 9	folder 4
Manuscript by Read, Thomas T.--Partial, 1939	box 9	folder 5
"Summer School of Surveying" by Finch, James K., 1917, 1938, 1917, 1938	box 9	folder 6

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Series VII: Press, 1865-1985

Scope and Contents

This series consists of newspaper and other print press clippings about the School of Mines, its events, students, alumni, and faculty as well as press releases issued by the School or Columbia University related to the School and engineering.

Title/Description	Instances	
News Articles and Clippings		
Clippings, 1865-1878	box 9	folder 7
Articles, 1900-1929 <u>Physical Description:</u> (2 Folders)	box 10	folder 1 to 2
Clippings Book, 1936-1945	box 10	folder 3
Clippings, 1931-1985 <u>Physical Description:</u> (2 Folders)	box 10	folder 4 to 5
Press Releases		

1944-1948	box 10	folder 6
1950-1969	box 11	folder 1 to 4
<u>Physical Description:</u> (4 Folders)		

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Series VIII: *School of Mines Quarterly*, 1895-1918

Scope and Contents

This series contains bank and treasurer books and other financial papers for *The School of Mines Quarterly*. The bulk of this series consists of correspondence related to the *Quarterly*, mostly dealing with subscriptions, advertising, and article reprints. Half of the correspondence is organized chronologically, with the remainder in original alphabetical order. A copy of the journal, Volume XXXVI, No. 4 from July 1915, is also included in this series.

Title/Description	Instances	
Bank and Treasurer Books, 1879-1918	box 11	folder 5
Correspondence		
1895-1905	box 11	folder 6 to 7
<u>Physical Description:</u> (2 Folders)		
1900-1902	box 29	folder 3
Scope and Contents		
Prof. Austin P. Evans		
1906-1908	box 27	folder 4 to 5
<u>Physical Description:</u> 2 folders		
1906-1911	box 12	folder 1 to 7
<u>Physical Description:</u> (7 Folders)		
1914-1917	box 13	folder 1 to 5
<u>Physical Description:</u> (5 Folders)		
A-F, 1911-1916	box 13	folder 6
G-M, 1910-1916	box 14	folder 1
N-U, 1909-1916	box 14	folder 2
W1911-1916	box 14	folder 3
Finance, 1910-1917	box 14	folder 4
Record of the School of Mines Quarterly, 1881-1906	box 28	folder 10

Scope and Contents

(Includes foundation information, meeting minutes, treasurer's reports, and regulations.)

<i>The School of Mines Quarterly</i> Volume XXXVI, No. 4, 1915 July	box 14	folder 5
Subscriptions, 1915 June-December	box 14	folder 6

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