Orlan W. Boston Dynamometer Papers, 1927-1950

NMAH.AC.0811
Don Darroch & Robert S. Harding
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Collection Overview

Repository: Archives Center, National Museum of American History

Title: Orlan W. Boston Dynamometer Papers

Identifier: NMAH.AC.0811

Date: 1927-1950

Extent: 0.33 Cubic feet (1 box)

Creator: Boston, Orlan W.
History of Technology, Division of, NMAH, SI

Language: English

Administrative Information

Acquisition Information

Boston donated his papers (and artifacts) to the Division of the History of Technology, Engineering and Industry Collections, (formerly the Division of Civil and Mechanical Engineering), National Museum of American History in 1961. They transferred the papers to the Archives Center in 2002.

Processing Information

Collection processed by Don Darroch and Robert Harding, September 2002.

Preferred Citation


Restrictions

Collection is open for research.

Conditions Governing Use

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Biographical / Historical

Orlan W. Boston graduated from the University of Michigan Engineering College in 1913, received a Masters degree in 1917 and the degree of Mechanical Engineer in 1926. In 1917 he was commissioned
in the U.S. Navy Bureau of Ordnance and later was employed on the Cleveland Tractor Co. In 1921 he rejoined the University of Michigan faculty as Professor, College of Engineering.

Scope and Contents

This collection consists of technical papers, tables, charts, photographs and other information on tests of the physical, and chemical properties of metals, as determined by various cutting and other processes.

Arrangement

The 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:
- Dynamometer
- Mechanical engineering

Types of Materials:
- Articles
- Charts
- Diagrams
- Laboratory notes
- Lectures

Names:
- History of Technology, Division of, NMAH, SI
## Container Listing

| Box 1, Folder 1 | "Machinability of Metals," Paper 22, O.W. Boston |
| Box 1, Folder 2 | "Surface Quality versus Cutting Fluids and Speed Tool stopped in cut to leave Built-up edge and chip attached," O.W. Boston, University of Michigan, ca. 1927 |
| Box 1, Folder 3 | "Methods of Tests for Determining Machinability of Metals in general with Results," Paper 32, O.W. Boston, 1928 |
| Box 1, Folder 4 | "Preliminary Photographic Work in Metal Cutting on a planer to study Chip Formation and >What Happens When Metal is Cut." University of Michigan Machine Tool Lab, O.W. Boston, 1928 (not published) |
| Box 1, Folder 5 | "What Happens When Metal Is Cut?" Paper 44, O.W. Boston, 1928 |
| Box 1, Folder 6 | "A Simple Cutting Tool for Measuring Pressures in the Direction of the Cut" Paper 59, O.W. Boston and C.E. Kraus, 1931 |
| Box 1, Folder 7 | Cutting Temperatures: miscellaneous papers, reports, bibliography and data by students of Prof. O.W. Boston, University of Michigan, 1934-1942 |
| Box 1, Folder 8 | Address on "Machinability of Metals" to American Society for Metals, Hamilton, Ontario, March 1937, O.W. Boston, Professor of Production Engineering, University of Michigan. |
| Box 1, Folder 10 | "Analysis of Machinability Data from Cold-Finished & Heat Treated S"E 1045 Steel," Paper 106, O.W. Boston & W.W. Gilbert, University of Michigan, June 8, 1939 |
| Box 1, Folder 11 | "Cutting Temperatures: Verification of the Two-Tool Thermocouple," William S. Bugielsky, May, 1942 |
| Box 1, Folder 12 | Unbound research papers and writings by O.W. Boston and others, ca. 1924-1950 |