PLATEAU

A Bibliography of Articles in Museum Notes and Plateau Through Volume 31

By Katharine Bartlett

SUPPLEMENT TO VOLUME 31

Published by the Northern Arizona Society of Science and Art, Inc.

1962
A BIBLIOGRAPHY

OF

ARTICLES IN MUSEUM NOTES AND PLATEAU

THROUGH VOLUME 31, ENDING APRIL 1959

Compiled by Katharine Bartlett
Assisted by Judith Davis

With Lists of Other Museum Publications:
Bulletins, Ceramic Series, Reprint Series and
Technical Series

Northern Arizona Society of Science and Art, Inc.

Flagstaff, Arizona

March 1962
FOREWORD

Notes from the Museum of Northern Arizona, a news bulletin concerning Museum activities began monthly publication in July 1928. In September 1929 (Vol. 2, No. 3), the title was changed to Museum Notes of the Museum of Northern Arizona, and short articles on interesting features of the Flagstaff area began to appear. In July 1939, with the first issue of Vol. 12, the name was changed to Plateau, a quarterly continuing the Museum Notes.

For Museum Notes and Plateau title pages, tables of contents and cumulative indexes have been printed and distributed every four years so that four volumes could be bound together. Volumes designed for binding together have been Museum Notes: Vols. 1—4, 5—8, 9—11 (3 vols. only); Plateau: 12—15, 16—19, 20—23, 24—27, and 28—31. The bibliography herewith presented covers all articles from Vol. 2, No. 3, Sept. 1929, through Vol. 31, ending April 1959, so that for convenience it may be shelved following Vols. 28—31.

The citations are listed alphabetically by author, with full title and publication date, followed in a second section by a subject list of the papers cited. There has been a long-felt need for a complete list of articles, and it has been arranged for the convenience of those seeking information on northern Arizona, particularly in the fields of archaeology, ethnology, Indian arts and crafts, geology and paleontology, history, botany, zoology and places of interest.

Many issues of Museum Notes and Plateau prior to Vol. 24 (1951-52) are out of print. Inquiries about others may be directed to Publications Office, Museum of Northern Arizona, P. O. Box 1389 Flagstaff. Availability of Bulletins, Ceramic Series, Reprint Series, and Technical Series is noted as of December 1961.
## TABLE OF CONTENTS

### AUTHOR LIST

1

### SUBJECT LIST

19

**Archaeology, Physical Anthropology, Tree Ring Studies**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Archaeology</td>
<td>19</td>
</tr>
<tr>
<td>San Francisco Mountains and Coconino Plateau</td>
<td>19</td>
</tr>
<tr>
<td>Northeastern Arizona and Southeastern Utah</td>
<td>21</td>
</tr>
<tr>
<td>Hopi Mesas</td>
<td>21</td>
</tr>
<tr>
<td>Northwestern Arizona</td>
<td>21</td>
</tr>
<tr>
<td>Verde and Agua Fria Valleys</td>
<td>21</td>
</tr>
<tr>
<td>Other Areas</td>
<td>22</td>
</tr>
<tr>
<td>Tree Ring Studies</td>
<td>22</td>
</tr>
</tbody>
</table>

**Art (See Ethnology for Indian arts and crafts)**

22

### Biology

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>22</td>
</tr>
<tr>
<td>Botany</td>
<td>23</td>
</tr>
<tr>
<td>Zoology</td>
<td>23</td>
</tr>
</tbody>
</table>

### Ethnology

<table>
<thead>
<tr>
<th>Tribe</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>24</td>
</tr>
<tr>
<td>Apache</td>
<td>24</td>
</tr>
<tr>
<td>Havasupai</td>
<td>24</td>
</tr>
<tr>
<td>Hopi: Arts, crafts, agriculture</td>
<td>24</td>
</tr>
<tr>
<td>Customs, law, ceremonies; Folklore; History</td>
<td>25</td>
</tr>
<tr>
<td>Hopi-Tewa</td>
<td>25</td>
</tr>
<tr>
<td>Mohave</td>
<td>25</td>
</tr>
<tr>
<td>Navajo: Arts, crafts, dwellings; Customs, law, ceremonies; History</td>
<td>26</td>
</tr>
<tr>
<td>Paiute</td>
<td>26</td>
</tr>
<tr>
<td>Yavapai</td>
<td>26</td>
</tr>
<tr>
<td>Zuni</td>
<td>26</td>
</tr>
<tr>
<td>Geological Topics</td>
<td>Page</td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>General Geology</td>
<td>27</td>
</tr>
<tr>
<td>Geomagnetism</td>
<td>27</td>
</tr>
<tr>
<td>Limestone Caves and Solution Cracks</td>
<td>27</td>
</tr>
<tr>
<td>Regional Geology and Geomorphology</td>
<td>27</td>
</tr>
<tr>
<td>Stratigraphy</td>
<td>28</td>
</tr>
<tr>
<td>Volcanology</td>
<td>28</td>
</tr>
<tr>
<td>Paleontology</td>
<td>29</td>
</tr>
<tr>
<td>History, Biography, Necrology</td>
<td></td>
</tr>
<tr>
<td>Spanish and Mexican Period (1540-1848)</td>
<td>29</td>
</tr>
<tr>
<td>American Period (after 1848)</td>
<td>30</td>
</tr>
<tr>
<td>History of and Historic Events among Various Indian Tribes</td>
<td>30</td>
</tr>
<tr>
<td>Biography</td>
<td>30</td>
</tr>
<tr>
<td>Necrology</td>
<td>31</td>
</tr>
<tr>
<td>Northern Arizona Society of Science and Art, Inc.</td>
<td></td>
</tr>
<tr>
<td>Annual Reports of the Museum of Northern Arizona</td>
<td>31</td>
</tr>
<tr>
<td>Highlights in the History of the Museum</td>
<td>32</td>
</tr>
<tr>
<td>Book Reviews and Announcements</td>
<td>32</td>
</tr>
<tr>
<td>Places of Interest</td>
<td>32</td>
</tr>
<tr>
<td>Miscellaneous Subjects</td>
<td>33</td>
</tr>
<tr>
<td>List of Museum Bulletins</td>
<td>34</td>
</tr>
<tr>
<td>List of titles in Ceramic Series</td>
<td>35</td>
</tr>
<tr>
<td>List of titles in Reprint Series</td>
<td>36</td>
</tr>
<tr>
<td>List of titles in Technical Series</td>
<td>36</td>
</tr>
</tbody>
</table>
AUTHOR LIST

ADAMS, WILLIAM Y.

AITKEN, BARBARA

ALF, RAYMOND M.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

ANONYMOUS

ARNBERGER, LESLIE

BAILEY, FLORA L. See Wyman, Leland C., 2.

BALDWIN, GORDON C.

BARNES, WILL C.
The “discovery” of Meteor Crater, v. 7, no. 2, pp. 5-8, Aug. 1934.

BARTLETT, KATHARINE. See also Kewanwytewa, Jim, 1; Nequatewa, Edmund, 1.
11. A prehistoric “mine” of red argillite, resembling pipestone, near Del Rio, Arizona, v. 11, no. 12, pp. 75-78, June 1939.
17. Edible's route across west central Arizona, v. 16, no. 1, pp. 11-17, July 1943.

BAUER, DAVID L.

BEESON, WILLIAM J.

BEGAY, SCOTTY. See Van Valkenburg, Richard, 4.

BERRY, STILLMAN S.
A shell necklace from the Havasupai Indians, v. 19, no. 2, pp. 29-34, Oct. 1946.

BLISSENBACH, ERICH
Geology of the Aubrey Valley, south of the Hualpai Indian Reservation, northwest Arizona, v. 24, no. 4, pp. 119-127, April 1952.

BRADY, L. F.
3. A mounted skeleton of a ground sloth, v. 6, no. 4, pp. 19-21, Oct. 1933.
8. Tracks in the Coconino sandstone compared with those of small living arthropods, v. 12, no. 2, pp. 32-34, Oct. 1939.

BRETERNITZ, DAVID A. See also Miller, William C., 2, 3.
1. Additional stone tool types from Concho, Ariz., v. 29, no. 4, pp. 78-80, April 1957.

BREW, J. O.

BREWER, SALLIE PIERCE
The “long walk” to Bosque Redondo, as told by Peshlaki Etsedi, v. 9, no. 11, pp. 55-62, May 1937.

BRODIE, ALEXANDER O., 1898-1955 (necrology)

BUTCHART, J. W.

CALLAHAN, JOSEPH T.
The geology of the Glen Canyon group along the Echo Cliffs, Arizona, v. 23, no. 4, pp. 49-57, April 1951.

CAMP, CHARLES L.

CAYWOOD, L. R. See Spicer, E. H., 1.
CHAPEL, WILLIAM L.
The broadleaf trees of northern Arizona, v. 13, no. 1, pp. 10-14, July 1940.

COLBERT, EDWIN H. See also Camp, Charles L.
3. Rates of erosion in the Chinle formation, v. 28, no. 4, pp. 73-76, April 1956.

COLTON, HAROLD S. See also Bartlett, Katharine, 13; Colton, Mary Russell, 7; Hargrave, Lyndon L., 16; Nequatewa, Edmund, 2, 3.
5. A brief survey of the early expeditions into northern Arizona, v. 2, no. 9, pp. 1-4, March 1930.
7. The visit of the Princeton University International Summer School of Geology and Natural Resources to Flagstaff, July, 1930, supplement to v. 3, no. 1, pp. 1-4, July 1930.
12. Geological Notes: Robinson Crater (a rhyolite crater), v. 3, no. 11, p. 4, May 1931.
15. Walnut Canyon National Monument, v. 4, no. 11, pp. 1-6, May 1932.
18. Wupatki, the Tall House, v. 5, no. 11, pp. 61-64, May 1933.
27. The eruption of Sunset Crater as an eyewitness might have observed it, v. 10, no. 4, pp. 9-12, Oct. 1937.
31. The Museum is ten years old, v. 10, no. 11, pp. 33-36, May 1938.
34. Three Turkey House (near Canyon de Chelly), v. 12, no. 2, pp. 26-31, Oct. 1939.
35. Exhibitions of Indian arts and crafts, v. 12, no. 4, pp. 60-65, April 1940.
36. The Museum of Northern Arizona in 1939, v. 12, no. 4, pp. 65-69, April 1940.
40. The Museum of Northern Arizona in 1940, v. 13, no. 4, pp. 69-72, April 1941.
43. The Museum of Northern Arizona in 1941, v. 14, no. 4, pp. 64-68, April 1942.
44. How Flagstaff was named, v. 15, no. 2, pp. 17-21, Oct. 1942.
46. The Museum of Northern Arizona in 1942, v. 15, no. 4, pp. 60-64, April 1943.
47. Life history and economic possibilities of the American lac insect, Tachardilla larrea, v. 16, no. 2, pp. 21-32, Oct. 1943.
48. What the archaeologist can learn from the biologist, v. 16, no. 3, pp. 57-60, Jan. 1944.
50. The Museum of Northern Arizona and the post-war period, v. 17, no. 4, pp. 55-64, April 1945.
52. Another unfired sherd from Black Dog Cave, Loganville Gray, v. 17, no. 4, pp. 69-70, April 1945.
53. Sunset Crater, v. 18, no. 1, pp. 7-14, July 1945.
54. An unusual accident to a broad-tailed hummingbird, v. 18, no. 1, p. 15, July 1945.
57. "Fools names like fools faces" (petroglyphs), v. 19, no. 1, pp. 1-8, July 1946.
64. The activities of the Museum of Northern Arizona and associated laboratories and some of its more urgent needs, v. 22, no. 4, pp. 53-59, April 1950.
70. The Museum in 1952, v. 25, no. 4, pp. 80-90, April 1953.
77. Early failure to solve the water shortage, v. 29, no. 2, pp. 36-40, Oct. 1956.

COLTON, MARY-RUSSELL F. See also Nequatewa, Edmund, 3, 4.
5. The arts and crafts of the Hopi Indians, v. 11, no. 1, pp. 3-24, July 1938.

COOLEY, MAURICE E.
5. Ancient cave deposit near Thoreau, New Mexico, v. 31, no. 4, p. 89, April 1959.

CROSS, R. T.
Arizona's cliff dwellings (Walnut Canyon in 1884), v. 27, no. 2, pp. 18-20, Oct. 1954.

CUTLER, HUGH C.
(and Kaplan, Lawrence). Some plant remains from Montezuma Castle and nearby caves (NA 4007 B. and C. on Dry Beaver Creek), v. 28, no. 4, pp. 98-100, April 1956.

DANSON, EDWARD

DEAVER, CHESTER F.

DECKER, BETTY LOU
Wind markings in the Coconino sandstone, v. 16, no. 3, pp. 52-56, Jan. 1944.

DE LAGUNA, FREDERICA
The Bryn Mawr dig at Cinder Park, Arizona, v. 14, no. 4, pp. 53-56, April 1942.
DESAUSSURE, RAYMOND. See also Farmer, Malcolm F., 3.

DEVEREUX, GEORGE

DOUGLAS, FREDERIC H.

DRAKE, ROBERT J.

ECKEL, LE CHARLES G.
History of Ganado, Arizona, v. 6, no. 10, pp. 47-50, April 1934.

EULER, ROBERT C.
2. Altitude of the San Francisco Peaks, Arizona, v. 25, no. 4, p. 91, April 1953.

EZELL, PAUL H.

FARMER, MALCOLM F.

FETH, JOHN H.

FLEMING, MARY Mc MILLIAN
Thomas Forsythe McMillan (Flagstaff pioneer), v. 25, no. 2, pp. 43-44, Oct. 1952.

FOSTER, GENE F.
2. Petrographic art in Glen Canyon, v. 27, no. 1, pp. 6-18, July 1954.

GAINES, XERPHA
Plants in Glen Canyon, v. 30, no. 2, pp. 31-34, Oct. 1957.

GUTSCHICK, RAYMOND C.
The Redwall limestone (Mississippian) of Yavapai County, Arizona, v. 16, no. 1, pp. 1-11, July 1943.
HACK, JOHN T. See also Brew, J. O., 1.
The late Quarternary history of several valleys of northern Arizona: a preliminary announcement, v. 11, no. 11, pp. 67-73, May 1939.

HARGRAVE, LYNDON L.
6. Influence of economic geography upon the rise and fall of the Pueblo culture in Arizona, v. 4, no. 6, pp. 1-8, Dec. 1931.
13. The Tsegi country, v. 6, no. 11, pp. 51-54, May 1934.
21. Sikyatki—were the inhabitants Hopi? v. 9, no. 12, pp. 63-66, June 1937.
22. Results of a study of the Cohonina branch of the Patayan culture in 1938, v. 11, no. 6, pp. 43-50, Dec. 1938.

HARRINGTON, JOHN P.

HASKELL, HORACE S. See also Deaver, Chester F., 1, 2; McDougall, W. B., 1.
Flowering plants in Glen Canyon, late summer aspect, v. 31, no. 1, pp. 1-3, July 1958.
HASKELL, HORACE S., 1915-1959 (necrology),
  V. 31, no. 4, p. 90, April 1959.
HILL, W. W.
  Some aspects of Navajo political structure, v. 13, no. 2, pp. 23-28,
  Oct. 1940.
HOFFMEISTER, DONALD F.
  Mammals new to Grand Canyon National Park, Arizona, v. 28, no. 1,
HOLTERMAN, JACK
  1955.
HUBERT, VIRGIL
  An introduction to Hopi pottery design, v. 10, no. 1, pp. 1-4, July
  1937.
HUGHES, PAUL W.
  History of the Supai formation in Black Mesa, Yavapai County, Aris­
JACKSON, ROBERT L.
  Stratigraphic relationships of the Supai formation of central Arizona,
  v. 24, no. 2, pp. 84-91, Oct. 1951.
JOHNSTON, PHILIP
  1. The story of Tolchaco (a mission for the Navajos, 1900-1918), v.
     9, no. 2, pp. 9-12, Aug. 1936.
  3. The battle at Canyon Padre from the Navajos' point of view, v.
     14, no. 4, pp. 57-63, April 1942.
JONES, COURTNEY R.
  Spindle spinning, Navajo style, v. 18, no. 3, pp. 43-51, Jan. 1946.
JONES, VOLNEY H.
  1. A new and unusual Navajo dye (Endothia singularis), v. 21, no.
  2. The establishment of the Hopi Reservation, and some later de­
     1950.
JUDD, NEIL M.
KAPLAN, LAWRENCE. See Cutler, Hugh C., 1.
KASSEL, HAROLD L.
  Winter birds on the campus at Flagstaff, v. 13, no. 4, pp. 65-68, April
  1941.
KENT, KATE PECK
  1. The braiding of a Hopi wedding sash, v. 12, no. 3, pp. 46-52,
     Jan. 1940.
  2. Notes on the weaving of prehistoric pueblo textiles, v. 14, no. 1,
     pp. 1-11, July 1941.
KEWANWYTEWA, JIM
  1. (and Bartlett, Katharine). Hopi moccasin making, v. 19, no. 2,
  2. A true story, v. 29, no. 4, pp. 87-88, April 1957.
KLAUBER, LAURENCE M.
KOONS, E. DONALDSON
1. The Uinkaret volcanic field, Arizona, v. 15, no. 4, pp. 52-59, April 1943.
2. Geology of the eastern Hualpai Reservation, v. 20, no. 4, pp. 53-60, April 1948.

LANCE, JOHN F.
Problems of dating early man in North America by paleontology, v. 27, no. 4, pp. 1-5, April 1955.

LANGE, ARTHUR L.

LOCKETT, H. CLAIBORNE
2. Midwives and childbirth among the Navajo, v. 12, no. 1, pp. 15-17, July 1939.

MASON, CHARLES T., Jr.

McDOUGALL, W. B.

McGREGOR, JOHN C.
10. An unfired sherd from Black Dog Cave, v. 17, no. 4, pp. 68-69, April 1945.

McKEE, EDWIN D. See also Camp, Charles L., 1.
1. Grand Canyon climates during the Age of Mammals, v. 4, no. 10, pp. 1-7, April 1932.
3. Tracks that go uphill, v. 16, no. 4, pp. 61-72, April 1944.

MEARS, BRAINERD, JR.

MILLER, WILLIAM C.
1. Two possible astronomical pictographs found in northern Arizona, v. 27, no. 4, pp. 6-13, April 1955.

MINTZ, YALE

MOLDE, HAROLD E. See Danson, Edward, 1.

NEQUATEWA, EDMUND
5. Dr. Fewkes and Masawwu, the birth of a legend, v. 11, no. 2, pp. 25-27, Aug. 1938.
7. The morning-echo days, the old Hopi way of life, v. 13, no. 1, pp. 15-16, July 1940.
10. Some Hopi recipes for the preparation of wild food plants, v. 16, no. 1, pp. 18-20, July 1943.

NICOL, DAVID

NININGER, H. H.

NORTHERN ARIZONA SOCIETY OF SCIENCE AND ART

O'CONNELL, DANIEL T.

OFFICER, JAMES E.
Indian education, v. 29, no. 4, pp. 73-77, April 1957.

OLSON, ALAN P. See Ezell, Paul H., 1.

OPDYKE, NEIL S.

PAGE, GORDON B.
1. Navajo house types, v. 9, no. 9, pp. 47-49, March 1937.

PARK, CHARLES F.
Government Cave, a lava tunnel, v. 2, no. 6, pp. 1-3, Dec. 1929.

PATTISON, HALKA
Life in an ancient Arizona sea, v. 21, no. 1, pp. 1-6, July 1948.

PAVATEA, TOM (necrology)
V. 15, no. 4, p. 59, April 1943.
PEABODY, FRANK E.

PEARSON, G. A.
The coniferous northern Arizona, v. 6, no. 1, pp. 1-7, July 1933.

PEARSON, GUSTAV ADALPH, 1880-1945 (necrology)
V. 28, no. 4, pp. 86-90, April 1956.

PECK, FRED R.

PETERS, JOHN R.
High level potholes near Toadlena, New Mexico, v. 15, no. 1, pp. 1-9, July 1942.

PHILLIPS, ALLAN R. See also Hargrave, Lyndon L., 18.

PIERSON, LLOYD
The archaeology of Richards Cave, Arizona, v. 28, no. 4, pp. 91-97, April 1956.

POBORSKI, STANISLAW
The Virgin formation of the St. George, Utah area, v. 25, no. 4, pp. 69-79, April 1953.

POLI of Sichomovi, Hopi potter, (necrology)
V. 16, no. 3, p. 56, Jan. 1944.

PRICE, WILLIAM E., JR.
1. The Moenkopi formation at Sycamore Canyon, v. 21, no. 4, pp. 49-54, April 1949.

PUGH, ELEANOR A.

QUAINTANCE, CHARLES W.

REED, CHARLES A.
REED, ERIK K.

REICHARD, GLADYS A.
Navajo classification of natural objects, v. 21, no. 1, pp. 7-12, July 1948.

REICHE, PARRY
Erosion stages of the Arizona plateau as reflected in a headwater drainage area, v. 13, no. 4, pp. 53-64, April 1941.

ROBERTS, JOHN M. See Smith, Watson, 2.

RUNCORN, S. KEITH. See also Opdyke, Neil S.

RUSSELL, HENRY NORRIS

ST. CLAIR, CHARLES S.

SCHROEDER, ALBERT H.

SCHWARTZ, DOUGLAS W. See also Wetherill, Milton, 2.

SEFF, PHILIP. See Brady, L. F., 14.

SHARP, ROBERT P.

SHUTLER, DICK, JR.
1. The Dry Creek Site: a pre-pottery lithic horizon in the Verde Valley, Arizona, v. 23, no. 1, pp. 6-10, July 1950.
SMITH, WATSON

SNOW, JOSEPH I.

SPANGLE, PAUL F.

SPICER, E. H.
1. (and Caywood, L.R.). Tuzigoot, a prehistoric pueblo of the upper Verde, v. 6, no. 9, pp. 43-46, March 1934.

STEWART, OMER C.

STRAHLER, ARTHUR N.
2. Landscape features of the Kaibab and Coconino plateaus, v. 18, no. 1, pp. 1-6, July 1945.
3. A geological guide to the western part of the Kaibab plateau, v. 19, no. 4, pp. 53-60, April 1947.

SUTTON, MYRON. See also Spangle, Paul.

TAYLOR, WALTER W.

THOMAS, TULLY H.

TITIEV, MISCHA

TURNER, CHRISTY G., II
2. Some aspects of physical anthropology that can aid the archaeologist, v. 31, no. 3, pp. 64-65, Jan. 1959.

VANDERHOOF, V. L.
The Chinle formation, v. 6, no. 7, pp. 35-38, Jan. 1934.
VAN VALKENBURGH, RICHARD

2. Navajo common law, II: Navajo law and justice, v. 9, no. 10, pp. 51-54, April 1937.
5. Sacred places and shrines of the Navajos, Part II: Navajo rock and twig piles, called tsenadjihih, v. 13, no. 1, pp. 6-9, July 1940.

VIVIAN, GORDON

Alcove House at NA 5700 (near Sunset Crater, Arizona), v. 29, no. 1, pp. 6-11, July 1956.

WATSON, HUGO VICTOR, 1887-1952 (necrology)


WATSON, JAMES B.

How the Hopi classify their foods, v. 15, no. 4, pp. 49-52, April 1943.

WELLES, S. P. See also Camp, Charles, 1.

"How do you know where to look for them?" v. 20, no. 3, pp. 41-50, Jan. 1948.

WENDORF, FRED


WETHERILL, BEN

Notes on the discovery of Betatakin, v. 27, no. 4, pp. 23-24, April 1955.

WETHERILL, JOHN, (1866-1944) and WETHERILL, LOUISA WADE, (1877-1945) (necrology),

V. 18, no. 3, p. 52, Jan. 1946.

WETHERILL, JOHN C.


WETHERILL, MILTON A. See also McGregor, John C., 9.


WHITING, ALFRED F.


WHITTEMORE, MARY

WILDER, CARLETON S.

WINTERS, STEPHEN S.

WOOD, WILLIAM H.

WOODHOUSE, DR. SAMUEL WASHINGTON, JR. (necrology)
V. 15, no. 4, p. 59, April 1943.

WOODWARD, ARTHUR

WYMAN, LELAND C.
SUBJECT LIST

Archaeology, Physical Anthropology, Tree Ring Studies

GENERAL ARCHAEOLOGY

Conservation of the scientific resources of Arizona. Colton* 10. 3:10
The archaeological survey of the Museum of Northern Arizona.
Colton 13. 4:1
Prehistoric cotton fabrics of Arizona. McGregor 2. 4:2
Prehistoric pueblo foods. Bartlett 2. 4:4
Influence of economic geography upon the rise and fall of the
Pueblo culture in Arizona. Hargrave 6. 4:6
Prehistoric mining in the Southwest. Bartlett 7. 7:10
What do potsherds tell us? Hargrave 16. 7:12
Stages in northern Arizona prehistory. Colton 23. 8:1
Primitive pottery firing methods. Colton 33. 11:10
Notes on the weaving of prehistoric Pueblo textiles. Kent 2. 14:1
What the archaeologist can learn from the biologist. Colton 48. 16:3
“Fools names like fools faces” (petroglyphs). Colton 57. 19:1
Prehistoric use of onyx marble. Bartlett 19. 19:1
Hopi pottery firing temperatures. Colton 67. 24:2
Twenty-five years of anthropology (at the Museum of Northern
Arizona). Bartlett 23. 26:1
An analysis of some salt samples from the Southwest. Taylor 2. 27:2
A salt specimen from the lower Virgin River: another chemical
analysis. Euler 3. 27:2
Problems of dating early man in North America by paleontology.
Lance. 27:4
Ceramic depository of the Southwest (at the Museum of Northern
Arizona). Colton 74. 28:2
Turquoise. St. Clair 2. 30:4
Some aspects of physical anthropology that can aid the archaeologist.
Turner 2. 31:3

SAN FRANCISCO MOUNTAINS AND COCONINO PLATEAU

General
Stone artifacts: San Francisco Mountain region. Bartlett 1. 3:6
A review of the archaeological activities in the San Francisco
Mountain region, Arizona. Hargrave 9. 5:7
Notes upon a primitive stone industry of the Little Colorado
valley. Bartlett 14. 14:3
The prehistoric population of the Flagstaff area. Colton 63. 22:2

SINAGUA CULTURE (for the most part)

Walnut Canyon. Colton 1. 2:3
Elden Pueblo. Hargrave 1. 2:5
The Citadel. Colton 4. 2:8
The prehistoric earth lodges of the San Francisco Mountains.
Hargrave 3. 3:5
Museum of Northern Arizona archaeological expedition, 1931
(Pueblo II pithouses). Hargrave 5. 4:5

* Colton = H. S. Colton
Geological activities of the Museum of Northern Arizona, 1931 (inc. discovery of pithouses under Sunset ash). Brady 2 ........................................... 4:9

Walnut Canyon National Monument. Colton 15 ........................................... 4:11

The Museum of Northern Arizona archaeological expedition, 1932 (Walnut Canyon, pithouses at Jack Smith Tank, and N. A. 1814). Hargrave 8 .................................................. 5:5

Wupatki, the Tall House. Colton 18 .................................................. 5:11

Life in Pueblo II. Bartlett 5 .................................................. 6:3


Some Pueblo I structures of the San Francisco Mountains, Arizona. Spicer 2 .................................................. 7:5

Additional houses beneath the ash from Sunset Crater: Museum archaeological expedition of 1935. McGregor 6 .................................................. 8:5

Ball courts in northern Arizona. McGregor 7 .................................................. 8:11

Winona Village: a prehistoric site showing Hohokam influence in the Flagstaff area. McGregor 8 .................................................. 9:7

The eruption of Sunset Crater as an eyewitness might have observed it. Colton 27 .................................................. 10:4

Winona Village, 1938 (a report of progress). McGregor 9 .................................................. 11:7

Ball Court notes. Colton 37 .................................................. 13:1

Ball Court notes, 2. Colton 39 .................................................. 13:2

The Bryn Mawr dig at Cinder Park, Arizona. de Laguna 14 .................................................. 14:4

Sunset Crater. Colton 53 .................................................. 18:1

Excavations in Big Hawk Valley. Smith 1 .................................................. 21:3

Arizona's cliff dwellings (Walnut Canyon in 1884). Cross 27 .................................................. 27:2

A Sinagua kiva. McGregor 13 .................................................. 27:3

The identification of Ho-vo-it-ti-tu-qua Pueblo (late prehistoric sites of Flagstaff and Anderson Mesa areas). Farmer 5 .................................................. 28:2

The 1955 Pollock site excavation. McGregor 14 .................................................. 28:3

Alcove House at NA 5700 (near Sunset Crater, Arizona). Vivian 29:1

Names at Wupatki. Colton 76 .................................................. 29:1

The stages of fill of room 10 at the Pollock Site. Beeson 1 .................................................. 29:3

1956 excavations near Flagstaff. Breternitz 3 .................................................. 30:1

1956 excavations near Flagstaff, part II. Breternitz 4 .................................................. 30:2

The Pershing site. McGregor 15 .................................................. 31:2

Excavation at Two Cinder Park phase sites. Breternitz 6 .................................................. 31:3

COHONINA CULTURE

Results of a study of the Cohonina branch of the Patayan culture in 1938 (Sites at Pittsberg, N. of Williams). Hargrave 22 .................................................. 11:6

Archaeological survey of the Great Thumb area, Grand Canyon National Park. Wilder 17:2

Excavation of Cohonina sites, 1949 (North of Williams). McGregor 12 .................................................. 22:4

Kendrick Spring: a prehistoric walk-in well. Colton 69 .................................................. 25:1

The Havasupai, 600 A. D. — 1955 A. D., a short culture history. Schwartz 28:4

A Cohonina burial. Euler 4 .................................................. 29:3

A Cohonina cremation. Wetherill 2 .................................................. 29:3

Havasupai characteristics in the Cohonina. Whiting 7 .................................................. 30:3

A human skeleton from the Cohonina culture area. Turner 1 .................................................. 31:1

20
NORTHEASTERN ARIZONA AND SOUTHEASTERN UTAH

The Tsegi country. Hargrave 13.......................... 6:11
A recently discovered Basket Maker burial cave in the Tsegi.
Hargrave 14.............................................. 7:4
Northern Arizona's first farmers (Basket Makers). Lockett 1........ 7:4
Archaeological investigations in the Tsegi canyons of northeastern
Arizona in 1934. Hargrave 15........................ 7:7
A brief archaeological survey of Glen Canyon. Foster 1......... 25:2
An early slabhouse near Kayenta, Arizona. Taylor 1............ 26:4
Petrographic art in Glen Canyon. Foster 2...................... 27:1
Notes on the discovery of Kiet Siel. J. C. Wetherill............. 27:3
Two possible astronomical pictographs found in northern Arizona.
Miller 1.......................................................... 27:4
Notes on the discovery of Betatakin. Ben Wetherill............. 27:4
A cache of prehistoric implements from northern Arizona, Adams 1... 29:3
Heltagito rockshelter (NA 6380). Breternitz 2.......... 30:1
1957 Navaho Canyon survey, preliminary report. Miller 2........ 30:3
The Glen Canyon Project. Danson 2.......................... 30:3
1958 Navaho Canyon survey, preliminary report. Miller 3........ 31:1

HOPI MESAS

Shungopovi. Hargrave 2.................................. 2:10
First Mesa. Hargrave 4.................................... 3:8
Oraibi: a brief history of the oldest inhabited town in the United
States. Hargrave 7........................................ 4:7
The Jeddito Valley and the first Pueblo towns in Arizona to be visited
by Europeans. Hargrave 17............................... 8:4
Hopi coal mines. Colton 25................................ 8:12
Si'kyatki, were the inhabitants Hopi? Hargrave 21................ 9:12
Prehistoric use of coal by Indians of northern Arizona. Brew 1...... 12:1
Preliminary report of the Peabody Museum Awatovi expedition of
1939. Brew 2.................................................. 13:3
Awatovi mural decorations. Farmer 2........................ 27:2
Awatovi bows. Farmer 4.................................... 28:1

NORTHEASTERN ARIZONA

An occurrence of Jeddito Black-on-yellow pottery in northwestern
Arizona, north of the Grand Canyon. Baldwin.................. 17:1
An unfired sherd from Black Dog Cave. McGregor 10.......... 17:4
Another unfired sherd from Black Dog Cave, Loganville Gray.
Colton 52...................................................... 17:4
The significance of Willow Beach. Schroeder 5.................. 25:2

VERDE AND AGUA FRIA VALLEYS

Tuzigoot, a prehistoric pueblo of the upper Verde. Spicer 1........ 6:9
A prehistoric "mine" of red argillite, resembling pipestone, near Del
Rio, Arizona. Bartlett 11.............................. 11:12
Montezuma Well. Schroeder 1................................ 20:3
A preliminary examination of the Sacred Mountain ball court.
Schroeder 2................................................. 21:4
The Dry Creek Site: a pre-pottery lithic horizon in the Verde
Valley, Arizona. Shutler 1............................... 23:1
A new ball court site in the Verde Valley. Schroeder 3

Two pueblo ruins in the Verde Valley, Arizona. Shutler 2

Excavation of a pithouse in Williamson Valley, Arizona. Shutler 3

Four prehistoric sites near Mayer, Arizona, which suggest a new focus.

Schroeder 8

The archaeology of Richards Cave, Arizona. Pierson

Some plant remains from Montezuma Castle and nearby caves (NA 4007 B. and C. on Dry Beaver Creek). Cutler

Note on a burial on the upper Verde River. Peck

The Calkins Ranch Site, NA 2385, preliminary report. Breternitz 5

OTHER AREAS

Three Turkey House (near Canyon de Chelly). Colton

A clay sandal last from Utah. McGregor

Early archaeological sites in the Petrified Forest National Monument.

Wendorf

The Flattop site in the Petrified Forest National Monument.

Wendorf 2

Casa Malpais, a fortified pueblo site at Springerville, Arizona.

Danson 1

Archaeological investigations in the Petrified Forest: Twin Butte site, a preliminary report. Wendorf

The Concho complex: a popular report. Thomas

Afterword to the “Concho complex: a popular report”. Wendorf

The problem of Hohokam, Sinagua, and Salado relations in southern Arizona. Schroeder

An artifact of human bone from eastern Arizona. Ezell

Split-twig animal figurines. Farmer

Additional stone tool types from Concho (Ariz.). Breternitz

A possible prehistoric shrine in eastern Arizona. Beeson

TREE RING STUDIES

Tree ring dating. McGregor

Additional prehistoric dates from Arizona. McGregor

First tree ring conference. N.A.S.S.A.* 3

Art

See also Ethnology for Indian arts and crafts

The Museum asks help for the children of Arizona.

M. R. F. Colton 4

Art department of the Museum of Northern Arizona (history of).

M. R. F. Colton 9

Biology

Upsetting the balance of nature. McGregor

Biology: the first twenty-five years (at Museum of Northern Arizona). Phillips

* N.A.S.S.A. = Northern Arizona Society of Science and Art.
## BOTANY

The conifers of northern Arizona. Pearson .................................................. 6:1
The small herbarium: The preparation, organization and use of a small botanical collection. Whiting 2 ................................................................. 10:2
The broadleaf trees of northern Arizona. Chapel ....................................... 13:1
The bearing of junipers on the Espejo expedition. Whiting 4 .................... 15:2
Junipers of the Flagstaff region. Whiting 5 ................................................ 15:2
Edible wild plants of northern Arizona. Bartlett 17 ..................................... 16:1
Flowering plants and ferns of Walnut Canyon. Arnberger .......................... 20:2
The botany of Montezuma Well. Spangle 1 .............................................. 22:1
A botanical reconnaissance in Oak Creek Canyon. Sutton 1 ..................... 25:2
A revised checklist of the flora of Walnut Canyon National Monument. Spangle 2 .......................................................... 26:2
Plant life zones. Deaver 1 ........................................................................ 27:3
Ferns and flowering plants of Havasu Canyon. Deaver 2 ......................... 28:1
Botany at the Museum of Northern Arizona. McDougall 1 ....................... 29:2
Plants in Glen Canyon. Gaines ................................................................ 30:2
Botany of the Museum and Colton Ranch area: II. Plant competition. McDougall 3 ................................................................. 30:4
Winter-blooming century plant. Anonymous 4 ............................................ 30:4
Flowering plants in Glen Canyon, late summer aspect. Haskell 1 ............... 31:1
Notes on Arizona flora. Mason .................................................................. 31:3

## ZOOLOGY

### BIRDS

Bird life of the San Francisco Mountains, Arizona: 1, General introduction. Hargrave 10 ................................................................. 5:10
Bird life of the San Francisco Mountains, Arizona: 3, Land birds known to nest in the pine belt. Hargrave 18 ............................................. 8:9
Why birds are banded. Hargrave 19 .......................................................... 9:3
Bird life of the San Francisco Mountains, Arizona: 4, Swans, geese, and ducks. Hargrave 20 ................................................................. 9:5
Winter birds on the campus at Flagstaff. Kassel ........................................ 13:4
Results from a bird banding station at Grand Canyon. McKee 4 ............... 15:1
An unusual accident to a broad-tailed hummingbird. Colton 54 .................. 18:1
The status of birds in the Mount Elden area. Pugh 1 .................................. 26:4
An unusual goldfinch nest. Pugh 2 ........................................................... 27:1
Bird survey of the Verde Valley. Sutton 2 .................................................. 27:2
A history of Say’s Phoebe at Flagstaff. Phillips 4 ........................................ 28:2
The migrations of birds in northern Arizona. Phillips 5 ............................... 29:2

### MAMMALS

Mammals of the San Francisco Mountain region, No. 1: daytime rodents. Quaintance 1 ................................................................. 7:1
Mammals of the San Francisco Mountain region, No. 2: nighttime rodents. Quaintance 2 ................................................................. 7:9
Arizona antelope. McGregor 5 ........................................ 8:3
Distribution of the tassel-eared squirrels. McKee 2 .................. 14:1
Mammals new to Grand Canyon National Park, Arizona.
    Hoffmeister .................................................................. 28:1

OTHER
What can we do about lac? Colton 45 .................................. 15:3
Life history and economic possibilities of the American lac insect,
    Tachardiella larrea. Colton 47 ..................................... 16:2
A shell necklace from the Havasupai Indians. Berry .................. 19:2
Mollusk shells found in alluvium, at Buell Park, Apache County,
    Arizona. Drake .................................................................. 22:2
A prehistoric naturalist. Wyman 3 ...................................... 24:4
A survey of the butterflies of the Verde Valley. Bauer .............. 26:3

Ethnology

GENERAL
The Indians of northern Arizona. Bartlett 4 .......................... 5:12
Notes on the Indian crafts of northern Arizona. Bartlett 10 .... 10:7
Exhibitions of Indian arts and crafts. Colton 35 .................... 12:4
The distribution of the Indians of Arizona in 1848. Bartlett 18 ... 17:3
Indian education. Officer ................................................. 29:4

APACHE
John G. Bourke on the Arizona Apache, 1874. Woodward 1 .... 16:2
How the Navajo and Apache brought about the state of Arizona.
    Bartlett 15 .................................................................. 15:1

HAVASUPAI
John D. Lee and the Havasupai. Whiting 6 ............................ 21:1
A brief history of the Havasupai. Schroeder 6 ........................ 25:3

HOPI

ARTS AND CRAFTS, AGRICULTURE, ETC.
The Hopi craftsman. M. R. F. Colton 1 ............................... 3:1
Technique of the major Hopi crafts. M. R. F. Colton 2 ......... 3:12
Wool for our Indian weavers—what shall it be? M. R. F. Colton 3 4:12
Hopi Indian agriculture: I, background. Whiting 1 ............. 8:10
Hopi coal mines. Colton 25 .............................................. 8:12
How to appreciate Hopi handicrafts. Bartlett 9 .................... 9:1
An introduction to Hopi pottery design. Hubert ................. 10:1
Hopi Indian agriculture: II, seed source and distribution. Whiting 3 10:5
The arts and crafts of the Hopi Indians: their historic background,
    processes of manufacture, and the work of the Museum for the
    maintenance of Indian art. M.R.F. Colton 5 .................... 11:1
Notes on Hopi brocading. Douglas ..................................... 11:4
Dates of planting at the Hopi Indian pueblo of Oraibi. Titiev 2 11:5
Primitive pottery firing methods. Colton 33 .......................... 11:10
Hopi silversmithing—its background and future. M. R. F. Colton 6 12:1
Miniature pottery. Nequatewa 6 ...................................... 12:1
The braiding of a Hopi wedding sash. Kent 1 ....................... 12:3
Nampeyo, famous Hopi potter (1859?-1942). Nequatewa 9 .... 15:3
An appreciation of the art of Nampeyo and her influence on Hopi pottery. M. R. F. Colton 7

How the Hopi classify their foods. Watson 15:3

Some Hopi recipes for the preparation of wild food plants. Nequatewa 10

Hopi moccasin making. Kewanwytwewa 19:2

Hopi yucca baskets. Bartlett 20

Hopi Indian costume. Bartlett 21

Hopi pottery firing temperatures. Colton 67

Nampeyo, an additional note. Judd 24:2

CUSTOMS, LAW, CEREMONIES, ETC.

Hopi Hopiwiime: The Hopi ceremonial calendar. Nequatewa 1 3:9

Hopi courtship and marriage. Nequatewa 4 5:9

A brief survey of Hopi common law. Colton 21 7:6

The use of kinship terms in Hopi ritual. Titiev 10:3

The morning-echo days, the old Hopi way of life. Nequatewa 7 13:1

Hopi land patterns. Page 2 13:2

Hopi number systems. Colton 41 14:2

Hopi respect for game animals. Nequatewa 12 18:4

The place of corn and feathers in Hopi ceremonies. Nequatewa 13 19:1

A flute ceremony at Hotevilla. Nequatewa 14 19:2

How the Hopi handle rattlesnakes. Klauber 19:3

What is a kachina? Colton 58 19:3

Hopi deities. Colton 60 20:1

Chaveyo: the first kachina. Nequatewa 15 20:4

FOLKLORE

The ladder dance. Nequatewa 2 5:2

Hopi legends of the Sunset Crater region. Nequatewa 3 5:4

Dr. Fewkes and Masauwu, the birth of a legend. Nequatewa 5 11:2

The destruction of Elden Pueblo, a Hopi story. Nequatewa 16 28:2

A true story. Kewanwytwewa 2

HISTORY

Hopi history, No. 1: Spanish contacts with the Hopi. Bartlett 6 6:12

Hopi history, No. 2: The Navajo wars: 1823-1870. Bartlett 8 8:7

How Don Pedro de Tovar discovered the Hopi and Don Garcia Lopez de Cardenas saw the Grand Canyon, with notes upon their probable route. Bartlett 12 12:3

Why the Spaniards call the Hopi “Moqui”. Nequatewa 8 14:3

A Mexican raid on the Hopi pueblo of Oraibi. Nequatewa 11 16:3

The establishment of the Hopi Reservation, and some later developments concerning Hopi lands. V. H. Jones 2 23:2

Mission San Bartolome de Xongopavi. Holterman 26:2

HOPI-TEWA

The Tewa Indians of the Hopi country. E. K. Reed 2 25:1

A trance experience. Aitken 28:3

MOHAVE

Mohave chieftainship in action: a narrative of the first contacts of the Mohave Indians with the United States. Devereux 23:3

Irataba, “Chief of the Mohave.” Woodward 2 25:3
NAVAJO

ARTS AND CRAFTS, DWELLINGS, ETC.

Wool for our Indian weavers—what shall it be? M. R. F. Colton 3........ 4:12
Navajo house types. Page 1................................................................. 9:9
The Navajo wedding basket, 1938. Stewart........................................ 10:9
Participation in Navajo weaving. Whitemore......................................... 13:3
Spindle spinning: Navajo style. C. R. Jones....................................... 18:3
A new and unusual Navajo dye (Endothia singularis). V. H. Jones L........ 21:2
Present trends in weaving on the western Navajo Reservation.
   Bartlett 22.................................................................................... 23:1

CUSTOMS, LAW, CEREMONIES, ETC.

Navajo common law, I: Notes on political organization, property and
   inheritance. Van Valkenburgh 1.................................................... 9:4
Navajo common law, II: Navajo law and justice.
   Van Valkenburgh 2......................................................................... 9:10
Navajo common law, III: Etiquette, hospitality, justice.
   Van Valkenburgh 3......................................................................... 10:12
Sacred places and shrines of the Navajo, Part I: The sacred moun-
   tains. Van Valkenburgh 4................................................................ 11:3
Midwives and childbirth among the Navajo. Lockett 2............................ 12:1
Sacred places and shrines of the Navajos, Part II: Navajo rock and
twig piles, called tsenadjihih. Van Valkenburgh 5............................... 13:1
Some aspects of Navajo political structure. Hill.................................... 13:2
Navajo classification of natural objects. Richardson.............................. 21:1
Notes on obsolete Navaho ceremonies. Wyman 1.................................. 23:3
Anthropology, economics and the Navaho. Euler 1................................ 23:4
Native Navaho methods for the control of insect pests. Wyman 2........... 24:3
New data on Navajo social organization. Adams 2................................ 30:3

HISTORY

Why the Navajos came to Arizona. Bartlett 3...................................... 5:6
The story of Tolchaco (a mission for the Navajos, 1900-1918),
   Johnston 1.................................................................................... 9:2
The “long walk” to Bosque Redondo, as told by Peshlaki Etsedi.
   Brewer......................................................................................... 9:11
Peshlakai Atsidi (1850?-1939). Johnston 2.......................................... 12:2
The battle at Canyon Padre from the Navajos’ point of view.
   Johnston 3.................................................................................... 14:4
How the Navajo and Apache brought about the State of Arizona.
   Bartlett 15.................................................................................. 15:1
The Dinexda tradition and pre-Spanish Navajo distribution.
   E. K. Reed 1.............................................................................. 17:3

PAIUTE

The Navajo wedding basket, 1938. Stewart........................................... 10:9
A Paiute trap corral on Skeleton Mesa, Arizona. M. A. Wetherill 1........ 26:4
A Pinon nut cache near Tonopah, Nevada. Shutler 4.............................. 28:3

YAVAPAII

A brief history of the Yavapai of the middle Verde Valley.
   Schroeder 1............................................................................... 24:3

ZUNI

Some aspects of Zuni law and legal procedure. Smith 2............................ 27:1

26
Geology, Geomagnetism, Paleontology, etc.

GENERAL GEOLOGY

The method of geology as applied to Rainbow Bridge. O’Connell 2:11
Onyx marble in northern Arizona. McKee 7:19
Geological research at the Museum (History of). McKee 9:26
Arizona State Land Department, Well-Cutting Laboratory (at the Museum of Northern Arizona). Anonymous 3:30
Remanent magnetization of lava flows in northern Arizona. Opdyke 29:3
Geomagnetism and paleomagnetism. Runcorn 31:2

GEOMAGNETISM

LIMESTONE CAVES AND SOLUTION CRACKS

The exploration of limestone solution cracks (Wupatki National Monument). Colton 30:10
The role of caves in dating Grand Canyon. Lange 1:27
Cave evolution in Marble Gorge of the Colorado River. Lange 2:29

REGIONAL GEOLOGY AND GEOMORPHOLOGY

Grand Falls. Colton 6:2
Tuba City and the Charlie Day Spring. Colton 11:3
Meteor Crater. Russell 4:3
Grand Canyon climates during the Age of Mammals. McKee 1:4
Elden Mountain. Brady 5:7
The arroyo of the Rio de Flag: a study of an erosion cycle. Brady 7:9
Some notes on the original condition of the Little Colorado River: a side light on the problems of erosion. Colton 28:10
The late Quaternary history of several valleys of northern Arizona: a preliminary announcement. Hack 11:11
Erosion stages of the Arizona plateau as reflected in a headwater drainage area. Reiche 13:4
Ancient glaciers of the San Francisco Peaks. Sharp 14:2
High level potholes near Toadlena, New Mexico. Peters 15:1
A guide to the east Kaibab monocline in the Grand Canyon region. Strahler 17:1
Landscape features of the Kaibab and Coconino plateaus. Strahler 2:18
Oak Creek Canyon. McKee 5:18
Coal Mine Canyon. Brady 9:19
A geological guide to the western part of the Kaibab plateau. Strahler 3:19
Geology of the eastern Hualpai Reservation. Koons 2:20
Faulting in Oak Creek Canyon and a discussion of contrary bending. Mears 23:2
The relation of geologic activity to the origin of parks and prairies near Flagstaff, Arizona. Feth 24:3
Geology of the Aubrey Valley, south of the Hualpai Indian Reservation, northwest Arizona. Blissenbach 24:4
Cenozoic rocks of south central Yavapai County. St. Clair 1:30
Physiography of the Glen-San Juan Canyon area: Part I, Cooley 2:31
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physiography of the Glen-San Juan Canyon area: Part II, Physiography of San Juan Canyon. Cooley</td>
<td>3:103</td>
</tr>
<tr>
<td>Physiography of the Glen-San Juan Canyon area: Part III, Physiography of Glen and Cataract Canyons. Cooley</td>
<td>4:103</td>
</tr>
</tbody>
</table>

**STRATIGRAPHY**

Geological activities of the Museum of Northern Arizona, 1931 (inc. discovery of Devonian rocks on Mt. Elden near Flagstaff).

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brady 2.</td>
<td>4:9</td>
</tr>
<tr>
<td>The Chinle formation. Vanderhoof</td>
<td>6:7</td>
</tr>
<tr>
<td>Notes on the geology of northern Arizona, No. 2: The Moenkopi sandstone. Brady 6.</td>
<td>8:2</td>
</tr>
<tr>
<td>Rainbow Bridge: The largest natural bridge in the world, (Jurassic, Navajo ss.). O'Connell 1.</td>
<td>8:6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Redwall limestone (Mississippian) of Yavapai County, Arizona. Gutschick</td>
<td>16:1</td>
</tr>
<tr>
<td>Wind markings in the Coconino sandstone. Decker</td>
<td>16:3</td>
</tr>
<tr>
<td>Paleococology of three faunules in the Permian Kaibab formation at Flagstaff, Arizona. Nicol</td>
<td>17:3</td>
</tr>
<tr>
<td>A guide to the continental Triassic of northern Arizona. Camp</td>
<td>20:1</td>
</tr>
<tr>
<td>Life in an ancient Arizona sea (Permian Kaibab formation). Pattison</td>
<td>21:1</td>
</tr>
<tr>
<td>The Moenkopi formation at Sycamore Canyon. Price 1</td>
<td>21:4</td>
</tr>
<tr>
<td>History of the Supai formation in Black Mesa, Yavapai County, Arizona. Hughes</td>
<td>22:2</td>
</tr>
<tr>
<td>The Kaibab formation of Sycamore Canyon. Price 2</td>
<td>23:1</td>
</tr>
<tr>
<td>The geology of the Glen Canyon group along the Echo Cliffs, Arizona. Callahan</td>
<td>23:4</td>
</tr>
<tr>
<td>Permian stratigraphy in eastern Arizona. Winters</td>
<td>24:1</td>
</tr>
<tr>
<td>Stratigraphic relationships of the Supai formation of central Arizona. Jackson</td>
<td>24:2</td>
</tr>
<tr>
<td>The Virgin formation of the St. George, Utah area. Poborski</td>
<td>25:4</td>
</tr>
<tr>
<td>Rates of erosion in the Chinle formation. Colbert 3</td>
<td>28:4</td>
</tr>
<tr>
<td>The Muav limestone and the supra-Muav sequence at Yampai Cliffs, Arizona. Wood</td>
<td>29:2</td>
</tr>
<tr>
<td>A note on the gamma member of the Kaibab. Brady 13</td>
<td>30:3</td>
</tr>
<tr>
<td>The Mesa Redondo member of the Chinle formation, Apache and Navajo counties, Arizona. Cooley 1</td>
<td>31:1</td>
</tr>
<tr>
<td>A new area of Kaibab limestone with silicified fossils. Brady 15.</td>
<td>31:4</td>
</tr>
<tr>
<td>Ancient cave deposit near Thoreau, New Mexico (within Permian San Andres limestone). Cooley 5</td>
<td>31:4</td>
</tr>
</tbody>
</table>

**VOLCANOLOGY**

Sunset Crater and the lava beds. Colton 2.                               | 2:4  |
| Government Cave, a lava tunnel. Park                                   | 2:6  |
| Geological Notes: Robinson Crater (a rhyolite crater). Colton 12       | 3:11 |
| Geological activities of the Museum of Northern Arizona, 1931 (inc. beginning of mapping of cinder cones and lava flows of San Francisco Mts. volcanic field). Brady 2. | 4:9  |
| The eruption of Sunset Crater as an eyewitness might have observed it. Colton 27. | 10:4 |
| Slate Mountain volcano-laccolith. Mintz                                 | 14:3 |
| The Uinkaret volcanic field, Arizona. Koons                            | 15:4 |
Sunset Crater. Colton 53.................................18:1
A large gas bubble on the Merriam Crater lava flow. Brady 10.........26:2

PALEONTOLOGY

Geological activities of the Museum of Northern Arizona, 1931 (inc.
Pleistocene mammals near Springerville, Ariz.). Brady 2..............4:9
A mounted skeleton of a ground sloth. Brady 3..........................6:4
Tracks in the Coconino sandstone compared with those of small living
arthropods. Brady 8..................................................................12:2
Hunting prehistoric lion tracks in Arizona. Nininger......................14:2
Tracks that go uphill. McKee 3........................................16:4
Paleoecology of three faunules in the Permian Kaibab formation at
Flagstaff, Arizona. Nicol.....................................................17:3
Trilobites of the middle Permian Kaibab formation of northern Ari-
zona. Snow.........................................................................18:2
Original colors preserved in fossil sea shells. McKee 8.....................19:3
A short history of Chirotherium, the “Hand Animal” of the Triassic.
Peabody 1...........................................................................20:2
“How do you know where to look for them?” (Fossils). Welles........20:3
The beginning of the age of dinosaurs in northern Arizona.
Colbert 1.............................................................................22:3
A preliminary announcement of a new mammalian fossil locality in
the Pliocene of Arizona. C. A. Reed........................................22:4
Paleontology at the Museum of Northern Arizona. Colbert 2..............26:3
Desmatosuchus in northern Arizona. Brady 11..........................27:1
Trails and trackways of northern Arizona: a record of the past.
Farmer 6..............................................................................28:3
Gilmore’s split-toed footprint from the Grand Canyon Hermit Shale
formation. Peabody 2................................................................29:2
Remains of the California condor in Arizona caves. deSaussure.........29:2
Colton’s Chirotherium. Peabody 3........................................30:1
New occurrence of Desmatosuchus in northern Arizona. Brady 12......30:3
Possible fossils from the early Proterozoic Bass Formation, Grand
Canyon, Arizona. Alf.........................................................31:3
“Elephant Hill” (Footprints in Verde Is.). Brady 14.........................31:4

History, Biography, Necrology

SPANISH AND MEXICAN PERIOD, 1540-1848

A brief survey of the early expeditions into northern Arizona. Colton 5..........2.9
Why the Navajos came to Arizona. Bartlett 3...............................5:6
Hopi history, No. 1: Spanish contacts with the Hopi, 1540-
1823. Bartlett 6 ..................................................................6:12
Hopi history, No. 2: The Navajo wars: 1823-1870. Bartlett 8..............8:7
How Don Pedro de Tovar discovered the Hopi and Don Garcia
Lopez de Cardenas saw the Grand Canyon, with notes upon
their probable route. Bartlett 12............................................12:3
A note on the Marcos de Niza inscription near Phoenix, Arizona.
Bartlett 13..........................................................................12:4
Tracing the lost mines of the padres. Colton 38..............................13:2
The bearing of junipers on the Espejo expedition. Whiting 4..............15:2
Onate's route across west central Arizona. Bartlett 16
Mission San Bartolome de Xongopavi. Holterman 28:2

AMERICAN PERIOD, AFTER 1848

History of Ganado, Arizona. Eckel 6:10
The "discovery" of Meteor Crater. Barnes 7:2
The story of Tolchaco (a mission for the Navajos, 1900-1918). Johnston 9:2
How Flagstaff was named. Colton 44 15:2
The establishment of the Hopi Reservation, and some later developments concerning Hopi lands. V. H. Jones 23:2
Early failure to solve the water shortage, (Flagstaff, 1915-1920). Colton 77 29:2
The Hubbell Trading Post at Ganado. Colton 81 30:4
How Coconino County received its name. Colton 83 31:2

HISTORY OF AND HISTORIC EVENTS AMONG VARIOUS INDIAN TRIBES

Shung-opovi. Hargrave 2 2:10
First Mesa. Hargrave 4 3:8
The Jeddito Valley and the first Pueblo towns in Arizona to be visited by Europeans. Hargrave 17 8:4
The "long walk" to Bosque Redondo, as told by Peshlaki Etsedi. Brewer 9:11
Sikyatki—were the inhabitants Hopi? Hargrave 21 9:12
The battle at Canyon Padre from the Navajos' point of view. Johnston 3 14:4
A Mexican raid on the Hopi pueblo of Oraibi. Nequatewa 11 16:3
Mohave chieftainship in action: a narrative of the first contacts of the Mohave Indians with the United States. Devereux 23:3
A brief history of the Yavapai of the middle Verde Valley. Schroeder 4 24:3
A brief history of the Havasupai. Schroeder 6 25:3

BIOGRAPHY

Samuel Washington Woodhouse, the first naturalist to visit northern Arizona. Colton 16 5:1
Peshlakai Atsidi (1850?-1939). Johnston 2 (See also Brewer) 12:2
Nampeyo, famous Hopi potter (1859?-1942). Nequatewa 9 15:3
An appreciation of the art of Nampeyo and her influence on Hopi pottery. M. R. F. Colton 7 15:3
Nampeyo, an additional note. Judd 24:2
Thomas Forsythe McMillan (Flagstaff pioneer). Fleming 25:2
Irataba, "Chief of the Mohave." Woodward 2 (See also Devereux) 25:3
NECROLOGY

Dr. Samuel Washington Woodhouse, Jr. ........................................ 15:4
Tom Pavatea .................................................................................. 15:4
Polio of Sichomovi, Hopi potter .................................................. 16:3
John Wetherill (1866-1944) and Louisa Wade Wetherill (1877-
1945). .................................................................................. 18:3
Hugo Victor Watson, 1887-1952 ....................................................... 25:2
Alexander O. Brodie, 1898-1955 ...................................................... 27:3
Gladys A. Reichard, 1893-1955 ......................................................... 28:2
Gustav Adolph Pearson, 1880-1945 ................................................... 28:4
Horace S. Haskell, 1915-1959 ......................................................... 31:4

Northern Arizona Society of Science and Art

ANNUAL REPORTS OF THE MUSEUM OF NORTHERN ARIZONA

vol.: no.

1929 at the Museum. Colton 3 ........................................................ 2:7
1930 at the Museum. Colton 9 ........................................................ 3:7
1931 at the Museum. Colton 14 ....................................................... 4:8
1932 at the Museum. Colton 17 ....................................................... 5:8
1933 at the Museum. Colton 20 ....................................................... 6:8
The Museum of Northern Arizona in 1934. Colton 22 .................. 7:8
The Museum of Northern Arizona in 1935. Colton 24 .................. 8:8
The Museum of Northern Arizona in 1941. Colton 43 .................. 14:4
The Museum of Northern Arizona in 1943. Colton 49 ................. 16:4
The Museum of Northern Arizona in 1944. Colton 51 .................. 17:4
The Museum in 1945. Colton 56 ...................................................... 18:4
The Museum in 1951. Colton 68 ...................................................... 24:4
The Museum in 1952. Colton 70 ...................................................... 25:4
The Museum in 1953. Colton 72 ...................................................... 26:4
Colton 79 ............................................................................... 29:4
The Museum of Northern Arizona and the Research Center in 1957.
Colton 82 ............................................................................... 30:4
Colton 85 ............................................................................... 31:4
HIGHLIGHTS IN THE HISTORY OF THE MUSEUM

The activities of the Museum, 1930. N.A.S.S.A. 1............................. 2:11
Art activities of the Museum of Northern Arizona (1928-1931).
N.A.S.S.A. 2............................................................................ 3:12
The Museum of Northern Arizona (history of the founding and the
first five years, 1929-1933). Colton 19.............................. 6:2
First tree ring conference (at Museum of Northern Arizona, 1934).
N.A.S.S.A. 3............................................................................ 7:2
The Museum is ten years old (1938). Colton 31..................... 10:11
The Museum of Northern Arizona and the post-war period.
Colton 50.............................................................................. 17:4
The activities of the Museum of Northern Arizona and associated
laboratories and some of its more urgent needs. Colton 64............. 22:4
History of the Museum of Northern Arizona. Colton 71............... 26:1
Geological research at the Museum (History of). McKee 9............. 26:1
Biology: the first twenty-five years (at Museum of Northern Arizona).
Phillips 3.............................................................................. 26:1
Twenty-five years of anthropology (at the Museum of Northern Ari-
zona). Bartlett 23.................................................................. 26:1
Art department of the Museum of Northern Arizona (History of).
M. R. F. Colton 9................................................................... 26:1
Paleontology at the Museum of Northern Arizona. Colbert 2........... 26:3
The Memorial Library fund. Bartlett 24.................................. 27:4
Ceramic depository of the Southwest (at Museum of Northern
Arizona). Colton 74.................................................................. 28:2
An important archaeological gift (The Tully H. Thomas Collection).
Anonymous 2........................................................................ 29:2
The library of the Museum of Northern Arizona. Bartlett 26.......... 29:3
Arizona State Land Department, Well-Cutting Laboratory (at

BOOK REVIEWS AND ANNOUNCEMENTS

A review of “Southwestern Archaeology,” by John C. McGregor.
Colton 42.............................................................................. 14:3
Archaeological studies in the Petrified Forest National Monument.
Bulletin 27. Wendorf 1.......................................................... 26:4
Check list of southwestern pottery types, Ceramic Series No. 2........ 28:1
Mohave culture items, by Leslie Spier. Bulletin 28....................... 28:2
Pottery types of the Southwest, Ceramic Series No. 3................... 28:3

Places of Interest

vol.:no.

Government Cave, a lava tunnel. Park........................................ 2:6
Grand Falls. Colton 6.............................................................. 2:12
San Francisco Peaks. Colton 8............................................... 3:3
Tuba City and the Charlie Day Spring. Colton 11...................... 3:11
Meteor Crater. Russell......................................................... 4:3
Hopi legends of the Sunset Crater region. Nequatewa 3.............. 5:4
Tuzigoot, a prehistoric pueblo of the upper Verde. Spicer 1........... 6:9
The Tsegi country. Hargrave 13........................................ 6:11
Rainbow Bridge: the largest natural bridge in the world. O'Connell 1. 8:6
The eruption of Sunset Crater as an eyewitness might have observed
it. Colton 27.............................................................. 10:4
Sunset Crater. Colton 53....................................................... 18:1
Oak Creek Canyon. McKee 5................................................... 18:2
Kanab Canyon, the trail of scientists. McKee 6............................ 18:3
Coal Mine Canyon. Brady 9................................................... 19:2
Altitude of the San Francisco Peaks, Arizona. Euler 2.................. 25:4
Stonemans Lake. Colton 78.................................................... 29:3
Beaver Head. Colton 80........................................................... 30:2
The Grandview Trail. Butchart............................................ 31:2

Miscellaneous Subjects

Abstracts of papers read at the A.A.A.S., Southwestern Division,
Social Science Section, Tucson, April 1930. American Association
for the Advancement of Science.................................................. 2:11
The Visit of the Princeton University International Summer School
of Geology and Natural Resources to Flagstaff. Colton 7.............. 3:1
Northern Arizona meteorites. Brady 1..................................... 3:2
Frederick Webb Hodge Anniversary Publication Fund. Anonymous 1... 8:4
Indian words in southwest Spanish, exclusive of proper nouns.
Harrington. ................................................................. 17:2
Pinyon resin varnish—a possible industry for the plateau areas of
Arizona and New Mexico. M. R. F. Colton 8.............................. 20:3
Abnormal rainfall in northern Arizona. Colton 84........................ 31:4
MUSEUM OF NORTHERN ARIZONA

Bulletins

3. Pueblo Milling Stones of the Flagstaff Region, by Katharine Bartlett. 1933. 32 pp., paper. $.60.
7. The Material Culture of Pueblo II in the San Francisco Mountains, Arizona, by Katharine Bartlett. 1934. 76 pp., paper. $.75.
25. Potsherds: An Introduction to the Study of Prehistoric Southwestern Ceramics and their Use in Historic Reconstruction, by Harold S. Colton. 1953. 86 pp., cloth. $3.00.
32. Typical Seed Plants of the Ponderosa Pine Zone, by Walter B. McDougall and Horace Haskell. 1959. 63 pp., paper. $1.50.
34. Excavations at Three Sites in the Verde Valley, Arizona, by David A. Breternitz. 1960. 29 pp., paper. $2.50.
37. Seed Plants of Sunset Crater and Wupatki National Monuments, by W. B. McDougall. 1962. 70 pp., paper. $1.80.

**Ceramic Series**

A looseleaf series describing Southwestern pottery types. Edited by Harold S. Colton

1. Pottery Types of the Arizona Strip and Adjacent Areas in Utah and Nevada, by Harold S. Colton. 1952. 98 pp. $2.00.
3. Pottery Types of the Southwest
   b. Wares 5A, 10A, 10B, 12A (San Juan Red, Mesa Verde Gray, Mesa Verde White, San Juan White), by Leland J. Abel. 1955. 66 pp. $1.75.
   c. Wares 5A, 5B, 6A, 6B, 7A, 7B, 7C (San Juan Red, Tsegi Orange, Homolovi Orange, Winslow Orange, Awatovi Yellow, Jeddito Yellow, Sichomovi Red), by Harold S. Colton. 1956. 146 pp. $2.00.
   d. Wares 14, 15, 16, 17, 18 Revised Descriptions: Alameda Brown Ware (H. S. Colton), Tizon Brown Ware (Robert Euler & Henry Dobyns), Lower Colorado Buff Ware (A. H. Schroeder), Prescott Gray Ware (H. S. Colton), San Francisco Mt. Gray Ware (H. S. Colton). 1958. 105 pp., paper. $1.75.

Reprint Series

Selected articles from Museum Notes and Plateau. Paper bound.

1. Plants of Northern Arizona. 52 pp. $.25.
2. Hopi History. 57 pp. $1.00.
5. Hopi Agriculture. 26 pp. $.75.

Technical Series

Papers on field and laboratory techniques.

2. Precipitation about the San Francisco Peaks, Arizona, by Harold Sellers Colton. 1958. 18 pp., paper. $.75.
3. The Location of Human Skeletons Excavated from Sites in the Southwestern United States and Northern Mexico, by Christy G. Turner II. 1960. 25 pp., paper. $1.00.
5. A Summary of the Archaeological Explorations of Dr. Byron Cummings in the Anasazi Culture Area, by Christy G. Turner II. 8 pp. (In press).