

# Guide to the Barnett Fred Dodge Papers

MS 640



Preliminary Inventory by John Espy

March 1983

Yale University Library  
P.O. Box 208240  
New Haven, CT 06520-8240  
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## Collection Overview

**REPOSITORY:** Manuscripts and Archives  
Yale University Library  
P.O. Box 208240  
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<http://www.library.yale.edu/mssa/>

**CALL NUMBER:** MS 640

**CREATOR:** Dodge, Barnett F. (Barnett Fred), 1895-

**TITLE:** Barnett Fred Dodge papers

**DATES:** 1930-1972

**PHYSICAL DESCRIPTION:** 104 linear feet (110 boxes)

**LANGUAGE:** English

**SUMMARY:** Correspondence, research files, teaching materials, and writings relating to Barnett F. Dodge's (1895-1972) position as chairman of the Department of Chemical Engineering, Yale University, 1931-1963, his participation in professional organizations and his activities as consultant to governments and corporations on technical problems. Among the teaching materials are lectures, problems, examinations, and reports of students. Included also are offprints of papers by Dodge published between 1922 and 1964, speeches, a biography and a small amount of personal papers.

**ONLINE FINDING AID:** To cite or bookmark this finding aid, please use the following link: <https://hdl.handle.net/10079/fa/mssa.ms.0640>

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## Requesting Instructions

To request items from this collection for use in the Manuscripts and Archives reading room, please use the request links in the HTML version of this finding aid, available at <https://hdl.handle.net/10079/fa/mssa.ms.0640>.

To order reproductions from this collection, please go to [http://www.library.yale.edu/mssa/ifr\\_copy\\_order.html](http://www.library.yale.edu/mssa/ifr_copy_order.html). The information you will need to submit an order includes: the collection call number, collection title, series or accession number, box number, and folder number or name.

Key to the container abbreviations used in the PDF finding aid:

b.        box

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## Administrative Information

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### Immediate Source of Acquisition

Gift of Mrs. Barnett F. Dodge, 1972.

## **Conditions Governing Access**

The materials are open for research.

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## **Conditions Governing Use**

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## **Preferred Citation**

Barnett Fred Dodge Papers (MS 640). Manuscripts and Archives, Yale University Library.

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## **Scope and Contents**

Correspondence, research files, teaching materials, and writings relating to Barnett F. Dodge's (1895-1972) position as chairman of the Department of Chemical Engineering, Yale University, 1931-1963, his participation in professional organizations and his activities as consultant to governments and corporations on technical problems. Among the teaching materials are lectures, problems, examinations, and reports of students. Included also are offprints of papers by Dodge published between 1922 and 1964, speeches, a biography and a small amount of personal papers.

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## Collection Contents

### Inventory, Circa 1930-1972

102 linear feet

b.1	American Institute of Chemical Engineers
b.1	Program Committee
b.1	Local Sections
b.1	General and Miscellaneous
b.1	Research Committee
b.1	Research Policy Committee
b.1	Future of Institute Committee
b.1	Equipment Test Procedures
b.1	American Institute of Chemical Engineers
b.1	President
b.1	Nuclear Energy Division
b.1	Nuclear Energy Exposition
b.1	Committee on Education and Accrediting
b.1	Publications Committee
b.1	American Institute of Chemical Engineers
b.1	Fiftieth Anniversary
b.1	General Lists
b.1	Minutes of Meetings
b.1	Papers by Foreign Engineers
b.1	Fund Raising
b.1	"Chemical Engineering Around the World" English
b.2	Analytical Methods
b.2	Argentina
b.3	Books by Bliss and Dodge
b.3	English Versions of Barcelona Lectures
b.3	Brookhaven National Laboratories
b.3	LMFR

b. 3	Volatility Processes
b. 3	Chemical Engineering in Australia
b. 4	Chemical Engineering Abroad Japan--Engineering Mission
b. 4	Chemical Engineering Abroad
b. 4	France in General Lille
b. 5	Chemical Engineering Abroad
b. 5	France/Toulouse in Particular
b. 5	Chemical Engineering in France Instituts du Génie
b. 5	Chemical Engineering Abroad
b. 5	South America and Central America Includes Mexico and Puerto Rico Venezuela in Particular Uruguay
b. 6	Chemical Engineering Abroad Spain--Lectures at Barcelona
b. 6	Chemical Engineering 49 Design
b. 7	Lectures on Chemical Engineering at Barcelona, Spain in Spanish
b. 7	Chemical Engineering
b. 7	Education
b. 7	General
b. 7	Europe
b. 7	South America
b. 8	Chemical Engineering 25/First Course in Chemical Engineering
b. 8	Chemical Engineering at Yale
b. 8	Material on New Building and Development of Chemical Engineering at Yale
b. 9	Chemical Engineering
b. 9	38-44 Bound Sets of Problems and Exams
b. 9	Chemical Engineering 42 Reports
b. 9	Chemical Engineering 42 Reports 1947
b. 10	Chemical Engineering 192 Material for Lectures and Problems
b. 10	Chemical Engineering
b. 10	47,191,192,193,194 Bound Sets of Problems and Exams
b. 10	Chemical Engineering 192 Problems and Exams
b. 11	Chemical Engineering 198 Plant Design Reports

b. 11	Compressors	
b. 11	General	
b. 11	Centrifugal	
b. 11	Worthington included in this laboratory	
b. 11	Computing and Computers	
b. 12	Computers	
b. 12	Compressor Auxiliaries	
b. 12	Filters, After Coddlers, Flow Meters, Pressure Regulator Unloaders	
b. 12	Connecticut Coke 10 Test 1940	
b. 13	Connecticut State Water Commission	
b. 13	Metal State Industries Memo No. 1 to No. 12 inclusive	
b. 13	Connecticut State Water Commission	
b. 13	Metal Industries Memo No. 13 to No. 24 inclusive	
b. 13	Connecticut State Water Commission	
b. 13	Metal Industries Memo No. 25 to No. 34 inclusive	
b. 14	Connecticut State water Commission	
b. 14	Metal Industries Memo No. 35 to No. 44 inclusive	
b. 14	Control	
b. 14	Gauges	
b. 14	Humidity	
b. 14	Flow	
b. 14	Composition	
b. 14	Mercoïd	
b. 14	Correspondence With Former Students (alphabetically)	
b. 16, 15	B.F. Dodge, Personal Papers, Talks, Biography, etc.	
b. 17	B.F. Dodge, Work for NORC on oxygen problems.	
b. 17	Reprints of papers by B.F. Dodge.	1922-1953
b. 18	Reprints of papers by B.F. Dodge.	1954-1963
b. 18	Memo on Department of Chemical Engineering	
b. 18	Reprints of papers by B.F. Dodge.	1964-

b. 19	Energy and Power Generation
b. 19	General
b. 19	Engineering Education
b. 19	Design
b. 19	Reprint of President's Committee
b. 19	Study of Curricula at Other Schools
b. 20	Engineering Educators
b. 20	Design
b. 20	Engineering Education
b. 20	General
b. 20	Study Committee
b. 20	Faculty Opinions
b. 20	Curricula
b. 20	Engineering Societies Center/Special Task Committee
b. 21	Engineering
b. 21	General Teaching Methods
b. 21	Education
b. 21	Foundation
b. 21	Accrediting Societies
b. 21	Engineering
b. 21	Economic Status
b. 21	Manpower
b. 21	Professionalism
b. 21	Licensing
b. 21	John Fritz Medal
b. 21	Engineering Firms
b. 21	UPADI
b. 21	ECPD
b. 22	Phase Equilibrium
b. 23	Gases in Metals



b. 23	Hydrogen Embrittlement/Hydrogen Diffusion in Iron and Steel
b. 24	Hydrogen Embrittlement
b. 24	International Relations/American Institute of Chemical Engineers Committee
b. 25	Low Temperature Engineering/Lectures and Problems
b. 25	Low Temperature Engineering/Drawings of Keyes Oxygen Plant
b. 26	Materials
b. 26	General
b. 26	Miscellaneous pamphlets on properties of plastics.
b. 26	Materials/Heat Transfer Fluids
b. 26	Materials/Steels and Alloys
b. 27	Materials/Steels and Alloys for High Pressure
b. 27	Methanol Synthesis
b. 27	Consulting File from S. Karpen and Brothers.
b. 28	Nuclear Energy/General
b. 29	Oak Ridge/Laboratory Studies on Desalination
b. 30, 29	Oneida-Waste Treatment
b. 30	Instructions for Writing
b. 30	Pressure Technology/General
b. 30	Pressure Technology Catalogs of Material and Equipment
b. 31	Pressure Technology Various Techniques
b. 31	Pressure Technology
b. 31	High Pressure Laboratory/Bridgeman Papers
b. 32	Pressure Technology
b. 32	Miscellaneous and General
b. 32	Autoclave
b. 32	Design of Equipment
b. 32	Pressure Technology/"High Pressure Associates"
b. 32	Pressure Technology
b. 32	"High Pressure"/Closures, Seals, Materials English
b. 33	Ultra High Pressure

b. 33	Equipment and Technique
b. 33	Problems-Chemical Engineering
b. 33	Problems-Thermodynamics
b. 34	Problems in Graduate Courses at Yale
b. 34	Problems and Miscellaneous Material for Courses in Applications of Thermodynamics
b. 34	Process Design
b. 35	Process Design
b. 35	Process Design Course Material
b. 35	Process Design Problems and Solutions
b. 35	Literature
b. 36	Process Design
b. 36	Problems and Solutions
b. 36	Literature
b. 36	New Developments-reports
b. 37	Processes
b. 37	Professional School Engineering
b. 38	Research
b. 38	Compressibility of Gases/United States Naval Ordnance Laboratory Reports
b. 38	General Russian papers on high pressure.
b. 38	Research
b. 38	Gases in Metals
b. 38	Literature
b. 38	Procurement of Samples
b. 38	Translation of German Papers
b. 38	Research
b. 38	General Office of Naval Research
b. 39	Research
b. 39	General Research Institutes
b. 39	Research

b. 39	Joule-Thomson Effect Drawings of apparatus used at California Institute of Technology.
b. 40	Reviews "Industrial and Engineering Chemistry"
b. 40	Saline Water
b. 40	Annual Reports of the Office of Saline water Proceedings of 1957 and 1962 conferences.
b. 41	Saline Water/Dodge and Esbaya reports
b. 41	Saline Water
b. 41	Dodge and Esbaya reports.
b. 41	General Reports on Saline Water
b. 41	Saline Water/Oak Ridge National Laboratory Reports
b. 42	Saline Water-General
b. 42	Office of Saline Water News Releases/Papers from Wood's Hole conference.
b. 42	Saline Water Conversion/Correspondence with equipment companies and bulletins on equipment
b. 43	Saline Water Conversion
b. 43	Reports, Symposia, Miscellaneous
b. 43	Thermal Insulation
b. 43	Applied Thermodynamics
b. 44	Thermodynamics Book Revision
b. 44	Thermodynamics Book Revision-Industrial chapters
b. 45	Thermodynamics-General/Examinations in graduate courses
b. 45	Thermodynamics Research Laboratory/University of Pennsylvania
b. 46	Thermodynamics
b. 46	Miscellaneous
b. 46	Jefferis-Norton Oxygen Process Corporation
b. 46	General
b. 46	List of Engineers of Thermodynamics
b. 47	Thermodynamic Properties/General
b. 47	Thermodynamic Properties
b. 47	General
b. 47	Hydrocarbons

b. 48	Thermodynamic properties of Refrigerants
b. 48	Turbo Compressors/Centrifugal and Axial
b. 49	Publications of the Van der waals Laboratory
b. 59, 58, 57, 49, 52, 51, 50, 56, 55, 54, 53	Printed matter and notes: courses, departmental
b. 59A	Printed matter and notes: courses, departmental (cont'd)
b. 59B	Printed matter and notes: courses, departmental (cont'd)
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b. 60	G - V, Miscellaneous
b. 61	A - E
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b. 62	Waste Disposal
b. 63	Waste Disposal
b. 63	Water Pollution
b. 64	Water
b. 64	Saline Water Conversion
b. 66, 65	Saline Water Conversion
	Miscellaneous Subject File
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b. 67	C - E
b. 68	E - J
b. 69	J - P
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b. 71	T (cont.)
b. 71-72	Course Notes
	Miscellaneous Subject File
b. 72	A - Ap
b. 73	Ap - Ca
b. 74	Ca - Cr
b. 75	D - E

## Miscellaneous Subject File (continued)

b. 76	E - F
b. 77	F - H
b. 78	H - M
b. 79	M - Pre
b. 80	Pre (cont.)
b. 81	Pre - Pro
b. 82	Pro - Res
b. 83	Res (cont.)
b. 84	Res - S
b. 85	S - U
National Defense Research Council	
b. 85	A - Ai
b. 86	Ai - G
b. 87	He - Hi
b. 88	Hy - L
b. 89	L - P
b. 90	P - S
b. 91	S - V
Consulting	
b. 91	A - B
b. 92	B - P
b. 93	P - W
General Files	
b. 94	A - E
b. 95	E - P
b. 96	R - Y
b. 97	Slides, lantern slides used in classes
b. 98	Lantern slides, negatives, printed illustrations
b. 98	Photographs of mountains (MS list in register file)
b. 99	Report Writing (Literature on)

## Note cards and printed bibliography cards

b. 99	General - II	
b. 99	Oxygen	
b. 99	Phase Equilibria	
b. 99	Thermodynamics - III	
b. 99	Waste Disposal	
b. 100	Armed Services Technical Information Agency Publications	
b. 101	Catalysis	
b. 102	General - I	
b. 103	Low Temperature	
b. 104	Pressure Technology	
b. 105	Thermodynamics - I	
b. 106	[Thermodynamics - II] English	
b. 107	Unit Operations - I	
b. 108	Unit Operations - II	
Yale University. Dept. of Chemical Engineering: departmental papers		
b. 109	General correspondence of Dodge as Chairman	1933-1947
b. 109	Correspondence re: meetings, speeches, papers	1930-1938
b. 109	Correspondence with Armour Institute of Technology	1940-1941
b. 109	Account book	1942-1947, undated
b. 109	Departmental personnel: jobs & applicants	1940-1946
b. 109	Dept. of Personnel Study; correspondence papers	1934-1941
b. 109	Graduate students: correspondence, applications	1931-1950
b. 110	Questionnaires sent to Chemical Engineering alumni, graduates	1939, 1941
b. 110	Questionnaires sent to various colleges re: new chemical engineering laboratories	1940-1941
Connecticut State Water Commission		
b. 110	Correspondence	1936-1941
b. 110	Accounts, reports, etc.	1926-1953
b. 110	Miscellaneous papers	1945-1954

## **Selected Search Terms**

The following terms have been used to index the description of this collection in the Library's online catalog. They are grouped by name of person or organization, by subject or location, and by occupation and listed alphabetically therein.

### **Subjects**

Chemical engineering  
Educators  
Engineering

### **Occupations**

Chemists  
Engineers

### **Names**

Dodge, Barnett F. (Barnett Fred), 1895-

### **Corporate Bodies**

Armour Institute of Technology  
Connecticut State Water Commission  
Yale University. Department of Chemical  
Engineering  
Yale University. School of Engineering  
Yale University -- Faculty