



Smithsonian
National Museum of American History
Kenneth E. Behring Center

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

NMAH.AC.0484

Don Darroch

9/9/1993

Archives Center, National Museum of American History
P.O. Box 37012
Suite 1100, MRC 601
Washington, D.C. 20013-7012
archivescenter@si.edu
<http://americanhistory.si.edu/archives>

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Collection Overview

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| Repository: | Archives Center, National Museum of American History |
| Title: | Nicholas C. Mandragos Papers |
| Identifier: | NMAH.AC.0484 |
| Date: | 1927-1959 |
| Extent: | 2 Cubic feet (7 boxes) |
| Creator: | Mandragos, Nicholas C., (engineer), 1896- Mandragos, Frieda Engineering, Division of (NMAH), Smithsonian Institution |
| Language: | English Collection is in English. |

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

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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:

Engineering, Division of (NMAH), Smithsonian Institution

Container Listing

| | |
|------------------|---|
| Box 1, Folder 1 | Analysis of Rigid Frames, April 21, 1905 |
| Box 1, Folder 2 | Analytical Dynamics and Mechanics, May 01, 1905 |
| 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 10 | Determinants, undated |
| Box 2, Folder 11 | Determinants, undated |
| Box 2, Folder 12 | Domes, undated |
| Box 2, Folder 13 | Dynamics, May 01, 1905 |
| Box 2, Folder 14 | Dynamics, 1949-1953 |
| Box 2, Folder 15 | Dynamics, May 07, 1905 |
| Box 2, Folder 16 | Economics Engineering, April 19, 1905 |
| Box 3, Folder 17 | Engineering Education, 1944-1946 |
| Box 3, Folder 18 | Engineering Materials, April 30, 1905 |
| Box 3, Folder 19 | Engineering Materials, May 01, 1905 |
| Box 3, Folder 20 | Engineering Materials, May 01, 1905 |
| Box 3, Folder 21 | Graphic Statics, undated |
| Box 3, Folder 22 | Hydraulics Class Notes, undated |
| Box 3, Folder 23 | Intermediate Structures, undated |
| Box 3, Folder 24 | Lectures, Dates and Places, 1945-1946 |

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| Box 3, Folder 25 | Loading of Beams, May 06, 1905 |
| Box 3, Folder 26 | Mechanics, April 30, 1905 |
| Box 3, Folder 27 | Miscellaneous Studies, April 21, 1905 |
| Box 3, Folder 28 | Miscellaneous Unidentified, 1944-1959 |
| Box 4, Folder 29 | Photoelasticity, April 21, 1905 |
| Box 4, Folder 30 | Photoelasticity, April 27, 1905 |
| Box 4, Folder 31 | Photoelasticity, 1944-1945 |
| Box 4, Folder 32 | Photoelasticity, undated |
| Box 4, Folder 33 | Piles, undated |
| Box 4, Folder 34 | Resistance, undated |
| Box 4, Folder 35 | Strain Gages, 1946-1957 |
| Box 4, Folder 36 | Strain Gages, May 06, 1905 |
| Box 4, Folder 37 | Strain Gages, undated |
| Box 4, Folder 38 | Strength of Materials, April 30, 1905 |
| Box 4, Folder 39 | Strength of Materials, May 06, 1905 |
| Box 4, Folder 40 | Strength of Materials, May 06, 1905 |
| Box 4, Folder 41 | Strength of Materials, undated |
| Box 4, Folder 42 | Strength of Materials, undated |
| Box 4, Folder 43 | Stress Analysis, May 07, 1905 |
| Box 4, Folder 44 | Stress Analysis, May 09, 1905 |
| Box 4, Folder 45 | Stress Analysis, May 10, 1905 |
| Box 4, Folder 46 | Stress Analysis, undated |
| Box 4, Folder 47 | Stress Analysis Curves, May 05, 1905 |
| Box 6, Folder 48 | Structural Frameworks, April 28, 1905 |
| Box 6, Folder 49 | Structural Problems, April 10, 1905 |
| Box 6, Folder 50 | Structural Problems, undated |

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| Box 6, Folder 51 | Structures, undated |
| Box 6, Folder 52 | Structures, undated |
| Box 6, Folder 53 | Theory of Elasticity, undated |
| Box 6, Folder 54 | Theory of Structures, undated |
| Box 6, Folder 55 | Thick Wall Cylinders, May 06, 1905 |
| Box 6, Folder 56 | Transmission Towers, undated |
| Box 6, Folder 57 | Ventilation, April 16, 1905 |
| Box 6, Folder 58 | Wind Stresses, undated |
| Box 7, Folder 59 | Mandragos Notes, undated |
| Box 7, Folder 60 | Concrete Footings Plans, April 29, 1905 |