

TITLE: Ronald Ives papers

DATE RANGE: 1928-181

CALL NUMBER: MS 0983

PHYSICAL DESCRIPTION: 26.5 linear ft. (21 cartons, 5 boxes, 1 map case)

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BIOGRAPHICAL NOTE: Ronald L. Ives was born in Cleveland, Ohio on October 12, 1909. His grandfather, Fredric Eugene Ives (1856-1937), and father, Herbert Eugene Ives (1882-1953), were noted scientists and inventors. Ronald Ives had two siblings, Kenneth and Barbara Ives. He attended schools in New Jersey and New York. From 1935-1937 he studied geology and geomorphology at the University of Colorado in Boulder, where he received Bachelor's and Master's degrees.

From 1937 to 1942, Ives worked in electronics and geology in Colorado, Texas, and California. He served in the United States Army from 1942-1946, where he took special courses in chemical and bacterial warfare, remote control gunnery and meteorology, electronics. He had a long time interest in military experiments, and he had security clearances of "secret" and "top secret" from 1942 to 1968.

Following World War II, Ives studied and taught at the University of Indiana in Bloomington. He received Master's and Doctoral degrees in geography there. His dissertation was entitled Chinook Winds in the Colorado High Plains Region.

Dr. Ives was a civilian instructor of electronics and remote control gunnery at Lowry Air Force Base in Colorado in 1950-1951. From 1951 through 1968, he worked as a researcher and engineer for various contractors to the federal government, including Cornell Aeronautical Laboratory; Tronicon, Inc.; John C. Bechman Co.; Bechman and Whitley, Inc.; Stanford Aerosol Laboratory; and Metronics Associates Inc.

Ives was an Assistant Professor of Geography at Northern Arizona University in Flagstaff from 1968 to 1975. After his retirement, he pursued various personal and professional interests.

Beginning in the early 1930s, Ives contributed articles to scientific and scholarly journals. Two of his favorite topics were the history of the Spanish exploration of the American southwest, and the geology of the Pinacate, a volcanic region along the Old Yuma Trail in northwestern Sonora, Mexico.

Ronald L. Ives, a bachelor throughout his life, died of natural causes on February 26, 1982. His ashes were scattered in the Pinacate region.

SCOPE AND CONTENT NOTE: The bulk of the collection consists of published and unpublished manuscripts by Ronald Ives relating to geological, meteorological, and historical research in arid lands; and Spanish exploration in northern Mexico, Baja California, and Arizona. Other topics include electronics, minerals and mineral resources, American folklore, hiking, photography, and the Ives family.

Series I: Technical Publications, 1932-1980 consists of 646 typescripts and published manuscripts by Ronald Ives. All copies of each manuscript are filed together. Major topics in this series include: the geology of the western United States; minerals and mineral resources; explorers and missions in Mexico, California, and Arizona; and electronics. The articles were published in several periodicals, including Trail and Timberline, Radio-Electronics, Rocks and Minerals, Journal of Geography, Arizona and the West, and Journal of Arizona History.

A complete bibliography of Dr. Ives technical publications is found in the appendix.

Series II: Miscellaneous Publications, 1932-1980 consists of newspaper clippings, photocopies of articles, proof pages of manuscripts, speeches, typescripts, published, and unpublished manuscripts written or collected by Ronald Ives. There are 252 folder titles in this series. All copies of each title are filed together.

In addition to the topics listed in series one, these articles reflect Dr. Ives' interest in science, hiking, and photography. Many of the items were written by Ives when he was employed by Science Service in Washington, D.C., from 1937-1938. The articles were published in such periodicals as Popular Mechanics, Boulder Star, and Science Newsletter. Biographical and autobiographical information on Ives' grandfather, Frederic E. Ives; and biographical data on his father, Herbert E. Ives, are included in this series.

A complete bibliography of Dr. Ives' miscellaneous publications is found in the appendix.

Series III: Correspondence, 1935-1981 consists of incoming and outgoing letters. Most of the letters were written to Dr. Ives between 1951 and 1981. The correspondence is arranged alphabetically by the last name of the writer within a chronological framework. The bulk of this series relates to Ives' research on the history of the American southwest. It includes correspondence with the editors of several professional journals, other contemporary western writers, and Ives' family and friends.

Ives published widely in western periodicals. Major correspondents among editors include Harwood P. Hinton, editor of Arizona and the West; Andrew Wallace, Ken Hufford, and C.L. Sonnichsen of Arizoniana (later called Journal of Arizona History); Anita Alvarez de Williams and Walter Meade of Calafia; Glen Dawson, publisher of the Baja California Travel Series and owner of Dawson's Book Shop in Los Angeles; Wilma B. Fairchild of Geographical Review; and Robert L. Kraus of The Jesuit Bulletin.

In addition to preparing cartography for his own geological and historical manuscripts, Ives drew maps to accompany the words of other historians of the southwest borderlands and Mexico. Correspondence with Father John F. Bannon, S.J., concern Spanish borderlands studies, Bannon's progress on a biography of Herbert E. Bolton, and Bannon's career at St. Louis University. Ives contributed twelve maps to Bannon's monograph The Spanish Borderlands Frontier (1970).

Letters from Fr. Ernest J. Burrus, S.J. related to Ives' maps for Burrus' books, including Wenceslaus Linck's Report and Letters, 1762-1788 (1967); Wenceslaus Linck's Diary of His

1766 Expedition (1966); and Kino and Manje (1971). The correspondence contains descriptions of Burrus' research on Spanish missionaries and explorers in the southwest and Mexico and geographical queries to Ives.

Correspondence with W. Michael Mathes, Department of History, University of San Francisco, relates to Ives' map of New Spain drawn for Mathes' book, The Conquistador in California (1973); the possible recovery of the San Barja mission bells; and Mathes' other research on mission in Baja California.

Ronald Ives researched the missions, missionaries, and explorers of the southwest. Correspondence with Jane and Byron Ivancovich includes discussions of Ives' publications; Father Ernest J. Burrus; the organization of the Southwestern Mission Research Center, in Tucson, Arizona, in August 1964; Jane Ivancovich's work on the Kino Memorial Statue Committee, 1961-1965; the unveiling ceremony of the Kino statue in Washington, D.C., February 16, 1965; and the Ivanvovichs' travels in Asia, Mexico, and Europe.

Correspondence from Father Walter J. Miller, S.J. contains references Ives' research on Father Eusebio Kino, S.J.; Miller's work as an astronomer at Fordham University, New York; and exchanges of each other's publications.

Letters from Father Bonaventure Nite, O.F.M. concerns his tenure at the Saint John's Indian Mission, Laveen, Arizona; mutual interest in southwest missionaries and missions; and comments on each other's publications.

Letter from Father Nicholas Perschl, O.F.M. relates to his tenure at Mission San Xavier, Tucson, Arizona; books on mission in the southwest, and Perschl's dedication speech at the unveiling of a statue to Francisco Tomas Garces in Yuma, Arizona on October 21, 1928.

Correspondence from Father Charles Polzer, S.J. includes research questions on Eusebio Kino and Spanish missions in the southwest, description of Polzer's research and travel in Europe and Mexico; his doctoral dissertation; events at the Kino House, a Society of Jesus residence in Tucson, Arizona; and Polzer's role as Director of the Southwestern Mission Research Center at the University of Arizona. Letters from Carmen Prezelski, Polzer's secretary, are also filed in this portion of the collection.

The collection includes additional correspondence on the missions and missionaries of the southwest from the following individuals: Pedro Arrupe, S.J.; Hugh J. Bihler, S.J.; Boniface Bolognani; Celestine Chinn, O.F.M.; Peter M. Dunne, S.J.; Bernard L. Fontana; Francis J. Fox, S.J.; Lambert Fremdling, O.F.M.; Maynard Greiger, O.F.M.; Martin F. McCarthy, S.J.; Kieran McCarty, O.F.M.; Edwin J. McDermott, S.J.; Manuel Perez Alonso, S.J.; Manuel Perez-Gily Gonzalez, Bishop of Mexicali; Arthur D. Spearman, S.J.; Paul Ezell; and Paul Roca. Some of the letters are written in Spanish.

Ronald Ives studied the geography and geology of the Pinacate, Sonora, Mexico. He made many field trips to the area and received letters from students and friends. Correspondence from Julian Hayden, a vocational archaeologist and friend of Ives, relates to the geology, archaeology and mapping of the Pinacate; mutual friends, guides and other scientists' investigation of the region; and Hayden's excavations at Snaketown on the Salt River in 1965.

Letters from Jon Czaplicki relate to Czaplicki's studies at the University of Arizona; military service in Leavenworth, Kansas; and archeology excavations in Arizona and Colorado.

Correspondence from the staff of the United States National Park Service at Organ Pipe National Monument, Lukeville, Arizona concerns the Pinacate region; the possible excavation and restoration of the San Marcello Mission in Sonoyta, Sonora; and Bill Hoy's compilation of a history of the Sonoyta River Valley and the Ajo area.

Series three also includes personal correspondence with Ives' family. Letters from Ives' mother, Mabel, include discussions of his publications of the Pinacate and her life in a nursing home in St. Petersburg, Florida. There is also correspondence from the St. Petersburg law firm of Gay and Gordon to Ronald Ives and Ken Ives, Ronald's brother, regarding the trust estate of their mother.

Correspondence from Ken Ives, and his wife Rene includes discussion of Mabel Ives; regulation of the Mabel Ives estate trust fund; and personal developments in their professional careers. Letters from his sister, Barbara, and her husband Charles Beyer, describe their mother's health; the estate trust fund; and travels in Europe.

Correspondence from an aunt, Ethel Halladay, includes descriptions of Mabel Ives' health; daily life in Cambridge, Massachusetts; and other family news. Letters from nieces, Marie-France Holt and Jacqueline Webster, include general discussions of family affairs.

Ronald Ives had an enduring friendship with George Zimpfer, a parish priest in Williamsville, New York. Their correspondence concerns Ives' travels in southwestern United States and Mexico; Ives' publications on explorers, missionaries, and missions in the southwest; Zipfer's parish duties; changes in the Roman Catholic Church's liturgy and practice; conflicts of the priesthood; and the disruption of American society by student protesters, drug abuse, culture and occultism in the late 1960's and early 1970's.

Correspondence from Richard Hazelett refers to a proposal to establish an Ives Institute for Space-Time Studies which would promote research in physics. The letters include photocopies of letters to Herbert and Mabel Ives from Elmore E. Butterfield, a friend of Herbert Ives.

Correspondence from the Bell Telephone Laboratories in New York City and Murray Hill, New Jersey relates to Herbert E. Ives' participation in the early development of intercity television transmission in April 1927.

Outgoing correspondence from Ronald Ives is arranged chronologically. Topics included field reports on diatom and pollen samples collected for the Academy of Natural Sciences, Philadelphia, Pennsylvania, and the United States Geological Survey; transfer requests to the United States Army; Ives' efforts to secure bells for the Sonoyta Church in Sonoyta, Mexico; donations of photographs and articles to the Arizona Historical Society; letters of recommendation for students and friends; requests for reprints of Ives' articles; and research queries to the Federal Bureau of Investigation and United States Customs regarding the location of bells allegedly belonging to the San Luis Gonzaga Mission.

Series IV: Income Tax Returns, 1972-1980 consists of annual reports filed with the federal and state government. They are arranged in chronological order.

Series V: Mabel Ives Estate Financial Records, 1970-1981 consists of statements regarding funds held by the estate of Mabel Ives, at the First National Bank in St. Petersburg, Florida. Statements for several years are missing.

Series VI: Legal Documents, 1951-1956 consists of a copy of a deposition given by Ives on a radio tower in Williamsville, New York; a copy of his Last Will and Testament, dated 1953; and a Mexican tourist visa, 1956.

Series VII: Diplomas and Certificates, 1928-1980 consists of four diplomas and three certificates issued to Ronald Ives.

Series VIII: Maps, Diagrams, and Illustrations, ca. 1950-1980 consists of approximately 319 positive sheet and 800 negative sheets of Kodalith paper. The maps, diagrams and illustrations were used in Ives' technical and miscellaneous publications. These items have been divided into six subseries: Explorers, mission, and missionaries in the southwest; Geology and geography; Inventions and electronic devices; Weather charts; Lunar computer; Printed materials.

CONTAINER LIST:

Box	Folder	Description	Dates
		Series I: Technical Publications	1923-1980
1	1-59	Technical publications	1923-1941
2	60-119	Technical publications	1941-1946
3	120-169	Technical publications	1946-1948
4	170-214	Technical publications	1948-1950
5	215-249	Technical publications	1951-1953
6	250-279	Technical publications	1952-1956
7	280-314	Technical publications	1956-1958
8	315-349	Technical publications	1958-1959
9	350-389	Technical publications	1959-1961
10	390-429	Technical publications	1960-1963
11	430-474	Technical publications	1963-1965
12	475-509	Technical publications	1965-1966
13	510-549	Technical publications	1967-1970
14	550-584	Technical publications	1968-1980
15	585-602	Technical publications	1933-1980
16	603-639	Technical publications	1950-1966
17	640-646	Technical publications	1932-1980
		Series II: Miscellaneous Publications	1928-1980
18	1-75	Miscellaneous publications	1932-1937
19	76-139	Miscellaneous publications	1937-1938
20	140-209	Miscellaneous publications	1938-1963
21	210-253	Miscellaneous publications	1928-1980
		Series III: Correspondence	1935-1981
22	1	A-Am	1938-1977
	2	An-At	1946-1980
	3	<u>Arizona and the West</u>	1973-1977
	4	Arizona Historical Society	1957-1969
	5	Arizona Historical Society	1970-1975
	6	Arizona Historical Society	1976-1980
	7	Ba-Bd	1962-1978
	8	Be-Bo	1949-1974
	9	Br-Bu	1956-1981
	10	Bannon, John Francis	1967-1979
	11	Bell Telephone Laboratories	1953-1967
	12	Beyer, Barbara	1970?-1978

	13	Bihler, Hugh J.	1954-1969
	14	Burrus, Ernest J.	1954-1977
	15	Ca-Ch	1950-1980
	16	Co-Cu	1963-1978
	17	<u>Calafia</u>	1973-1977
	18	Casey and Coyle	1971-1978
	19	Chinn, Celestine	1972-1977?
	20	Czaplicki, Jon	1967
	21	Czaplicki, Jon	1970-1971
	22	Czaplicki, Jon	1972-1973
	23	Czaplicki, Jon	1974-1975
	24	Czaplicki, Jon	1955-1974
	25	Dawson's Book Shop	1971-1976
	26	Dawson's Book Shop	1977-1980
	27	Dunne, Peter M.	1955-1956
	28	E	1966-1980
	29	Ezell, Paul	1956-1974
	30	F	1963-1977
	31	Fontana, Bernard	1962-1980
	32	Fox, Francis J.	1968-1972
	33	Fremdling, Lambert	ca. 1970-1972
23	34	G	1964-1980
	35	Gay and Gordon	1970
	36	Gay and Gordon	1974-1975
	37	Gay and Gordon	1976
	38	Geiger, Maynard	1956-1977
	39	<u>The Geographical Review</u>	1968-1972
	40	Ha-Hg	1950-1974
	41	Hi-Hu	1954-1978
	42	Halladay, Ethel	1970?-1974
	43	Holt, Maria-France	1971-1978?
	44	Hayden, Julian	1961-1962
	45	Hayden, Julian	1963-1964
	46	Hayden, Julian	1965-1966
	47	Hayden, Julian	1967-1968
	48	Hayden, Julian	1969-1980
	49	Hazelett, Richard	1978-1979
	50	I	1949-1975
	51	Ivancovich, Byron	1959-1977
	52	Ivancovich, Jane	1961-1963
	53	Ivancovich, Jane	1964-1967
	54	Ivancovich, Jane	1968-1975
	55	Ives, Ken and Rene	1970-1980
	56	Ives, Mabel	196?-1973?
	57	J	ca. 1930-1981
	58	K	1951-1975

	59	L	1954-1978, undated
	60	Mac	1935-1977, undated
	61	McCarty, Kieran	ca. 1960-1977
	62	McDermott, Edwin J.	1969-1980?
	63	Ma-Mi	1946-1980
	64	Mo-Mu	1954-1977, undated
	65	Mazon, Marina	1957-1979
	66	Mathes, W. Michael	1971-1977
	67	Mexico. Secretaria de Programacion y Presupuesto	1977-1978
	68	Mexico. Secretaria de la Defensa Nacional	1977
	69	Mexico. Secretaria de Marina	1977
	70	Mexico. Secretaria de Turismo	1972-1977
	71	Miller, Walter J.	1954-1974
24	72	N	1952-1980
	73	Nelson, Becky Cooper	1972-1976?
	74	Nite, Bonaventure	1959-1960
	75	Nite, Bonaventure	1961-1963
	76	Northern Arizona University, A-L	1968-1976
	77	Northern Arizona University, P-S	1968-1975
	78	Northern Arizona University, Search and Rescue Club	1972-1977
	79	O	1965-1974
	80	P	1946-1977
	81	Perez Alonso, Manuel	1972
	82	Perez-Gily Gonzalez, Manuel	1970-1971
	83	Perschl, Nicholas	1957-1968
	84	Polzer, Charles	ca. 1960-1980
	85	R	1963, 1977, undated
	86	Roca, Paul	1968-1974
	87	Sa-Sh	1965-1979
	88	Sm-So	1946-1978
	89	St-Su	1965-1981
	90	Smithsonian Institution	1950-1976
	91	Sumner, Ruth	1972-1980
	92	T	1951-1974
	93	U	1936-1981
	94	United States, A-C	1956-1977
	95	United States, F-M	1951-1978, undated
	96	United States, N-V	1946-1968
	97	United States Army	1943
	98	United States Army	1944-1945
	99	United States Army	1946

	100	United States Army	1947-1966
	101	United States. Geological Survey	1938-1974
	102	United States. National Park Service	1957-1981
	103	University of Arizona	1964-1980
25	104	V	1952-1981
	105	W	1957-1976
	106	Webster, Jacqueline	1970-1981
	107	Y	1962-1980
	108	Z	1978
	109	Zimpfer, George	1954-1958
	110	Zimpfer, George	1962-1967
	111	Zimpfer, George	1968
	112	Zimpfer, George	1970
	113	Zimpfer, George	January-April 1971
	114	Zimpfer, George	June-November 1971
	115	Zimpfer, George	1972
	116	Zimpfer, George	1973
	117	Zimpfer, George	1974-1975
	118	Unidentified correspondence	1962-1978?
	119	Outgoing correspondence	1938-1939
	120	Outgoing correspondence	1950
	121	Outgoing correspondence	1951
	122	Outgoing correspondence	1952-1957
	123	Outgoing correspondence	1961-1969
	124	Outgoing correspondence	1970-1971
	125	Outgoing correspondence	1972-1973
	126	Outgoing correspondence	1974-1975
	127	Outgoing correspondence	1976
	128	Outgoing correspondence	1977
	129	Outgoing correspondence	1978
	130	Outgoing correspondence	1980
		Series IV: Income Tax Returns	1972-1980
26	1	Income tax returns	1972-1973
	2	Income tax returns	1974-1975
	3	Income tax returns	1977-1978
	4	Income tax returns	1979-1980
		Series V: Mabel Ives Estate Financial Records	1970-1981
	1	Financial records	1970
	2	Financial records	1971
	3	Financial records	1972
	4	Financial records	1973
	5	Financial records	1974-1976
	6	Financial records	1977-1978
	7	Financial records	1979-1980

8	Financial records	1981
	Series VI: Legal Documents	1951-1956
1	Deposition	1951
2	Last Will and Testament	1953
3	Mexican Tourist Visa	1956
	Series VII: Diplomas and Certificates (oversize)	1928-1980
1	Montclair High School, New Jersey	June 14, 1928
2	International Correspondence School, Scranton	October 2, 1930
3	University of Colorado, Boulder	June 10, 1935
4	University of Colorado, Boulder	June 14, 1937
5	Explorers Club, new York	December 12, 1933
6	Legion of Portola, San Diego	July 16, 1969
7	Arizona. Secretary of State	February 22, 1980
	Series VIII: Maps, Diagrams and illustrations (oversize - in map case located in lower level stacks near cage)	ca. 1950-1980
Subseries 1	Explorers, missionaries, and missions in the southwest (ca. 145 positive sheets; ca. 55 negative sheets)	
Subseries 2	Geology and geography (ca. 144 positive sheets; ca. 315 negative sheets)	
Subseries 3	Inventions and electronic devices (ca. 21 positive sheets; ca. 145 negative sheets)	
Subseries 4	Weather charts (ca. 27 positive sheets; ca. 250 negative sheets)	
Subseries 5	Lunar computer (ca. 33 positive sheets; ca. 33 negative sheets)	
Subseries 6	Printed materials (ca. 8 positive sheets; ca. 30 negative sheets)	

Appendix: Series I Publications

This list does not include popular articles, newspaper stories or features, or classified reports not yet released by title.

1. Determination of the Relative Volumes of two Combining Streams from Their Temperatures, Science, 76, 1932, 323.
2. A New Peak in the Hellhole, Trail and Timberline, No. 168, 1932, 145-148.
3. Excursionando en los Pinacates, La Montaña (Mexico, D.F.), April 1934, 11, 12, et seq.
4. A Traverse of the Garfield Cirque, Trail and Timberline, No. 191, 1934, 123-125.
5. Surveying the La Plata Mining Region, Trail and Timberline, No. 192, 1934, 136-142.
6. Recent Volcanism in Northwestern Mexico, Pan-American Geologist, 63, 1934, 335-338.
7. Fluorine Minerals of Colorado, Rocks and Minerals, 10, 1935, 83-85.
8. The Boulder, Colorado, Tungsten Area, Rocks and Minerals, 10, 1935, 113-115.
9. Some Past and Present Glaciers of Colorado, Rocks and Minerals, 10, 1935, 129-136.
10. Geologic Verification of a Papago Legend, Masterkey (Los Angeles), 9, 1935, 160-161

11. Infra-Red Photography for the Amateur, Camera, 51, 1935, 316-320.
12. A Simple Method for Measuring Areas in Microphotographs, Science, 82, 1935, No. 2132.
13. The Bolas de Plata Discovery of 1736, Rocks and Minerals, 10, 1935, 183-184.
14. Are Our Glaciers Disappearing? Trail and Timberline, No. 207, 1936, 3-5.
15. Melchior Diaz: The Forgotten Explorer, Hispanic-American Historical Review, 16, 1936, 86-90.
16. A Trinchera near Quitovaquita, Sonora, American Anthropologist, 38, 1936, 86-89.
17. Some Papago Migrations in the Sonoyta Valley, Masterkey, 10, 1936, 161-167.
18. The Radium Mining Area of Southwestern Colorado, Rocks and Minerals, 11, 1936, 223-234.
19. Desert Floods in the Sonoyta Valley, American Journal of Science, 32, 1936, 349-360.
20. Mukuntuweap Canyon, Trail and Timberline, No. 221, 1937, 34-36.
21. A New Route to the Bross Group, Trail and Timberline, No. 223, 1937, 57.
22. The Mathematics of Front Lenses, American Photography, August 1937.
23. The Use of Brockman's Formulae with Large Negatives, American Photography, September 1937.
24. Standardizing Enlarger Illumination, American Photography, October 1937.
25. Mountaineering in Colorado, Colorado Yearbook, 1936-37, 1938, 66-7.
26. Chinook Winds in Northern Colorado, American Journal of Science, 35, 1938, 138-142.
27. How Old is the Earth? Rocks and Minerals, 13, 1938, 69-71.
28. Overprint Photodiagrams, Camera, 56, 1938, 388-390.
29. Glacial Geology of the Monarch Valley, Grand County, Colorado, Geological Society of America Bulletin, 49, 1938, 1045-1066.
30. Visual Image Produced by Photoflash Bulb, Nature, (London) September 17, 1938.
31. Equipment and Methods for High Altitude Field Photography, American Annual of Photography for 1939, 1938, 252-255.
32. Weather Phenomena of the Colorado Rockies, Journal of the Franklin Institute, 226, 1938, 691-755.
- 33. Foothills Cloud Veils, Bulletin of the American Meteorological Society, 29, 1939, 43-44.
34. Valley-Head Cloud Windows, Monthly Weather Review, January 1939.
35. Sedelmayr's Relacion of 1746, Bureau of American Ethnology Bulletin, 123, 1939, 99-117.
36. Anent Unipeds, American Anthropologist, 41, 1939, 336-337.
37. Rough-Country Cloud Observations Methods, Bulletin of the American Meteorological Society, 20, 1939, 186-190.
- 38. Glacier Measurements, Report Int. Comm. on Snow, June 1939.8.**
39. Shades and Screens for Isometric Block Diagrams, Economic Geology, 34, 1939, 419-436.
40. Measurements in Block Diagrams, Economic Geology, 34, 1939, 561- 572.
41. Fabricated Diagrams, Journal of Geology, 47, 1939, 517-545.
42. River Fogs of the Colorado Valley, Bulletin of the American Meteorological Society, 20, 1939, 415-417.
43. A Chinook Crest Cloud Over the Colorado Front Range, Bulletin of the American Meteorological Society, 20, 1939, 395-396.
44. Report of the Bishop of Durango on Conditions in Northwestern Mexico in 1745, Hispanic-American Historical Review, 19, 1939, 314-317.
45. Infra-red Photography as an Aid in Ecological Surveys, Ecology, 20, 1939, 433-439.
46. The Simple Reseau Pattern, Psychological Review, 46, 1939, 576-590.
47. Mountain Glaciers of Long Ago, Trail and Timberline, No. 258, 1940, 87-92.
48. The Origin of Some Polished Stone Artifacts, American Antiquity, 6, 1940, 70-73.

49. An Astronomical Hypothesis to Explain Permian Glaciation, Journal of the Franklin Institute, 230, 1940, 45-74.
50. Additional Aids in Illustration, Economic Geology, 35, 1940, 668-669.
51. Rock Glaciers in the Colorado Front Range, Geological Society of America Bulletin, 51, 1940, 1271-1294.
52. Sanidine or Labradorite? Rocks and Minerals, 15, 1940, 330-331.
53. The Sequence Illusion, Journal of the Franklin Institute, 230, 1940, 755-763.
54. The Green Ridge Pegmatite, Grand County, Colorado, Rocks and Minerals, 16, 1941, 12-17.
55. Colorado Front Range Crest Clouds and Related Phenomena, Geographical Review, 31, 1941, 23-45.
56. Detection of Supercooled Fog Droplets, Journal of the Aeronautical Sciences, 9, 1941, 120-122.
57. Photographing Transparent, Translucent, and Multi-colored Artifacts, American Antiquity, 6, 1941, 262-265.
58. Behavior of Nonradiating Particles in the Vicinity of a Radiating Body, Popular Astronomy, 49, 1941, 1-9.
59. Rapid Identification of the Montane-Subalpine Zone Boundary, Bulletin of the Torrey Botanical Club, 68, 1941, 195-197.
60. Vegetative Indicators of Solidification, Journal Geomorphology, 4, 1941, 128-132.
61. The Mitre Peak Area, Trans-Pecos Texas, American Journal of Science, 239, 1941, 339-353.
62. Designations of Locations on Maps and Photographs, Science, 93, 1941, 523.
63. Report of Progress, Year Book of the American Philosophical Society, 1941, 195-197.
64. Forest Replacement Rates in the Colorado Headwaters Area, Bulletin of the Torrey Botanical Club, 68, 1941, 407-408.
65. The Origin of the Sonoyta Townsite, Sonora, Mexico, American Antiquity, 7, 1941 20-28.
66. Intercommunication Circuits for Police Radio Systems, Radio, No. 261, July 1941, 34 et seq.
67. The Monster of Quitovac, Masterkey, 15, 195-199, 1941.
68. A Corollary to the Ring Hypothesis, Journal of the Franklin Institute, 232, 1941, 357-363.
69. Tundra Ponds, Journal of Geomorphology, 4, 1941, 285-296.
70. Folklore of Eastern Middle Park, Colorado, Journal of American Folklore, 54, 1941, 24-44.
71. The Copper Boulderwhip, Rocks and Minerals, 16, 1941, 455-458.
72. Atypical Subalpine Environments, Ecology, 23, 1942, 8996.
73. The Discovery of Pinacate Volcano, Scientific Monthly, 54, 1942, 230-238.
74. The Purple Ring Illusion, Journal of the Optical Society of America, 32, 1942, 119-120.
75. Thrust Faulting in the Crater Lake Area, Colorado, Pan-American Geologist, Vol. 76, 1941, 259-274.
76. A Cultural Hiatus in the Rocky Mountain Region, Southwestern Lore, Vol. 7, 1941, 42-46.
77. Early Human Occupation of the Colorado Headwaters Area, Geographical Review, 32, 1942, 448-462.
78. Population Changes in a Mountain County, Economic Geography, 18, 1942, 298-308.
79. The Beaver-Meadow Complex, Journal of Geomorphology, 5, 1942, 191-203.
80. Production of Broken-Line Patterns with Standard Ben Day, Economic Geology, 39, 1944, 152-157.
81. Speed Control for Small Alternating Current Motors, American Horologist, Vol. 11, No. 10, 1943, 48-51.
82. The Stansbury Stage of Lake Bonneville (Abstract), Bulletin of the Colorado-Wyoming Academy of Sciences, 1944.
83. On Reporting Plateau-Region Pressures in Ratios: A Suggestion, Bulletin of the

- American Meteorological Society, 25, 1944, 332-333.
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