

**A CHECKLIST OF
PUBLISHED REFERENCES TO
BARRINGER
METEORITE CRATER, ARIZONA
1891-1970**

by
Diana J. Briley
and
Carleton B. Moore

**CENTER FOR
METEORITE STUDIES**

ARIZONA STATE UNIVERSITY

T E M P E • A R I Z O N A



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TABLE OF CONTENTS

INTRODUCTION **iii**

REFERENCES ARRANGED
ALPHABETICALLY BY FIRST AUTHOR . 1

ANONYMOUS AND MISCELLANEOUS
NON-TECHNICAL ARTICLES,
ARRANGED CHRONOLOGICALLY 47

CHRONOLOGICAL INDEX. 57

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Widespread interest in the nature of Barringer Meteorite Crater near Winslow, Arizona, has led us to compile this checklist of articles on this impact feature. The references range from detailed technical monographs and journal articles to popular magazine and newspaper reports and unpublished documents. It is impressive that we have been able to collect information on over 500 documents led by the first article, "A Meteoric Crater," by G.K. Gilbert in 1891. During this time many names have been used for the Crater, including:

Meteor Crater	Coon Mountain
Barringer Crater	Meteor Butte
Barringer Meteorite Crater	Crater Mound
Coon Butte	Meteor Mountain
Crater Mountain	Crater
Meteor Mountain	Canyon Diablo
	Crater

The checklist does not include references to articles related to properties of the Cañon Diablo meteorite alone in which its relationship to the Crater of cratering event is not given.

This study would not have been complete without the generous aid of Brandon Barringer, who brought to out attention many references in his personal and the Barringer Crater Company's collections. Initial work on the checklist was done by Marilyn Karr, who deserves our thanks for her extensive effort.

Copies of most of the references listed are in the collection of the Arizona State University Center for Meteorite Studies.

The checklist is organized according to first author. Anonymous articles are placed at the end of the checklist. Some non-technical articles and unpublished documents are placed there as well. The checklist is indexed chronologically to aid in a search for particular articles and to give some idea of the history of scientific interest in Barringer Meteorite Crater.

REFERENCES ARRANGED ALPHABETICALLY
BY FIRST AUTHOR

- Albritton, C.C., Jr. and J.D. Boon, 1937. "Meteorite Craters and Structures," Proc. Geol. Soc. Am. 49, 304-305.
- Alexander, E.C., Jr. and Manuel, O.K., 1958. "Isotopic anomalies of krypton and xenon in Canyon Diablo graphite," Earth and Plan. Sci. Letters 2, 220.
- Alford, A., 1932. "The Mystery of Meteor Crater," Touring Topics 23, 29.
- Almor, F., 1962. "Meteoros y Meteoritos," (Meteoros and Meteorites), Aster (Barcelona) 14, No. 123, 94-97.
- American Astronomers Report, 1943. "Meteor Crater Meteorite," Sky and Telescope 2, No. 5, 6.
- American Journal of Science, Editor: Edward S. Dana, 1911. Section on Scientific Intelligence--Geology and Mineralogy, Vol. XXXI, No. 184, 335-336.
- Ayer, Nathan John, Jr., 1966. "A Possible Relationship Between Color Loss in Hyacinth Zircons and Meteoritic Impact." Thesis for M.S. in Geology at San Diego State College, June, 1965. Abstract: Geol. Soc. Am. Spec. Paper 87, P. 193, 1966.
- Baldwin, R.B., 1949. The Face of the Moon, Chapters 4 and 5. University of Chicago Press, 239 pages.
- Baldwin, R.B., 1963. The Measure of the Moon, Chapters 2-6, 14, Appendix 2. University of Chicago Press, 488 pages.
- Barnes, W.C., 1910. "The Cañon Diablo Meteor," The Pacific Monthly, April 1910, 347-356.

- Barnes, W.C., 1934. "The 'Discovery' of Meteor Crater," Plateau (Museum of Northern Arizona Museum Notes) 7, 5-8.
- Barringer, B., 1964. "Daniel Moreau Barringer (1860-1929) and His Crater (the Beginning of the Crater Branch of Meteoritics)," Meteoritics 2, No. 3, 183-199.
- Barringer, B., 1967. "Historical Notes on the Odessa Meteorite Crater," Meteoritics 3, 161-168.
- Barringer, D.M., 1905. "Coon Mountain and Its Crater," Proc. Acad. Nat. Sci. Philadelphia 57, 861-886.
- Barringer, D.M., 1905. Arizona Crater: The Case for Impact. (Adapted from "Coon Mountain and Its Crater," Proc. of the Acad. Nat. Sci. of Philadelphia, Dec., 1905.) Published in 1968 by McGraw-Hill Book Co., N.Y., 11 pp. Also published by Princeton, 1968, as a paraphrase of his arguments for school debates.
- Barringer, D.M. and Tilghman, B.C., 1906. "The Geology of Coon Butte, Arizona," Abstract: Science 24, 370-371. Also, Am. Assoc. Adv. Sci. Proc. v. 56-57, P. 271. (Presented at AAAS Special Meeting, Ithaca, N.Y., June 29, 1906.)
- Barringer, D.M., 1909. "Meteor Crater (formerly called Coon Mountain or Coon Butte) in Northern Central Arizona," Published privately, 24 pp., 18 pls. (Delivered before the Nat'l. Acad. of Sciences, Nov. 16, 1909.)
- Barringer, D.M., 1914. "Further Notes on Meteor Crater, Arizona," Proc. Acad. Nat. Sci. Phila. 66, 556-565. Also, Am. Jour. Sci. 39, 482, 1915.

- Barringer, D.M., 1916. "A Possible Partial Explanation of the Visibility and Brilliancy of Comets" (with an addendum by Elihu Thomson), Proc. Acad. Nat. Sci. Phila. 80, 472-478.
- Barringer, D.M., 1924. "Volcanoes--or Cosmic Shell-holes?" Sci. American 131, No. 10-11, 62-63.
- Barringer, D.M., 1924. "Further Notes on Meteor Crater in Northern Central Arizona (No. 2)," Proc. Acad. Nat. Sci. Phila. 76, 275-278.
- Barringer, D.M., 1926. "Exploration at Meteor Crater," Eng. and Mining Journal-Press 121, No. 2, p. 59; No. 11, pp. 450-451; and No.19, p. 771.
- Barringer, D.M., 1964. "The Meteorite Search." Reprinted from Natural History Magazine 73, No. 5, p. 56. Based on a paper by him given to the N.J. Geol. Soc. and papers by him and N.S. Gentieu in Foote Prints.
- Barringer, D.M., Jr., 1927. "The Most Fascinating Spot on Earth, I, II, and III (Meteor Crater, Arizona)," Sci. Am. 137, I:52-54; II:144-146; and III:244-246.
- Barringer, D.M., Jr., 1928. "A New Meteor Crater," Proc. Acad. Nat. Sci. Phila. 80, 307-311.
- Barringer, D.M., Jr., 1931. "The Barringer Meteorite," Science 73, 66-67.
- Barringer, D.M., Jr., 1938. "Meteor Craters," Frontiers 2, 80-82.
- Barringer, D.M., Jr., 1958. "From What Direction Did the Meteorite Come?" Foote Prints 30, No. 2, 23-28.

- Barringer, R.W., 1963. "World's Meteorite Craters (Astroblemes)," Meteoritics 2, 169-174. Prepared for the 1963 Meeting of the Meteoritical Society, Oct. 7-8, 1963, Ottawa, Canada.
- Barringer, R.W., 1967. "World's Meteorite Craters," Meteoritics 3, 151-157.
- Bartlam, E.R., 1938. "A Meteoritic Hypothesis of the Origin of Continents," Pop. Astron. 46, 481-496.
- Beals, C.S., Ferguson, G.M. and Landau, A., 1956. "A Search for Analogies Between Lunar and Terrestrial Topography on Photographs of the Canadian Shield," J. Roy. Astron. Soc. Canada 50, Part I: 203-222; Part II: 250-261.
- Beals, C.S. and Millman, P.M., 1959. "A Comparison of Subsurface Materials from Two Meteorite Craters," Astron. Jour. 64, No. 1273, p. 324.
- Beals, C.S., 1960. "A Probable Meteorite Crater of Precambrian Age at Holleford, Ontario," Publ. Dom. Observ. 24, 117-142.
- Beals, C.S., Innes, M.J.S., and Rottenberg, J.A., 1960. "The Search for Fossil Meteorite Craters," Current Science 29, Part I: No. 6, 205-218; Part II: No. 7, 249-262.
- Beals, C.S., Innes, M.J.S., and Rottenberg, J.A., 1963. "Fossil Meteorite Craters," in The Moon, Meteorites, and Comets, B.M. Middlehurst and G.P. Kuiper (Eds.), University of Chicago Press, Chapter 9, 235-284.
- Beals, C.S., 1964. "A Re-examination of the Craters in the Faugeres-Cabrerolles Region of Southern France," Meteoritics 2, 85-91.

- Beals, C.S. and Innes, M.J.S., 1964. "Opoznanije Drevnikh Meteoritnikh Kraterov," (The Identification of Ancient Meteorite Craters), Meteoritika 25, 3-38.
- Beals, C.S. and Halliday, I., 1965. "Impact Craters of the Earth and Moon," Jour. Roy. Astron. Soc. Canada 59, 1-18.
- Beaty, J.J., 1966. "The Great Crater Controversy," Frontiers 30, No. 4, 112-117.
- Bennett, J.H. and Manuel, O.K., 1967. "On the origin of noble gas anomalies in Canyon Diablo graphite," Earth and Plan. Sci. Letters 3, 95-100.
- Bennett, M.A., 1967. "Exploring Meteor Crater," Pacific Discovery 20, No. 3, 11-15.
- Bingham, W.F., 1937. "Exploratory Findings at Meteor Crater, Arizona," Proc. Geol. Soc. Am. 49, 305.
- Bingham, W.F., 1937. "Summary of Findings from Exploration, Geophysical Survey, and Test-drilling at Meteor Crater, Arizona," Pan-Am. Geol. 68, No. 3, 196-198; also, Proc. Geol. Soc. Am. 1937, p. 305.
- Bjork, R.L., 1961. "Analysis of the Formation of Meteor Crater, Arizona: A Preliminary Report," Jour. Geophys. Res. 66, No. 10, 3379-3387; also, Proc. of the Geophys. Lab/Lawrence Radiation Lab. Cratering Symposium, Wash., D.C., March 28-29, 1961, Calif. Univ., Livermore, Lawrence Radiation Lab. Rept. UCRL-6438, pt. 2, paper M, 21 pp. (Report prepared for U.S. Atomic Energy Commission)

- Blackwelder, E., 1932. "The Age of Meteor Crater," Science 76, No. 1981, 557-560; also, Geol. Soc. Am. Bull. 44, No. 1, 156.
- Blackwelder, E., 1946. "Meteor Crater, Arizona," Science 104, No. 2689, 38-39.
- Blackwelder, E., 1946. "Origin of the Arizona Meteorite Crater," Pop. Astron. 54, 427-428; reprinted in 1947 in Soc. Research on Meteorites Contr. 3, No. 5, 284-285.
- Blackwelder, E. and Hager, D., 1953. "Crater Mound-Meteor Crater," Am. Assoc. Petrol. Geol. Bull. 37, 2577-2579.
- Blake, W.P., 1906. "Origin of the Depression Known as Montezuma's Well," Science 24, 568.
- Bledsoe, J.D., Kowallis, O.K. and Stagner, J.R., 1965. "A Preliminary Radio Field Strength Survey of Meteor and Merriam Craters, Arizona," Survey made by Earth Sciences Division of Teledyne, Inc., 1965.
- Boon, J.D. and Albritton, C.C., Jr., 1936. "Meteorite Craters and Their Possible Relationship to Cryptovolcanic Structures," Field and Lab. 5, 1-9.
- Boon, J.D. and Albritton, C.C., Jr., 1937. "Meteorite Scars in Ancient Rocks," Field and Lab. 5, 53-64.
- Boon, J.D. and Albritton, C.C., Jr., 1938. "The Impact of Large Meteorites," Field and Lab. 6, 57-64.
- Boon, J.D. and Albritton, C.C., Jr., 1938. "Established and Supposed Examples of Meteorite Craters and Structures," Field and Lab. 6, 44-56.

- Boon, J.D. and Albritton, C.C., Jr., 1938. "Growth of the Earth...Result of Meteoritic Impact," Southwest Rev. 23, 450-470.
- Boon, J.D. and Albritton, C.C., Jr., 1942. "The Deformation of Rock Strata by Explosions," Science 96, 402-403.
- Boot, D.H., 1920. "Meteor Mountain," Proc. Iowa Acad. Sci. 26, 379-383.
- Boutwell, W.D., 1928. "The Mysterious Tomb of a Giant Meteorite," Natl. Geog. Mag. 53, 720-730.
- Brady, L.F., 1929. "Pre-historic Arizona Meteorite," Pan-Am. Geol. 51, 287-288.
- Brady, L.F., 1931. "A Suspected Meteoric Specimen from Northern Arizona," Amer. Jour. of Science 221, 173-177.
- Brady, L.F., 1938. "An Unusual Oxidized Mass of Canyon Diablo, Arizona, Iron," (abs.) Pop. Astron. 46, 110.
- Brentlinger, C.M., 1948. "Minerals--Literally 'Out of This World'," Earth Science Digest 2, 13-20.
- Brereton, R.G., 1957. "Magnetic Study of Meteor Crater, Arizona," M.S. Thesis, college unknown.
- Brereton, R.G., 1965. "Aeromagnetic Survey of Meteor Crater, Arizona," in Geological Problems in Lunar Research, New York Acad. Sci. Annals 123, 1175-1181.
- Brett, R., 1967. "Metallic Spherules in Impactite and Tektite Glasses," Am. Mineral. 52, 721-733.

- Brett, R.G., 1968. "Opaque minerals in drill cutting from Meteor Crater, Arizona," U.S. Geol. Survey Prof. Paper 600-D, D-179-D180.
- Brown, F.M., 1933. "The Age of Meteor Crater," Science 77, 239-240.
- Buddhue, J.D., 1945. "Some Observations on the Soil Near the Canyon Diablo, Arizona, Meteorite Crater," Cont. Soc. Res. on Met. Cont. 3, No. 4, 203-205.
- Buddhue, J.D., 1948. "A Sieve Analysis of Crushed Sandstone from the Canyon Diablo, Arizona, Meteorite Crater," Pop. Astron. 56, 387-389; Reprinted in Meteorit. Soc. Contr. 4, No. 2, 134-135.
- Buddhue, J.D., 1950. "New Chemical Analyses of the Canyon Diablo, Arizona, and Arispe, Sonora, Mexico, Siderites," Pop. Astron. 58, 190; Reprinted in Meteorit. Soc. Contr. 4, No. 4, 258-259.
- Bunch, T.E. and Cohen, A.J., 1964. "Shock Deformation of Quartz from Two Meteorite Craters," Geol. Soc. Am. Bull. 75, No. 12, 1263-1266.
- Buseck, P.R., 1969. "Phosphate from Meteorites: Barringerite, a New Iron-Nickel Mineral," Science 165, 169-171.
- Butler, C.P., 1965. "Origin of Goose Lake Fragments," Meteoritics 2, 349-353.

- Campbell, W.W., 1920. "Notes on the Problem of the Origin of the Lunar Craters (including notes on Meteor Crater, Arizona)," Astron. Soc. Pacific Pub. 32, No. 186, 126-138.
- Carter, N.L. and Kennedy, G.C., 1964. "Origin of Diamonds in the Canyon Diablo and Novo Urei Meteorites," J. Geophys. Res. 69, 2403-2421.
- Carter, N.L., 1965. "Basal Quartz Deformation Lamellae--A Criterion for Recognition of Impactites," Am. Jour. Sci. 263, No. 9, 786-806.
- Carter, N.L. and Kennedy, G.C., 1966. "Origin of Diamonds in the Canyon Diablo and Novo Urei Meteorites--A Reply," Jour. of Geophys. Res. 71, 663-672.
- Cassidy, W.A., 1954. "The Wolf Creek, Western Australia, Meteorite Crater," Meteoritics 1, 197-199.
- Chamberlin, T.C. and Salisbury, R.D., 1904. Geology, Vol 1, 567-569.
- Chao, E.C.T., 1960. "The Discovery of Coesite from Meteor Crater, Arizona," Footprints 23, 1.
- Chao, E.C.T., Shoemaker, E.M. and Madsen, B.M., 1960. "First Natural Occurrence of Coesite," Science 132, No. 3421, 220-222.
- Chao, E.C.T., Fahey, J.J., Littler, J. and Milton, D.J., 1962. "Stishovite, SiO₂, a Very High Pressure New Mineral from Meteor Crater, Arizona," Jour. Geophys. Res. 67, 419-421.

- Chao, E.C.T., 1966. "Impact Metamorphism," in Astrogeologic Studies Annual Progress Report, July 1, 1965 to July 1, 1966, pt. B, U.S. Geol. Survey open-file report, pp. 135-168. Also, in Researches in Geochemistry, N.Y., John Wiley & Sons, Inc., Vol. 2, pp. 204-233, 1966.
- Chao, E.C.T., 1967. "Shock Effects in Certain Rock-forming Minerals," Science 156, No. 3773, 192-202.
- Claffey, P., 1938. "Meteor Mountain," Arizona Highways 14, p. 16+.
- Clayton, P.A. and Spencer, L.J., 1934. "Silica Glass from the Libyan Desert," Mineral. Mag. 23, 501-508.
- Cohee, G.V., 1961. "Tectonic Map of the United States," Amer. Assoc. Petrol. Geol. and U.S. Geol. Survey, 1:2,500,000.
- Colvocoresses, G.M., 1936. "Meteor Crater," Rocks and Minerals 11, No. 8, 113-117.
- Cook, C.S., 1964. "Mass of Canyon Diablo Meteoroid," Nature 204, No. 4961, 867. Review: Sky & Telescope 29, No. 4, 222.
- Cotton, C.A., 1952. "Meteor Craters," Volcanoes as Landscape Forms, Whitcombe and Tombs, Wellington, New Zealand, 2nd ed., 416 pp.
- Crowson, H.L., Aug. 1, 1968. "A Determination of the Residual Meteoritical Mass in the Barringer Meteor Crater." IBM Federal Systems Division.
- Crowson, H.L., 1971. "A Method for Determining the Residual Meteoritical Mass in the Barringer Meteor Crater," Pure and Appl. Geophysics 85, 38-68.
- Crowther, J.G., 1931. "More About the Great Siberian Meteorite," Sci. Am. 144, 314-317.

- Dake, H.C., 1969. "Celestial Diamonds," Gems and Minerals, Dec. 1969, 21.
- Daly, R.A., 1947. "The Vredefort Ring-Structure of South Africa," J. Geol. 55, 125-145.
- Darton, N.H., 1905. "The Zuni Salt Lake," J. Geol. 13, 185-193.
- Darton, N.H., 1910. "A Reconnaissance of Parts of Northwestern New Mexico and Northern Arizona," U.S. Geol. Survey Bull. 435, 27-29, 72-74.
- Darton, N.H., 1915. "Guidebook of the Western United States, Part C, The Santa Fe Route," U.S. Geol. Survey Bull. 613, 1-194.
- Darton, N.H., 1916. "Explosion Craters," Sci. Monthly 3, No. 5, 417-430.
- Darton, N.H., 1945. "Crater Mound, Arizona" (abs.), Geol. Soc. Amer. Bull. 56, No. 12, pt. 2, p. 1154. Also, 1946, Assoc. Am. Geographers Annals 36, No. 1, p. 86.
- Davison, J.M., 1910. "A Contribution to the Problem of Coon Butte," Science 32, 724-726.
- Dellenbaugh, F.S., 1931. "Meteor Butte," Science 73, 1880, 38-39.
- Derby, O.A., 1895. "Constituents of the Canyon Diablo Meteorite," Amer. J. of Science 49, 101-110.
- Dickey, D.D. and Johnson, R.B., 1961. "Influence of Natural Fractures on the Shape of Explosion-produced Craters," in Short papers in the geologic and hydrologic sciences, U.S. Geol. Surv. Prof. Paper 424-C, p. C361-C363.

- Dietz, R.S., 1946. "The meteoritic impact origin of the moon's surface feature," J. Geol. 54, 359-375.
- Dietz, R.S., 1946. "Geological Structures Possibly Related to Lunar Craters," Pop. Astron. 54, 465-467.
- Dietz, R.S., 1959. "Shatter Cones in Cryptovolcanic Structures (Meteorite Impact?)," J. Geol. 67, 496-505.
- Dietz, R.S., 1960. "Meteorite Impact Suggested by Shatter Cones in Rocks," Science 131, 1781-1784.
- Dietz, R.S., 1961. "Astroblemes," Sci. Amer. 205, No. 2, 50-58.
- Dietz, R.S., 1961. "Discussion of a Paper by Hargraves on the Vredefort Ring," Trans. Geol. Soc. So. Africa 64, 155-156.
- Dietz, R.S., 1962. "The Vredefort Ring Structure: A Reply," J. Geol. 70, 502-504.
- Dietz, R.S., 1963. "Meteorite Impacts, Lunar Maria, Lopoliths and Ocean Basins," Nature 197, 38-40.
- Dietz, R.S., 1963. "Cryptoexplosion Structures: A Discussion," Am. J. of Science 261, 650-664.
- Dietz, R.S., 1963. "Astroblemes, Ancient Meteorite-Impact Structures on the Earth," in The Moon, Meteorites, and Comets--The Solar System, Vol. 4, B. Middlehurst and G.P. Kuiper, eds.; Chicago, Ill., Univ. of Chicago Press, pp. 285-300 in Ch. 10.

- Dietz, R.S., 1964. "Canyon Diablo Bolide, Its Energy, Mass and Amount Recovered," publication unknown.
- Dietz, R.S., 1964. "Barringer Meteor Crater: An Historical Review," Program of the 27th Meeting of the Meteoritical Society, Oct. 30-Nov. 21, 1964, 7.
- Dietz, R.S., 1965. "Mineralogy and Trace Element Composition of the Canyon Diablo Meteorites," Dated Feb. 1965, publication unknown.
- Dietz, R.S., 1965. "Roter Kamm, Southwest Africa: Probable Meteorite Crater," Meteoritics 2, 311-214.
- Dodge, N.N., 1955. "The Most Interesting Spot on Earth," Pacific Discovery 8, No. 4, 24-26.
- Dolezal, E., 1958. "Vor 50,000 Jahren, Superbombe aus dem Weltall-der-Meteor-Krater von Arizona," Universum Natur und Technik 13, 459-463.
- Dublin, J., 1932. "A la Recherche du Dieu de feu des Navajoes," (In Search of the Navajo God of Fire), Astronomie 46, 94-96.
- Enever, J.E., ca. 1966. "Giant Meteor Impact," Analog Sci. Fiction/Sci. Fact, 61-84.
- Fahey, J.J., 1964. "Recovery of coesite and stishovite from Coconino sandstone of Meteor Crater, Arizona," Amer. Mineral. 49, 1643-1647.
- Fairchild, H.L., 1907. "A Meteoric Crater of Arizona," Internatl. Geol. Cong., 10th, Mexico 1906, Comptes rendus, p. 147-151.

- Fairchild, H.L., 1907. "Origin of Meteor Crater (Coon Butte), Arizona," Geol. Soc. Amer. Bull. 18, 493-504. Read before the Society Dec. 29, 1906.
- Fairchild, H.L., 1929. "Meteor Crater Exploration," Science 69, 485-487.
- Fairchild, H.L., 1930. "Nature and Fate of the Meteor Crater Bolide," Science 72, No. 1871, 463-467. Also, 1931, Roy. Astron. Soc. Canada Jour. 25, 17-26.
- Farrington, O.C., 1906. "Analysis of 'Iron Shale' from Coon Mountain, Arizona," Am. Jour. Sci. 22, 303-309.
- Fisher, C., 1934. "Where a Comet Struck the Earth," Nat. History 34, No. 8, 754-762.
- Fisher, C., 1936. "The Meteor Craters in Estonis," Nat. History 38, 292-299.
- Fisher, G.C., 1946. Meteor Crater, Arizona, Amer. Mus. Natural History, N.Y., 16 pp. Reprinted with some modifications from The Barnwell Addresses, Philadelphia, 1934.
- Flammarion, G.C., 1932. "Le Secret des Pierres Tombees du Ciel: Decouverte Recente de Crateres Meteoriques" (The Secret of Stones Fallen from the Sky: The Recent Discovery of Meteorite Craters), Astronomie 46, 549-558.
- Fletcher, L.A., 1906. "A Search for a Buried Meteorite," Nature 74, 490-492.
- Foote, A.E., 1891. "Geological Features of the Meteoric Locality in Arizona," Acad. Nat. Sci. Philadelphia Proc., 40, 407.

- Foote, A.E., 1892. "A New Locality for Meteoric Iron with a Preliminary Notice of the Discovery of Diamonds in the Iron," Proc. Am. Assoc. Adv. Sci. 40, 279-283.
- Foster, G.E., 1953. Arizona's Meteorite Crater, Meteor Crater Publications, Winslow, Arizona, 28 pp.
- Foster, G.E., 1955. "A Siderite Found Inside the Barringer Meteorite Crater," Meteoritics 1, No. 3, 358-359.
- Foster, G.E., 1957. The Barringer (Arizona) Meteorite Crater, published privately, 31 pp.
- Foster, G.E., 1964. The Meteor Crater Story, Meteor Crater Enterprises, Inc., Winslow, Arizona, 32 pp.
- Fredriksson, K. and Wickman, F.E., 1963. "Meteoriter" (Meteorites), Svensk Naturvetenskap, 121-157.
- Freeberg, J.H., 1969. "Terrestrial Impact Structures—a Bibliography 1965-68," Geological Survey Bulletin 1220, pp. 22-32.
- Gentieu, N.P., 1958. "The Biography of a Crater," Foote Prints 30, No. 2, 3-14.
- Geze, B., and Cailleux, A., 1950. "Existence Probable de Crateres Meteoriques a Cabrerolles et a Faugeres (Herault)" (The Probable Existence of Meteoritic Craters at Cabrerolles and at Faugeres (Herault)), Compt. Rend. 230, 1534-1536.
- Gilbert, G.K. and Baker, M., 1891. "A Meteoric Crater," Astron. Soc. Pacific Pub. 4, No. 21, 37.

Gilbert, G.K., 1892. "Report of Mr. G.K. Gilbert," U.S. Geol. Survey, 13th Annual Report, Pt. I, 1-98.

Gilbert, G.K., 1893. "Report of Mr. G.K. Gilbert," U.S. Geol. Survey, 14th Annual Report, Pt. I, 182-187.

Gilbert, G.K., 1896. "The Origin of Hypotheses, Illustrated by the Discussion of a Topographic Problem," Science 3, Jan. 3, pp. 1-13.
 Also: Presidential address before the Geol. Soc. of Washington, Dec. 11, 1895.
 Also: Adaptation for Time, Space, and Matter Science Reading Series published by Princeton University, 1968: "A Strange Crater in Arizona," published as a companion piece to D.M. Barringer's 1905 Arizona Crater...

Gilvarry, J.J., 1961. "Origin of Lunar Surface Features and of Terrestrial Ocean Basins and Continents," Paper R, Part 2 of Cratering Symposium, Oct. 1961, pp. R-1-R-34.

Godson, R.H., Acherman, H.D. and Watkins, J.S., 1965. "Seismic Survey of Meteor Crater Arizona," in investigation of in situ physical properties of surface and subsurface sit materials by Engineering Geophysical Techniques, Geol. Surv., Flagstaff, Arizona, Feb. 1966.

Grant, C., 1948. "Meteoric Origin of the 'Carolina Bays' Questioned," Pop. Astron. 56, 511-527.

Greenwood, W.R. and Morrison, W.R., 1969. "Genetic significance of the morphology of some impact bombs from Meteor Crater, Arizona," Meteoritics 4, 182.

- Guild, F.N., 1907. "Coon Mountain Crater," Science 26, 24-25.
- Guppy, D.J. and Matheson, R.S., 1950. "Wolf Creek Meteorite Crater, Western Australia," J. Geol. 58, 30-36.
- Hack, J.T., 1942. "The Changing Environment of the Hopi Indians of Arizona," Harvard University, Peabody Mus. Am. Archaeology and Ethnology Papers 35, No. 1, 85 pp.
- Hager, D., 1926. "Meteor Crater," Eng. Mining Jour.-Press 121, No. 9, 374.
- Hager, D., 1949. "Crater Mound ('Meteor Crater'), Arizona: Is Its Origin Geologic or Meteoritic?" (abs.) Pop. Astron. 57, 457-458. Reprinted in Meteorit. Soc. Contr. 4, No. 3, 223-224.
- Hager, D., 1953. "Crater Mound (Meteor Crater), Arizona, A Geologic Feature," Am. Assoc. Petr. Geologists Bull. 37, No. 4, 821-857.
 Discussion by E. Blackwelder and reply by author, No. 11, 2577-2579.
 Comment by C.T. Hardy, No. 11, 2580.
 Additional notes by author, Vol. 40, No. 1, 161-162, 1956.
- Hager, D., 1954. "Notes on Crater Mound in Answer to Some Points Raised by H.H. Nininger," Am. Jour. Sci. 252, No. 11, 695-697.
- Hall, R.A., 1965. "The Meteorite Miners," Analog Science Fiction/Science Fact, 52-65.

- Hall, R.A., 1965. "Secondary Meteorites from the Arizona Crater," Meteoritics 2, No. 4, 337-348.
- Halliday, I., and Griffin, A.A., 1964. "Application of the Scientific Method to Problems of Crater Recognition," Meteoritics 2, 79-84.
- Harding, N., and Miller, R., 1953. "A Gravity Survey of Meteor Crater, Arizona," (abs.) Geophysics 18, No. 3, 742.
- Harding, N., 1954. "A Gravity Investigation of Meteor Crater, Arizona." Unpublished M.S. Thesis, University of Wisconsin, 1954.
- Hardy, C.T., 1953. "Structural Dissimilarity of Meteor Crater and Odessa Meteorite Crater," Am. Assoc. Petr. Geologists Bull. 37, No. 11, 2580.
- Hardy, C.T., 1954. "Major Craters Attributed to Meteoritic Impact," Am. Assoc. Petr. Geol. 38, 917-923.
- Hargraves, R.B. and Perkins, W.E., 1969. "Investigation of the Effect of Shock on Natural Remnant Magnetism," Jour. Geophys. Res. 74, 2576-2589.
- Hastings, J.B., 1909. "Meteor Crater," Mining Sci. Press 98, 523-525.
- Hawkins, G.S., 1961. Splendor in the Sky, Harper and Row, New York.
- Hawkins, G.S., 1964. The Physics and Astronomy of Meteors, Comets and Meteorites, McGraw-Hill Book Co., Inc., New York.

- Heald, W.F., 1959. "Meteor Crater," Arizona Highways 35, No. 4, 6-9.
- Heide, F., 1933. "Meteoritenkrater," Forschungen und Fortschr. 9, 379-381.
- Heide, F., 1964. Meteorites, University of Chicago Press, 1964, 144 pp. Translated by E. Anders and E. DeFresne from Kleine Meteoritkunde, 2nd Ed., Springer Verlag, Berlin, 1957.
- Henderson, E.P., 1948. "American Meteorites and National Collection," Smithsonian Report, 1948, 257-268. (Annual Report, June 30, 1948)
- Hendricks, E.E., 1954. "The Geology of the Steelville Quadrangle, Missouri," Missouri Geol. Surv. and Water Resources 36, 2nd series, 88 pp.
- Hennig, E., 1909. "Ein Meteorkrater," Naturwiss. Wochenschr. 24, 77-78.
- Hey, M.H., 1966. Catalogue of Meteorites (3rd Ed.), British Museum (Nat. Hist.), London, 637 pp. (552-553)
- Heymann, D., 1964. "Origin of the Canyon Diablo No. 2 and No. 3 Meteorites," Nature 204, 819-820.
- Heymann, D., Lipschutz, M.E., Nielson, B. and Anders, E., 1966. "Canyon Diablo Meteorite--Metallographic and Mass Spectrometric Study of 56 Fragments," Jour. Geophys. Res. 71, No. 2, 619-641.
- Hodge, P.W. and Wright, F.W., 1970. "Meteoritic spherules in the soil surrounding terrestrial impact craters," Nature 225, 717-718.

- Hodge-Smith, T., 1939. "Australian Meteorites," Mem. Australian Museum, Sydney, No. 7, 36-38.
- Hoffleit, D., 1943. "Meteor Crater Meteorite," Sky and Telescope 2, No. 5, 6.
- Hoffleit, D., 1948. "Did a Meteorite Do It?" Sky and Telescope 7, 119-120.
- Hoffleit, D., 1949. "Meteor Crater is Square," Sky and Telescope 8, No. 3, 62.
- Hoffleit, D., 1949. "Meteorites in the Rim of Meteor Crater," Sky and Telescope 9, No. 1, 10.
- Hoffleit, D., 1953. "Meteoriticists Meet," Sky and Telescope 12, 319-320.
- Hoffleit, D., 1955. "Ill Wind at Meteor Crater," Sky and Telescope 14, No. 10, 418.
- Hoffleit, D., 1957. "Double Blast in Arizona," Sky and Telescope 16, 86.
- Holland, L.F.S., 1925. "Meteor Mountain Crater, Arizona," Eng. Mining Jour.-Press 119, No. 6, 253-254.
- Holmes, C.H., 1948. "The Hidden Crater of Wolf Creek," Walkabout, Nov. 1948, 10-16.
- Holmes, P., 1971. "Meteor Crater," Desert 34, 36-37.

- Innes, M.J.S., 1957. "A Possible Meteorite Structure at Deep Bay, Saskatchewan," J. Roy. Astron. Soc. Canada 51, 265-240.
- Innes, M.J.S., 1964. "Recent Advances in Meteorite Crater Research at the Dominion Observatory, Ottawa, Canada," Meteoritics 2, 219-241.
- Jakosky, J.J., 1932. "Geophysical Methods Locate Meteorite," Eng. Mining Jour. 133, No. 7, 392-393.
- Jakosky, J.J., Wilson, C.H., and Daly, J.W., 1932. "Geophysical Examination of Meteor Crater, Arizona," Am. Inst. Mining Metall. Petr. Engineers Trans. 97, 63-98.
- Janssen, C.L., 1951. "The Meteor Craters in Herculault, France," J. Roy. Astron. Soc. Canada 45, 190-198.
- Johnson, G.W., 1960. "Note on Estimating the Energies of the Arizona and Ungava Meteorite Craters," California Univ., Livermore, Lawrence Radiation Lab. Rept. UCRL-6227, 18 pp. (Report prepared for the U.S. Atomic Energy Commission)
- Jones, O.T., 1933. "Discussion," (of L.J. Spencer's Paper), Geogr. J. 81, 246-247.
- Karpoff, R., 1953. "The Meteorite Crater of Talemzane in Southern Algeria," Meteoritics 1, 31-38. (Translated by L. Brady)
- Kelly, A.O., 1952. "Mysterious Crater Elegante," Scientific Monthly 74, 291-296.

- Kelly, A.O. and Dachille, F., 1953. Target: Earth, Pensacola Engraving Co., Inc., Pensacola, Florida, 263 pp.
- Keyes, C.R., 1910. "Coon Butte and Meteoritic Falls of the Desert," (abs.) Geol. Soc. Amer. Bull. 21, No. 12, 773-774.
- Keyes, C.R., 1911. "Volcanic Phenomena of Coon Butte Region, Arizona" (abs.), Iowa Acad. Sci. Proc. 18, 99-100. Also: Science 34, No. 862, 29.
- Keyes, C.R., 1922. "Discovery of Gilbert's Star (Origin of Coon Butte, Arizona)," Pan-Amer. Geologist 37, 86-87.
- Kildare, M., 1967. "Lost Meteor Diamonds," Old West 4, 12-15.
- Kranck, S.H. and Sinclair, G.W., 1963. "Clearwater Lake, New Quebec," Bull. Geol. Survey Canada 100, 25 pp.
- Kranz, W., 1937. "Steinheimer Becken Nordlinger Ries und 'Meteorkrater'" (Steinheim Basin, Nordlinger Ries, and 'Meteor Crater'), Geogr. Mitt. Peterman's 83, 198-202.
- Kranz, W., 1938. "'Krater von Sall' auf Osel, Wahrscheinlich 'Meteorkrater'" (Sal Crater on Osel, A Probable 'Meteor Crater'), Beitr. Angew. Geophys. 51, 50-55.
- Kreins, E.R., 1953. "Results of a Systematic Study of the Ratio of Meteorite to Oxidite at the Barringer Meteorite Crater of Arizona," Meteoritics 1, No. 1, 29-30.

- Krinov, E.L., 1950. "Some Characteristic Features of the Sikhote-Alin (USSURI) Iron Meteorite Shower (Of the USSR: ECN=+ 1347,462)," Pop. Astron. 58, 298-303.
- Krinov, E.L., 1959. "Nonterrestrial Dust on the Earth," Sky and Telescope 18, 617-619.
- Krinov, E.L., 1960. Principles of Meteoritics, New York: Pergamon Press, 535 pp. Translated by Irene Vidziunas.
- Krinov, E.L., 1962. "Meteoritnye Kratery na Poverkhnosti Zemli" (Meteorite Craters on the Earth's Surface), Meteoritika 22, 3-30.
- Krinov, E.L., 1966. Giant Meteorites, New York: Pergamon Press, 397 pp. Translated by J.S. Romankiewicz.
- Ksanda, C.J. and Henderson, E.P., 1939. "Identification of Diamond in the Canyon Diablo Iron," Am. Mineralogist 24, No. 11, 677-680.
- Kulik, L.A., 1925. "Rudnichnye Raboty v 'Meteoronom Kratere' Arizony," (Mining work in the Meteor Crater of Arizona), Mirovedeniye Moskva, 14, 119-120.
- Kutscher, M., 1938. "Neues vom Arizonakrater," (News from the Arizona Crater), Weltall 38, 282-283.
- Lafond, E. and Dietz, R.S., 1964. "Lunar Crater, India, A Meteorite Crater?" Meteoritics 2, 111-116.
- Landberg, T.F.H., 1940. "Der Meteor-Krater in Arizona," Die Umschau, Frankfurt a.M., 44, 62.

- Langewiesche, W., 1969. "The Thing that Hit Us from Outer Space," Reader's Digest Our Amazing World of Nature.
- LaPaz, L., 1943. "Remarks on Four Notes Recently Published by C.C. Wylie," Contr. Soc. Res. Meteorites 9, 93-97.
- LaPaz, L., 1947. "A Possible Meteoritic Crater in the Aleutians," Pop. Astron. 55, 156-167.
- LaPaz, L., 1948. "'A Comet Strikes the Earth'-- Review," Meteorit. Soc. Contr. 4, No. 2, 103-104.
- LaPaz, L., 1948. "An Announcement Concerning Future Explorations at the Canyon Diablo, Arizona, Meteorite Crater," Pop. Astron. 56, 559-560. Reprinted in Meteorit. Soc. Contr. 4, No. 2, 164-165.
- LaPaz, L., 1950. "A Preliminary Report on Indian Ruins Discovered Near the Crest of the Barringer Meteorite Crater, Arizona," Pop. Astron. 58, 400-401. Reprinted in Meteorit. Soc. Contr. 4, No. 4, 285-286.
- LaPaz, L., 1950. "The Discovery and Interpretation of Nickel-iron Granules Associated with Meteorite Craters," Royal Astron. Soc. Canada Jour. 47, 191-194.
- LaPaz, L., 1954. "Notes on the Ungava Crater of Quebec (Evidence on the Nature of the Ungava Crater Unobscured by Glaciation)," Meteoritics 1, 228.

- LaPaz, L., 1958. "The Effects of Meteorites Upon the Earth (Including its Inhabitants, Atmosphere, and Satellites)," In Advances in Geophysics, H.E. Landsberg and J. Van Mieghem (eds.), Vol. 4, Academic Press, Inc., New York, 217-350.
- LaPaz, L. and LaPaz, J., 1961. Space Nomads, Meteorites in Sky, Field, and Laboratory, Holiday House, New York, 187 pp.
- Lassovszky, K., 1930. "On the Meteor Crater in Arizona," Stella 5, 48-50. (In Hungarian)
- Lee, W.T., 1907. "Afton Craters of Southern New Mexico," Bull. Geol. Soc. America 18, 211-220.
- Leonard, F.C., 1942. "A Comet Strikes the Earth (review)," Contr. Soc. Res. Meteorites 8, 63.
- Leonard, F.C., 1946. "'Crater Mound, Arizona,'" Pop. Astron. 54, 152-153. Reprinted in Soc. Res. Meteorites Contr. 3, No. 5, 249.
- Leonard, F.C., 1950. "The Name of the Barringer Meteorite Crater of Arizona," Pop. Astron. 58, 469. Reprinted in Meteorit. Soc. Contr. 4, No. 4, 309.
- Leonard, F.C., 1951. "Oxidite or 'meteoritic shale' terrestrialization and and terrestrialite," Contr. Soc. Res. Meteorites 17, 46-47.
- Leonard, F.C., 1955. "Mineral Formulas, the Classification Sequence, and the Auelloul Crater," Meteoritics 1, 324-327.
- Lewis, W.S., 1946. "Origin of the Crater," Desert Mag. 9, No. 11, 29.

- Lipschutz, M.E., 1965. "Origin of Atypical Meteorites from the Arizona Meteorite Crater," Nature 208, No. 5011, 636-638.
- Locke, H., 1937. "Meteor Crater . . . Grave of a Celestial Visitor," Arizona Mag. (Tucson), 1, 11-13, 22.
- Locke, H., 1942. "Meteor Crater, Tomb of Heaven's Ancient Visitor," Arizona Highways, 18, p.6-9+ (Nov. 1942).
- Longwell, C.R., 1931. "Meteor Crater is not a Limestone Sink," Science 73, No. 1887, 234-235.
- Lundberg, H., 1938. "Exploring the Crater by New Methods," Sky 2, 18-19, 29.
- Lundberg, H., 1938. "Some Geophysical Data on the Meteor Crater in Arizona" (abs.), Geol. Soc. Am. Bull. 49, No. 12, pt. 2, p. 1953.
- Madigan, C.T., 1937. "The Boxhole Crater and the Huckitta Meteorite (Central Australia)," Roy. Soc. So. Austral., Trans. 61, 187-190.
- Magie, W.F., 1910. "Physical Notes on Meteor Crater, Arizona," Am. Philos. Soc. Proc. 49, No. 194, 41-48. Also: Science 31, No. 805, 872-873.
- Magie, W.F., 1927. "Meteor Crater," Eng. Mining Jour. 123, 293.
- Mallet, J.W., 1908. "A Stony Meteorite from Coon Butte, Arizona," Am. Jour. Sci. Ser. 4, v. 21, 347-355.

- Margerie, E., 1913. "Deux Accidents Cratéri-formes--Crater Lake (Oreg.) et Meteor Crater (Ariz.)" [Two Crateriform Irregularities--Crater Lake (Oreg.) and Meteor Crater (Ariz.)], Annales Géographie 22, 172-184.
- Mason, B., 1962. Meteorites, John Wiley & Sons, Inc., New York, 274 pp.
- McCall, G.J.H., 1965. "Advances in Meteoritics in Western Australia," Meteoritics 2, 315-323.
- McCall, G.J.H., 1970. "The lunar controversy, II," British Astron. Assoc. Jour. 80, 100-106.
- McCauley, J.F. and Masursky, H., 1969. "The bedded white sands at Meteor Crater, Arizona," Meteoritics 4, 196.
- McKelvey, N., 1948. "On the Trail of the Meteorites," Arizona Highways 24 (May), 22-25.
- Mead, C.W., Chao, E.C.T., and Littler, J., 1963. "Metallic Spheroids from Meteor Crater, Arizona," in Astrogeologic Studies Annual Progress Report, Aug. 25, 1961, to Aug. 24, 1962. U.S. Geol. Survey open file report, pt. C, 150-162.
- Mead, C.W., Littler, J., and Chao, E.C.T., 1965. "Metallic Spheroids from Meteor Crater," Am. Mineral. 50, Nov. 5-6, 667-681.
- Meen, V.B., 1950. "Chubb Crater, Ungara, Quebec," J. Roy. Astron. Soc. Canada 44, 169-180.
- Meen, B., 1952. "Solving the Riddle of Chubb Crater," Natl. Geographic Mag. 101, 1-32.
- Meen, B., 1957. "Merewether--A Possible Meteor Crater," Proc. Geol. Assoc. Canada 9, 49-67.

- Mehlin, T.G., 1968. "Astronomy and the origin of the earth," Wm. C. Brown, 58ff.
- Meinecke, F., 1909. "Der Meteorkrater von Canyon Diablo in Arizona und seine Bedeutung für die Entstehung der Mondkrater" (The Canyon Diablo Meteor Crater and its Significance for the Origin of Moon Craters), Naturwiss. Wochenschr. 8, 801-810.
- Merriam, R., and Holwerda, J.G., 1957. "Al Um-chaimin, A Crater of Possible Meteoritic Origin in Western Iraq," Geogr. J. 123, 231-233.
- Merrill, G.P. and Tassin, W., 1907. "Contributions to the Study of the Canyon Diablo Meteorites," Smithsonian Misc. Coll. 50, pt. 2, Sept. 12, 1907, pp. 203-215.
- Merrill, G.P., 1908. "The Meteor Crater of Canyon Diablo, Arizona--Its History, Origin, and Associated Meteoritic Irons," Smithsonian Misc. Coll. 50, pt. 4, No. 1783, pp. 461-498.
- Merrill, G.P., 1909. "Meteor Crater of Canyon Diablo, Arizona," Annual Report of the Smithsonian Institution for year ending June 30, 1908, pp. 9-10.
- Merrill, G.P., 1909. "The Meteor Crater of Arizona," Rept. Australian, New Zealand Assoc. Adv. Sci. 12, 320-323.
- Merrill, G.P., 1909. "Coon Butte or Meteor Crater," (abs.), Science 29, No. 736, 239-240.
- Merrill, G.P., 1920. "A Retrospective View of the Origin of Meteor Crater, Arizona," Astron. Soc. Pacific Pub. 32, No. 189, 259-264.

- Meyerhoff, H., 1950. "Meeting of Southwestern Division of the AAAS," Science 111, 679-680.
- Millman, P.M., et al., 1960. "The Brent Crater," Publ. Dom. Observ. Ottawa 24, 1-43.
- Millman, P.M., 1971. "The Space Scars of Earth," Nature 232, 161-164.
- Minhinnick, H.J., 1926. "About That Gigantic Meteor Crater," Prog. Ariz. 3, pp. 10-11, 37-38.
- Monnig, O.E., 1941. "The Schertz, Guadalupe County, Texas, Meteorite Proved Identical with Canyon Diablo, Arizona," Pop. Astron. 49, 560-562.
- Monud, T., 1963. Contribution a L'Etablissement D'Une Liste D'Accidents Circulaire D'Origine Meteorique Reconnue, Possible Ou Supposee, Inst. Franc. Afrique Noire, Dakar, Senegal, 45 pp. (Catalogues et Documents, No. 18).
- Moore, C.B. and Jost, P.L., 1965. "Variations in the Chemical and Mineralogical Composition of Rim and Plains Specimens of the Canyon Diablo Meteorite," Proceedings of the XX International Congress on Pure and Applied Chemistry, Moscow, U.S.S.R.
- Moore, P., and Cattermole, P.J., 1967. "The craters of the moon--An observational approach," Lutterworth Press, pp. 20, 45, 47.
- Moulton, F.R., 1929. "Report on the Meteor Crater," August 24, 1929, 22 pp. Ms on file at the Lowell Observatory, Flagstaff, Arizona.
- Moulton, F.R., 1929. "Second Report on Arizona Crater," Ms on file at the Lowell Observatory, Flagstaff, Arizona.

- Mulder, M.E., 1911. "De Explosive van Meteoren en het Onstaan van den Meteorkrater van Canyon Diablo" (Explosion of meteorites and the origin of the Canyon Diablo Meteor Crater), Ingenieur 26, 880-885.
- Müller, L., 1908. "Der Meteorkrater in Arizona," Aus der Natur, Stuttgart, 4, 311-315.
- Munk, J.A., 1904. "The Meteorite Mountain" (Ch. 11), + pp. 27 and 153-166 of Arizona Sketches, Grafton Press, New York.
- Murray, J.B. and Guest, J.E., 1970. "Circularities of craters and related structures on earth and moon," Modern Geology 1, 149-159.
- Mutch, T.A., 1970. "Geology of the moon--A stratigraphic view," Princeton Univ. Press, 84-87, 92, and 115.
- Namba, M., 1954. "Geophysical Study of Arizona Meteorite Crater" in "Some Studies on Volcano Aso and Kujiu," Kumamoto Jour. Sci., Ser. A, v. 2, p. 85-89.
- Nekrasov, I.A. and Raudonis, P.A., 1963. "Meteoritniye Krateri" (Meteorite Craters), Priroda 1, 102-104.
- Newton, A.M., 1946. "A Cosmic Bomb Destroys a Civilization" (abs.), Pop. Astron. 54, 484.
- Niermeyer, J.F., 1913. "Kraters in Sedimentair Gesteente in Arizona en Nieuw-Mexico" (Craters in Sedimentary Rocks in Arizona and New Mexico), Nederlandsch Natuur- en Geneeskundig Congres, 14th, Delft 1913, Hand 14, 430-436.

- Nininger, H.H., 1933. "Meteor Craters Vs. 'Steam Blowouts,'" Mines Mag. 23, No. 12, 7-8. Also: 1934, Mining Rev. 36, No. 2, 9-11. Abstract in Pan-American Geol. 60, No. 4, 308-310.
- Nininger, H.H., 1933. Our Stone Pelted Planet, The Riverside Press, Cambridge, 237 pp.
- Nininger, H.H., 1938. "Observations and Suggestions Regarding Meteorite Craters," (abs.) Bull. Geol. Soc. Amer. 49, 1956.
- Nininger, H.H., 1939. "Diamonds in Canyon Diablo, Ariz., Meteorites," Pop. Astron. 47, 504-507. Also: Soc. Res. on Meteorites Contr. 2, No. 2, 142-145.
- Nininger, H.H., 1940. "A New Type of Nickel-Iron Meteorite from the Vicinity of the Arizona Meteorite Crater," Pop. Astron. 48, 328-332.
- Nininger, H.H., 1942. "Arizona's Newest Natural Wonder," Arizona Highways 18, 22-25 and 29 (May).
- Nininger, H.H., 1942. "Visitor From a Distant Planet," Desert 5, 9-12.
- Nininger, H.H., 1943. "A Possible New Meteorite Crater in North Africa," Pop. Astron. 51, 96.
- Nininger, H.H., 1947. "The Barringer Meteorite Crater (abs.)," Pop. Astron. 55, 49. Also: Meteorit. Soc. Contr. 4, No. 1, 19.
- Nininger, H.H., 1948. "Geological Significance of Meteorites," Amer. J. Sci. 246, 101-108.

- Nininger, H.H., 1949. "Meteorites in as Well as On the Crater Rim," Pop. Astron. 57, 333-334.
- Nininger, H.H., 1949. "A New Type of Magnetometer Survey of Barringer Meteorite Crater," Pop. Astron. 57, 1-5.
- Nininger, H.H., 1949. "Oxidation Studies at Barringer Crater--Metal-center Pellets and Oxide Droplets," Am. Philos. Soc. Yearbook 1949, 126-133.
- Nininger, H.H., 1950. "Structure and Composition of Canyon Diablo Meteorites as Related to Zonal Distribution of Fragments," Pop. Astron. 58, 169-173.
- Nininger, H.H., 1951. "Der Meteorkrater von Arizona," Die Umschau, Frankfurt a.M., 11, 338-341.
- Nininger, H.H., 1951. "Condensation Globules at Meteor Crater," Science 113, No. 2948, 755-756.
- Nininger, H.H., 1951. "A Résumé of Researches at the Arizona Meteorite Crater," Sci. Monthly 72, No. 2, 75-86.
- Nininger, H.H., 1952. Out of the Sky, Dover Publications, Inc., New York, 336 pp. Also: The University of Denver Press, Denver, 336 pp., 36 pl.
- Nininger, H.H., 1953. "Symmetries and Asymmetries in Barringer Crater," Earth Sci. 7, No. 1, 17-19.

- Nininger, H.H., 1953. A Comet Strikes the Earth, The American Meteorite Museum, Sedona, Arizona, 4th revision, 76 pp.
- Nininger, H.H., 1954. "Further Notes on Metallic Spheroids at the Arizona Meteorite Crater" (abs.), Geol. Soc. Amer. Bull. 65, No. 12, pt. 2, 1397-1398.
- Nininger, H.H., 1954. "Impactite Slag at Barringer Crater," Am. Jour. Sci. 252, No. 5, 277-290. Discussion by D. Hager and reply by author in No. 11, 695-700.
- Nininger, H.H., 1956. Arizona's Meteorite Crater, Past, Present, Future. American Meteorite Museum, Sedona, Arizona, and World Press, Denver, Colorado; 232 pp.
- Nininger, H.H., and Huss, G.I., 1960. "The Unique Meteorite Crater at Dalgara, Western Australia," Mineral. Mag. 32, 619-639.
- Nininger, H.H., 1963. "Meteorite Distribution on the Earth," Chapter 6 in The Moon, Meteorites, and Comets. B.M. Middlehurst and G.P. Kuiper (eds.), University of Chicago Press (pp. 162-182).
- Nininger, H.H., 1971. The Published Papers of H.H. Nininger: Biology and Meteoritics. G.A. Boyd, ed., Tempe, Arizona: Ariz. State University Bureau of Publications.
- Nordyke, M.D., 1961. "Nuclear Craters and Preliminary Theory of the Mechanics of Explosive Crater Formation," J. Geophys. Res. 66, 3439-3459.
- Norton, O.R., 1959. "The Barringer Meteorite Crater," Griffith Observer 23, No. 5, 62-73.

- O'Connell, E., 1965. A Catalog of Meteorite Craters and Related Features with a Guide to the Literature. Santa Monica, Calif.: Rand Corporation.
- Õpik, E.J., 1936. "Researches on the physical theory of meteor phenomena. I. Theory of the formation of Meteor Crater. II. The possible consequences of the collisions of meteors in space." Publ. Observ. Astron. Univ. Tartu 28, 27 pp.
- Õpik, E.J., 1958. "Meteor Impact on Solid Surface," Irish Astron. Jour. 5, No. 1, 14-33.
- Õpik, E.J., 1961. "Notes on the Theory of Impact Craters," Part II, Paper S, of Cratering Symposium, Oct. 1961, pp. S-1-S-28.
- Oriti, R.A., 1965. "The Largest Meteoritic Diamond," Griffith Observer 29, No. 12, 173-175.
- Pecora, W.T., 1960. "Coesite Craters and Space Geology," Geotimes 5, 16-19, 32.
- Petrillo, B., 1968. "Processing of Soil Samples, Meteor Crater, Arizona Vicinity," Publication unknown.
- Pickering, W.H., 1909. "The Chance of Collision with a Comet, Iron Meteorites and Coon Butte," Pop. Astron. 17, 329-339.
- Prouty, R., 1964. "The Buried Treasure Nobody Can Dig," Desert 27, 15-16.

- Radcliffe, S.V., 1969. Cañon Diablo, a Transmission Electron Microscopy Study," Meteoritics 4, 290.
- Rayner, J.M., 1938. "The Henbury Meteorite Craters and Geophysical Prospecting," Australian Jour. Sci. 1, 93-94.
- Reeves, F., and Chalmers, R.O., 1949. "The Wolf Creek Crater," Australian Jour. Sci. 11, 154-156.
- Regan, R.D., 1967. A Geophysical Investigation of Meteor Crater, Arizona. M.S. Thesis, Boston College.
- Reger, R.D. and Batchelder, G.L., 1971. "Late Pleistocene Molluscs and a Minimum Age of Meteor Crater, Arizona," Jour. Ariz. Acad. Sci. 6, 190-195.
- Richter, R., 1936. "Nacht am Meteor-Krater" (Night at Meteor Crater), Natur und Volk, Frankfurt a.M., 66, 454-458.
- Rinehart, J.S., 1950. "Some Observations on High-speed Impact (Meteor Crater)," Pop. Astron. 58, 458-464.
- Rinehart, J.S., 1957. "Distribution of Meteoritic Debris About the Arizona Meteorite Crater" (abs.), Astron. Jour. 62, No. 1247, 96.
- Rinehart, J.S., 1957. "A Soil Survey Around the Barringer Crater," Sky and Telescope 16, No. 8, 366-369.
- Rinehart, J.S., 1958. "Distribution of Meteoritic Debris About the Arizona Meteorite Crater," Smithsonian Contr. Astrophysics 2, 145-160. Discussion by H.C. Dake in Mineralogist 26, No. 9, pp. 216, 218.

- Rinehart, J.S., 1958. "On the Nature of the Meteoritic Debris at the Arizona Meteorite Crater" (abs.), Astron. Jour. 63, No. 1262, 310.
- Rinehart, J.S., 1958. "Recent Findings at the Arizona Meteorite Crater," Footprints 30, No. 2, 15-22.
- Roach, C.H., Johnson, G.R., McGrath, J.G. and Sterrett, T.S., 1962. "Thermoluminescence Investigations at Meteor Crater, Arizona," in Short papers in geology, hydrology, and topography. U.S. Geol. Survey Prof. Paper 450-D, p. D98-D103.
- Roberts, W.A., 1965. "Genetic Stratigraphy of the Meteor Crater Outer Lip," Icarus 4, No. 4, 431-433.
- Roberts, W.A., 1968. "Shock Crater Ejecta Characteristics," in Shock Metamorphism of Natural Materials, B. French and N.M. Short (eds.), Baltimore, Md., Mono Book Corp., pp. 101-114.
- Robie, E.H., 1928. "The Meteor Crater Project," Eng. Mining Jour. 125, No. 21, 850-852.
- Rogers, A.F., 1928. "Natural History of Silica Minerals," Amer. Mineralogist 13, 73-87.
- Rogers, A.F., 1930. "A Unique Occurrence of Lechatelierite of Silica Glass," Am. Jour. Sci., 5th Ser., Vol. 19, 195-202.
- Rohleder, H.P.T., 1933. "Meteor-Krater (Arizona)--Salzpfanne (Transvaal)--Steinheimer Becken" [Meteor Crater (Arizona)--Salzpfanne (Transvaal)--Steinheim Basin], Deutsche Geol. Gesell. Zeitschr. 85, 463-468.

- Ronnie, A., 1963. "Treasure in a Crater," Westways 55, 16-17.
- Rostoker, N., 1953. "The Formation of Craters by High-speed Particles," Meteoritics 1, 11-27.
- Russell, H.N., 1931. "Meteor Crater," Plateau (Museum of Northern Arizona publ.) 4, No. 3, 1-3.
- Russell, J.A., 1963. "Report of the Retiring President of the Meteoritical Society for the 1958-62 Term," Meteoritics 2, 1-6.
- Scheidegger, A.E., 1963. Principles of Geodynamics, 2nd ed., New York: Academic Press, 38ff, 327ff.
- Schmitt, R.A. and Rolsten, R.F., 1963. "A New Technique for Measuring the Residue of Hypervelocity Projectiles in Craters," Meteoritics 2, 65-66.
- Sclar, C.B., Short, N.M. and Cocks, G.C., 1968. "Shock-Wave Damage in Quartz as Revealed by Electron and Incident-light Microscopy," in Shock Metamorphism of Natural Materials, B. French and N.M. Short, eds., Baltimore, Md., Mono Book Corp., pp. 483-494.
- Seddon, G., 1970. "Meteor Crater, a Geological Debate," Geol. Soc. Australia Jour. 17, 1-11.
- Sellards, E.H., 1927. "Unusual Structural Features in the Plains Region of Texas," Geol. Soc. Amer. Bull. 38, 149.

- Shannon, E.V., 1928. "The oxidation of meteoric irons with comparative descriptions of two new examples of magnetic iron oxides from terrestrial sources," U.S. Nat'l. Museum Proc. 72, 1-15.
- Shannon, W.J., and Shannon, H.M., 1936. Camera Trails Through the Southwest, Moorfield and Shannon, Nutley, New Jersey; 112 pp.
- Sharp, R.P., 1967. "Speculations About the Earth," Calif. Inst. Tech. Quarterly, 9-15.
- Shoemaker, E.M., 1959. "Structure and Quaternary Stratigraphy of Meteor Crater, Arizona, in the Light of Shock-wave Mechanics" (abs.), Geol. Soc. Amer. Bull. 70, No. 12, pt. 2, 1748.
- Shoemaker, E.M., 1959. "Impact Mechanics at Meteor Crater, Arizona," prepared for the U.S. Atomic Energy Commission, Open File Report, July 1959, 55 pp.
- Shoemaker, E.M., 1960. "Penetration Mechanics of High Velocity Meteorites, Illustrated by Meteor Crater, Arizona," Internat'l. Geol. Cong., 21st, Copenhagen 1960, Rept., pt. 18, p. 418-434.
- Shoemaker, E.M., 1960. "Brecciation and mixing of rock by strong shock," U.S. Geol. Survey Prof. Paper 400-B, B423-B425.
- Shoemaker, E.M., and Eggleton, R.E., 1961. "Terrestrial Features of Impact Origin," Paper A in Part I of Cratering Symposium, Oct. 1961, pp. A-1-A-27.

- Shoemaker, E.M., and Chao, E.C.T., 1961. "New Evidence for the Impact Origin of the Ries Basin, Bavaria, Germany," J. Geophys. Res. 66, 3371-3378.
- Shoemaker, E.M., Gault, D., and Lugin, R., 1961. "Shatter Cones Formed by High Speed Impact in Dolomite," U.S. Geol. Survey Prof. Paper 424-D, D365-D368.
- Shoemaker, E.M., et al, 1963. "Hypervelocity Impact of Steel in Coconino Sandstone," Amer. J. Sci. 261, 668-682.
- Shoemaker, E.M., 1963. "Impact Mechanics at Meteor Crater, Arizona," pp. 301-336 of The Moon, Meteorites, and Comets--The Solar System, Vol. 4, B. Middlehurst and G.P. Kuiper, eds., Chicago, Illinois, the University of Chicago Press.
- Shoemaker, E.M., 1966. "When the Irresistable Force Meets the Immovable Object," Eng. and Sci. Mag. (Cal Tech), Feb. 1966, pp. 11-15.
- Short, N.M., 1966. "Shock Processes in Geology," J. of Geol. Ed. 14, 149-166.
- Sjogren, H., 1911. "Om Kratorn vid Canyon Diablo, Arizona" (On the Canyon Diablo Crater, Arizona), Svenska Vetensk.-akad. Handl., Stockholm Arsbok 1911, pp. 237-262.
- Skerrett, R.G., 1929. "Meteor Crater Again a Scene of Activity," Compressed Air Mag. 34, No. 6, 2773-2778; pt. 2, 2809-2813.

- Smythe, D.D., 1953. "Bear Creek Mining Company Report on Barringer Meteor Crater, Coconino County, Arizona." Privately mimeographed copy, San Francisco, Sept. 23, 1953.
- Spencer, L.J., 1932. "Meteorite Craters," Nature 129, 781-784.
- Spencer, L.J., 1933. "Meteorite Craters as Topographical Features on the Earth's Surface," The Geographical Journal (London), Vol. LXXXI, No. 3, pp. 227-248. (Meteor Crater references: pp. 228-230.)
- Spencer, L.J., 1933. "Discussion," Geogr. J. 81, 24-25. (Concerns an article by Philby.)
- Spencer, L.J., 1939. "Tektites and Silica Glass," Amer. Mineralogist 25, 154.
- Spurr, J.E., 1945. Geology Applied to Selenology, Science Press, Lancaster, Pa., 1945; Rumford Press, Concord, N.H., 1948, 2nd ed., 112 pp.
- Stocker, J., 1958. "Arizona's Wonderful Hole in the Ground," Arizona Days and Ways, Nov. 16, 1958, pp. 18 and 23.
- Stone, F.E., 1928. "Did the Meteor Crater Bounce Out?" Eng. Mining Jour. 126, 140.
- Strahler, A.N., 1944. "Valleys and Parks of the Kaibab and Coconino Plateaus, Arizona," J. Geol. 52, 361-387.
- Struve, O., 1956. "Meteorites and Their Effects," Sky and Telescope 15, 292-295.

- Struve, O., 1959. "The Making of the Barringer Meteorite Crater," Sky and Telescope 18, No. 4, 187-189. Also: 1965, in Neighbors of the Earth--Planets, Comets, and the Debris of Space, T. Page and L.W. Page, eds., Sky and Telescope Library of Astronomy, Macmillan Co., New York, pp. 226-228.
- Stutzer, O., 1936. "Der Meteor-Krater in Arizona" (The Meteor Crater in Arizona), Natur und Volk 66, No. 9, 442-453.
- Stutzer, O., 1936. "'Meteor Crater' (Arizona) und Nördlinger Ries" ['Meteor Crater (Arizona) and Nördlinger Ries'], Deutsche Geol. Gesell. Zeitschr. 88, 510-523. Discussion by E. Henning, A. Bentz, and Wilhelm Ahrens, pp. 588-591.
- Tallon, J., 1963. "Wonder From Out of Space," Arizona Days and Ways, Jan. 27, pp. 26-27.
- Thomas, K., 1924. "Exploring in Arizona for a Super Meteorite," Arizona Mining Jour. 8, No. 4, 16.
- Thomson, E., 1911. "Remarks on Meteor Crater," Ten-page typescript dated May 1, 1911.
- Thomson, E., 1912. "The Fall of a Meteorite," Proc. Amer. Acad. Arts and Sci. 47, No. 19, 721-733.
- Thomson, E., 1912. "A Hunt for a Great Meteor--The Commercial Possibilities at Stake," Sci. Amer. Supplement No. 1896, pp. 282-283. (Abs. of a letter delivered before the Amer. Inst. of Electrical Engineers; reproduced from the General Electric Review.)

- Thurmond, F.L., 1926. "Is There a Canyon Diablo Meteorite? Drilling Has Failed to Find Any in the Famous Arizona Crater," Eng. and Min. Jour. 122, No. 21, 817-818.
- Tilghman, B.C., 1906. "Coon Butte, Arizona," Proc. Acad. Nat. Sci. Phila. 57, 887-914.
- Tschirwinsky, P., 1931. "Über die Pseudometeor-Krater in Arizona und auf der Insel Oesel," Soc. Russe Mineralogie Mem., 2nd ser. 1, 135-144.
- Urey, H.C., 1956. "Diamonds, meteorites, and the origin of the solar system," Astrophys. Jour. 124, 623-637.
- Van Lopik, J.R., and Geyer, R.A., 1963. "Gravity and Magnetic Anomalies of the Sierra Madera, Texas, 'Dome'," Science 142, 45-47.
- Walton, M., 1959. "The Arizona Meteor Crater Controversy," Royal Astron. Soc. Canada J. 53, 162-171.
- Washburne, C.W., 1937. "Salt Domes, Meteor Craters, and Cryptovolcanic Structures," Bull. Amer. Assoc. Petrol. Geol. 21, 629-630.
- Watson, F., Jr., 1936. "Meteor Craters," Pop. Astron. 44, 2-17.
- Weber, R., 1965. "Au Meteor Crater," Astronomie 79, No. 5, 179-187.

- Wentorf, R.H., Jr., 1962. "Stishovite Synthesis," Jour. Geophys. Res. 67, 3648.
- Wilkins, J., Jr. and Sumner, J.S., 1968. "An Induced Polarization Survey of Meteor Crater, Arizona" (abs.), Am. Geophys. Union Trans. 49, No. 1, 272.
- Wilson, C.H., 1932. "Drilling Proves Existence of Meteoric Mass," Mining Jour. (Phoenix) 15, No. 23, 7.
- Wyatt, S.P., 1966. "Asteroids, Comets, and Meteors," Ch. 9 in Principles of Astronomy, Allyn and Bacon, Boston, 561 pp. (pp. 209-234).
- Wylie, C.C., 1933. "On the Formation of Meteoric Craters," Pop. Astron. 41, 211-214.
- Wylie, C.C., 1934. "Meteor Craters, Meteors, and Bullets," Pop. Astron. 42, 469-471.
- Wylie, C.C., 1943. "Calculations on the Probable Mass of the Object Which Formed Meteor Crater," Pop. Astron. 51, 97-99.
- Wylie, C.C., 1943. "Second Note on the Probable Mass of the Object Which Formed Meteor Crater," Pop. Astron. 51, 158-161.
- Wylie, C.C., 1943. "Applying Mine-crater Formulas to Meteor Crater in Arizona," Pop. Astron. 51, 220-222.

Zaslow, B. and Kellogg, L.M., 1961. "The Analysis of Metallic Spheroids from Meteor Crater, Arizona," Geochim. Cosmochim. Acta 24, 315-316.

Zimmerman, W.W., 1948. "The Non-Circularity of the Canyon Diablo, Arizona, Meteorite Crater," Pop. Astron. 56, 496-498.
Reprinted in Meteorit. Soc. Contr. 4, No. 2, 148-150.

**ANONYMOUS AND MISCELLANEOUS NON-TECHNICAL
ARTICLES, ARRANGED CHRONOLOGICALLY**

- Author unknown, 1891. "A Meteoric Crater," (Telegram to San Francisco Examiner, Tues., Dec. 1, 1891), Publ. Astron. Soc. Pacific 4, 37.
- Hunter, E.J., 1907. "Two Philadelphians' Long Hunt for World's Biggest Meteor," The Sunday Press, Philadelphia, Oct. 13, 1907.
- Author unknown, 1908. "The Big Scar at Coon Butte."
- Author unknown, 1908. "Meteor Crater Discovered by Philadelphians," Philadelphia Public Ledger, June 21, 1908, 23.
- Author unknown, 1908. "The Meteor Crater of Canyon Diablo," Knowledge. London, 31, 154-157.
- Barringer, D.M. and Tilghman, B.J., 1908. "That Meteor Crater." Letter dated July 19, 1908, to Editor of Philadelphia Public Ledger.
- Barringer, D.M., 1909. "Who First Explained Origin of Meteor Crater." Letter to Philadelphia Public Ledger March 8, 1909.
- Author unknown, 1909. "Meteoricky Krater u Cannon Diablo," Priroda, Brno. 8, 257-260.
- Author unknown, 1922. "Meteor Mountain Caused by Steam Blow," Coconino Sun, July 28, 1923.
- Author unknown, 1924. "Further explorations to be made at Meteor Mountain," Ariz. Mining Jour. 8, 14-16.

- Author unknown, 1924. "United States SR&M Co. Abandons Effort to Find Meteor," Eng. and Mining Journal-Press 118, 205.
- Author unknown, 1925. "The Meteor Crater of Arizona," Nature 115, 244-245.
- Author unknown, 1925. "The Eighth Wonder of the World. Science Finds a Meteor, 50 Times as Big as the Woolworth Building, Full of Diamonds and Priceless Minerals." Washington Herald-Times, Dec. 13, 1925, 5.
- Author unknown, 1925. "Mining for shooting stars (Meteor Crater, Arizona)," Eng. and Mining Journal-Press 120, 1001-1002.
- Author unknown, 1926. "Radio Camera Phone and its Inventor," Arizona Gazette, Phoenix, Arizona. Tuesday evening, Feb. 2, 1926, 1.
- Author unknown, 1926. "New Device Reported to Located Meteorite Near Winslow, Arizona," Eng. and Mining Jour. 121, 377.
- Author unknown, 1926. "Mining for Shooting-Stars," taken from the 1925 article. The Literary Digest for February 13, 1926.
- Author unknown, 1926. "Meteor Mining. Mystery of a Vast Crater." Daily Telegraph, Grimsby, England, March 11, 1926. Adaptation of article appearing in the Eng. and Mining Journal-Press. Same article appears 12 March 1926, in the Yorkshire Herald, York, England, under the title: "Embedded Meteor. Theories of a Great Mystery Crater."

Author unknown, 1926. "Meteor Mountain, Riddle of Science, One of Many Natural Wonders in Wonder Section Near Winslow." The Arizona Gazette, April 26, 1926, 7.

Author unknown (N.N. Dodge?), 1926. "The Most Interesting Spot on Earth," Literary Digest Vol. 90, No. 7, 21-22.

Barringer, D.M., Jr., 1926. "Meteor Crater in Northern Central Arizona." An Address delivered before the Harvard Club of Boston, Oct. 13, 1926.

Published in Scientific American 137, 1927, as "The Most Fascinating Spot on Earth (Meteor Crater, Arizona)," pp. 52-54, 144-146, and 244-246.

Author unknown, 1926. "Astronomy Supports Meteor Theory of Crater; Pit Not Caused by Explosion." Prescott Journal-Miner, Wednesday morning, Dec. 1, 1926, 6.

Author unknown, 1927. "Seek Fortune in Meteoric Iron in Hole." Prescott Journal-Miner, Sept. 6, 1927.

Author unknown, 1927. "Soon to Start Mining Meteor." Prescott Evening Courier, Friday, Dec. 2, 1927, 1-2.

Author/Newspaper unknown, 1927(28)? "Great Meteor in Southwest to be Mined. Weighs 10,000,000 Tons; Believed Worth \$500,000,000." U.P. release out of Winslow, Arizona.

Author unknown; Arizona newspaper, 1927(28)? "Meteorite is Estimated to Weigh Ten Million Tons and Assays Value of \$50. Per Ton," pp. 1 and 6.

- Author unknown, 1928. "Meteor to be Probed for Minerals, and Arizona Scents a New '49 Rush," New York Times, Aug. 7(?), 1928.
- Forshey, G., 1928. "Renewing the Search for the 'Flaming God' of the Navajos," St. Louis Post-Dispatch Supplement, Sunday, July 8, 1928, pp. 1-2 and 9.
- Author/Newspaper unknown, 1927(28)? "Mining Operations Started on Giant Barringer Meteor-- Estimated Weight Placed at Ten Million Tons-- Metal Valued at Fifty Dollars per Ton," p. 2.
- Author unknown, 1928. "Meteor Crater Shaft Now Down 140 Feet," Eng. and Mining Journal-Press 126, 350.
- Author unknown, 1928. "Black Gold from the Desert!" Arizona Gazette, Jan. 4, 1928.
- Linsley, E.G., Gressitt, J.F. and Walker, M.C. (Chabot Observatory Staff), 1928. "Where is the Meteor Crater? Do Astronomers Believe that this Depression is Due to a Meteor Striking the Earth?" The Oakland Tribune, May 6, 1928.
- Author unknown, 1929. "How the Biggest Falling Star Crashed to Earth," Philadelphia Inquirer Magazine, March 10, 1929, p. 5.
- Author unknown, 1929. "The Largest Meteors," Science 69, No. 1786 (March 22), xii.
- Author unknown, 1929. "Arizona Pit from the Air Resembles Craters of Moon. Picture Aids Theory That Meteorites Cause Huge Depressions," New York Times, pt. 9, p. 12, col. 7-8 (June 16, 1929).

- Author unknown, 1929. "Meteor Crater Shaft Hits Iron at 1400 Feet," Eng. and Mining Jour. 128, 484.
- International Geophysics, 1930. "Geophysical Survey of Meteor Crater for Meteor Crater Exploration and Mining Company." Summarized by J.J. Jakosky in 1932.
- Author unknown, 1930. "Meteor Crater," Science 72, 10.
- Moulton, F.R., 1930. "Swarm of Small Meteors as Cause of Vast Craters. The Fragments of a Single Exploded Body Are Now Said to Have Carved a Hole a Mile Wide," New York Times, pt. 10, p. 5, col. 7-8 (Nov. 23, 1930).
- Author unknown, 1930. "Meteor Swarm Produced Famous Crater," Sci. News Letter 18, 204.
- Author unknown, 1931. "Questioning Meteor Butte," New York Times, p. 16, col. 6 (Jan. 24, 1931).
- Author unknown, 1931. "Meteor Crater. Divergent Views," Jour. Roy. Astron. Soc. Canada 25, 130-131.
- Sutton, R., 1932. "When a Comet Struck the Earth-- And Wiped Out Civilization in Arizona!" L.A. Times Sunday Magazine, pp. 5 and 10, Nov. 20, 1932.
- Author unknown, 1933. "Meteor Crater Possibly 40,000-75,000 Years Old," Sci. News Letter 23, 73.

- Author unknown, 1934. "Meteorite Explosion May Have Formed Meteor Crater," Sci. News Letter 26, 292.
- Author unknown, 1936. "The Meteor Crater Adventure," Scientific American 146, 363-364.
- Barnes, W.C., 1936. The Meteor Crater, 9 pp.
- Barnes, W.C., 1936. Lost, Strayed or Stolen, the Story of Meteor Crater, 22 pp.
- Author unknown, 1938. "In the Realm of Science: A Mine Down Deep in Meteor Crater? Science of Geophysics Presents Signs of Vast Buried Deposits," New York Herald Tribune, Sunday, Feb. 13, 1938.
- Author unknown, 1938. "Iron Masses Under Meteor Crater Shown Magnetically," Science News Letter 33, 134.
- Author unknown, 1939. "No Heavenly Metal in Arizona's Meteor Crater," Science News Letter 36, 169.
- Author unknown, 1939. "Metal Declared to Exist Beneath Meteor Crater," Science News Letter 36, 232.
- Author unknown; Winslow, Arizona newspaper, 1940's. "Meteor Crater (May) Be Rich Metal Deposit--Scientific Interest Renewed as Defense Metal Necessary," pp. 1 and 6.
- Author unknown, 1942. "Meteor Crater and Petrified Forest," Pop. Astron. 50, 520-521.
- Author unknown, 1946. "Meteor Crater an Imposter?" Desert Magazine 9, 25.

- Levitt, T.M., 1949. "Finding Meteoric Treasure Time (Trove?)" Everybody's Weekly Philadelphia Inquirer, July 10, 1949.
- MacTaggart, K.W., 1950. "World's Largest Meteor Crater Found in Canada," Toronto Globe and Mail, August 7, 1950.
- Hill, G., 1956. "Where the Meteor Scarred Arizona's Desert," New York Times, Jan. 29, 1956.
- Author unknown, 1956. "At Barringer Meteorite Crater," Sky and Telescope 16, No. 1, p. 21.
- Author unknown, 1958. "Arizona Meteorite Crater," Nature 181, No. 4626, p. 1777.
- Buddhue, J.D., about 1960. "The Age of the Barringer Meteorite Crater." 4-page paper.
- Gilvarry, J.J., 1961. "How the Sky Drove the Land from the Bottom of the Sea," Saturday Review, Nov. 4, 1961, 53-58.
- Author unknown, 1963. "Treasure in an Arizona Crater--Natural Wonder in the West is Visitor from Outer Space," Wisconsin AAA Motor News, April 1963, pp. 4 and 6.
- Von Blon, J.L., 1963. "Meteor's Scar on Desert of Arizona Now World Wonder--Imbeds its Great Metallic Head Far into Earth," Dearborn Independent, Sept. 8, 1963, pp. 11 and 14.
- Author unknown, 1964. "Meteor Crater Birth Signaled by Big Bang," Arizona Daily Star, Tucson, Nov. 8, 1964.

- Boschke, F.L., 1965. "Erde von anderen Sternen--
Der Flug der Meteorite," Econ-Verlag, 108,
111, 142.
- Sitter, A.J., 1966. "By Heaven, It's Big Hole,"
Arizona Republic (Phoenix), June 14, 1966.
- Author unknown, 1966. "On the History of the
Ownership of Meteor Crater," Arizona Republic
(Phoenix), June 14, 1966.
- Lane, F.W., 1966. "Stones from the Sky," Grit
Family Section, August 14, 1966.
- Regan, R.D., 1967. "Preliminary Geophysical Re-
port on Selected Geologic Test Sites." Pre-
pared by the U.S. Geological Survey for NASA,
May 1967.
- Murphy, P., 1969. "A Philadelphia Family's Gi-
gantic Hole in the Desert," and "The Fortune
that Crashed in the Desert," Sunday Bulletin
Magazine, Philadelphia, January 5, 1969, pp.
6-7.
- Author unknown, 1969. "Moon Crater--And Ours."
Comparative photographs. Washington Post,
Friday, May 30, 1969, p. 1.
- Author unknown, 1969. "What Caused the Grand
Canyon." Philadelphia Inquirer, May 11, 1969
(Comic section).
- Rensberger, B., 1969. "Life on the Moon? May-
be a Billion Years Ago." Miami Herald, July
13, 1969.

PAMPHLETS

The Great Meteor Crater of Arizona, Winslow Mail.

Visit Arizona's Dramatic Meteor Crater, Northland Press.

Meteor Crater--Arizona's Famous Natural Laboratory. Meteor Crater Enterprises, Inc. (Brochure distributed to public at the Crater.)

DATE UNKNOWN

"New Mexico U. Wins 'Meteor Crater' Rights,"
The Denver Post, Jan. 4.

"Friction in Meteoritical Research--Mineral Society Queries 'Exclusive Rights' to Arizona's Meteor Crater," Colorado Mineral Society--Guest Editorial of unknown newspaper. Written as an open letter to Dr. Lincoln LaPaz of the University of New Mexico.

"Meteor Shaft Contract Let," unknown Arizona newspaper, pp. 1 and 7.

"Millions of Meteorites Burn Daily--Only Two a Year Reach Earth's Surface, American Philosophical Club Told," unknown newspaper. AP night wire out of Philadelphia, April 24.

"Seek End of Rainbow at Famous Meteor Mountain New Corporation Starts," unknown newspaper.

"Arizona's Meteor Crater," Main Line Times, Ardmore, Pennsylvania.

Zipf, M. Library of Arizona's Treasures. Phoenix: Arizona Development Board, 36 pp.

CHRONOLOGICAL INDEX

CHRONOLOGICAL INDEX

1891	
Foote, A.E.	15
Gilbert, G.K.	16
1892	
Foote, A.E.	16
Gilbert, G.K.	17
1895	
Derby, O.A.	12
1896	
Gilbert, G.K.	17
1904	
Munk, J.A.	31
1905	
Barringer, D.M.	3
Darton, N.H.	12
1906	
Barringer, D.M.	3
Blake, W.P.	7
Farrington, O.C.	15
Fletcher, L.A.	15
Tilghman, B.C.	43
1907	
Fairchild, H.L.	15
Guild, F.N.	18
Lee, W.T.	26
Merrill, G.P.	29

CHRONOLOGICAL INDEX

1908	
Mallet, J.W.	27
Merrill, G.P.	29
Müller, L.	31
1909	
Barringer, D.M.	3
Hastings, J.B.	19
Hennig, E.	20
Meinecke, F.	29
Merrill, G.P.	29
Pickering, W.H.	35
1910	
Barnes, W.C.	2
Darton, N.H.	12
Davison, J.M.	12
Keyes, C.R.	23
Magie, W.F.	27
1911	
Amer. J. of Sci.	2
Keyes, C.R.	23
Mulder, M.E.	31
Sjogren, H.	40
Thomson, E.	42
1912	
Thomson, E.	42
1913	
Margerie, E.	28
Niermeyer, J.F.	31
1914	
Barringer, D.M.	3
1915	
Darton, N.H.	12

CHRONOLOGICAL INDEX

1916	
Barringer, D.M.	4
Darton, N.H.	12
1920	
Boot, D.H.	8
Campbell, W.W.	10
Merrill, G.P.	29
1922	
Keyes, C.R.	23
1924	
Barringer, D.M.	4
Thomas, K.	42
1925	
Holland, L.F.S.	21
Kulik, L.A.	24
1926	
Barringer, D.M.	4
Hager, D.	18
Minhinnick, H.J.	30
Thurmond, F.L.	43
1927	
Barringer, D.M., Jr.	4
Magie, W.F.	27
Sellards, E.H.	38
1928	
Barringer, D.M., Jr.	4
Boutwell, W.D.	8
Robie, E.H.	37
Rogers, A.F.	37
Shannon, E.V.	39
Stone, F.E.	41

CHRONOLOGICAL INDEX

1929

Brady, L.F.	8
Fairchild, H.L.	15
Moulton, F.R.	30
Skerrett, R.G.	40

1930

Fairchild, H.L.	15
Lassovsky, K.	26
Moulton, F.R.	52
Rogers, A.F.	37

1931

Barringer, D.M., Jr.	4
Brady, L.F.	8
Crowther, J.G.	11
Dellenbaugh, F.S.	12
Longwell, C.R.	27
Russell, H.N.	38
Tschirwinsky, P.	43

1932

Alford, A.	2
Blackwelder, E.	7
Dublin, J.	14
Flammarion, G.C.	15
Jakosky, J.J.	22
Spencer, L.J.	41
Wilson, C.H.	44

1933

Brown, F.M.	9
Heide, F.	20
Jones, O.T.	22
Nininger, H.H.	32
Rohleder, H.P.T.	37
Spencer, L.J.	41
Wylie, C.C.	44

CHRONOLOGICAL INDEX

1934

Barnes, W.C.	3
Clayton, P.A.	11
Fisher, C.	15
Wylie, C.C.	44

1936

Boon, J.D.	7
Colvocoresses, G.M.	11
Fisher, C.	15
Öpik, E.J.	35
Richter, R.	36
Shannon, W.J.	39
Stutzer, O.	42
Watson, F., Jr.	43

1937

Albritton, C.C., Jr.	2
Bingham, W.F.	6
Boon, J.D.	7
Kranz, W.	23
Locke, H.	27
Madigan, C.T.	27
Washburne, C.W.	43

1938

Barringer, D.M., Jr.	4
Bartlam, E.R.	5
Boon, J.D.	7,8
Brady, L.F.	8
Claffey, P.	11
Kranz, W.	23
Kutscher, M.	24
Lundberg, H.	27
Nininger, H.H.	32
Rayner, J.M.	36

CHRONOLOGICAL INDEX

1939

Henderson, E.P.	20
Hodge-Smith, T.	21
Ksanda, C.J.	24
Nininger, H.H.	32
Spencer, L.J.	41

1940

Landberg, T.F.H.	24
Nininger, H.H.	32

1941

Monnig, O.E.	30
----------------------	----

1942

Boon, J.D.	8
Hack, J.T.	18
Leonard, F.C.	26
Locke, H.	27
Nininger, H.H.	32

1943

Amer. Astron. Report	2
Hoffleit, D.	21
LaPaz, L.	25
Nininger, H.H.	32
Wylie, C.C.	44

1944

Strahler, A.N.	41
------------------------	----

1945

Buddhue, J.D.	9
Darton, N.H.	12
Spurr, J.E.	41

CHRONOLOGICAL INDEX

1946

Blackwelder, E.	7
Dietz, R.S.	13
Fisher, G.C.	15
Leonard, F.C.	26
Lewis, W.S.	26
Newton, A.M.	31

1947

Daly, R.A.	12
LaPaz, L.	25
Nininger, H.H.	32

1948

Brentlinger, C.M.	8
Buddhue, J.D.	9
Grant, C.	17
Henderson, E.P.	20
Hoffleit, D.	21
Holmes, C.H.	21
LaPaz, L.	25
McKelvey, N.	28
Nininger, H.H.	32
Zimmerman, W.W.	45

1949

Baldwin, R.B.	2
Hager, D.	18
Hoffleit, D.	21
Nininger, H.H.	33
Reeves, F.	36

CHRONOLOGICAL INDEX

1950

Buddhue, J.D.	9
Geze, B.	16
Guppy, D.J.	18
Krinov, E.L.	24
LaPaz, L.	25
Leonard, F.C.	26
MacTaggart, K.W.	54
Meen, V.B.	28
Meyerhoff, H.	30
Nininger, H.H.	33
Rinehart, J.S.	36

1951

Janssen, C.L.	22
Leonard, F.C.	26
Nininger, H.H.	33

1952

Cotton, C.A.	11
Kelly, A.O.	22
Meen, V.B.	28
Nininger, H.H.	33

1953

Blackwelder, E.	7
Foster, G.E.	16
Hager, D.	18
Harding, N.	19
Hardy, C.T.	19
Hoffleit, D.	21
Karpoff, R.	22
Kelly, A.O.	23
Kreins, E.R.	23
Nininger, H.H.	33, 34
Rostoker, N.	38
Smythe, D.D.	41

CHRONOLOGICAL INDEX

1954

Cassidy, W.A.	10
Hager, D.	18
Harding, N.	19
Hardy, C.T.	19
Hendricks, E.E.	20
LaPaz, L.	25
Namba, M.	31
Nininger, H.H.	34

1955

Dodge, N.N.	14
Foster, G.E.	16
Hoffleit, D.	21
Leonard, F.C.	26

1956

Beals, C.S.	5
Nininger, H.H.	34
Struve, O.	41
Urey, H.C.	43

1957

Brereton, R.G.	8
Foster, G.E.	16
Hoffleit, D.	21
Innes, M.J.S.	22
Meen, B.	28
Merriam, R.	29
Rinehart, J.S.	36

1958

Alexander, E.C., Jr.	2
Barringer, D.M., Jr.	4
Dolezal, E.	14
Gentieu, N.P.	16
LaPaz, L.	26
Opik, E.J.	35
Rinehart, J.A.	36, 37
Stocker, J.	41

CHRONOLOGICAL INDEX

1959

Beals, C.S.	5
Dietz, R.S.	13
Heald, W.F.	20
Krinov, E.L.	24
Norton, O.R.	34
Shoemaker, E.M.	39
Struve, O.	42
Walton, M.	43

1960

Beals, C.S.	5
Chao, E.C.T.	10
Dietz, R.S.	13
Johnson, G.W.	22
Krinov, E.L.	24
Millman, P.M.	30
Nininger, H.H.	34
Pecora, W.T.	35
Shoemaker, E.M.	39

1961

Bjork, R.L.	6
Cohee, G.V.	11
Dickey, D.D.	12
Dietz, R.S.	13
Gilvarry, J.J.	17
Hawkins, G.S.	19
LaPaz, L.	26
Nordyke, M.D.	34
Opik, E.J.	35
Shoemaker, E.M.	39,40
Zaslow, B.	45

CHRONOLOGICAL INDEX

1962

Almor, F.	2
Chao, E.C.T.	10
Dietz, R.S.	13
Krinov, E.L.	24
Mason, B.	28
Roach, C.H.	37
Wentorf, R.H., Jr.	44

1963

Baldwin, R.B.	2
Barringer, R.W.	5
Beals, C.S.	5
Dietz, R.S.	13
Fredriksson, K.	16
Kranck, S.H.	23
Mead, C.W.	28
Monod, T.	30
Nekrasov, I.A.	31
Nininger, H.H.	34
Ronnie, A.	38
Russell, J.A.	38
Scheidegger, A.E.	38
Schmitt, R.A.	38
Shoemaker, E.M.	40
Tallon, J.	42
Van Lopik, J.R.	63

1964

Barringer, B.	3
Barringer, D.M.	4
Beals, C.S.	5,6
Bunch, T.E.	9
Carter, N.L.	10
Cook, C.S.	11
Dietz, R.S.	14
Fahey, J.J.	14
Foster, G.E.	16

(cont'd.)

CHRONOLOGICAL INDEX

1964 (cont'd.)

Halliday, I.	19
Hawkins, G.S.	19
Heide, F.	20
Heymann, D.	20
Innes, M.J.S.	22
Lafond, E.	24
Prouty, R.	35

1965

Beals, C.S.	6
Bledsoe, J.D.	7
Brereton, R.G.	8
Butler, C.P.	9
Carter, N.L.	10
Dietz, R.S.	14
Godson, R.H.	17
Hall, R.A.	18, 19
Lipschutz, M.E.	27
McCall, G.J.H.	28
Mead, C.W.	28
Moore, C.B.	30
O'Connell, E.	35
Oriti, R.A.	35
Roberts, W.A.	37
Weber, R.	43

1966

Ayer, N.J., Jr.	2
Beaty, J.J.	6
Carter, N.L.	10
Chao, E.C.T.	11
Enever, J.E. (date approximate)	14
Hey, M.H.	20
Heymann, D.	20
Krinov, E.L.	24
Shoemaker, E.M.	40
Short, N.M.	40
Wyatt, S.P.	44

CHRONOLOGICAL INDEX

1967

Barringer, B.	3
Barringer, R.W.	5
Bennett, J.H.	6
Bennett, M.A.	6
Brett, R.	8
Chao, E.C.T.	11
Kildare, M.	23
Moore, P.	30
Regan, R.D.	36
Sharp, R.P.	39

1968

Brett, R.G.	9
Crowson, H.L.	11
Mehlin, T.G.	29
Petrillo, B.	35
Roberts, W.A.	37
Sclar, C.B.	38
Wilkins, J., Jr.	44

1969

Buseck, P.R.	9
Dake, H.C.	12
Freeberg, J.H.	16
Greenwood, W.R.	17
Hargraves, R.B.	19
Langewiesche, W.	25
McCauley, J.F.	28
Radcliffe, S.V.	36

1970

Hodge, P.W.	20
McCall, G.J.H.	28
Murray, J.B.	31
Seddon, G.	38

CHRONOLOGICAL INDEX

1971

Crowson, H.L.	11
Holmes, P.	21
Millman, P.M.	30
Nininger, H.H.	34
Reger, R.D.	36

1972

Mutch, T.A.	31
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PUBLICATIONS BY THE CENTER FOR METEORITE STUDIES

Title	Author[s]	Year
1. Researches on Meteorites*	Carleton B. Moore (Editor)	1962
2. Catalog of Meteorites, Arizona State University*	Carleton B. Moore and Charles F. Lewis	1964
3. Terrestrial and Lunar Flux of Large Meteorites Through Solar System History*	William K. Hartmann	1966
4. Xenomalies*	Marvin W. Rowe	1967
5. The Petrology of Chondritic Meteorites in the Light of Experimental Studies	John W. Larimer	1967
6. Microtektites and the Origin of the Australasian Tektite Strewn Field	Billy P. Glass	1968
7. The Austenite-Ferrite Transformation (Tables relating the Widmanstätten angles in iron meteorites to the plane of section)*	V. F. Buchwald	1968
8. Accretion of Murray Carbonaceous Chondrite and Implications Regarding Chondrule and Chondrite Formation	Donald P. Elston	1969
9. The Published Papers of H. H. Nininger, Biology and Meteoritics	George A. Boyd (Editor)	1971
10. Catalog of Meteorites in the Collections of Arizona State University	Marilyn L. Karr, Charles F. Lewis and Carleton B. Moore	1970
11. Particle Track Studies and the Origin of Gas-Rich Meteorites*	Laurel L. Wilkening	1971
12. Meteors and Meteorites in the Ancient Near East	Judith K. Bjorkman	1973
13. Identification of Meteorites	Carleton B. Moore and Paul P. Sipiera	1975
14. Catalog of Meteorites in the Collections of Arizona State University	Charles F. Lewis and Carleton B. Moore	1976
15. A Checklist of Published References to Barringer Meteorite Crater, Arizona 1891-1970	Diana J. Briley and Carleton B. Moore	1976

*Out of print.

