Guide to the Lick Observatory Records: Business records UA.036.Ser.02

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The Lick Observatory was completed in 1888 and continues to be an active astronomy research facility at the summit of Mount Hamilton, near San Jose, California. It is named after James Lick (1796-1876), who left $700,000 in 1875 to purchase land and build a facility that would be home to “a powerful telescope, superior to and more powerful than any telescope yet made”. The completion of the Great Lick Refractor in 1888 made the observatory home to the largest refracting telescope in the world for 9 years, until the completion of the 40-inch refractor at Yerkes Observatory in 1897. Since its founding in 1887, the Lick Observatory facility has provided on-site housing on Mount Hamilton for researchers, their families, and staff, making it the world’s oldest residential observatory.

James Lick was born in Fredericksburg, Pennsylvania in 1796, and spent much of his life building organs and pianos in Pennsylvania and Maryland, as well as in South America. In 1847, he moved to San Francisco, where he started purchasing large amounts of real estate that made him a sizable fortune. Near the end of his life he began discussing ways to leave a legacy in the form of a monument of some kind, and settled on the idea of building something that would advance science, technology, and human knowledge. In 1874, Lick set up the first of three trusts to devote $700,000 to the construction of the most powerful and superior telescope in the world. Richard S. Floyd was the president of the board of trustees of the successful third Lick Trust, and Thomas Fraser was the foreman and superintendent of the entire construction project of the observatory. In August 1875, Lick selected Mount Hamilton in Santa Clara County, California as the site for the observatory after consulting with Fraser. One of the conditions of Mr. Lick’s donation for the observatory was that the County would construct a suitable road to the summit of Mount Hamilton, which the County agreed to do. Lick passed away in 1876 before the completion of the observatory, and was later buried at the base of the pier of the Great Lick Refractor.

As chairman of the board of Lick Trustees, Richard S. Floyd was entrusted with making sure the observatory was the greatest of its time. Having no formal training in astronomy or in the use of its instruments, Floyd recruited astronomers Simon Newcomb and E.S. Holden as scientific advisors in planning the buildings and the astronomical equipment. They invited astronomer S.W. Burnham, well known for his work on double stars, to conduct tests on the atmospheric conditions on the mountain, and he found that the observing conditions were among the most favorable he had experienced.

The main telescope that was initially built at Lick Observatory was the 36-inch equatorial refractor, also known as the Great Lick Refractor, completed in 1888. Alvan Clark & Sons shaped the objective lens, and Warner & Swasey constructed the telescope mounting. With the completion of the Great Lick Refractor and the reconstruction of the Crossley 35-inch reflecting telescope in 1895, the Observatory has been home to some of the world’s most powerful telescopes. Early research at the Observatory made important contributions to the development of instruments for detecting, photographing, and taking measurements of celestial objects. The Observatory continued to pioneer research in the astronomical applications of spectroscopy and photography throughout the 20th century with the addition of the Carnegie 20-inch double astrograph camera (1941) and the Shane 120-inch reflector telescope (1959), which at the time of its construction was the second largest reflector after the 200-inch at Palomar Observatory. As of 2015, Lick Observatory leads in extrasolar and extragalactic research with the Katzmann Automatic Imaging Telescope (1998), which searches for supernovae, and the Automatic Planet Finder (2013), which searches for planets capable of sustaining life.

Some other examples of notable research conducted at the Lick Observatory throughout the decades include the double star survey initiated in 1888 by S.W. Burnham and E.E. Barnard, and continued by director R.G. Aitken and Hamilton Jeffers through the mid-twentieth century, as well as work in radial velocity and spectroscopy started in 1896 by W.W. Campbell, who later became director for almost 30 years. Campbell also oversaw the majority of the Lick Observatory’s solar eclipse expeditions through the early 20th century, traveling to multiple locations in Asia, Africa, Australia, and North and South America to study eclipses in their areas of totality.
The Observatory is currently operated by and headquartered at the University of California, Santa Cruz, and is part of the University of California Observatories (UCO) system. The Observatory was originally transferred to the Regents of the University of California by the James Lick Trust in 1888, and was an independent campus of the UC system until 1958, when it was made part of the University of California, Berkeley. On July 1, 1965, the administration of Lick Observatory was officially transferred from UC Berkeley to UC Santa Cruz, and the following year the astronomers relocated their offices and residences to Santa Cruz, along with the astronomy shops, materials from the observatory's library, and historical documents that made up the archives of the observatory. Mary Lea Shane served as the custodian of the archives both on Mount Hamilton and at UC Santa Cruz, preserving and indexing the correspondence, logs, business records, photographs, and research materials from the observatory's history. In 1982, a ceremony was held at the library to name this collection the Mary Lea Shane Archives of the Lick Observatory. These records are now available as the Lick Observatory Records, collection UA 36, in the Special Collections and Archives department of the UCSC McHenry Library.

For additional references with more information on the Lick Observatory and its history, see the Bibliography section of this finding aid.

Preferred Citation
Lick Observatory Records: Business records. UA 36 Ser.02. University Archives, University Library, University of California, Santa Cruz.

Related Materials
Related materials can be found in the following series of Lick Observatory records:
- UA.036 Series 1: Correspondence
- UA.036 Series 3: Directors' files
- UA.036 Series 4: Expeditions
- UA.036 Series 5: Research and Publication files
- UA.036 Series 6: Glass negatives
- UA.036 Series 7: Photographs
- UA.036 Series 8: Lick History

Scope and Contents
This collection contains the business records of the Lick Observatory, including materials related to observatory operations on Mount Hamilton in the late 19th and 20th centuries. The main areas of the series include financial files, business correspondence, and materials related to the planning and construction of the main observatory and related buildings on Mount Hamilton. Information on the original Lick Trust and trustees is included, as well as land acquisition materials, maps of the surrounding area, and files on the maintenance of buildings and grounds.

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Bibliography
Consult the following resources for more information about Lick Observatory:
- Handbook of the Lick Observatory of the University of California. San Francisco: Bancroft, 1888.


**Subjects and Indexing Terms**
- Business records
- Lick Observatory

**Annual reports 1888-1985 1904-1958**
- Container Summary: 41 folders and 2 copybooks
- Scope and Contents note
  - Includes annual and biennial reports from Lick Observatory directors, as well as notes and reports from other astronomers and staff.

**Applications 1905-1955**
- Container Summary: 38 folders
- Scope and Contents note
  - Contains employment applications for janitors, engineers, astronomer fellowships, computers, machinists, secretaries, observers, boarding house keepers, electricians, automobile drivers, and clerical and library work. Also includes correspondence with directors, curriculum vitae, and recommendations.

**Automobiles 1899-1968**
- Container Summary: 16 folders
- Scope and Contents note
  - Includes correspondence, monthly reports of automobile expenses and mileage, truck reports, automobile company advertisements, and insurance policies.

**Buildings and grounds 1883-1971**

**General files 1882-1971**
- Container Summary: 27 folders
- Scope and Contents note
  - Includes inventories, requisitions, quotes, correspondence, plans, drawings, and maps. Topics include improvement plans, laboratory information, addition proposals, renaming of buildings, and the observatory cornerstone in 1883.

**Architectural drawings and specifications 1877-1932**
- Container Summary: 24 folders
- Scope and Contents note
  - Includes smaller blueprints, other architectural drawings, topographical survey maps, and architectural specifications for buildings on Mount Hamilton. Named architects include Warren Charles Perry, John Galen Howard, Howard & Galloway, and Atlas Building.
**Blueprints, oversized**

**Arrangement**
Blueprints are arranged alphabetically by title.

**Scope and Contents note**
Includes large blueprints and other architectural drawings from original construction and renovation of Lick Observatory buildings on Mount Hamilton. Also includes electric wiring diagrams, surveys, and related plans.

**map-case G2-3, folder 1**

**120" Telescope Building 1949**
Container Summary: 11 drawings

**Scope and Contents note**
John Case

**map-case G2-3, folder 2**

**120" Telescope Building - #10931 1959 April 29**

**map-case G2-3, folder 3**

**20" Double Photographic Telescope Building 1939**
Container Summary: 6 drawings

**map-case G2-3, folder 4**

**20" Double Photographic Telescope Building - First floor plan, electric layout - #1960 1939 September 21**

**20" Double Photographic Telescope Building - General wiring diagram 1938-1939**
Scope and Contents note
Warner & Swasey Co.

**map-case G2-3, folder 5**

**36" Refractor Building - Construction Sequence for Installation of New Dome Trucks 1963-1964**
Container Summary: 14 drawings

**Scope and Contents note**
McClure & Messinger

**map-case G2-3, folder 6**

**36" Telescope (Equatorial) - Center piece of tube for Lick Observatory 1886**
Physical Characteristics and Technical Requirements note
26" x 19.5", Mounted on cardboard

**map-case G2-3, folder 6**

**36" Telescope (Equatorial) - Declination Axis for Lick Observatory 1886**
Container Summary: 2 copies
Scope and Contents note
Warner & Swasey
Physical Characteristics and Technical Requirements note
26" x 19.5", Mounted on cardboard

**map-case G2-3, folder 7**

**36" Telescope (Equatorial) - Polar Axis for Lick Observatory 1886**
Container Summary: 2 copies
Physical Characteristics and Technical Requirements note
26" x 19.5", Mounted on cardboard

**map-case G2-3, folder 7**

**36" Telescope (Equatorial) - Star Spectrograph undated**
Scope and Contents note
J.E. Keeler
Physical Characteristics and Technical Requirements note
14" x 34.5", Mounted on cardboard
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<td><strong>36&quot; Telescope Building - Details of Dome Base and Guide Wheels 1886</strong></td>
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<td><strong>Arrangement of Edison Dynamo #1000 Watt Engine &amp; Boiler - Lick Observatory</strong></td>
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<td>Dining Hall, Remodel Kitchen - Floor plan, interior and exterior elevations and notes - #11258 1959 October 23</td>
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<td>Dormitory addition - Partial second floor plan and elevations - #10490 1958 June 27</td>
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<td>Dormitory Building, sheet 1 1912</td>
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<td>General Shops Building - Fire Sprinkler Plan - sheet 1 of 1 - #12616 1964 April 22</td>
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   Physical Characteristics and Technical Requirements note
   22.25" x 34.5", Pencil on Paper

map-case G2-3, folder 2  Laboratory and Measuring Building - Air Conditioning for Star Survey & Measuring Engines - #29484 R2 1962 September 6
   Physical Characteristics and Technical Requirements note
   22.25" x 34.5", Pencil on Paper

map-case G2-3, folder 2  Laboratory and Measuring Building - Building landscaping, phase 2 - #10731 1958
   December 23

map-case G2-3, folder 1  Laboratory and Measuring Building - Topographic Survey Data - #9506 1955
   November 8
map-case G2-3, folder 2  Library addition court landscaping - Grading, staking, and details - #10079 1957
   March 21

map-case G2-5, folder 6  Lick Observatory - “Stone Sill” undated
   Scope and Contents note
   Possibly incomplete drawing
   Physical Characteristics and Technical Requirements note
   35.5" x 45.5", Ink on Linen

map-case G2-5, folder 6  Lick Observatory - 1st Floor & 2nd Floor plan undated
   Scope and Contents note
   Wright & Sanders
   Physical Characteristics and Technical Requirements note
   47" x 29.5", Ink on Linen

map-case G2-5, folder 6  Lick Observatory - North East Entrance undated
   Scope and Contents note
   Wright & Sanders
   Physical Characteristics and Technical Requirements note
   22.75" x 35.75", Ink on Linen

map-case G2-3, folder 2  Lick Observatory Additions to Electric Primary System - #5069 1947 November 5
   Container Summary: 2 copies

map-case G2-3, folder 4  Lick Observatory Electric Substation - Architectural plans, plot plan, and details - #5229F 1948 February 24
map-case G2-3, folder 4  Lick Observatory Electric Substation - Architectural plans, plot plan, and details (revised) - #5229F 1948 March 26
map-case G2-3, folder 2  Lick Observatory Main building - Alterations, details of display cases - #9382 1955
   August 8
map-case G2-5, folder 6  Lick Observatory Meridian Circle House - South Front 1884 May 7
   Scope and Contents note
   T.E. Fraser
   Physical Characteristics and Technical Requirements note
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<td>Lick Observatory Mount Hamilton, Plan no.1 1880 April</td>
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<td>Lick Observatory Seismograph Record 4/18/1906 - 5:12:12am PST - Duration of Record 3M 45S 1906 April 18</td>
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<td>Lick Observatory Underground Cable Arrangement - #4113D 1923 January 17</td>
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<td>Main Observatory building - Alterations to wooden entrances - #11200 1959 August 28</td>
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<td>Main Observatory building alterations - Aluminum windows and glazing for north wing - #10451 1958 May 1</td>
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<td>map-case G2-3, folder 2</td>
<td>Main Observatory building alterations - Aluminum windows and glazing for south wing - #9384 1955 June 14</td>
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<td>Mount Hamilton Buried Cable Diagram 1950-1958</td>
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<td>Mount Hamilton Small Tracing - #10950, #11199, #9886 - US Post Office, Laboratory and Measuring Building 1957-1959</td>
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<td>Mount Hamilton Small Tracing - #1960 Building for 20&quot; Double Photographic Telescope - 1st floor plan - Electric Layout 1939 September 2</td>
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<td>Mount Hamilton Small Tracing - #2030 Building for 20&quot; Double Photographic Telescope - sheet S101 - Foundation Plan 1930 October 3</td>
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<td>Mount Hamilton Small Tracing - #9236 Building Area Survey 1953 July 3</td>
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<td>Mount Hamilton Small Tracing - #9237 UC Mount Hamilton Campus 1957 May 21</td>
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<td>Mount Hamilton Small Tracing - #9398 Lick Observatory Building Aluminum Doors 1955 June 27</td>
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<td>22.25&quot; x 34.5&quot;</td>
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<td>G2-5, Folder 6</td>
<td>Observers' House - 3rd Floor and roof - sheet #2 undated</td>
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<td>Observers' House - Contour Lines, Profiles and Cross Sections of the Observatory peak on Mount Hamilton surveyed by Herrmann Bros., Santa Clara, CA 1877 February</td>
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<td>Observers' House - East Elevation &amp; South Elevation - sheet #4 undated</td>
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<td>G2-5, Folder 5</td>
<td>Observers' House - First floor and second floor plans, sheet #1 undated</td>
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<td></td>
<td>Scope and Contents note</td>
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<td>Wright &amp; Sanders</td>
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<tr>
<td>G2-5, Folder 5</td>
<td>Observers' House - First floor and second floor plans, sheet #2 undated</td>
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<td>Scope and Contents note</td>
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<td>Wright &amp; Sanders</td>
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<td>G2-3, Folder 2</td>
<td>Observers/astronomers' residence - Site plan, roof plan - #9799 1956 October 31</td>
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<td>G2-3, Folder 2</td>
<td>Photographic building - Existing building floor plans, section - #9521 1956 February 2</td>
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<td></td>
<td>Scope and Contents note</td>
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<tr>
<td></td>
<td>Howard &amp; Galloway, architect</td>
</tr>
<tr>
<td>G2-3, Folder 2</td>
<td>Piping layouts, utilities plan, and planting plan - #10080 1957 March 21</td>
</tr>
<tr>
<td>G2-5, Folder 2</td>
<td>Re-Mounting for Crossley Reflecting Telescope 1902</td>
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<tr>
<td></td>
<td>Container Summary: 4 copies</td>
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<tr>
<td></td>
<td>Physical Characteristics and Technical Requirements note</td>
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<tr>
<td></td>
<td>27.5&quot; x 22&quot;, Mounted on cardboard</td>
</tr>
<tr>
<td>G2-3, Folder 2</td>
<td>School House Alteration - Elevations, sections, and details - #9182 1954 August 12</td>
</tr>
<tr>
<td>G2-3, Folder 2</td>
<td>School House Alteration - First floor plans, foundation and basement floor plan - #9181 1954 August 12</td>
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</table>
map-case G2-3, folder 2  Single Family Staff Residence, Kepler Peak - 1st floor & roof plan - #5012 Rev. sheet 2 of 3 1950 December 14
Scope and Contents note
Wm. F. Hempel, architect
Physical Characteristics and Technical Requirements note
18" x 35", Pencil on paper

map-case G2-3, folder 2  Single Family Staff Residence, Kepler Peak - 1st floor, doors - #20485 circa 1950
Scope and Contents note
Wm. F. Hempel, architect
Physical Characteristics and Technical Requirements note
20.75" x 30", Pencil on paper

map-case G2-3, folder 2  Single Family Staff Residence, Kepler Peak - Basement plan, Eaves - #20484 circa 1950
Scope and Contents note
Wm. F. Hempel, architect
Physical Characteristics and Technical Requirements note
20.75" x 30", Pencil on paper

map-case G2-3, folder 2  Single Family Staff Residence, Kepler Peak - Elevation, Typical cornice & rake - #5012 Rev. sheet 3 of 3 1950 December 14
Scope and Contents note
Wm. F. Hempel, architect
Physical Characteristics and Technical Requirements note
18" x 35", Pencil on paper

map-case G2-3, folder 2  Single Family Staff Residence, Kepler Peak - Elevations plans, front, rear, side - #20486 circa 1950
Scope and Contents note
Wm. F. Hempel, architect
Physical Characteristics and Technical Requirements note
20.75" x 30", Pencil on paper

map-case G2-3, folder 2  Single Family Staff Residence, Kepler Peak - Entrance Details - #5012 sheet 6 of 8 1950 June 22
Scope and Contents note
Wm. F. Hempel, architect
Physical Characteristics and Technical Requirements note
18" x 35", Pencil on paper

map-case G2-3, folder 2  Single Family Staff Residence, Kepler Peak - Foundation Plan - #20483 circa 1950
Scope and Contents note
Wm. F. Hempel, architect
Physical Characteristics and Technical Requirements note
20.75" x 30", Pencil on paper
map-case G2-3, folder 2

Single Family Staff Residence, Kepler Peak - Foundation Plan - #5012 Rev. sheet 1 of 3 1950 December 14

Scope and Contents note
Wm. F. Hempel, architect
Physical Characteristics and Technical Requirements note
18” x 35”, Pencil on paper

map-case G2-3, folder 2

Single Family Staff Residence, Kepler Peak - General Conditions & Specifications - #5012 sheet 7 of 8 1950 June 22

Scope and Contents note
Wm. F. Hempel, architect
Physical Characteristics and Technical Requirements note
18” x 35”, Pencil on paper

map-case G2-3, folder 2

Single Family Staff Residence, Kepler Peak - General Conditions & Specifications - #5012 sheet 8 of 8 1950 June 22

Scope and Contents note
Wm. F. Hempel, architect
Physical Characteristics and Technical Requirements note
18” x 35”, Pencil on paper

map-case G2-3, folder 2

Single Family Staff Residence, Kepler Peak - General Notes - #5021 sheet 2 of 8 1955 June 22

Scope and Contents note
Wm. F. Hempel, architect
Physical Characteristics and Technical Requirements note
18” x 35”, Pencil on paper

map-case G2-3, folder 2

Single Family Staff Residence, Kepler Peak - Interior Finish schedule, Paint schedule #5012 sheet 3 of 8 1950 June 22

Scope and Contents note
Wm. F. Hempel, architect
Physical Characteristics and Technical Requirements note
18” x 35”, Pencil on paper

map-case G2-3, folder 2

Single Family Staff Residence, Kepler Peak - Section AA, BB, Fixed Glass details, elevations - #5012 sheet 5 of 8 1950 June 22

Scope and Contents note
Wm. F. Hempel, architect
Physical Characteristics and Technical Requirements note
18” x 35”, Pencil on paper

map-case G2-3, folder 2

Single Family Staff Residence, Kepler Peak - Septic Tank details - #5021 sheet 1 of 8 1955 June 22

Scope and Contents note
Wm. F. Hempel, architect
Physical Characteristics and Technical Requirements note
18” x 35”, Pencil on paper
map-case G2-3, folder 2

**Single Family Staff Residence, Kepler Peak - Typical Overhang, Typical rake details #5012 sheet 4 of 8 1950 June 22**

- Scope and Contents note
- Wm. F. Hempel, architect
- Physical Characteristics and Technical Requirements note
- 18” x 35”, Pencil on paper

map-case G2-3, folder 2

**Sole Plates for Lower Track Ring undated**

- Physical Characteristics and Technical Requirements note
- 23” x 27”, Mounted on cardboard

map-case G2-3, folder 2

**Staff Apartment - Proposed floor plans and exterior elevations - #111231 1959 September 18**

map-case G2-3, folder 2

**Staff Apartment - Proposed floor plans and exterior elevations - #111231 1959 September 18**

map-case G2-3, folder 2

**Staff Cottage - Basement plan sections and details - #9388 1955 June 21**

map-case G2-3, folder 2

**Staff Cottage - Basement plan, sections - #9704 1956 August 10**

map-case G2-3, folder 2

**Staff Cottage - Exterior elevation - #9706 1956 August 10**

map-case G2-3, folder 2

**Staff Cottage - First floor plan, finish schedule, window details - #9705 1956 August 10**

map-case G2-3, folder 2

**Staff Cottage - Foundation plan and details, eave details, kitchen elevations - #9703 1956 August 10**

map-case G2-3, folder 2

**Staff Cottage - Site plan and plot plan - #9387 1955 June 21**

map-case G2-3, folder 2

**Staff Cottage - Site plan, roof plan - #9702 1956 August 10**

map-case G2-5, folder 5

**Vault Building - Details of metal windows and fireplaces, sheet 302 1907 March 2**

- Scope and Contents note
- Howard & Galloway

map-case G2-5, folder 5

**Vault Building - Details, sheet 301 1907 January 8**

- Scope and Contents note
- Howard & Galloway

map-case G2-5, folder 5

**Vault Building - Plan of roof and second floor, sheet 601 1906 December 6**

- Scope and Contents note
- Howard & Galloway

box 4-5

**Boarding house and dining hall 1906-1960**

- Container Summary: 4 folders

box 8, box 116

**Domes 1885-1888, 1959-1960**

- Container Summary: 1 folder and 2 oversized items
- Scope and Contents note
- Includes Phoenix Iron Works proposal for early dome, correspondence about Crocker Dome, and schematic drawings of Great Dome by Thomas Fraser (1885).
box 7

**Inventories 1888-1915**

Container Summary: 6 folders

box 8-11

**Progress reports 1950-1958**

Container Summary: 28 folders

Scope and Contents note

Contains construction progress and inspection report books from UC office of architects and engineers. Includes library addition, dormitories, 120" telescope installation, and Laboratory and Measurements building.

box 11-12

**Record cards and record sheets 1924-1934**

Container Summary: 2 folders

---

box 28

**Rotunda remodel 1927-1930**

box 12

**Civil defense and disaster preparation 1952-1959**

Scope and Contents note

Includes correspondence, test reports, and bulletins.

box 12, box 86-87

**Computers/computing 1953-1991**

Container Summary: 12 folders

Scope and Contents note

Includes proposal and other material on the T-1 project to provide network connectivity between Mount Hamilton and UC Santa Cruz, as well as data logs, notes, specifications, and plans pertaining to the Photometer Data Taking and Reduction System (PDTRS) and the FOCAL programming language. Also includes IBM orders and invoices, news clippings and article reprints.

box 12

**Disasters 1905-1999**

Scope and Contents note

Includes reports on fires, lightning strikes, and airplane crash of 1939.

box 12

**Electricity and power 1881-1952**

Container Summary: 6 folders

Scope and Contents note

Includes bids for power plant to be built on Mount Hamilton in 1905, usage reports, logs, and requisitions.

---

**Equipment, instruments, and supplies**
box 13  General files 1905-1967
        Container Summary: 5 folders
        Scope and Contents note
        Includes orders, correspondence, and contracts for both scientific and non-scientific equipment.

box 13  Astrometric camera 1960-1975
        Container Summary: 2 folders
        Scope and Contents note
        Includes correspondence and disassembly procedure for camera on 36" refractor telescope.

box 13-14  Automatic measuring machine 1956-1969
        Container Summary: 8 folders
        Scope and Contents note
        Equipment for survey and automatic measuring of 17 by 17 inch astrographic plates.
        Includes specifications and progress reports from Gaertner Scientific Corporation.

box 14  Comparators 1966-1967
box 14  Lietz, A. Company 1908-1945
box 14  Loaned plates and equipment circa 1935-1939
box 14  Lumiere North American Co., Ltd. 1905-1909
box 14  Machine tools 1920-1947
box 14  Marchant Calculating Machine Co. 1925-1940
box 14  Marwedel, C.W. 1936-1947
box 14  Micrometers 1952 and undated
box 14  Moll microphotometer 1926
box 15  Oakland National Engraving and Color Plate Co. 1927-1933
box 15  Prime focus spectrograph 1960-1963
        Container Summary: 2 folders

box 15  Typewriters 1915
box 15  Wood, sand, and hay 1905-1943
        Container Summary: 2 folders

Events 1963-2000
        Scope and Content
        Includes fliers, announcements, and program brochures for events and celebrations held at Lick Observatory.

box 15  75th anniversary of Lick Observatory 1963
box 15  100th anniversary of Lick Observatory 1988
        Scope and Contents note
        Centennial celebration and exhibit

box 15  Astronomy colloquia 1952-1956
box 15  Christmas parties 1988-2000
box 15  Commemoration of naming of Mount Hamilton 1982 July 24
box 15  Concerts 1981-1999
box 15  Lick, James 200th birthday celebration 1996
box 15  Picnics and parties 1974-2002
box 16  Rededication of Lick Observatory 1989
box 16  Retirement celebrations 1993
Fellowships 1902-1967

Container Summary: 9 folders
Scope and Contents note
Includes applications for fellowship positions, lists of recipients, recommendation letters, other correspondence, and opening announcements.

Fire protection 1905-1958

Future plans 1943-1967

Scope and Contents note
Includes notes on 10 year plan for Lick Observatory, proposals, correspondence between Lick director and UC president.

Gifts 1923-1968

Governance 1942-1951

Container Summary: 2 folders
Scope and Contents note
Includes committee of regents of Lick Observatory meeting agendas, regulations for the government of Lick Observatory, proposals, correspondence, and report drafts.

Insurance 1912-1966

Keys 1905-1978

Container Summary: 9 folders
Scope and Contents note
Contains lists of organizational keys and indexes of original filing systems in business records and directors' files.

Land acquisition 1874-1968

Container Summary: 3 folders
Scope and Contents note
Includes agreements, deeds, correspondence, maps concerning various land grants and transactions around the observatory on Mount Hamilton.

Library 1905-2001 1929-1966

General files and correspondence 1905-1970

Container Summary: 18 folders
Scope and Contents note
Includes orders, plans, reference requests from the general public to Lick Observatory library, and correspondence with binders, vendors, and the UC Berkeley library.

Accessions logs 1897-1962

Scope and Contents note
Includes library accession and order logs, recommended purchases and requests, catalogs of new publications and notes.

Inventories circa 1958

Container Summary: 3 folders
Scope and Contents note
Includes inventory of books and astronomical journals at Lick Observatory library, and bibliography/chronological list of works in the Lick Observatory library's rare book collection.
Library orders 1916-1940
Container Summary: 10 folders
Scope and Contents note
Includes purchase orders for books and periodicals for Lick Observatory library through UC Office of Comptroller.

The Lick Observatory Library: Formative Years, 1874-1909 2001 May
Scope and Contents note
Thesis by Alan O. Allwardt, School of Library and Information Science, San Jose State University.

Lick Trust

General files 1874-1893
Physical Description: 4 folders
Scope and Contents
Contains deeds of trust, correspondence, clippings, statement of trustees, reports, ledgers, agreements, statements of disbursements of Lick Observatory account, and other legal and financial documents. Includes information on the transfer of Lick Observatory to the UC Regents.

Scrapbooks 1875-1902
Container Summary: 5 volumes
Scope and Content
These scrapbooks cover the Official Action of the Regents of the University of California and Lick Trustees for matters regarding the Lick Observatory. Included are memos, clippings, reports, correspondence, meeting minutes, and bulletins.

Logs, business
Scope and Content
Contains log books related to the daily operations of the Lick Observatory.

Abstract book 1888-1905
Scope and Contents
Includes details on budgets, requisitions, and specific funds of the Lick Observatory.

Daily journal of the Lick Observatory 1933-1945
Electrical measurements 1886-1923
Electrical meter readings 1936-1949
Equipment of electric plant; Telephone data undated
Guest books and registers 1947-1982
Scope and Contents
Contains guest books including record of Lick Observatory library and archives visitors, overnight visitors, as well as director C.D. Shane's personal guestbook.

Guest books 1885-1903, 1953-1955
Visitor registers 1888-1915
Container Summary: 10 volumes

Library guest book 1956-2007
C. Donald Shane personal guest books 1947-1982
Letter acknowledgments 1884-1886
**Logs, business**

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<thead>
<tr>
<th>Box/Serial</th>
<th>Description</th>
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<tbody>
<tr>
<td>120</td>
<td>Lick Observatory survey of site: Barometer readings and rough field notes of astronomers 1888</td>
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<tr>
<td>120</td>
<td>Mining transit books 1923-1929, 1946-1949</td>
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<tr>
<td>120</td>
<td>Record of small lenses belonging to Lick Observatory undated</td>
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<tr>
<td>112</td>
<td>Reservoirs 1888-1898</td>
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<tr>
<td>112</td>
<td>Room and board records 1941-1948</td>
</tr>
<tr>
<td>Secretary's diaries</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Scope and Contents</td>
</tr>
<tr>
<td></td>
<td>Includes bound logs with daily entries of Lick staff arrivals and departures, visitors, observatory projects, and events on Mount Hamilton.</td>
</tr>
<tr>
<td>121</td>
<td>Secretary office log 1847-1849</td>
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<td>122</td>
<td>1888-1891</td>
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<td>123</td>
<td>1892-1896</td>
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<td>1897-1900</td>
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<td>124</td>
<td>1901-1904</td>
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<td>20</td>
<td>Secretary office log 1947-1949</td>
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<td>1888-1891</td>
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<td>20</td>
<td>1892-1896</td>
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<td>1897-1900</td>
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<td>1901-1904</td>
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<td>120</td>
<td>Treasurer of LOGC undated</td>
</tr>
<tr>
<td>120</td>
<td>Workmen's time book 1932-1936</td>
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<tr>
<td>21</td>
<td>Bird count charts 1977-1985</td>
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<tr>
<td>21</td>
<td>Game refuge 1908-1949</td>
</tr>
<tr>
<td></td>
<td>Scope and Contents note</td>
</tr>
<tr>
<td></td>
<td>Includes correspondence with game wardens, hunting schedules and information, proposed bill for turning Mount Hamilton area into game preserve, and maps.</td>
</tr>
<tr>
<td>21</td>
<td>Golf club 1930-1935</td>
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<tr>
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<td>Scope and Contents note</td>
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<tr>
<td></td>
<td>Contains correspondence related to and regulations for local unofficial golf club on Mount Hamilton.</td>
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**Maps, oversized**

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<tr>
<th>Map Case/G3-5, Folder 2</th>
<th>Description</th>
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<td>Fire insurance maps 1940 April 2</td>
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<td>Scope and Contents note</td>
<td></td>
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<tr>
<td>Hartford Fire Insurance Co., H.E. Diem</td>
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<tr>
<td>Sketch of Lick Observatory golf course undated</td>
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<tr>
<td>Scope and Contents note</td>
<td></td>
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<tr>
<td>R.H. Tucker</td>
<td></td>
</tr>
<tr>
<td>Topographic maps 1926, 1931</td>
<td></td>
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<tr>
<td>Container Summary: 2 maps</td>
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<tr>
<td>Scope and Contents note</td>
<td></td>
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<tr>
<td>Shows property boundaries. H.B. Foster, engineer</td>
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<tr>
<td>Township survey map showing land grants 1876</td>
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</table>
Mount Hamilton area
Maps, oversized

map-case G3-5, folder 2

US Geological Survey maps 1955
Container Summary: 6 maps
Scope and Contents note
Isabel Valley, Eylar Mountain, Mount Stakes, Mount Day, and Lick Observatory area

box 21

Mining claim 1957

box 21

Mount Hamilton Exploitation Co. 1904-1905
Scope and Contents note
Includes correspondence and other materials about the proposed construction of a railway between San Jose and Mount Hamilton.

box 21

Mount Hamilton Range Improvement Association 1955-1956

box 21

Mount Hamilton School 1900-1968, 2002

box 21, box 119

Mount Hamilton Stage Co. 1888-1954
Scope and Contents note
Includes statements/invoices and correspondence regarding the transportation to the summit of Mount Hamilton.

box 21

Radio and television transmitters 1948-1968

box 22

Rental housing 1962-1968

box 22

Requests for non-astronomical use 1936-1964

box 22, box 119

Roads 1905-1994
Scope and Contents note
Includes correspondence about construction and improvements of roads and railways on and around Mount Hamilton.

box 22

Smith Creek 1912-1919
Scope and Contents note

Includes correspondence on Smith Creek Hotel.

box 22-24, box 40  Notices and assignments 1900-1958
Container Summary: 41 folders
Scope and Contents note
Contains posted notices and bulletins to personnel at Lick Observatory. Includes program assignments for telescope time, schedules, meetings, calls for reports, news on findings, journal club, lost and found, and deliveries.

box 24  Oaths 1950-1951

Personnel
Container Summary: 28 folders
Access
Individual personnel records are restricted 75 years after the date of creation. Box 118 contains restricted folders which will be made available 75 years after the date of their creation.

box 24-25, box 40  General files 1881-1967
Scope and Contents note
Includes payroll and salary information for Lick Observatory staff and Lick trust employees, as well as employment log books, rosters, applications, recommendations, correspondence, programs, lists of duties, and individual files arranged alphabetically by last name.

box 118  General files 1946-1967
Access
Individual personnel records are restricted 75 years after the date of creation. These folders are restricted until 2042.

box 25, box 40  Rosters 1888-1958
box 25, box 115  Individual files 1905-1954
Scope and Content
Contains letters of application, various correspondence, pay stubs, and resignations. Includes 1919 letter of recommendation for Mary Lea Heger from Wright to Campbell, and diplomas earned by Mary Lea Heger Shane and Constance S. Veysey.

box 118  Individual files 1936-1954
Access
Individual personnel records are restricted 75 years after the date of creation. These folders are restricted until 2020.

box 118  Academic personnel 1928-1967
Access
Individual personnel records are restricted 75 years after the date of creation. This folder is restricted until 2043.

box 118  Computing and clerical assistants 1909-1947
Access
Individual personnel records are restricted 75 years after the date of creation. This folder is restricted until 2022.
box 118  **Foremen 1908-1945**
Access
Individual personnel records are restricted 75 years after the date of creation. This folder is restricted until 2020.

box 25  **Instrument makers 1906-1960**
box 25  **Janitors 1912-1943**
box 26  **Secretaries 1905-1950**
Scope and Contents
Margaret French, AJ van Coover, Violet Standen (m. S. Albrecht), Ruth Standen (m. R.H. Tucker), Laura Wyman, Clarice Davis, Carrie Castle, Ethel Haskett (m. C.D. Shane), Amy Gould Marshall, Edith M. Thomas, Gladys Wallace, Leslie Potwin, Helen Gillespie, Muriel Wilkinson, Esther Noren (acting secretary)

box 26  **Photography 1908-1944**
Scope and Contents note
Includes applications for photographers, notes about photographs taken at Lick Observatory, photo micrographic work, correspondence, and orders for photographs from the public.

box 26  **Police officers 1946-1967**

box 26  **Postmaster 1905-1966**

box 26  **Programs 1947**
Scope and Contents note
Contains proposals and other information on research programs at Lick Observatory, including "Light of the Night Sky" proposal in 1947.

box 27-28  **Publications and bulletins 1906-1968**
Container Summary: 22 folders
Scope and Contents note
Contains correspondence regarding the sale and delivery of Publications of the Lick Observatory and lists of publications by Lick astronomers.

box 28  **Publicity 1906-1967**
Container Summary: 5 folders
Scope and Contents note
Includes press releases, pamphlets, reports, and proposals.

box 28  **Rocket fuel testing controversy 1959**

box 28  **San Jose office 1940-1941**

box 119  **Site surveys 1903-1968**
Scope and Contents
Includes surveys from trips to Arizona and Southern California (Hussey), the Carnegie Institution southern and solar observatories, Australia (Hussey), Mount Wilson, San Miguel Mountain, Chile (W.H. Wright), Junipero Serra Peak, and Mount Stromlo.

box 28  **Staff meeting notes 1962-1968**
box 28  **Telephones 1881-1939**  
Scope and Contents note  
Includes correspondence, telephone operating instructions, notes, and diagrams of telephone system.

**Telescopes**  
Scope and Content  
This section includes correspondence, architectural drawings, planning documents, schedules, reports, some photographs, and other documents pertaining to the various telescopes and related equipment at Lick Observatory.

box 29  **12-inch Refractor 1937-1960**  
Container Summary: 1 folder  
Scope and Contents note  
Includes materials on repairs and improvement plans.

box 29  **20-inch Astrograph 1951-1991**  
Container Summary: 42 folders  
Scope and Contents note  
Also known as the Carnegie double astrograph. Includes specifications for second lens.

box 29  **Lenses 1933-1963**  
Scope and Contents note  
Includes correspondence with UC Office of Comptroller, J.W. Fecker corporation, Frank Ross, Perkin-Elmer corporation, Fish-Schurman corporation, and James Baker.

box 29  **Photographic plates 1939-1948**  
Scope and Contents note  
Includes correspondence with Pittsburgh Plate Glass Co. and Eastman Kodak.

box 30  **Mounting 1934-1948**  
Scope and Contents note  
Includes correspondence with Warner and Swasey Co.

box 30-31  **Building 1935-1956**  
Scope and Contents note  
Includes agreement bonds, general conditions, specifications for construction of the building; bids for general construction of building; agreement with Fred J. Early Jr. Co.; correspondence; requisitions and bills.

box 31  **Programs 1946-1963**  
Scope and Contents note  
Includes abstracts, bulletins, and correspondence about scientific programs.

box 31  **Plans 1935-1938**  
Scope and Contents note  
Includes architectural plans and related correspondence.

box 31  **Miscellaneous 1936-1958**  
Scope and Contents note  
Includes correspondence and material on measuring machine, adjustments of lens and telescope, material tests, and melt sheets.
24-inch Reflector 1962-1968

- Container Summary: 3 folders
- Scope and Contents note
- Also known as Cassegrain or photometric telescope. Includes correspondence with Boller and Chivens, and regarding optical design, photometer, electronics, dome, drives, controls, and indicators. Photos include view of dome site.

36-inch Refractor 1881-1959

- Container Summary: 7 folders
- Scope and Contents note
- Includes Lick Trust proposal, correspondence, wiring diagrams from 1936-1955, log from January 1887, and 1886 oversized section drawing of telescope by Warner & Swasey.

40-inch Reflector (Nickel) 1978-1979

120-inch Reflector (Shane) 1931-1967

- Container Summary: 26 folders
- Scope and Contents note
- Includes 1931 proposal for new reflector telescope, Hartmann tests, publicity, equipment and glass information, insurance policy, viewing schedule, invoices, correspondence, architectural drawings and diagrams, applicants for engineer, 1955 photo album, Oakland Machine Works print of mirror sling, and grinding machine information.

Crossley Reflector circa 1879, 1905-1968

- Container Summary: 9 folders and 1 scrapbook
- Scope and Contents note
- Includes scrapbook of specifications and sketches of dome and telescope, correspondence and requisition orders for improvements, Lick Observatory bulletin on new mounting for 3-foot mirror of Crossley telescope, supplies needed for rewiring, statements and requisitions, correspondence, requests for viewing, and oversized section drawing by architects Percy & Hamilton.

Meridian Circle circa 1882, 1905-1959

- Container Summary: 2 folders
- Scope and Contents note
- Includes request for new chronograph, instructions for operation, and correspondence.

Tauchmann reflector 1949-1950

- Container Summary: 1 folder
- Scope and Contents note
- Includes request to UC President Sproul for purchase and details of purchase of telescope.

General correspondence 1905-1947

- Container Summary: 1 folder

Observing schedules 1967-1973

- Container Summary: 5 folders
- Scope and Contents note
- Includes schedules and time requests for 120" telescope, Coudé Auxiliary Telescope (CAT), Crossley, 24" reflector, 20" astrograph, and 36" refractor.
box 34  Plans for future telescopes 1967
   Container Summary: 1 folder
   Scope and Contents note
   Includes notes, drawings, reprints, and NSF proposal for future telescope plans.

box 34  Schematics and diagrams 1936-1948
   Container Summary: 1 folder

University relations 1868-1989
   Scope and Contents note
   Material on relations between Lick Observatory and UC Berkeley, UC Los Angeles, and UC Santa Cruz. Contains mostly correspondence, including suggestions from 1917 for closer ties between Lick Observatory and the University of California, correspondence on the transfer of Lick Observatory administration to UCSC in mid-1960s, plans for future use of space on Mount Hamilton, UC Charter Day, and UC Observatories name change in 1989.

box 35-36  General files 1868-1989
   Physical Description: 12 folders

box 36-38, box 85-86  Affiliated colleges and schools files - UCSC 1966-1986
   Container Summary: 25 folders
   Scope and Contents note
   Contains files from UCSC Chancellor's office, including correspondence with Lick Observatory staff, improvement plans, budgets, other financial issues, and memos.

box 103  UC Board of Research 1922
box 103  UC College of Engineering 1932
box 103  UC Hospital and Medical School 1921
box 81-82  UC Office of Secretary 1910-1925
   Container Summary: 9 folders
   Scope and Contents note
   Includes correspondence between Lick director and UC secretary of regents, and bulletins for regents meetings.

box 93-94  UC Press 1905-1944
   Container Summary: 7 folders
   Scope and Contents note
   Includes material regarding bulletins and other Lick Observatory publications.

box 95  UC Printing Office 1905-1943
   Container Summary: 7 folders
   Scope and Contents note
   Also known as the Printing and Publications Office.

box 103  UC Santa Clara campus, proposed 1957
box 98  UC Superintendent of Grounds and Buildings 1932-1939
box 38-39  Visitors 1910-1967
   Container Summary: 8 folders
   Scope and Contents note
   Includes inquiries, photo requests, schedules for visitors' nights (telescope viewings), notices, and correspondence arranging visits.
Water supply 1888-1956

Container Summary: 9 folders
Scope and Contents note
Includes information on fire pump installation; arrangements for construction of water tanks, pumps, and pipes; notices for water use on Mount Hamilton; correspondence; health inspection reports; and maps.

Weather 1883-1966

Container Summary: 7 folders
Scope and Contents note
Includes weather reports, rainfall and snowfall statistics, monthly meteorological reports (1900-1914) and observation logs (1883-1913), and temperature and barometer readings for the area surrounding Lick Observatory.

Business correspondence and financial files

Scope and Content
Business correspondence mostly contains correspondence involving the Lick Observatory directors (Holden, Schaeberle, Keeler, Campbell). Topics include supply and equipment orders, introduction of scientists and visitors to the observatory, meeting minutes, approved requisitions from the secretary of UC Berkeley, and Astronomical Society of the Pacific business. Also included are letters regarding the distribution of pamphlets, reports, bulletins, and other publications of the Lick Observatory.

Financial files include receipts, ledgers, invoices, and budget information for the Lick Observatory.

General files contain both business-related correspondence and financial files that are arranged together chronologically and includes receipts, bills, vouchers, budgets, statements, timesheets, etc.

General files

Container Summary: 28 boxes

1876-1886
1887-1889
1890
1891
1892
1893
1894
1895
1896
1897
1898
1899
1900
1901
1902
1903
1904
1927-1944

Bills, paid/approved 1905-1944

Container Summary: 15 folders
Scope and Contents note
Contains paid and approved bills between Lick Observatory and UC Berkeley financial offices. Includes bills from revolving director's fund.
box 70-72, box 96  **Budgets 1905-1968**

- Container Summary: 32 folders
- Scope and Contents note
- Includes budget requests to and correspondence with UC Berkeley, some annual reports, budget statements, purchase statements, and information on transfer to UC Santa Cruz in 1967.

box 43  **Directors' financial copybooks 1896-1904**

- Scope and Contents note
- Contains copybook of expense reports of directors Holden, Schaeberle, Keeler, and Campbell.

box 96-97  **Expense and equipment 1927-1939**

- Container Summary: 10 folders

box 107  **Expense ledgers 1888-1941**

- Container Summary: 4 ledgers

box 104, box 108-110  **Invoice books 1877-1887**

- Container Summary: 7 books

box 96  **Original orders 1936, 1944**

box 20, box 73-74  **Petty cash ledgers 1945-1957**

- Container Summary: 2 folders and 2 ledgers
- Scope and Contents note
- Contains ledger books and sheets for Lick Observatory petty cash account.

box 97-98  **Printing budget 1909-1943**

- Container Summary: 4 folders

box 73-77, box 105-106  **Requisition books 1888-1945**

- Container Summary: 26 books
- Scope and Content
- Contains bound copybooks of Lick Observatory requisitions.

box 78, box 111  **Revolving fund files 1906-1953**

- Container Summary: 17 folders and 1 ledger
- Scope and Contents note
- Also referred to as director's contingent fun. Includes materials from directors Campbell, Aitken, Wright, and Shane.

box 20  **Schedule book 1950-1958**

- Scope and Contents note
- Schedule of payments to and reimbursements from University of California

box 79  **Statements 1922-1942**

- Container Summary: 26 folders
- Scope and Contents note
- Includes staff pay stubs and statements/receipts for supplies purchased by Lick Observatory staff.

box 79  **Adams, Betty 1937-1941**
Guide to the Lick Observatory
Records: Business records

Business correspondence and financial files

<table>
<thead>
<tr>
<th>Box</th>
<th>Name</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>79</td>
<td>Barry, F.P</td>
<td>1924-1929</td>
</tr>
<tr>
<td>79</td>
<td>Carey, W.J.</td>
<td>1941-1944</td>
</tr>
<tr>
<td>79</td>
<td>Carlson, Rowell</td>
<td>1938-1940</td>
</tr>
<tr>
<td>79</td>
<td>Chappell, J.F.</td>
<td>1929-1938</td>
</tr>
<tr>
<td>79</td>
<td>Gehr, F.</td>
<td>1924-1926</td>
</tr>
<tr>
<td>80</td>
<td>Gehri, Mrs. Merle</td>
<td>1925-1926</td>
</tr>
<tr>
<td>80</td>
<td>Gerlach, Willie</td>
<td>1938-1942</td>
</tr>
<tr>
<td>80</td>
<td>Gordon, Katherine</td>
<td>1941-1943</td>
</tr>
<tr>
<td>80</td>
<td>Hayford, Phyllis</td>
<td>1932-1934</td>
</tr>
<tr>
<td>80</td>
<td>Herbig, G.H.</td>
<td>1944-1945</td>
</tr>
<tr>
<td>80</td>
<td>Jeffers, H.M.</td>
<td>1929-1943</td>
</tr>
<tr>
<td>80</td>
<td>Krichbaum, George</td>
<td>1942-1945</td>
</tr>
<tr>
<td>80</td>
<td>Kron, G.E.</td>
<td>1939-1944</td>
</tr>
<tr>
<td>80</td>
<td>Mayall, N.U.</td>
<td>1933-1937</td>
</tr>
<tr>
<td>80</td>
<td>Moore, J.H.</td>
<td>1922-1940</td>
</tr>
<tr>
<td>80</td>
<td>Neubauer, F.J.</td>
<td>1930-1937</td>
</tr>
<tr>
<td>80</td>
<td>Paddock, G.F.</td>
<td>1932-1945</td>
</tr>
<tr>
<td>81</td>
<td>Trumpler, Robert</td>
<td>1923-1944</td>
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<tr>
<td>81</td>
<td>Wright, W.H.</td>
<td>1921-1945</td>
</tr>
<tr>
<td>81</td>
<td>Wyse, Arthur B.</td>
<td>1933-1941</td>
</tr>
<tr>
<td>81</td>
<td>Wyse, Marylyn C.</td>
<td>1933-1941</td>
</tr>
<tr>
<td>81</td>
<td>General assistants</td>
<td>1938-1942</td>
</tr>
<tr>
<td>81-93</td>
<td>UC Office of Comptroller</td>
<td>1915-1954</td>
</tr>
<tr>
<td></td>
<td>Container Summary: 42 folders</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Scope and Contents note</td>
<td></td>
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<tr>
<td></td>
<td>Also referred to as the Controller's Office or the Office of the Chief Accounting Officer. Includes information on salaries, purchase orders, requisitions, manual of accounting and administrative procedures, and various correspondence between UC Berkeley comptroller and purchasing agent and Lick Observatory secretaries and directors.</td>
<td></td>
</tr>
<tr>
<td>84</td>
<td>UC Purchasing Department, requisitions</td>
<td>1905-1943</td>
</tr>
<tr>
<td>101-103</td>
<td>Container Summary: 25 folders</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Scope and Contents note</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Contains requisitions for orders made through the purchasing department of the comptroller's office at UC Berkeley, including special building appropriation confirmations.</td>
<td></td>
</tr>
<tr>
<td>97</td>
<td>Various small and special funds</td>
<td>1927-1948</td>
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<tr>
<td></td>
<td>Container Summary: 7 folders</td>
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<td></td>
<td>Scope and Contents note</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Includes receipts and report sheets for special building funds, Crocker special fund, seismometer/seismograph fund, fund for cottage improvements, storehouse freight and cartage funds, and other various funds.</td>
<td></td>
</tr>
<tr>
<td>69</td>
<td>Murdock, C.A.</td>
<td>1889-1896</td>
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<tr>
<td>69</td>
<td>Pacific States Telephone</td>
<td>1899-1903</td>
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<tr>
<td>69</td>
<td>Union Iron Works</td>
<td>1886-1889</td>
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<tr>
<td></td>
<td>Container Summary: 2 folders</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Scope and Contents note</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Includes specifications for steel dome.</td>
<td></td>
</tr>
<tr>
<td>41, 69</td>
<td>Warner and Swasey</td>
<td>1886-1904</td>
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<tr>
<td></td>
<td>Container Summary: 6 folders</td>
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<tr>
<td>70</td>
<td>Wells Fargo</td>
<td>1886-1904</td>
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<tr>
<td>Box</td>
<td>Name</td>
<td>Dates</td>
</tr>
<tr>
<td>------</td>
<td>-------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>70</td>
<td>Wesley, William and Son</td>
<td>1888-1902</td>
</tr>
<tr>
<td>70</td>
<td>Western Union Telegraph Co.</td>
<td>1887-1903</td>
</tr>
<tr>
<td>70</td>
<td>Wright and Sanders</td>
<td>1881-1884</td>
</tr>
<tr>
<td>41</td>
<td>Zeiss, Carl</td>
<td>1895-1899</td>
</tr>
</tbody>
</table>