



Smithsonian

National Museum of American History Kenneth E. Behring Center

Guide to the Nicholas C. Mandragos Papers, 1927-1959

NMAH.AC.0484

Don Darroch

1993-09-09

Archives Center, National Museum of American History

P.O. Box 37012

Suite 1100, MRC 601

Washington, D.C. 20013-7012

archivescenter@si.edu

<https://americanhistory.si.edu/archives>

Table of Contents

Collection Overview	1
Administrative Information	1
Biographical / Historical.....	2
Arrangement.....	2
Scope and Contents.....	2
Names and Subjects	2
Container Listing	3

Collection Overview

Repository:	Archives Center, National Museum of American History
Title:	Nicholas C. Mandragos Papers
Date:	1905-1964, undated
Identifier:	NMAH.AC.0484
Creator:	Mandragos, Nicholas C., 1896- (engineer) (Creator) Mandragos, Frieda
Source:	National Museum of American History (U.S.). Division of Engineering
Extent:	2.5 Cubic feet (10 boxes)
Language:	English .
Summary:	The papers of immigrant engineer Nicholas C. Mandragos.

Administrative Information

Acquisition Information

This material was donated to NMAH, together with several instruments and models relating to materials testing, in October 1992 by Mr. Mandragos' widow, Frieda Mandragos.

Provenance

Papers were transferred to the Archives Center from the Division of Work and Industry on April 15, 1993.

Separated Materials

Instruments and models are housed in the the Division of Work and Industry.

Processing Information

Collection processed by Don Darroch, September 9, 1993

Preferred Citation

Nicholas C. Mandragos Papers, 1927-1959, Archives Center, National Museum of American History. Gift of Frieda Mandragos.

Restrictions

Collection is open for research.

Conditions Governing Use

Collection items available for reproduction, but the Archives Center makes no guarantees concerning copyright restrictions. Other intellectual property rights may apply. Archives Center cost-recovery and use fees may apply when requesting reproductions.

Biographical / Historical

Nicholas C. Mandragos was born on the Greek island of Symi in 1896, was educated at the Salvago Professional School in Alexandria, Egypt, at New York University and at Brooklyn Polytechnic Institute. He received a bachelor of science degree in engineering at the latter institution plus 21 points of graduate studies. After being employed as a structural engineer by New York Central RR, 1926-1937, Mandragos was employed in research during World War II at the War and Navy Depts. He also lectured on photoelasticity at George Washington University 1943-1949 and was an associate professor there 1947-1949; later he was a consulting engineer.

Scope and Contents

The collection consists almost entirely of notes Mandragos used as the basis for lectures to his engineering classes. They cover various problem areas: stress analysis of structures, strength of materials, hydraulics and other technical aspects of structural design. There are also a few notes Mandragos made as a student in the 1920s and 1930s. The notes are carefully hand printed with detailed technical drawings, sometimes in photocopy. They are arranged alphabetically by subject, usually with dates.

Arrangement

Collection is arranged into one series.

Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

- Concrete -- 1920-1960
- Engineering -- Study and teaching -- 1920-1960
- Engineers -- 1920-1960
- Hydraulic engineering -- 1920-1960
- Strength of materials -- 1920-1960
- Structural engineering -- 1920-1960
- Tolerance (Engineering) -- 1920-1960

Types of Materials:

- Instructional materials
- Lecture notes

Names:

- National Museum of American History (U.S.). Division of Engineering

Container Listing

Box 1, Folder 1	Analysis of Rigid Frames, 1938
Box 1, Folder 2	Analytical Dynamics and Mechanics, 1948
Box 1, Folder 3	Bridges, 1942-1947
Box 1, Folder 4	Bridge Stresses, 1948-1949
Box 1, Folder 5	Chimneys, undated
Box 1, Folder 6	Column Analogy, c. 1929-1930
Box 1, Folder 7	Concrete, 1940-1949
Box 1, Folder 8	Concrete, 1944-1945
Box 1, Folder 9	Contact Stresses, 1954-1955
Box 2, Folder 1	Determinants, undated
Box 2, Folder 2	Determinants, undated
Box 2, Folder 3	Domes, undated
Box 2, Folder 4	Dynamics, 1948
Box 2, Folder 5	Dynamics, 1949-1953
Box 2, Folder 6	Dynamics, 1954
Box 2, Folder 7	Economics Engineering, 1936
Box 3, Folder 1	Engineering Education, 1944-1946
Box 3, Folder 2	Engineering Materials, 1947
Box 3, Folder 3	Engineering Materials, 1948
Box 3, Folder 4	Engineering Materials, 1948
Box 3, Folder 5	Graphic Statics, undated
Box 3, Folder 6	Hydraulics Class Notes, undated
Box 3, Folder 7	Intermediate Structures, undated

Box 3, Folder 8	Lectures, Dates and Places, 1945-1946
Box 3, Folder 9	Loading of Beams, 1953
Box 3, Folder 10	Mechanics, 1947
Box 3, Folder 11	Miscellaneous Studies, 1938
Box 3, Folder 12	Miscellaneous Unidentified, 1944-1959
Box 4, Folder 1	Photoelasticity, 1938
Box 4, Folder 2	Photoelasticity, 1944
Box 4, Folder 3	Photoelasticity, 1944-1945
Box 4, Folder 4	Photoelasticity, undated
Box 4, Folder 5	Piles, undated
Box 4, Folder 6	Resistance, undated
Box 4, Folder 35	Strain Gages, 1946-1957
Box 4, Folder 36	Strain Gages, 1953
Box 4, Folder 37	Strain Gages, undated
Box 5, Folder 1	Strength of Materials, 1947
Box 5, Folder 2	Strength of Materials, 1953
Box 5, Folder 3	Strength of Materials, 1953
Box 5, Folder 4	Strength of Materials, undated
Box 5, Folder 5	Strength of Materials, undated
Box 5, Folder 6	Stress Analysis, 1954
Box 5, Folder 7	Stress Analysis, 1956
Box 5, Folder 8	Stress Analysis, 1957
Box 5, Folder 9	Stress Analysis, undated
Box 5, Folder 10	Stress Analysis Curves, 1952

Box 6, Folder 1	Structural Frameworks, 1945
Box 6, Folder 2	Structural Problems, 1927
Box 6, Folder 3	Structural Problems, undated
Box 6, Folder 4	Structures, undated
Box 6, Folder 5	Structures, undated
Box 6, Folder 6	Theory of Elasticity, undated
Box 6, Folder 7	Theory of Structures, undated
Box 6, Folder 8	Thick Wall Cylinders, 1953
Box 6, Folder 9	Transmission Towers, undated
Box 6, Folder 10	Ventilation, 1933
Box 6, Folder 11	Wind Stresses, undated
Box 7, Folder 1	Mandragos Notes, undated
Box 7, Folder 2	Concrete Footings Plans, 1946
Box 8, Folder 1	Miscellaneous civil engineering reports , 1930-1959
Box 8, Folder 2	Springs, undated
Box 8, Folder 3	Tall building construction photographs, undated
Box 8, Folder 4	Structural welding, 1946, 1949
Box 8, Folder 5	Structures indeterminate, 1944
Box 8, Folder 6	Structures, miscellaneous systems, 1941-1950
Box 8, Folder 7-8	Trisecting any angle, 1939-1964
Box 8, Folder 9	Wood and fasteners, 1961
Box 9, Folder 1	Chimneys, 1924
Box 9, Folder 2	Civil defense, 1959
Box 9, Folder 3-4	Concrete, 1938-1962

Box 9, Folder 5	Domes, 1938
Box 9, Folder 6	Floor gratings, 1957, 1964
Box 9, Folder 7	Heat transmission, 1947
Box 9, Folder 8	Mandragos, personal (academic and military related), 1935-1958
Box 9, Folder 9	Materials, 1948
Box 9, Folder 10	Meehanite Metal, undated
Box 9, Folder 11	Miscellaneous, 1951-1955
Box 10, Folder 1	New York University field notebook , undated
Box 10, Folder 2	Drawings for the nosegay Flower Shop, 1919 Eye Street, N.W. Washington, DC , 1959