General Electric NELA Park Collection

NMAH.AC.0789
Alison L. Oswald and Harold Wallace
May 2003
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Collection Overview

Repository: Archives Center, National Museum of American History
Title: General Electric NELA Park Collection
Identifier: NMAH.AC.0789
Date: circa 1890s-1969
Extent: 5 Cubic feet (22 boxes)
Creator: General Electric Company
Gotti, Mary Beth
Information, Technology and Society, Div. of (NMAH, SI).
Language: English
Summary: The collection documents the technology of lighting and various business aspects of the General Electric Lighting Division throughout the 20th century and consists of correspondence, bulletins, price lists, business record books, stock certificates, sales and advertising materials, scrapbooks, photographs, and lantern slides.

Administrative Information

Acquisition Information

The collection was donated to the Division of Information Technology and Society (now the Division of Work and Industry) by Mary Beth Gotti, Manager of the General Electric Lighting Institute on March 22, 2001.

Provenance

The collection was transferred from the Division of Information Technology and Society to the Archives Center in October, 2001.

Separated Materials

The Division of Work and Industry (Electricity-related collections) hold several artifacts. See accession numbers: 33,407; 43,120; 68,492; 232,822; 1997.0388 and 1998.0231.

Related Materials

Materials in the Archives Center

William J. Hammer Collection (AC0069)

Processing Information

Processed by Alison L. Oswald, archivist and Harold Wallace (associate curator, May 2003.)
Preferred Citation

General Electric Nela Park Collection, dates, Archives Center, National Museum of American History, Smithsonian Institution

Restrictions

The collection is open for research use.

Researchers must handle unprotected photographs with gloves.

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

Established in 1911, Nela Park (named for the National Electric Lamp Association) in Cleveland, Ohio, has through the present day served as both administrative headquarters and research laboratory for the development and sale of General Electric's (GE) lighting products. In the years following Thomas Edison's electric lamp invention (1879) many companies began to make and sell lighting devices. A merger of Edison Electric and Thomson-Houston Electric in 1892 created GE, which quickly grew to dominate the market. Westinghouse and several much smaller companies struggled to compete. These smaller lamp companies could not afford engineering and research facilities on a scale comparable with those of General Electric.

The National Electric Lamp Company was organized on May 3, 1901, by Franklin S. Terry (Sunbeam Incandescent Lamp Company), and Burton G. Tremaine, H. A. Tremaine and J. Robert Crouse (all from Fostoria Bulb and Bottle Company and Fostoria Incandescent Lamp Company). Terry suggested that the small companies band together to operate an engineering department, conduct lamp research and development, improve manufacturing methods, and build better lamp-making machinery. He further proposed to raise capital from and share patents with GE. This built upon an earlier organization, the Incandescent Lamp Manufacturers Association, organized by GE in 1896. The new National Electric Lamp Company was a holding company in which—unknown even to many of the smaller companies' executives—GE held a controlling (75%) interest. In 1911, GE's involvement with National became public during anti-trust proceedings. GE then purchased the outstanding stock and absorbed the smaller companies by converting them into divisional units.

Thomas Edison had, in 1882, moved his company's lamp manufacturing operation from the Menlo Park laboratory to a new facility in East Newark (Harrison), New Jersey. Named the Edison Lamp Works, this plant became the main administrative and sales facility for Edison Electric's and later GE's, lamp business. Research moved to Edison's new West Orange laboratory. In 1900, after the merger, GE established a research lab in Schenectady, New York. After forming National, Terry and B. G. Tremaine consolidated the administrative functions of that company in Cleveland and by 1910 were actively seeking space for a new office and laboratory campus. They selected a site along Euclid Avenue that was then on the outskirts of town. This became Nela Park (the "Company" had changed to "Association" in 1906). In addition to the National buildings, GE began moving its directly-owned lamp operations to Cleveland after the 1911 settlement. From 1925 through 1930 the various departments at Harrison moved to Nela Park, with the sales department being one of the last to move. GE's lighting research was carried out at both Nela Park and Schenectady.
A focal-point at Nela Park is the GE Lighting Institute, formerly known as the Nela School of Lighting. Organized by the Illuminating Engineering Section of the Engineering Department in 1921, the Lighting Institute continues to train sales people and customers in the use and proper application of various lighting products.

For additional information about Nela Park, General Electric and the National Electric Lamp Company see:


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**Scope and Contents**

The collection consists of approximately five cubic feet of correspondence, bulletins, price lists, business record books, stock certificates, sales and advertising materials, scrapbooks, photographs, and lantern slides. The collection documents the technology of lighting and various business aspects of the GE Lighting Division throughout the twentieth century.

Series 1, Historical Background Materials, 1910-1969, contains documentation on the history of the National Electric Lamp Company and the development of the incandescent lamp. The *European Diary of 1928* is a narrative written by three General Electric employees—Samuel Doane, Chief Engineer, Joseph Kewley, Sales Manager, and George Osborn, Sales Manager. This narrative describes their business trip to Europe in the spring of 1928. It contains black-and-white photographs, menus, brochures, maps, postcards, and drawings detailing their travels in Paris, Nice, Milan, Venice, Berlin, Amsterdam, and England. The *Record of Accomplishment*, 1969, is a chronological listing (time line) of various events and/or accomplishments within General Electric.

Series 2, Executive Records, 1903-1955, consists of correspondence, annual reports, and technical standardization notices. The technical standardization notices were created by the Standardization Committee. This committee made decisions on how to facilitate and increase sales, improve quality, cheapen cost, and further the interests of the members of the Lamp Association. The reports cover a variety of subjects such as packing boxes, felt washers, high candle power lamps, and tabulating machines. Many of the reports contain black-and-white photographs. The *Lamp Committee Reports* seek to detail the demand for incandescent lamps and their improvements.

Series 3, House Organs, 1919-1959, contains documentation on in-house publications for General Electric. The *Stimulator*, 1919-1920, promoted "lighting profits and cemented friendliness, cooperation, progress, and quality." The *Lamp Letter*, 1947-1950, was published by the Lamp Department and dealt specifically with lamp-related issues. The *Lamp Department Bulletin*, 1947-1950, was produced for GE personnel and dealt with a variety of issues from sales to lamp types to licensing issues. The *See Better—Work Better Bulletin*, 1959, was published by the Lamp Division as a service to industrial and commercial lamp users.

Series 4, Sales and Advertising Materials, 1910-1955, includes price lists for lamps from both General Electric and other companies, manufacturers' schedules, data books, sales notebooks for sales representatives, and Edison Mazda Lamp advertising cards. The advertising cards are approximately 3" x 6" and are in color. They contain ad slogans such as "His Only Rival," "Satisfied Customer," Edison's Dream Comes True," "Have You Electricity?" and "I like Lots of Light."
Series 5, NELA School of Lighting Records, 1920-1930, documents the school, now known as the GE Lighting Institute, for training sales people and customers in the proper application of various lighting products. The records contain quarterly reports and general and lighting course descriptions.

Series 6, Business and Stock Records, 1890-1912, contains record and minute books and stock certificates from other lamp companies. The record books contain correspondence, resolutions, stockholder information, and committee reports.

Series 7, Scrapbooks and Photographs, 1890s-circa 1950, contains one scrapbook from 1923 with black and white photographs, clippings, correspondence, charts, telegrams, and booklets documenting General Electric's Nela Park location. The photo albums contain black and white photographs of staff, lamps, bulbs, tubing, tabulating, filaments, lead wires, stems, mounts, and lighting installations. The scrapbook and photo albums have indices.

Series 8, Lantern Slides, 1880-1950, consists of glass plates of Edison, images of people in the workplace, and lighting equipment.

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**Arrangement**

The collection is arranged into eight series.

**Series 1, Historical Background Materials, 1910-1969**

**Series 2, Executive Records, 1903-1955**

Subseries 1.1, Correspondence, 1909-1922
Subseries 1.2, Annual Reports, 1949-1955
Subseries 1.3, Technical Reports, 1903-1935
Subseries 1.4, Standardization Committee, 1903-1908
Subseries 1.5, Lamp Committee, 1909-1935

**Series 3, House Organs, 1919-1959**

**Series 4, Sales and Advertising Materials, 1914-1953**

Subseries 4.1, Miniature Mazda Lamps, 1914-1935
Subseries 4.2, Large Mazda Lamps, 1914-1934
Subseries 4.3, Carbon Lamps, 1915-1922
Subseries 4.4, Miscellaneous, 1914-1953

**Series 5, NELA School of Lighting, 1920-1930**

**Series 6, Business and Stock Records, 1890-1912**

Subseries 1, Business Records, 1890-1912
Subseries 2, Stock Records & Certificates, 1890-1912
Series 7, Scrapbooks and Photographs, 1890s-circa 1950

Series 8, Lantern Slides, 1880-1950

Names and Subject Terms

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

Subjects:
- Electric lighting
- Electricity

Types of Materials:
- Advertisements
- Blotters (writing equipment)
- Business records
- Diaries -- 19th century
- Diaries -- 20th century
- Lantern slides
- Manuals
- Photographs -- 19th century
- Scrapbooks
- Stereographs
- Stock certificates
- Travel diaries
Container Listing

Series 1: Historical Background Materials, 1910-1969

Box 1, Folder 1  
*History of the National Electric Lamp Company, 1910*

Box 1, Folder 2  
*History of the Development of the Incandescent Lamp, 1910* (pages 3-33)

Box 1, Folder 3  
*History of the Development of the Incandescent Lamp, 1910* (pages 34-69)

Box 1, Folder 4  
*History of the Development of the Incandescent Lamp, 1910* (pages 70-112)

Box 1, Folder 5  
Recollections of F.S. Terry about National Electric Lamp, 1925

Box 1, Folder 6  
National Electric Light Association Handbook, 1928

Box 1, Folder 7  
European Diary, 1928 March 17 to 1928 May 25

Box 1, Folder 8  
Record of Accomplishment, circa 1969

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Series 2: Executive Records, 1903-1955

Subseries 2.1: Correspondence, 1909-1922

Box 2, Folder 1

Subseries 2.2: Annual Reports, 1949-1955

Box 2, Folder 2

Subseries 2.3: Technical Reports, 1903-1935

Subseries 2.4: Standardization Committee, 1903-1908

Box 2, Folder 3  Technical Standardization Notices, 1903-1904
Box 2, Folder 4  Technical Standardization Notices, 1905-1906
Box 2, Folder 5  Technical Standardization Notices, 1907-1908

Subseries 2.5: Lamp Committee, 1909-1935


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Series 3: House Organs, 1919-1959

Box 3, Folder 1  The Stimulator, Volume 8, 1919 September-1920 August
Box 3, Folder 2  Lamp Letter, 1947
Box 3, Folder 3  Lamp Letter, 1948
Box 3, Folder 4  Lamp Letter, 1949
Box 3, Folder 5  Lamp Letter, 1950
Box 3, Folder 6  Lamp Department Bulletin, 1947
Box 3, Folder 7  Lamp Department Bulletin, 1948
Box 3, Folder 8  Lamp Department Bulletin, 1949
Box 3, Folder 9  Lamp Department Bulletin, 1950
Box 3, Folder 10 See Better—Work Better, Index, 1959
Box 3, Folder 11 See Better—Work Better, 1959

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Series 4: Sales and Advertising Records, 1914-1953

Subseries 4.1: Miniature Mazda Lamps, 1914-1935
- Box 4, Folder 1: Price lists, 1918-1923
- Box 4, Folder 2: Price lists, 1924-1936
- Box 4, Folder 3: Intermediate price lists, 1918-1923
- Box 4, Folder 4: Manufacturers schedule, 1934-1935
- Box 4, Folder 5: Data books, 1914-1917
- Box 4, Folder 6: Data books, 1919-1930

Subseries 4.2: Large Mazda Lamps, 1914-1934
- Box 5, Folder 1: Price lists, 1918-1926
- Box 5, Folder 2: Price lists, 1920-1934
- Box 5, Folder 3: Standard and intermediate prices, 1927-1934
- Box 5, Folder 4: Manufacturers schedules, 1921-1923
- Box 5, Folder 5: Regular price schedules, 1917-1918
- Box 5, Folder 6: Data books on large Mazda and GEM lamps, 1914-1917
- Box 5, Folder 7: Intermediate price schedules for large Mazda and Gem lamps, 1917-1922

Subseries 4.3: Carbon Lamps, 1915-1922
- Box 6, Folder 1: Data book of miniature carbon lamps, 1916-1918
- Box 6, Folder 2: Data book of large carbon lamps, 1915-1922

Subseries 4.4: Miscellaneous, 1914-1953
- Box 6, Folder 3: Bracket and center span fixtures for Mazda lamps, 1914 (price list)
- Box 6, Folder 4: Data book of standard specifications, 1915-1919
- Box 6, Folder 5: Engineering data on lamps, 1914-1924
- Box 6, Folder 6: Data book for new fixtures and fittings, 1914
- Box 6, Folder 7: Manufacturing sales data book, 1914-1918
Box 6, Folder 8  Price lists for miscellaneous lamps, 1925-1936
Box 6, Folder 9  Chronological list of lamp prices, 1914-1939 and 1947-1953
Box 7, Folder 1  "How to Succeed as a Mazda Lamp Merchant," 1917
Box 7, Folder 2  Sales plan, 1937
Box 7, Folder 3  [S.E. Doanes?] pocket sales notebook, circa 1910
Box 7, Folder 4  R.B. Walling sales notebook, circa 1940
Box 7, Folder 5  *Edison Mazda Lamp Auto Lamp Blue Book*, 1925
Box 7, Folder 6  Independent Lamp and Wire Company, price list, 1914-1917
Box 7, Folder 7  Laco Lamps, data, price lists, and *Mazda Lamp Catechism*, 1920-1922
Box 7, Folder 8  National Electric Lamp Association, 1910
Box 7, Folder 9  Sunbeam Incandescent Lamp Company, price list, 1910
Box 7, Folder 10  General Electric incandescent lamp data book, 1911
Box 8, Folder 1  War production lighting, 1942
Box 8, Folder 2  General Electric Mazda lamp advertising cards, circa 1905-1935
Box 8, Folder 2  112 Mazda B His Only Rival
Box 8, Folder 2  112-5 Mazda B His Only Rival
Box 8, Folder 2  113 Edison GEM Satisfied Customer, 1905
Box 8, Folder 2  116 Edison GEM Ring, 1905
Box 8, Folder 2  3094-2 Mazda A if you can get it…
Box 8, Folder 2  3951 Mazda A Twixt a diamond…
Box 8, Folder 2  3952 Mazda A magnifies
Box 8, Folder 2  3836 Mazda A The GE Tungsten
Box 8, Folder 2  3837 Mazda A The GE Tungsten
Box 8, Folder 2  Image(s)
Box 8, Folder 2  179-2 Mazda B Edison Day
Box 8, Folder 2  109 Mazda B Edison’s dream comes true
Box 8, Folder 2  109-7 Mazda B Edison’s dream comes true
Box 8, Folder 2 115-3 Mazda B You have seen this…
Box 8, Folder 2 214 Mazda B Century's progress
Box 8, Folder 2 232 Mazda B Economy…meter
Box 8, Folder 2 213 Mazda B beyond the socket
Box 8, Folder 2 172 GE Have you electricity…?
Box 8, Folder 2 206 Mazda B Sunshine at her fingertips
Box 8, Folder 2 224 Mazda C create windows…
Box 8, Folder 2 153 Mazda flamingo dancer
Box 8, Folder 2 178 Mazda My doctor said…
Box 8, Folder 2 920 Mazda Lessons are learned…
Box 8, Folder 2 923 Mazda Light up…for cheerfulness
Box 8, Folder 2 928 Mazda I like lots of light Image(s)
Box 8, Folder 2 212 Mazda B Open wide the gateway…
Box 8, Folder 2 177 Mazda B Constant delight
Box 8, Folder 2 230-2 Mazda B Bear in mind
Box 8, Folder 2 231 Mazda B California's native sun
Box 8, Folder 2 240 Mazda B California's native sun
Box 8, Folder 2 142 Mazda B This is a reproduction…
Box 8, Folder 2 207-2 Mazda C This is a reproduction…
Box 8, Folder 2 150 Mazda B Do you know the difference…?
Box 8, Folder 2 LaCo Lamps
Box 8, Folder 2 CS-327 Sunbeam Mazda Mays Electric Shop Image(s)
Box 8, Folder 2 220 Mazda A lamp in reserve
Box 8, Folder 2 Y-1177 Edison Mazda Box of 5
Box 8, Folder 2 147 Signs Suppose you had a loadstone
Box 8, Folder 2  
148 What do you think of electric signs?

Box 8, Folder 3-4  
Electrical advertising, 1919-1928

Box 8, Folder 5  
Experimental House, 1934 and Lighting Institute, circa 1940s (brochures)

Box 20, Folder 3  
General Electric fluorescent lamps…Why They Are Such Big Value? circa 1955 (advertising book)

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Series 5: NELA School of Lighting Records, 1920-1930

Box 9, Folder 1  "The Lighting Business," 1929
Box 9, Folder 2  Quarterly reports, 1920-1921
Box 9, Folder 3  Quarterly reports, 1922-1923, 1925
Box 9, Folder 4  General course, 1927
Box 9, Folder 5  General course, 1928
Box 9, Folder 6  General course, 1929-1930
Box 9, Folder 7  Home lighting, 1927
Box 9, Folder 8  Home lighting, 1928-1929

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Series 6: Business and Stock Records, 1890-1912

Subseries 6.1: Business Records, 1890-1912

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<thead>
<tr>
<th>Box</th>
<th>Company/Record Description</th>
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<td>10</td>
<td>Buckeye Electric Company, Minute book, 1890 February 11-1912 April 11</td>
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<td>11</td>
<td>Columbia Incandescent Lamp Company, Record book, 1890 January 4-1912 June 28</td>
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<td>12</td>
<td>National Electric Lamp Company, Record book, 1901 May 2-1912 August 1</td>
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Subseries 6.2: Stock Records and Certificates, 1890-1912

<table>
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<tr>
<th>Box</th>
<th>Company/Record Description</th>
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<tr>
<td>15, Folder 1</td>
<td>Blank stock certificates, undated</td>
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<tr>
<td>15, Folder 1</td>
<td>Aladdin Electric Company</td>
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<td>Image(s)</td>
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<tr>
<td>15, Folder 1</td>
<td>American Electric Lamp Company</td>
</tr>
<tr>
<td>15, Folder 1</td>
<td>Anaero Bottle &amp; Glass Specialty Company</td>
</tr>
<tr>
<td>15, Folder 1</td>
<td>Banner Electric Company</td>
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<tr>
<td>15, Folder 1</td>
<td>Bryan Marsh Company</td>
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<td>15, Folder 1</td>
<td>Buckeye Electric Company</td>
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<td>Image(s)</td>
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<td>15, Folder 1</td>
<td>Cleveland Gas &amp; Electric Fixture Company</td>
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<td>15, Folder 1</td>
<td>Columbia Electric Company</td>
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<tr>
<td>15, Folder 1</td>
<td>Columbia Incandescent Lamp Company</td>
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<tr>
<td>15, Folder 1</td>
<td>Conneaut Company</td>
</tr>
<tr>
<td>15, Folder 1</td>
<td>Dixie Warehouse Company</td>
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<td>15, Folder 1</td>
<td>Eagle Lamp Company</td>
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<td>15, Folder 1</td>
<td>Economical Electric Lamp Company</td>
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<td>15, Folder 1</td>
<td>Economy Electric Company</td>
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<tr>
<td>15, Folder 1</td>
<td>Federal Miniature Lamp Company</td>
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<td>Image(s)</td>
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<td>15, Folder 1</td>
<td>Fostoria Bulb &amp; Bottle Company</td>
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</table>
Box 15, Folder 1  Fostoria Glass Specialty Company
Box 15, Folder 1  Fostoria Incandescent Lamp Company
Box 15, Folder 1  General Incandescent Lamp Company
Box 15, Folder 1  Jaeger Miniature Lamp Manufacturing Company
Box 15, Folder 1  Marlborough Electric Machine & Lamp Company
Box 15, Folder 1  Moline Incandescent Lamp Company
Box 15, Folder 1  Monarch Incandescent Lamp Company
Box 15, Folder 1  Munder Electric Company
Box 15, Folder 1  National Electric Lamp Company
Box 15, Folder 1  Nela Company
Box 15, Folder 1  New York and Ohio Company
Box 15, Folder 1  Rhode Island Glass Company
Box 15, Folder 1  Shelby Electric Company
Box 15, Folder 1  Standard Electric Manufacturing Company
Box 15, Folder 1  Sterling Educational Manufacturing Company
Box 15, Folder 1  Sunbeam Incandescent Lamp Company
Box 15, Folder 1  Tantalum Electric Lamp Company
Box 15, Folder 1  Tungsten Electric Lamp Company
Box 15, Folder 1  Tungstolier Company
Box 15, Folder 1  Warren Electric and Specialty Company
Box 15, Folder 2  Bryan Marsh Company, 1893 November 18-1912 March 23
Box 15, Folder 3  Colonial Electric Company, 1899 September 25-1912 February 17
Box 13, Folder 1  Columbia Incandescent Lamp Company, 1890 January 25-1912 February 12
Box 13, Folder 2  
Shelby Electric Company, 1898 April 12-1908 July 20

Box 14, Folder 1  
Sunbeam Incandescent Lamp Company, 1900 March 31-1910 February

Box 14, Folder 2  
Sunbeam Incandescent Lamp Company, 1892 April 22-1900 March 31

Box 15, Folder 4  
Warren Electric & Specialty Company, 1895 July 27-1902 February 10

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Series 7: Scrapbooks and Photographs, 1890s-circa 1950

<table>
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<th>Box</th>
<th>Folder</th>
<th>Description</th>
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<tbody>
<tr>
<td>16</td>
<td>1-3</td>
<td>Scrapbook, 1911-1923</td>
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<tr>
<td>17</td>
<td>1-5</td>
<td>Photo album #1, circa 1890s-1930s</td>
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<tr>
<td>17</td>
<td>6-13</td>
<td>Photo album #2, circa 1890s-1930s</td>
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<tr>
<td>18</td>
<td>1-8</td>
<td>Photo album #3, circa 1890s-1930s</td>
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<tr>
<td>19</td>
<td></td>
<td>Photo album #4, circa 1890s-1930s</td>
</tr>
<tr>
<td>16</td>
<td>4-6</td>
<td>Photo album of Lighting Institute, circa 1950</td>
</tr>
<tr>
<td>20</td>
<td>1-2</td>
<td>Photo album of Fremont, circa 1905</td>
</tr>
</tbody>
</table>

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Series 8: Lantern Slides, 1880-1950

Box 21
#20, Portrait of Thomas Edison, undated
#51-120572, National Mazda automotive lamp display, undated
#9, Long-Legged Mary-Ann Generator, undated
#22-11 Long-legged Mary-Ann Generator, undated
Reproduction Edison Lamp, undated
#5, Thomas Edison and workers in Menlo Park Lab, undated
#19, Thomas Edison in lab, circa 1930
#7G5, Women in office, undated
#7G4, Woman in office, undated
#7G15A, Office lighting, undated
#7G15B, Office lighting, undated
#7G15C, Office lighting (with fluorescent luminaries?), undated
#24C5, Exterior parking lot lighting, circa 1950
#22A48A, Fluorescent store lighting, 1940s
#6F28, Interior factory lighting, undated
#6E7, Interior factory lighting, undated
#6F29A, Fluorescent interior commercial lighting, undated
#6F29, Fluorescent interior commercial lighting, undated
#7C5, Fluorescent office lighting, undated
#7C72, Incandescent office lighting, undated
#6T11C, Interior lighting in a laboratory, fluorescent room and task, undated
#6T10A, Lighting a machine (with PAR lamps?), undated
#10L25A, Interior commercial lighting a jewelry store, undated
#10M30C, Boston shoe store, circa 1905
#10M31C, Boston shoe store, circa 1930
| Box 21     | #10521B, Fluorescent lighting in a paint store, undated         |
| Box 21     | #10535, Retail lighting, undated                                |
| Box 21     | #6B21HC, Interior factory lighting, undated                    |
| Box 21     | #2A, Fluorescent lighting in a lab, undated                    |
| Box 21     | #6B6, Interior factory lighting, undated                       |
| Box 21     | #22C2, Interior factory lighting (Cooper-Hewitt tubes?)        |
| Box 21     | #6J2A, Interior factory lighting, fluorescent task lighting, undated |
| Box 21     | #6J2B, Interior factory lighting, fluorescent area lighting, undated |
| Box 21     | #22C3, Shop lighting, fluorescent lamps, undated               |
| Box 21     | #22C4, Factory lighting, undated                               |
| Box 21     | #6P9A, Factory lighting "before," undated                      |
| Box 21     | #6P9B, Factory lighting "after," undated                       |
| Box 21     | #6N1, "Before" lighting in heavy industry, undated             |
| Box 21     | #6N2, "Later" lighting in heavy industry, undated               |
| Box 21     | #6N3, "After" lighting in heavy industry, undated              |
| Box 21     | #6K1, Fluorescent shop lighting, undated                       |
| Box 21     | #22C1, Factory lighting, undated                               |
| Box 21     | #24P1, Exterior post-luminary, circa 1930s                     |
| Box 21     | #51-60-739, Lighting in a car wash, circa 1911                 |
| Box 21     | #12, Auto-lighting test-car, undated                           |
| Box 22     | #10, Control panel of lighting test-car, undated               |
| Box 22     | #11, Mounting lamps on lighting test-car, undated              |
| Box 22     | #11, Comparison of carbon, tantalum and Mazda B lamps, undated |
| Box 22     | GEM Lamp, 1909                                                |
| Box 22     | First Tipless Meridian Lamp, 1906                              |
| Box 22     | Tungsten 1907 Vacuum Lamp, undated                            |
Box 22  #6D1, B17 production of incandescent lamps, undated
Box 22  #3C, Exterior view Boeing Stratocruiser in flight, undated
Box 22  #7, Aircraft interior, circa 1944
Box 22  #4A8, 75kw lamp, undated
Box 22  #1-10088, Exterior of Lighting Research Institute at Nela Park, undated
Box 22  #3, Thomas Edison, circa 1880
Box 22  #10, Painting of Langmuir, Whitney, and Coolidge, undated
Box 22  #24N1, Incandescent pole lighting at a service station, undated
Box 22  #7B34B, Two women in an office, undated
Box 22  #9A31A, Schoolroom lighting, undated
Box 22  #9A46, Schoolroom lighting, undated
Box 22  #9A100A, Schoolroom lighting, undated
Box 22  #9A100, Schoolroom lighting, undated
Box 22  #7G2, Women in office, incandescent [secretarial pool?], undated
Box 22  #7G3, Women in office, fluorescent, undated
Box 22  #7D23, Office lighting, fluorescent, undated
Box 22  #10521A, "Before" view of the paint store, incandescent, undated
Box 22  #16, Thomas Edison and the 50kw lamp, 1929
Box 22  #15, Interior residential lighting, undated
Box 22  #14, Residential interior lighting [bare bulb], circa 1900
Box 22  #13, [Hotel?] interior lighting, circa 1950
Box 22  #12, Interior bedroom lighting, circa 1900
Box 22  #11, [Bathroom?] Lighting, undated
Box 22  #10, Interior residential lighting, circa 1900
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Box 22  #8, Duplicate of #10, undated
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Box 22 #4, Pilgrims lighting an oil lamp, undated
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