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A Guide to the  
Department of Astronomy. Flower  
and Cook Observatory Records  
1875-1987

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Prepared by Kaiyi Chen

2001

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**PROVENANCE**

Transferred to the University Archives in 1999.

**ARRANGEMENT**

The collection has been arranged alphabetically by subject.

**AGENCY HISTORY**

In 1897, the University of Pennsylvania formally dedicated its observatory on a 100-acre farm bequeathed by Mr. Reese Wall Flower, whose great uncle, George Graham, had been an astronomer in London. The initial establishment consisted of three buildings on the Flower farm in Upper Darby and was equipped with an 18" aperture Warner and Swasey refractor. One of the three buildings, devoted to precise positioning and time observations of stars, also contained several astronomical clocks, a prism transit, a meridian circle and later, also a zenith telescope.

Meanwhile, Gustavus Wynne Cook, an avid amateur astronomer and wealthy Philadelphia businessman, established an observatory in his own home. When he moved to an estate in Wynnewood during the depression, he constructed two buildings to accommodate his hobby. Equipped with a 28.5" reflector (J. W. Fecker Company), a unique 15" siderostat refractor, and a wide assortment of camera and telescopes, his installation became one of the best equipped amateur observatories in the world. When Mr. Cook died in 1940, he left all his astronomical instruments to the University of Pennsylvania.

In the late 1940s, Charles P. Olivier, then Chairman of the Astronomy Department and Director of the Flower Observatory, urged the University administration to purchase a plot of land in Willistown Township, Chester County, bounded by Providence Road and Warren Avenue. The Flower Observatory site was abandoned, its equipment stored and the proceeds from the sale to be used for the construction of a new observatory at the site near Providence Road.

In 1954, simultaneous with the completion of the new Physical Science Building (later called the David Rittenhouse Laboratory), an on-campus observatory was established on the rooftop of the building. In 1956, a new off-campus Flower and Cook Observatory was finally constructed with funds from the sale of the Flower Observatory property.

### **SCOPE AND CONTENT**

The collection includes a fairly complete set of Flower and Cook Observatory publication reprints from 1929 to 1987; a publishing file related to C. P. Olivier's work on EZ Aquilae; notebooks and log books kept by Olivier, R. Stanley Alexander, and several other astronomers from 1933 to 1951; records of the program of resolving time by the Pierce Photometer from 1958 to 1975; teaching material of two astronomy courses; and the file of a grant project financed by the National Science Foundation in the 1960s.

Also included are two memorabilia items originally belonging to Olivier and two sets of photographs--one of the solar eclipse observation in 1932 and the other of Frank Bradshaw Wood (a Penn faculty member being the 1957 research scholar in Astronomy at the Australian National University, Canberra) showing his work at the Mount Stromlo Observatory.

**CONTROLLED ACCESS HEADINGS**

**Corporate Name(s)**

- University of Pennsylvania. College of Arts and Sciences. Physics and Astronomy.

**Genre(s)**

- Notebooks.
- Reprints.

**Subject(s)**

- Astronomy--Study and teaching--Pennsylvania--Philadelphia.

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**INVENTORY**

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| American Ephemeris and Nautical Almanac for the Year 1931  | 1          | 1             |
| Astronomy 503 1979 spring and 1984 fall, reference material (I)  | 1          | 2             |
| Astronomy 503 1979 spring and 1984 fall, reference material (II)   | 1          | 3             |
| Astronomy 507 1982 fall  | 1          | 4             |
| Bulletin of the Astronomical Institute of the Netherlands, Article by K. K. Kwee and H. Van Woerden 1956 | 1          | 5             |
| Cherenkov readings 1967-1969   | 1          | 6             |
| Copernican Award to Charles P. Olivier 1943  | 5          | 1             |
| Crelle, A. L., Rechentafeln 1875   | 5          | 2             |
| Eclipsing binary data (N.L.P.) [1947]  | 1          | 7             |
| Eclipsing binary, theory, data and tables 1939-1962  | 1          | 8             |
| Flower and Cook Observatory reprints   |            |               |
| List [attached at the end of the inventory] 1985 Dec. 10   | 1          | 9             |
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| No. 110A "Investigations of Stellar Scintillation and the Behavior of Telescopic Images," by G. Keller, et al 1956 | 1 | 32 |
| Nos. 111-115 1956-1959   | 1 | 33 |
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| Nos. 131-135 1960-1961  | 2 | 3  |
| No. 133A, "The Correlation of Stellar Shadow Band Patterns with Upper Air Winds and Turbulence," By W. M. Protheroe and Kwan-yu Chen 1960 | 2 | 4  |
| Nos. 136-140 1961-1963  | 2 | 5  |
| Nos. 141-145 1962-1964  | 2 | 6  |
| Nos. 146-150 1963-1964  | 2 | 7  |
| Nos. 151-155A 1964  | 2 | 8  |
| Nos. 156-160 1964-1965  | 2 | 9  |
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| Graduate exam scores 1960-1981 | 3 | 1  |

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|--|---|----|
| Hammer, Carl, papers with correspondence 1971-1980   | 3 | 2  |
| International Astronomical Union, Twelfth General Assembly, Agenda and draft reports 1964 June | 3 | 3  |
| Log book 1933-1936   | 3 | 4  |
| Log book 1937-1938 June  | 3 | 5  |
| Log book 1938 July – 1940  | 3 | 6  |
| Map--location instruction for the Observatory n.d.   | 3 | 7  |
| Memorabilia of C. P. Olivier   |   |    |
| Book of Common Prayer  | 3 | 8  |
| German-English Dictionary  | 3 | 9  |
| "Method for Computing the Periods of Variable Stars," by I. Jurkevich n.d.                     | 3 | 10 |
| National Science Foundation, Graduate Research Laboratories Development Grant                  |   |    |
| Application, (Physical Sciences building expansion) 1961 August                                | 3 | 11 |
| Correspondence 1961-1962   | 3 | 12 |
| Final report - 1967, with correspondence, etc. 1962-1967                                       | 3 | 13 |
| Project program 1962 July  | 3 | 14 |
| Project, architectural plan, 2 drawings  | 3 | 15 |
| Proposal for a wing on the Physical Sciences Building 1960 Jan.                                | 3 | 16 |
| Proposal for a wing on the Physical Sciences Building 1960 August                              | 3 | 17 |
| Newspaper clippings, Philadelphia Inquirer--Neighbors 1984 Sept. 17                            | 3 | 18 |
| Notebooks  |   |    |
| Alexander, R. Stanley, log 1938-1940   | 3 | 19 |
| Alexander, R. Stanley, notes and log 1938-1942   | 3 | 20 |
| Cook, G. W. [?], listing of interesting objects n.d.   | 3 | 21 |

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| Eclipsing variables notes [Pierces, Newton L.] 1945-1949   | 3 | 22 |
| Irwin, J. B., log 1946   | 3 | 23 |
| Marshall, Roy K., log 1936-1938  | 3 | 24 |
| Olivier, C. P. 1950-1954   | 3 | 25 |
| Olivier, C. P., variable and Arqalaude Series, log 1934-1939   | 3 | 26 |
| Olivier, C. P., variable stars and photometry, log 1939-1942   | 3 | 27 |
| Olivier, C. P., variable stars and photometry, log 1942-1945   | 3 | 28 |
| Olivier, C. P., variable stars and photometry, log 1949-1951   | 3 | 29 |
| Olivier, C. P., variables of photometry, log 1945-1949   | 3 | 30 |
| P-Plates (usually 5 x 7), taken at primary focus of reflecting telescope 1945-1946   | 3 | 31 |
| Tabor, L. P., notation for plate numbers 1941  | 3 | 32 |
| O'Connell, D. J. K., "1961-1962 Eclipse of 31 Cygni," 1964   | 3 | 33 |
| Pennsylvania Gazette, Article about Alfred Bendiner 1978 Nov   | 4 | 1  |
| Photographs of Frank Bradshaw Wood, research scholar in Astronomy at the Australian National University, Canberra (Mount Stromlo Observatory) 1957 | 4 | 2  |
| Photographs, solar eclipse, Eight 1932   | 4 | 3  |
| Photometric Study of EZ Aquilae, by Philip H. Taylor and Charles P. Olivier 1941   | 4 | 4  |
| Pierce Photometer construction, Invoices and purchase requisitions 1952 Feb. – 1955  | 4 | 5  |
| Pierce, Newton L. , Correspondence 1948-1950   | 4 | 6  |
| Publications of the Observatory of the University of Michigan, "The Tower Telescope of the McMath-Hulberrrt Observatory," by Robert R. McMath n.d. | 5 | 3  |
| Publishing files of C. P. Olivier  |   |    |
| Professional correspondence 1  | 4 | 7  |

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|---|---|----|
| Second Catalog of Hourly Meteor Rates, by Charles P. Olivier [1964?]          | 4 | 8  |
| EZ Aquilae  |   |    |
| Correspondence 1934-1936  | 4 | 9  |
| Notes and correspondence (1) 1936-1939  | 4 | 10 |
| Notes and correspondence, (2) 1946-1960                                       | 4 | 11 |
| Notes and draft 1941-1946   | 4 | 12 |
| Notes, correspondence and draft paper 1946-1960                               | 4 | 13 |
| Resolving time  |   |    |
| Dual photometry n.d.  | 4 | 14 |
| Experimental data, old AMPs 1959-1961   | 4 | 15 |
| Pierce Photometer   |   |    |
| Channel ratios 1964-1965  | 4 | 16 |
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| Selection of cells 1966   | 4 | 19 |
| Specifications 1967-1968  | 4 | 20 |
| Tests 1959-1965   | 4 | 21 |
| Tests 1963 and before   | 4 | 22 |
| Timing tests 1958-1975  | 4 | 23 |
| Resolving time analysis [1966]  | 4 | 24 |
| Resolving time for the Pierce Photometer, a study by George Wolf 1966         | 4 | 25 |
| Site Selection Survey of New Zealand, Final Report (by Frank M. Bateson) 1964 | 4 | 26 |
| Star Atlas, by Winslow Upton 1896   | 5 | 4  |

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| Tables for light-time corrections 1964 | 4 | 27 |
| Zimmermann, H., Rechentafel 1899       | 4 | 28 |

**LIST OF FLOWER AND COOK OBSERVATORY REPRINTS,  
1929-1987**

**Box**

**Folder**

1 Olivier, C.P. 1929, "The American Meteor Society Bulletin No. 10".  
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2 Olivier, C.P. 1929, "Influences of Meteoric Astronomy on Evolution,"  
Journal of the Franklin institute 207, No.6, 733. (FLOWER OBS.)

3 Olivier, C :P. 1928, "Unprofitable Meteors Pay Large Dividends",  
Science LXIX, No.1780, 165. (FLOWER OBS.)

3A Barton, S.G. 1929, "Double Stars in the Astrographic Catalogue  
Hyderabad Section," Astronomische Nachrichten 235, Nr. 5640, 426.  
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4 Olivier, C.P; 1929 "Results Derived from 8600 Meteor Observations  
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5 Olivier C.P. 1929, "1. Meteor Notes (Dec. 1928-Dec. 1929), 2.Fireball  
of June 22, 1927 (March, 1929), 3.Tegas Fireball of Aug. 8, 1928 (Ma ,  
1929)," Popular Astronomy , 37, 54,104,133,176, 243, 274, 275, 289,  
341, 400, 466, 528, 598. (FLOWER OBS.)

6 Olivier, C.P. 1930, "The American Meteor Society Bulletin No.  
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7 Olivier, C.P. 1930, "The American Meteor Society Bulletin No.  
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8 Olivier C.P. 1930, "Meteor Notes (Jan. 1930- Dec. 1930 ," Popular  
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9 Barton, S.G. 1931, "Double Stars from the San Fernando Astrographic  
Zane," A.J. 41, No.953, 35. (FLOWER OBS.)

10 Olivier, C.P. 1931 "The Illinois Fireballs of July 25, 1929," Popular  
Astronomy 39, No.9, 521. (FLOWER OBS.)

11 Olivier, C.P., 1946, "Methods for Computing the Heights and Paths of Fireballs and Meteors," Popular Astronomy, 54, No.3, 141. (FLOWER OBS.)

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11A Barton, S.G. 1931, "A Note on Least Squares," A.J., 41, No.953, 43. (FLOWER OBS.)

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12 Olivier C.P. 1931, "1. Meteor Notes (Jan. 1931-Dec. 1931), 2. Fireball of October 7, 1928, 3. The Illinois Fireballs of July 25, 1929," Popular Astronomy, 39 37, 102, 149 219, 293, 330, 347, 406, 491, 546, 605. (FLOWER OBS.)

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13 Olivier, C.P. 1932, "The American Meteor Society Bulletin No. 13." (FLOWER OBS.)

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15 Olivier C.P. 1932, "Meteor Notes (Jan. 1932-Dec. 1932)," Popular Astronomy 40, 46, 94,

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163, 220, 285, 357, 411, 495, 575, 645. (FLOWER OBS.)

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15A Olivier, C.P. 1932, "Pennsylvania Fireballs of Nov. 23, 1931," Proceedings of the Pennsylvania Academy of Science, VI, 1. (FLOWER OBS.)

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16 Olivier, C.P. 1933, "The American Meteor Society Bulletin no. 14." (FLOWER OBS.)

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17 Barton, S.G. 1933, "The Double Stars in the Cape Astrographic Zones, Declinations -40° to -52° Astr. Nach. 250 Nr. 5980, 50. (FLOWER OBS.)

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18 Olivier, C.P. 1933, "Heights and Train-Drifts of Leonid Meteors of 1932," American Philosophical Society, LXXII, No. 4, 215. (FLOWER OBS.)

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19 Olivier, C.P. 1933, "Meteoritic Astronomy," Scientia, July, 1933. (FLOWER OBS.)

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20 Wilson, Jr. R.H. 1933, "The Orbit of Z 2294," A.J., 43, No. 998, 41. (FLOWER OBS.)

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21 Olivier, C.P. and Wills, D.M. 1933, "Daily and Monthly Meteor Rates," Proceedings of Pennsylvania Academy of Science, VII, 1. (FLOWER OBS.)

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22 Olivier C.P. 1933, "Meteor Notes (Jan.1933-Dec. 1933 , " Popular Astronomy 41, 5 1,110,167,208,278,337, 406, 61,51,578. (FLOWER OBS.)

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23 Bunch, S. and Olivier, C.P. 1933, "Tennessee Fireball of August 23 1933," Monthly Weather Review 61,326. (FLOWER OBS.)

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24 Barton, S.G. 1934, "Double Stars in the Helsinafors Astrographic Zone, Third Paper," A.J. 43, 119. (FLOWER OBS.)

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25 Olivier, C.P, 1934, "The American Meteor Society Bulletin No, 15." (FLOWER OBS.)

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26 Olivier, C.P. 1934, "Meteor Notes from the American Meteor Society," Popular Astronomy 42, 41, 97, 154, 219, 274, 334, 393, 464, 508, 595.

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27 Barton, S.G. 1935,. "New Double Stars from Bordeaux Astrographic Catalogue," A.J. 44, No. 1028, 105. (FLOWER OBS.)

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28 Barton, S.G. 1935, "Double Stars in the Hyberadad Astrographic Zone," Astr. Nach 256, Nr. 6140, 358. (FLOWER OBS.)

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30 Olivier, C,P. 1935, "The Pennsylvania Fireball of February 27, 1935," Monthly Weather Review 63, 158, (FLOWER OBS.)

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31 Barton, S.G, 1935, "New Double Stars from the Perth Astrographic Catalogue," A.J. 45, No. 1039, 33. (FLOWER OBS.)

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32 Olivier, C.P, 1935, Meteor Notes from the American Meteor Society, Popular Astronom , 43, 28,116,178,239,307, 376,455,498,5 654, (FLOWER OBS.)

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32A Mohler, O. 1935, "The Spectrum of Nova," Lancaster Press, Inc. (COOK OBS.)

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33 Olivier C.P. 1936,"Corrections and Additions to the Double Stars Found b Olivier," Astr. Nach. 258, Nr, 6192, 410. FLOWER OBS.)

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34 Wilson, Jr., R.H. 1936 "'Interferometric Measurement of Double Stars with an 18-inch Refractor," Journal of the Franklin Inst. 221, No. 1,'65. (FLOWER OBS.) 35 Whitney B,S. 1936, "New Methods for Computing Meteor Heights," M.N.R.A.S. 96, No.5, 544. (FLOWER OBS.)

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35A Wamer, W .P. 1936, "The Eclipsing Variable SX Draconis," Ph.D. Dissertation, 1936, (FLOWER OBS.)

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38 Olivier, C.P. 1937, "Results of the Yale Photographic Meteor Work, 1893-1909," A.J. 46.. No. 1061, 41. (FLOWER OBS.)

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39 Barton, S.G. 1937, "Double Stars in the Melbourne Astrographic Catalogue (Declinations -64' to -71'); Double stars of the Sydney Astrographic Catalogue (Declinations -51' to -55')," Astr, Nach. 263, Nr. 6305, 347, and Nr. 630 383. (FLOWER OBS.)

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40 Wilson, Jr. R.H. 1937, "Orbital Motion of ADS 9744 (Serpentis)," A.J. 46, No. 1072, 153, (FLOWER OBS.)

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41 Olivier, C.P. 1937, "Meteor Notes from the American Meteor Society," Popular Astronomy, 45, 42, 97, 159, 203, 266, 324, 441, 496, 553. (FLOWER OBS.)

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42 Baldwin, R .B. 1938, " The Forces in the System of E Aurigae," A.J. 47, No, 1083, 41. (FLOWER OBS.)

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44 Barton, S.G. 1938, "New Double Stars," A.J. 47, No, 1093, 133. (FLOWER OBS.)

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44A Mohler 0, 1938, "Measures of Effective Wave Length with Wide Angle Lenses," Lancaster Press, Inc. (COOK OBS.)

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44B Tabor, L.P. 1938? "The Electronically Controlled Telescope Clock at the Cook Observatory," Lancaster Press, Inc. (COOK OBS.)

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44C Baldwin, R.B. 1938, "The Spectrum of Cassiopeiae in the Photographic Region," Astrophysical Journal 87, 573, (COOK OBS.)

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45 Baldwin, R.B. 1939, "The Eclipsing Variable TT Herculis," A.J. 48, No. 1101, 1. (FLOWER OBS.)

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46 Olivier, C.P. 19384 "Meteor Notes From the American Meteor Society," Popular Astronomy, 46, 43,101, 154, 216, 271, 325, 400, 467, 515, 576. (FLOWER OBS.)

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47 Barton, S.G. 1939, "New Bauble Stars From the Paris Astrographic Catalogue," A.J. 48, No. 1116, 145. (FLOWER OBS.)

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47A Levitt, I.M. and Blitzstein, W. 1947, "Counting Light by Counting Pulses," The Pennsylvania Gazette, 4b, No.2, 12. (FLOWER OBS.)

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48 Wilson Jr., R.H. 1940, "A New Orbit For the Visual Binary Star ADS 3064," A.J. 49, No.1125, 25. (FLOWER OBS.)

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49 Olivier, C.P. 1939, "Meteor Notes From the American Meteor Society, Popular Astronomy, 47, 40, 89, 145, 204, 264, 318, 380, 434, 46, 556. (FLOWER OBS.)

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50 Barton, S.G. 1940, "The Proffer Motion of Oxford Astrographic 29°34482-3," Pub. Astr. Sac. Pacific, 52, 133. (FLOWER OBS.)

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51 Barton, S.G. 1946, "The Names of the Satellites," Popular Astronomy, 44, No. 3, 122. (FLOWER OBS.)

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54 Taylor, P.H. 1941, "Asymmetry in the Light Curves of Eclipsing Variables", Astrophys. Journal 94, No.1, 46. (FLOWER OBS.)

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55 Barton, S.G. 1943, "The Pronunciation of the Names of the Navigational Stars", Ensign XXX, No.7. (FLOWER OBS.)

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56 Barton, S.G, 1942, "New Double Stars," *Astronomical Journal* 50, No. 1141, 11, (FLOWER OBS.)

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57 Reilly, E.F. 1944, " A Statistical Study Based Upon Four Methods far Computing Meteor Heights," *Popular Astronomy* L11, No.6, 288. (FLOWER OBS.)

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59 Barton, S.G. 1947, "New Double Stars," *Astronomical Journal* 52, No,6, 178. (FLOWER OBS.)

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60 Olivier, C.P. 1942, "Long Enduring Meteor Trains," *Proceedings of the American Philosophical Society*, 85, No.2, 93, (FLOWER OBS.)

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62 Davis Jr., G.A., McHugh, D.J., and Barton, S .G, 1942, "Report Prepared by the Committee of the American Astronomical Society on Preferred Spellings and Pronunciations," *Popular Astronomy* 50, No. 7, 356. (FLOWER OBS.)

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