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STATE OF MISSOURI

Department of Business and Administration

Division of

GEOLOGICAL SURVEY AND WATER RESOURCES

WILLIAM C. HAYES, *State Geologist and Director*

Rolla, Missouri

STATE OF MISSOURI

WARREN E. HEARNES, *Governor*

DEPARTMENT OF BUSINESS AND ADMINISTRATION

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Water Resources Division: Anthony Homyk, *District Chief*

* Certified Professional Geologist by the American Institute of Professional Geologists

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LETTER OF TRANSMITTAL

Rolla, Missouri
May 30, 1967

Honorable WARREN E. HEARNES
Governor of Missouri
Jefferson City, Missouri

Dear Governor Hearnese:

I have the honor and pleasure to transmit herewith the BIBLIOGRAPHY OF THE GEOLOGY OF MISSOURI, 1955-1965, by Jerry D. Vineyard, John W. Koenig, and Bonnie L. Happel.

This compilation, which lists publications that have appeared in the ten year interval since the cumulative bibliography published by the Survey in 1956, contains several pre-1956 titles which were not formerly included.

Experience has shown that a work of this type is of the utmost value to those interested in the mineral resources and geology of the State. For the purposes of economic development and academic research it provides a quick and accurate reference, to all the current published and unpublished information, pertaining to the State's geology and associated natural resources.

Respectfully submitted,

William C. Hayes
State Geologist and Director

INTRODUCTION

This bibliography lists published and unpublished literature pertaining to the geology of Missouri, including works which have appeared during the ten-year period 1956 through 1965. It also contains several pre-1956 titles which were not included in previous cumulative bibliographies.

Although an effort has been made in this and in previous bibliographies to incorporate the title of every paper pertaining to the geology of Missouri that has appeared in the last ten years, some have undoubtedly been overlooked. If an omission is noted, the missing publication should be brought to the attention of the Missouri Geological Survey so that it may be included in future listings.

This volume incorporates all of the entries of the "Bibliography of the Geology of Missouri, 1955-1960" (Missouri Geological Survey Information Circular No. 16), and all of the annual bibliographies that have appeared since 1960, as well as the new entries for 1965. It supplements and expands the cumulative bibliographies published in 1945, as Volume 31, and in 1956, as Volume 38.

John W. Koenig served as editor of the annual "Bibliography of the Geology of Missouri" from 1955 through 1962; he also edited the five-year cumulative bibliography published in 1961. Jerry D. Vineyard became editor of the annual bibliography in 1963, and the present cumulative ten-year listing was prepared under his direction. Mrs. Bonnie L. Happel collated the ten annual listings into a coherent whole, and supervised the typing of the manuscript.

The editors wish to thank the many librarians who have assisted in the preparation of this bibliography during the past ten years. Acknowledgments are especially due to the following institutions for the availability of their libraries and the generous assistance of their librarians: The Geology Library, University of Missouri at Columbia; Library, University of Missouri at Rolla; Geology Library, Washington University, St. Louis, Missouri; and Pius XII Memorial Library, St. Louis University, St. Louis, Missouri.

ABBREVIATIONS

Acad.—academy	Gaz.—gazette
Adj.—adjourned	gen.—genus
Adv.—advancement	Geog.—geographic; geographical
Agri.—agriculture; agricultural	Geol.—geological
Am.—American	Geophys.—geophysical
Ann.—annual	Hist.—history; historical
app.—appendix	illus.—illustrated
apps.—appendices	ills.—illustrations
approx.—approximate; approxi- mately	incl.—including
Assoc.—association	ind.—industrial
Bibl.—bibliography	Inf.—information
Bienn.—biennial	Inst.—institute
Bot.—botanical	Internatl.—international
Bull.—bulletin	Inv.—investigations
Bur.—bureau	Jahrb.—jahrbuch
Can.—Canadian	Jour.—journal
Chem.—chemical	Knowl.—knowledge
Circ.—circular	Mag.—magazine
Co.—company	Mem.—memoir
Col.—collection	Met.—metallurgy; metallurgical
Coll.—college	Min.—mining
Comm.—commercial	Misc.—miscellaneous
Comp.—comparative	ms.—manuscript
Conf.—conference	Mtg.—meeting
Cong.—congress	Mus.—museum
Contr.—contribution	Nat.—natural
Conv.—convention	Natl.—national
Corp.—corporation	no.—number
Dept.—department	nos.—numbers
diss.—dissertation	occas.—occasional
Doc.—document	opp.—opposite
Econ.—economic	Pan-Am.—Pan-American
ed.—edited; edition	Philos.—philosophical
Eng.—engineers; engineering	Phys.—physical
Engl.—England	pl.—plate
etc.—et cetera	pls.—plates
et seq.—et sequens	Pop.—popular
Ex.—executive	portr.—portrait
Exp.—experiment; experimental	p.—page
fasc.—fasciculus	pp.—pages
fig.—figure	Prest.—presented
figs.—figures	Priv.—private
fol.—folio	Proc.—proceedings
fold.—folded	Prof.—professional
front.—frontispiece	pt.—part
	pts.—parts

Pub.—publication
Quart.—quarterly
Reg.—regents
Rept.—report
Rev.—review
Sci.—science
Seismol.—seismological
Sen.—senate
ser.—series
sess.—session
Soc.—society
sp.—species

Speleol.—Speleological
Sta.—station
Summ.—summary
Suppl.—supplement
t.—tomus
Tech.—technical
Top.—topographic
Trans.—transactions
Univ.—university
U.S.—United States
vol.—volume

SERIALS

The following list gives both the abbreviated citation and the full name of periodicals and serials that have been most commonly cited in the bibliography. A few of the less common ones have not been included. Guidebooks and associated articles are listed in the bibliography under the names of the editors, authors, or sponsoring societies along with full information but are not included in this list.

- Agri. Eng.—Agricultural Engineering. St. Joseph, Michigan.
- Am. Assoc. Adv. Sci., Program and Abstracts—American Association for the Advancement of Science, Program and Abstracts. Washington, D.C.
- Am. Assoc. Petroleum Geologists Bull.—American Association of Petroleum Geologists Bulletin. Tulsa, Oklahoma.
- Am. Ceramic Soc. Bull.; Jour.—American Ceramic Society, Bulletin; Journal. Columbus, Ohio.
- Am. Geol. Inst., GeoScience Abstracts—American Geological Institute, GeoScience Abstracts. Washington, D.C.
- Am. Geophys. Union Trans.—American Geophysical Union Transactions. Washington, D.C.
- Am. Inst. Min. Eng. Trans.; Abstracts of Tech. Papers; Min. Technology—American Institute of Mining and Metallurgical Engineers Transactions; Abstracts of Technical Papers; Mining Technology. New York, New York.
- Am. Jour. Botany—American Journal of Botany. Baltimore, Maryland.
- Am. Jour. Sci.—American Journal of Science. New Haven, Connecticut.
- Am. Mineralogist—American Mineralogist. Ann Arbor, Michigan.
- Am. Mus. Nat. Hist. Novitates—American Museum of Natural History Novitates. New York, New York.
- Assoc. Am. Geographers Annals—Association of American Geographers Annals. Lawrence, Kansas.
- Bibliography of Geology Theses. Denver, Colorado.
- Bull. Am. Paleontology—Bulletins of American Paleontology. Ithaca, New York.
- Chemical and Eng. News—Chemical and Engineering News. Easton, Pennsylvania.
- Colorado School of Mines Quart.—Colorado School of Mines Quarterly. Golden, Colorado.
- Earth Sci.—Earth Science. Chicago, Illinois.
- Earth Sci. Digest—Earth Science Digest. Revere, Massachusetts.
- Earthquake Notes. Washington, D.C.
- Econ. Geology—Economic Geology. Urbana, Illinois.

- Eng. Min. Jour.—Engineering and Mining Journal. New York, New York.
- Excavating Eng.—Excavating Engineer. South Milwaukee, Wisconsin.
- Fieldiana Geology. Chicago Natural History Museum, Chicago, Illinois.
- Field Operations, Bur. of Soils, U. S. Dept. of Agri.—Field Operations, Bureau of Soils, United States Department of Agriculture. Washington, D. C.
- Gems and Minerals. Mentone, California.
- Geol. Soc. America Bull.; Special Paper; Abstracts, Program Ann. Mtgs.—Geological Society of America Bulletin; Special Paper; Abstracts, Program Annual Meetings. New York, New York.
- Geophysics. Tulsa, Oklahoma.
- Illinois State Acad. Sci. Trans.—Illinois State Academy of Science Transactions. Springfield, Illinois.
- Illinois State Geol. Survey Bull.; Circ.; Rept. Inv.—Illinois State Geological Survey Bulletin; Circular; Report of Investigations. Urbana, Illinois.
- Iowa Acad. Sci. Proc.—Iowa Academy of Science Proceedings. Des Moines, Iowa.
- Jour. Am. Zinc Inst.—Journal American Zinc Institute. New York, New York.
- Jour. Geology—Journal of Geology. Chicago, Illinois.
- Jour. Electrochemical Soc.—Journal of the Electrochemical Society. Baltimore, Maryland.
- Jour. Metals—Journal of Metals. New York, New York.
- Jour. Missouri Water and Sewerage Conf.—Journal of the Missouri Water and Sewerage Conference. Jefferson City, Missouri.
- Jour. Paleontology—Journal of Paleontology. Tulsa, Oklahoma.
- Jour. Petroleum Technology—Journal of Petroleum Technology. Dallas, Texas.
- Jour. Sed. Petrology—Journal of Sedimentary Petrology. Menasha, Wisconsin.
- Kansas Acad. Sci. Trans.—Kansas Academy of Science Transactions. Lawrence, Kansas.
- Kansas State Geol. Survey Bull.; Rept.—Kansas State Geological Survey Bulletin; Report. Lawrence, Kansas.
- Kansas Univ. Paleontological Contr.—Kansas University Paleontological Contributions. Lawrence, Kansas.
- Micropaleontology. American Museum of Natural History. New York, New York.
- Mineral Industries. College of Mineral Industries, Pennsylvania State University. University Park, Pennsylvania.
- Mineral Abstracts. London, England.
- Min. and Met. Soc. America—Mining and Metallurgical Society of America. New York, New York.
- Min. Cong. Jour.—Mining Congress Journal. Washington, D. C.
- Min. Eng.—Mining Engineering. New York, New York.
- Min. World—Mining World. San Francisco, California.

- Missouri Archaeological Soc. Mem.—Missouri Archaeological Society Memoir. Columbia, Missouri.
- Missouri Archaeologist. Columbia, Missouri.
- Missouri Bot. Garden Bull., Annals—Missouri Botanical Garden Bulletin, Annals. St. Louis, Missouri.
- Missouri Engineer. Jefferson City, Missouri.
- Missouri Geol. Survey and Water Resources, Vol.; Inf. Circ.; Rept. Inv.;—Missouri Geological Survey and Water Resources, Volume; Information Circular; Report of Investigations. Rolla, Missouri.
- Missouri Hist. Rev.—Missouri Historical Review. Columbia, Missouri.
- Missouri Speleology. Missouri Speleological Survey. Jefferson City, Missouri.
- Missouri Univ. Agri. Exp. Sta. Research Bull.—Missouri University Agricultural Experimental Station Research Bulletin. Columbia, Missouri.
- Missouri Univ. Arts and Sci. Ser. Bull.; Studies—Missouri University Arts and Science Series Bulletin, Studies. Columbia, Missouri.
- Missouri Univ. Eng. Exp. Sta. Bull.—Missouri University Engineering Experimental Station Bulletin. Columbia, Missouri.
- Missouri Univ. School of Mines and Met. Bull.; Tech. Ser.—Missouri University School of Mines and Metallurgy Bulletin; Technical Series. Rolla, Missouri.
- Natl. Geographic Mag.—National Geographic Magazine. Washington, D. C.
- Natl. Research Council, Division of Geology and Geography, Ann. Rept.—National Research Council, Division of Geology and Geography, Annual Report. Washington, D. C.
- Natl. Speleol. Soc. Bull.; News—National Speleological Society Bulletin; News. Arlington, Virginia.
- Oil and Gas Jour.—Oil and Gas Journal. Tulsa, Oklahoma.
- Oklahoma Acad. Sci. Proc.—Oklahoma Academy of Science Proceedings. Norman, Oklahoma.
- Oklahoma Geol. Survey Bull.; Circ.—Oklahoma Geological Survey Bulletin; Circular. Norman, Oklahoma.
- Oklahoma Geology Notes. Norman, Oklahoma.
- Pit and Quarry. Chicago, Illinois.
- Pop. Astronomy—Popular Astronomy. Northfield, Minnesota.
- Rocks and Minerals. Peekskill, New York.
- Rock Products. Chicago, Illinois.
- Science. Lancaster, Pennsylvania.
- Sci. Monthly—Scientific Monthly. Washington, D. C.
- Seismol. Soc. America Bull.—Seismological Society of America Bulletin. Berkeley, California.
- Skillings Min. Rev.—Skillings Mining Review. Duluth, Minnesota.
- Smithsonian Inst., Exploration and Fieldwork—Smithsonian Institution, Exploration and Fieldwork. Washington, D. C.
- Smithsonian Misc. Collections—Smithsonian Miscellaneous Collections. Washington, D. C.

- Soil Sci.—Soil Science. Baltimore, Maryland.
- Soil Sci. Soc. America Proc.—Soil Science Society of America Proceedings. Danville, Illinois.
- State Geologist's Jour.—State Geologist's Journal. San Francisco, California.
- Tennessee Division of Geology Rept. Inv.—Tennessee Department of Conservation, Division of Geology Report of Investigations. Nashville, Tennessee.
- Tulsa Geol. Soc. Digest—Tulsa Geological Society Digest. Tulsa, Oklahoma.
- U. S. Army, Corps of Engineers Tech. Rept.—United States Army, Corps of Engineers Technical Report. Washington, D. C.
- U. S. Bur. Mines Bull.; Inf. Circ.; Materials Survey; Mineral Industry Surveys; Minerals Yearbook; Rept. Inv.—United States Bureau of Mines Bulletin; Information Circular; Materials Survey; Mineral Industry Surveys; Minerals Yearbook; Report of Investigations. Washington, D. C.
- U. S. Dept. Agri. Ser.—United States Department of Agriculture Series. Washington, D. C.
- U. S. Dept. of Commerce, Coast and Geodetic Survey, Serial—United States Department of Commerce, Coast and Geodetic Survey, Serial. Washington, D. C.
- U. S. Geol. Survey Bull.; Circ.; Index to Geol. Mapping U. S.; Prof. Paper; Oil and Gas Inv. Map.; Trace Elements Inv.; Water Supply Paper—United States Geological Survey Bulletin; Circular; Index to Geological Mapping in the United States; Oil and Gas Investigations Map; Professional Paper; Trace Elements Investigations; Water-Supply Paper. Washington, D. C.
- Union Electric Mag.—Union Electric Magazine. St. Louis, Missouri.
- Uranium Inf. Digest—Uranium Information Digest. Grand Junction, Colorado.
- Washington Acad. Sci. Jour.—Washington Academy of Sciences Journal. Washington, D. C.
- Washington University Studies, Scientific Series. St. Louis, Missouri.
- Water Well Jour.—Water Well Journal. Urbana, Illinois.
- Water Resources Research—American Geophysical Union. Washington, D. C.

BIBLIOGRAPHY

Abernethy, R. F. Refer to Aresco, S. J.

Adams, James W.

1. Rocks of the Precambrian basement and those immediately overlying it in Missouri and parts of adjacent states: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1959.

Aero Service Corporation

1. Aeromagnetic map of Ash Grove Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1962.
2. Aeromagnetic map of Fair Play Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1962.
3. Aeromagnetic map of Greenfield Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1962.
4. Aeromagnetic map of Hermitage Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1962.
5. Aeromagnetic map of Macks Creek Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1962.
6. Aeromagnetic map of Stockton Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1962.
7. Aeromagnetic map of Stockton 1 Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1962.
8. Aeromagnetic map of Stockton 2 Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1962.
9. Aeromagnetic map of Stoutland Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1962.
10. Aeromagnetic map of Urbana Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1962.
11. Aeromagnetic map of Eugene Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1965.

12. Aeromagnetic map of Iberia Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1965.
13. Aeromagnetic map of Linn Creek Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1965.
14. Aeromagnetic map of Little Niangua Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1965.
15. Aeromagnetic map of Richland Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1965.
16. Aeromagnetic map of Tavern ($W\frac{1}{2}$) Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1965.
17. Aeromagnetic map of Warsaw Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1965.

Algermissen, Sylvester T.

1. Resistivity measurements over flint clay deposits: unpublished Masters thesis, St. Louis Univ., St. Louis, Missouri, 1955.
2. Gravity survey of the North Leadwood Mine area, Leadwood, Missouri: unpublished Doctoral dissertation, Washington Univ., St. Louis, Missouri, 1957.

Allen, Victor T.

1. New occurrences of minerals at Iron Mountain, Missouri: *Am. Mineralogist*, vol. 37, nos. 9-10, pp. 736-743, September-October 1952.
2. (and Lift, James T.). Orthoquartzites in Missouri (abstract): *Science*, vol. 116, no. 3020, p. 515, November 1952.
3. Relation of porosity and permeability to the origin of diaspore clay in Milligan, W. O., ed., *Clays and clay minerals*: Natl. Research Council Pub. 395, pp. 389-401, illus., 1955.
4. (and Fahey, Joseph, J.). Actinolite at Iron Mountain, Missouri (abstract): *Geol. Soc. America Bull.*, vol. 67, no. 12, pt. 2, p. 1664, December 1956.
5. (and Brill, Kenneth G., Jr.). Natural resources of Missouri and nearby regions: St. Louis Univ., St. Louis, Missouri, 24 pp., 1958.
6. (Hurley, P. M.; Fairbairn, H. W.; and Pinson, W. H.). Age of Precambrian igneous rocks of Missouri (abstract): *Geol. Soc. America, Program 1959 Ann. Mtgs.*, p. 2A, November 1959; *Geol. Soc. America Bull.*, vol. 70, no. 12, pt. 2, p. 1560, December 1959.
7. Clay minerals in sinkholes west of St. Louis, Missouri (abstract): *Geol. Soc. America, Program 1963 Ann. Mtgs.*, p. 5A, November 1963.

8. Metabentonite or weathered shale of the Decorah Formation in Missouri? (abstract): Geol. Soc. America, Program 1965 Ann. Mtgs., p. 3, November 1965.

Allingham, John W.

1. Interpretation of aeromagnetic anomalies in southeast Missouri in Geological Survey research, 1960: U. S. Geol. Survey, Prof. Paper 400-B, pp. B216-B219, figs. 95.1 to 95.8, 1960.
2. Low-amplitude aeromagnetic anomalies in southeastern Missouri: Geophysics, vol. 29, no. 4, pp. 537-552, 15 figs., 1 table, August 1964.

American Association of Petroleum Geologists

1. Guidebook, field conference, southeastern Missouri, Cape Girardeau and Gulf Embayment areas: in cooperation with the Missouri Geol. Survey and Water Resources, April 1951.

Amos, Dewey H. Refer to Desborough, G. A.

Amsden, Thomas W.

1. Silurian stratigraphic relations in the central part of the Arbuckle Mountains, Oklahoma: Geol. Soc. America Bull., vol. 74, no. 5, pp. 631-636, 2 pls., 2 figs., May 1963.

Amstutz, G. Christian. Refer also to Krishnaswamy, D. S.; Ligasacchi, Attilio; Zimmerman, R. H.; Straumanis, M. E.; and El Baz, F.

1. The genesis of the Mississippi Valley type deposits, U.S.A.: *Experientia*, Birkhauser Verlag, Basel, Schweiz, vol. 14, no. 7, pp. 235-240, 1958; (abstract) Geol. Soc. America Bull., vol. 69, no. 12, pt. 2, p. 1528, December 1958.
2. Syngenetic zoning in ore deposits: Proc. Geol. Assoc. of Canada, vol. 11, pp. 95-113, 8 figs., December 1959.
3. Polygonal and ring tectonic patterns in the Precambrian and Paleozoic of Missouri, U.S.A.: *Eclogae geol. Helv.* 1959, vol. 52, no. 2, pp. 904-913, 3 figs., January 1960.
4. Microscopy applied to mineral dressing in Fiftieth anniversary of froth flotation in the U.S.A.: Colorado School of Mines Quart., vol. 56, no. 3, pp. 443-481, 6 pls., July 1961.
5. Origen de los depositos minerales congruentes en formaciones sedimentarias; II Congreso Nac. Geol. Peru (Dec. 1960): Bol. Soc. Geol. Peru, vol. 36, 18 pp., 7 figs., 1960; also Bol. Soc. Geol. Bolivia, 1961.
6. Syngeneses and epigenesis in petrography and the study of mineral deposits: *Internat. Geol. Review*, vol. 3, no. 2, pp. 119-140 and no. 3, pp. 202-225, 1961.
7. (Uhley, R. P.; and El Baz, F.). Sedimentary features in the layered sulfide deposits of Fredericktown, Missouri (ab-

- stract): Geol. Soc. America, Program 1961 Ann. Mtgs., p. 4A, November 1961.
8. El origen de depositos minerales congruentes en rocas sedimentarias: Bol. Soc. Geol. Peru, vol. 36, pp. 5-30, 5 figs., 1961. L'origine des gites mineraux concordants dans les roches sedimentaires in *Chronique des mines et de la recherche miniere*: Centre d'Etudes Geologiques et Mineres, Paris, May 1962.
 9. Impact, cryptoexplosion, or diapiric movements: [A discussion of the origin of polygonal fault patterns in the Precambrian and overlaying (sic) rocks in Missouri and elsewhere]: Kansas Acad. Sci. Trans., vol. 67, no. 2, pp. 343-359, September 1964.
 10. Galena localization in late diagenetic fissures in algal carbonate rock, Elvins Mine, Missouri: *Developments in Sedimentology*, vol. 2, pp. 71-73, 2 figs., 1964.
 11. Shallow water patterns of iron sulphide distribution in the Jefferson City Formation near Rolla, Missouri: *Developments in Sedimentology*, vol. 2, pp. 65-71, 3 figs., 1 pl., 1964.
 12. (and Zimmerman, R. A.). Decaturville sulfide breccia of south-central Missouri—a fossil mud volcano (abstract): Geol. Soc. America, Program 1965 Ann. Mtgs., p. 4, November 1965.
 13. A morphological comparison of diagenetic cone-in-cone structures and shatter cones in Geological problems in lunar research: New York Acad. Sci. Annals, vol. 123, art. 2, pp. 1050-1056, illus., 1965.
 14. Tectonic and petrographic observations on polygonal structures in lunar research: New York Acad. Sci. Annals, vol. 123, art. 2, pp. 876-894, illus., 1965.

Anderson, John H.

1. Hydrogeology of reservoir sites in the Meramec River basin, Missouri: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri.

Anderson, Keith E.

1. A preliminary report on the acidizing of water wells in Missouri: Jour. of the Missouri Water and Sewage Conference, vol. 17, no. 4, pp. 26-37, 4 figs., October 1946.

Anderson, K. H. Refer also to Knight, R. D.

1. (and Wells, J. S.). New thinking may be key to unlocking Missouri prospects: Oil and Gas Jour., vol. 62, no. 50, pp. 122-130, 3 figs., December 14, 1964.
2. (and Wells, J. S.). Oil and gas in Missouri: Missouri Mineral Industry News, vol. 5, no. 4, pp. 40-44, April 1965.

Anderson, Richard C. Refer to Horberg, L.

Anderson, R. Ernest. Refer also to Scharon, H. LeRoy.

1. (and Scharon, H. LeRoy). Notes on the geology of the Taum Sauk area in Guidebook to the geology of the St. Francois Mountain area: Missouri Geol. Survey and Water Resources, Rept. Inv. 26, pp. 119-121, October 1961.
2. Pyroclastic flows of the Missouri Precambrian (abstract): Geol. Soc. America, Program 1962 Ann. Mtgs., p. 5A, November 1962.
3. Igneous petrology of the Taum Sauk area, Missouri: unpublished Doctoral dissertation, Washington Univ., St. Louis, Missouri, 1962.

Anderson, R. L. Refer to Young, W. H.

Andrews, George W. Refer to Grinnell, Robert S., Jr.

Andrews, R. W.

1. Cobalt: Overseas Geol. Surveys, Mineral Resources Div., Her Majesty's Stationery Office, London, 221 pp., 5 pls., 15 figs., 1962.

Anonymous

1. Oil and gas statistics—1958: World Oil, vol. 148, no. 3, pp. 13-174, February 1959.
2. Oil and gas statistics—1958-59: World Oil, vol. 149, no. 7, pp. 25-26, 29-30, December 1959.
3. The P & M Story: Min. Cong. Jour., vol. 46, no. 8, pp. 58-61, illus., August 1960.
4. Why St. Joe's Viburnum is today's most important underground lead mine: Min. World, vol. 23, no. 8, pp. 18-21, illus., July 1961.
5. Missouri iron ore joint venture: Skillings Min. Review, vol. 51, no. 26, p. 4, June 1962.
6. Joint exploration in Missouri: Skillings Min. Review, vol. 51, no. 26, p. 4, June 1962.
7. Mineral output of Missouri in 1962: Skillings Min. Review, vol. 52, no. 45, p. 18, illus., November 9, 1962.
8. A working hypothesis for southeast Missouri lead deposits: Eng. Min. Jour., vol. 166, no. 12, p. 76, illus., December 1965.

Arata, Andrew A.

1. (and Hutchison, J. Howard). The raccoon (*Procyon*) in the Pleistocene of North America: Tulane Studies Geology, vol. 2, no. 2, pp. 21-27, 4 figs., 1 table, 1964.

Aresco, S. J.

1. (Haller, C. P.; and Abernethy, R. F.). Analyses of tipple and

delivered samples of coal—1955: U. S. Bur. Mines, Rept. Inv. 5270, 66 pp., October 1956.

2. (Haller, C. P.; and Abernethy, R. F.). Analyses of tippie and delivered samples of coal—1957: U. S. Bur. Mines, Rept. Inv. 5401, 59 pp., May 1958.
3. (Haller, C. P.; and Abernethy, R. F.). Analyses of tippie and delivered samples of coal—1961; U. S. Bur. Mines, Rept. Inv. 6086, 41 pp., 1962.

Arundale, Joseph C. Refer also to Bowles, O.

1. Barium *in* Mineral facts and problems: U. S. Bur. Mines, Bull. 556, pp. 87-93, 1956.
2. (and Mentch, Flora B.). Barite: U. S. Bur. Mines, Minerals Yearbook—1953, vol. 1, pp. 195-205, 1956.
3. (and Mentch, Flora B.). Calcium: U. S. Bur. Mines, Minerals Yearbook—1953, vol. 1, pp. 275-278, 1956.

Atherton, Elwood. Refer to Bradbury, James C.

Atkinson, W. R. Refer to Merriam, D. F.

Ault, W. U. Refer to Kulp, J. L.

Averitt, Paul

1. Coal reserves in the United States, January 1, 1960, *in* Geological Survey research 1960: U. S. Geol. Survey, Prof. Paper 400-B, pp. B81-B82, 1960.

Avery, I. F. Refer to Coumbe, A. T.

Bailey, S. W.

1. (Hurley, P. M.; Fairbairn, H. W.; and Pinson, W. H., Jr.) K-Ar dating of sedimentary illite polytypes: Geol. Soc. America Bull., vol. 73, no. 9, pp. 1167-1170, September 1962.

Bain, C. Kremer

1. Underground mining progress: Min. Cong. Jour., vol. 45, no. 2, pp. 40-43, February 1959.

Baker, Dewey A.

1. Geology of the Stockton Quadrangle, Cedar County, Missouri: unpublished Masters thesis, Univ. of Missouri at Columbia, Columbia, Missouri, 1962.

Baker, Donald R.

1. Organic geochemistry of Cherokee Group in southeastern Kansas and northeastern Oklahoma: Am. Assoc. Petroleum Geolo-

gists Bull., vol. 46, no. 9, pp. 1621-1642, 9 figs., September 1962.

Ball, S. M. Refer to Jewett, J. M.

Ballantyne, Edwin J., Jr.

1. A geophysical investigation of an area in Christian County, Missouri: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1961.

Barkdull, James E.

1. Geology of a portion (NW $\frac{1}{4}$) of the Grandin Quadrangle, Missouri: unpublished Masters thesis, Univ. of Missouri at Columbia, Columbia, Missouri, 1957.

Barker, F. B. Refer to Scott, R. C.

Barney, Emmet C.

1. Petrology of the chert in the Boone group and its stratigraphic relation in the southwest Ozark area: unpublished Masters thesis, Univ. of Kansas, Lawrence, Kansas, 1959.

Barnholtz, Steve

1. Influence of jointing on cavern development in Miller County, Missouri: Missouri Speleology, vol. 3, no. 4, pp. 66-73, illus., October 1961.

Baroffio, James R. Refer to Wanless, Harold R.

Barrow, Elmer C.

1. The early history of iron mining in southeast Missouri (1815-1861): unpublished Masters thesis, Univ. of Missouri at Columbia, Columbia, Missouri, 1940.

Basson, Phillip W.

1. The fossil flora of the Drywood Formation of southwestern Missouri: unpublished Doctoral dissertation, Univ. of Missouri at Columbia, Columbia, Missouri, August 1965.

Bates, Thomas F.

1. (and Strahl, Erwin O.). Mineralogy, petrography, and radioactivity of representative samples of Chattanooga shale: Geol. Soc. America Bull., vol. 68, no. 10, pp. 1305-1314, 1 pl., October 1957.

Baxter, James W.

1. *Calcisphaera* from the Salem (Mississippian) limestone of south-

western Illinois: Jour. Paleontology, vol. 34, no. 6, pp. 1153-1157, pl. 144, November 1960.

Bayes, Frances S. Refer to Carman, E. P.

Beal, Bert L., Jr.

1. Use of koepe hoists and Swedish type dumps at Meramec Mine: Min. Cong. Jour., vol. 49, no. 10, pp. 80-83, illus., October 1963.

Beall, John V.

1. What's behind the mining boom in southeast Missouri: Min. Eng., vol. 15, no. 7, pp. 71-76, illus., July 1963.

Beavers, A. H.

1. The mineral relationship between recently deposited alluvium and the loessial soils in the bluffs of the Missouri and Mississippi rivers: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1948.
2. Source and deposition of clay minerals in Peorian loess: Science, vol. 126, no. 3286, p. 1285, December 1957.

Beavers, Harold H.

1. *Auloblastus*, a new blastoid from the Mississippian Burlington Limestone: Jour. Paleontology, vol. 35, no. 6, pp. 1113-1116, pl. 131, 1 fig., November 1961.
2. Morphology of the blastoid *Globoblastus norwoodi*: Jour. Paleontology, vol. 35, no. 6, pp. 1103-1113, pls. 129-130, 2 figs., November 1961.

Bebout, Donald G.

1. Desmoinesian fusulinids of Missouri: unpublished Doctoral dissertation, Univ. of Kansas, Lawrence, Kansas, April 1961.
2. Desmoinesian fusulinids of Missouri: Missouri Geol. Survey and Water Resources, Rept. Inv. 28, 79 pp., 8 pls., 17 tables, September 1963.

Becker, Edith. Refer to Durfor, Charles N.

Beckham, Wallace, Jr.

1. Remanent magnetization in the interpretation of magnetic anomalies (abstract): Missouri Acad. Sci. Proc., vol. 1, ser. 2, pp. 37-38, April 1964.
2. The gravity and magnetic fields of the Iron Mountain ore body: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1964.

Beghtel, F. W. Refer to Furnish, W. M.

Behre, Charles H., Jr. Refer to Douglas, Richard F.

Bell, Alfred H. Refer to Swann, D. H.

Bell, Kenneth G.

1. Uranium and other trace elements in petroleum and rock asphalts: U. S. Geol. Survey, Prof. Paper 356-B, iii + 65 pp., fig. 22, 3 tables, 1960.

Belt, Charles B. Refer to Hansink, James D.

Bengston, Nels A.

1. Meander of the Missouri River, progress and consequences: unpublished Masters thesis, Univ. of Nebraska, Lincoln, Nebraska, 1908.

Benson, Richard H.

1. (and Collinson, Charles). Three ostracode faunas from lower and middle Mississippian strata in southern Illinois: Illinois State Geol. Survey, Circ. 225, 26 pp., 4 pls., 14 text-figs., 2 tables, July 1958.

Bergstrom, John H.

1. Big truck means big savings for small quarry: Rock Products, vol. 67, no. 2, pp. 84-86, illus., February 1964.
2. Labor requirements hit bottom at River Cement: Rock Products, vol. 68, no. 10, pp. 50-57, illus., October 1965.

Bergstrom, Robert E. Refer also to Emrich, G. H.

1. Surface correlation of some Pennsylvanian limestones in Mid-Continent by thermoluminescence: Am. Assoc. Petroleum Geologists Bull., vol. 40, no. 5, pp. 918-942, 12 figs., May 1956.
2. (and Walker, Theodore R.). Groundwater geology of the East St. Louis area, Illinois: Illinois State Geol. Survey, Rept. Inv. 191, 44 pp., 4 pls., 6 figs., 2 tables, 1956.

Berkholz, Mary F.

1. Minerals, fossils, and geodes in Missouri: Gems and Minerals, no. 202, pp. 30-31, July 1954.

Berry, Richard W.

1. Location of lithologic contacts obscured by mantle: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1957.

Bertram, Nancy. Refer to Wills, Bonnie L.

Bethke, William M.

1. Structural reconnaissance of the High Ridge area, Jefferson County, Missouri: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1956.

Beveridge, Thomas R.

1. Biennial report of the State Geologist to the 69th General Assembly, 1954-56: Missouri Geol. Survey and Water Resources, 34 pp., 1956.
2. (Whaley, Frank E.; and Lambelet, Lawrence E.). Topographic maps of Missouri: Missouri Geol. Survey and Water Resources, 27 pp., 1957.
3. Biennial report of the State Geologist to the 70th General Assembly, 1956-58: Missouri Geol. Survey and Water Resources, 38 pp., 1958.
4. Basic research at Missouri Geological Survey leads to Pea Ridge iron ore discovery: Missouri Eng., vol. 22, no. 12, pp. 4-5, December 1958.
5. Undeveloped industrial rocks and minerals of Missouri (abstract): Mid-Am. Minerals Conf., October 1958: Min. Eng., vol. 11, no. 1, p. 13, January 1959.
6. Seventh biennial report of the State Geologist to the 71st General Assembly, 1958-60: Missouri Geol. Survey and Water Resources, 57 pp., 3 figs., 1960.
7. Biennial report of the State Geologist to the 72nd General Assembly, 1960-62: Missouri Geol. Survey and Water Resources, 43 pp., 3 figs., 1962.
8. Current mineral exploration in Missouri: Min. Cong. Jour., vol. 48, no. 5, pp. 63-65, 2 figs., May 1962.
9. What are the Ozarks?: Missouri Conservationist, vol. 23, no. 5, pp. 4-7, illus., May 1962.
10. In Memoriam, Edward L. Clark, 1908-1962: State Geologists Jour., vol. 14, no. 2, pp. 2-3, October 1962.
11. The Valley Mills fault zone in Guidebook to the geology in the vicinity of Joplin, Missouri, including Westside-Webber Mine, Oklahoma: Assoc. Missouri Geologists, Tenth Ann. Field Trip, pp. 45-48, illus., September 1963.
12. (and Koenig, John W.). Index to geologic maps of Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, map and references, August 1963.
13. Biennial report of the State Geologist to the 73rd General Assembly, 1962-64: Missouri Geol. Survey and Water Resources, 44 pp., 3 figs., August 1964.

Bilbrey, Joseph H., Jr.

1. Cobalt, a materials survey: U. S. Bur. Mines, Inf. Circ. 8103, 140 pp., 19 figs., 1962.

Bilheimer, Lee. Refer to Reed, J. J.

Birkhead, Paul K.

1. A study of some of the Bryozoa and Stromatoporoidea from the Devonian of Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1960.

Bishop, Ottey M.

1. Mineral resources of Missouri in the Arkansas and White River basins—preliminary report: U. S. Interagency Committee, Arkansas-White-Red Basins Minerals and Geology Work Group, 34 pp., August 1952.
2. (Martin, A. J.; and den Hertog, Edith E.). Lead: U.S. Bur. Mines, Minerals Yearbook—1953, vol. 1, pp. 687-737, 1956.
3. Lead in Mineral facts and problems: U. S. Bur. Mines, Bull. 556, pp. 417-444, 1956.
4. (and Mentch, R. L.). Zinc in Mineral facts and problems: U. S. Bur. Mines, Bull. 556, pp. 977-1003, 1956.
5. (and Miller, Esther B.). Zinc: U. S. Bur. Mines, Minerals Yearbook—1953, vol. 1, pp. 1255-1309, 1956.

Bissada, Kadry K.

1. Interpretation of aeromagnetic data from southwest Missouri: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, January 1965.

Blankenbaker, Eleanor A. Refer to Gunsallus, B. L.; and Thomson, R. D.

Blum, V. J.

1. Memorial, James Bernard Macelwane, S. J.: Am. Geophys. Union Trans., vol. 37, no. 2, pp. 135-136, April 1956.

Blythe, Jack G.

1. Atoka formations in northeastern Oklahoma: Guidebook, Twenty-fifth Field Conf., Kansas Geol. Soc., pp. 72-81, September 1960. (Modified from Oklahoma Geol. Survey, Circ. 47, 1959).

Bode, Von H.

1. Die floristische Gliederung des Oberkavbons der Vereinigten Staaten von Nordamerika (The floristic organization of the

Upper Carboniferous of the United States of North America):
Zeitschrift der Deutschen Geologischen Gesellschaft, Band
110, 2 teil, Seite 217-259, 1958.

Bollinger, Gilbert A. Refer to Stauder, William V.

Boswell, E. H. Refer to Cushing, E. M.

Boucot, A. J.

1. Age of the Bainbridge limestone: *Jour. Paleontology*, vol. 32, no. 5, pp. 1029-1030, September 1958.

Boudreau, Francis C.

1. Paleozoic geology of the southwest portion of the Des Arc Quadrangle: unpublished Masters thesis, St. Louis Univ., St. Louis, Missouri, 1960.

Bowles, Oliver. Refer also to Thoenen, J. R.

1. Stone in Mineral facts and problems: U. S. Bur. Mines, Bull. 556, pp. 825-838, 1956.
2. (and Arundale, Joseph C.). Limestone (including calcium) in Mineral facts and problems: U.S. Bur. Mines, Bull. 556, pp. 457-463, 1956.
3. (Marks, Annie L.; and Foley, James M.). Lime: U. S. Bur. Mines, Minerals Yearbook—1953, vol. 1, pp. 693-711, 1956.
4. Marble: U. S. Bur of Mines, Inf. Circ. 7829, iii + 31 pp., map, 1958.

Bowman, Jimmy D.

1. The geology of the Centerview Quadrangle, Missouri: unpublished Masters thesis, State Univ. of Iowa, Iowa City, Iowa, February 1963.

Bowsher, Arthur L.

1. The stratigraphic occurrence of some lower Mississippian corals from New Mexico and Missouri: *Jour. Paleontology*, vol. 35, no. 5, pp. 955-962, pls. 109-110, 3 figs., September 1961.

Bozion, C. N. Refer to Heyl, A. V.

Bradbury, James C.

1. (and Atherton, Elwood). The Precambrian basement of Illinois: *Illinois State Geol. Survey, Circ. 382*, 13 pp., 3 figs., 2 tables, 1965.

Braden, William J.

1. The Oread megacyclothem (Upper Pennsylvanian) in the Forest City basin (Nebraska, Kansas, Missouri): unpublished Masters thesis, Univ. of Nebraska, Lincoln, Nebraska, 1958.

Branson, Carl C.

1. Marker beds in the Lower Desmoinesian of northeastern Oklahoma: Oklahoma Acad. Sci. Proc., vol. 33, pp. 190-194, (1952), 1954. Papers presented at 41st Ann. Mtg. December 1952; published January 1954.
2. Two Mississippian species of *Conocardium*: Oklahoma Geology Notes, Oklahoma Geol. Survey, vol. 18, nos. 8-9, pp. 137-142, figs. 1-12, August-September 1958.
3. Mississippian boundaries and subdivisions in mid-continent: Tulsa Geol. Soc. Digest, vol. 27, pp. 85-89, 1959.
4. *Conostichus*: Oklahoma Geology Notes, vol. 20, no. 8, pp. 195-207, pls. 1-4, August 1960.
5. New records of the Scyphomedusan *Conostichus*: Oklahoma Geology Notes, vol. 21, no. 5, pp. 130-138, 3 pls., 1 fig., May 1961.
6. Pennsylvanian System of the Mid-Continent in Pennsylvanian System in the United States, a symposium: Am. Assoc. Petroleum Geologists, Tulsa, Oklahoma, pp. 431-460, 10 figs., 1962.
7. Names of Oklahoma coal beds: Oklahoma Geology Notes, vol. 25, no. 6, pp. 160-167, June 1965.

Bratton, Sam T.

1. Coal in Missouri: Missouri Hist. Rev., vol. 22, no. 2, pp. 150-156, January 1928.

Bredehoeft, J. D.

1. (Blyth, C. R.; White, W. A.; and Maxey, G. B.). Possible mechanism for concentration of brines in subsurface formations: Am. Assoc. Petroleum Geologists Bull., vol. 47, no. 2, pp. 257-269, 8 figs., February 1963.

Brennan, William J.

1. Little Paddy Creek dam site (Missouri): unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1964.

Bretz, J Harlen

1. Caves of Missouri: Missouri Geol. Survey and Water Resources, 2nd ser., vol. 39, 490 pp., 168 figs., 1956.
2. Onondaga Cave: Geol. Soc. America, Field Trip Guidebook, St. Louis Mtg., 1958, pp. 53-64, 7 figs., November 1958.
3. Dynamic equilibrium and the Ozark land forms: Am. Jour. Sci., vol. 260, pp. 427-438, 2 figs., June 1962.

4. Geomorphic history of the Ozarks of Missouri: Missouri Geol. Survey and Water Resources, 2nd ser., vol. 41, 147 pp., 48 figs., 1 pl., February 1965.

Brewer, James C.

1. The genus, *Steganocrinus*: Jour. Paleontology, vol. 39, no. 5, pp. 773-793, 1965.

Brice, James C.

1. Origin of steps on loess-mantled slopes: U. S. Geol. Survey, Bull. 1071-C, pp. 69-85, pls. 2 and 3, figs. 5-10, 1958.

Brichta, Louis C.

1. Catalog of recorded exploration drilling and mine workings, Tri-State zinc-lead district—Missouri, Kansas, and Oklahoma: U. S. Bur. Mines, Inf. Circ. 7993, 13 pp., 8 figs., 1960.

Bridge, Josiah. Refer to Yochelson, E. L.

Bridges, William C.

1. Megafauna of the Pawnee Formation, Adair County, Missouri: unpublished Masters thesis, Univ. of Missouri at Columbia, Columbia, Missouri, October 1957.

Brill, Kenneth G., Jr. Refer also to Allen, V. T.

1. Microfauna from the Chouteau Formation (Kinderhook), St. Louis County, Missouri (abstract): Geol. Soc. America, Program 1964 Ann. Mtgs., p. 20, November 1964.

Brobst, Donald A. Refer also to Dean, B. G.

1. Barite resources of the United States: U. S. Geol. Survey, Bull. 1072-B, pp. 67-130, 1958.
2. Barite in the United States, exclusive of Alaska and Hawaii: U. S. Geol. Survey, Mineral Inv., Resources Map MR-43, 1965.

Brock, Maurice. Refer to Heyl, A. V.; Kiilsgaard, Thor H.; and Zartman, R. E.

Brockie, Douglas C. Refer also to Clarke, S. S.; and Hambleton, W. W.

1. (and Hare, E. H.) Geological tour of the Westside-Webber mines in Guidebook to the geology in the vicinity of Joplin, Missouri including Westside Webber Mine, Oklahoma: Assoc. Missouri Geologists, Tenth Ann. Field Trip, pp. 15-26, illus., September 1963.

Brod, Langford

1. Design of a rangefinder for cave mapping: *Missouri Speleology*, vol. 3, no. 1, 14 pp., 4 figs., 1961.
2. Artesian origin of fissure caves in Missouri: *Natl. Speleol. Soc. Bull.*, vol. 26, no. 3, pp. 83-114, 12 figs., 3 pls., 4 tables, July 1964.
3. Artesian origin of fissure caves in Missouri: Reply: *Natl. Speleol. Soc. Bull.*, vol. 27, no. 3, pp. 106-107, 1 table, July 1965.

Bromberger, Samuel H.

1. Mineralogy and petrology of basal Maquoketa (Ordovician) phosphatic beds, Iowa: unpublished Masters thesis, Univ. of Iowa, Iowa City, Iowa, 1965.

Brown, John S. Refer also to Eckelmann, F.

1. Iron in Missouri (abstract): *Min. Eng.*, vol. 10, no. 12, p. 1227, December 1958; Mid-America Minerals Conference, October 1958.
2. Southeast Missouri Lead Belt: *Geol. Soc. Am., Field Trip Guidebook*, St. Louis Mtg., 1958, pp. 1-7, November 1958.
3. (and Snyder, F. G.). Discussion of lead-isotope data for south-east Missouri (abstract): *Geol. Soc. Am., Program 1959 Ann. Mtgs.*, p. 17A, November 1959; *Geol. Soc. Am. Bull.*, vol. 70, no. 12, pt. 2, p. 1575, December 1959.
4. Oceanic lead isotopes and ore genesis: *Economic Geology*, vol. 60, no. 1, pp. 47-68, 3 figs., 5 tables, 1965.

Brown, Walter F. Refer to Christiansen, Carl R.

Brown, William L.

1. Conodonts from the basal sandstone of the Noel shale, southwestern Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1959.

Buck, K. L. Refer to Cannon, Ralph S., Jr.

Buder, Theodore A.

1. The geology of the northwestern portion of the Lesterville Quadrangle, Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1961.

Burst, John F.

1. New clay mineral evidence concerning the diagenesis of some Missouri fire clays, in *Am. Inst. Min. Eng., Symposium Volume on Problems of Clay and Laterite Geneses*, pp. 135-143, 1952.

Burton, Robert C. Refer to Rexroad, C. B.

Bushbach, Thomas C.

1. Cambrian and Ordovician strata of northeastern Illinois: Illinois State Geol. Survey, Rept. Inv. 218, 90 pp., 19 figs., 10 pls., 1 table, 1964.

Cahill, Kevin E.

1. Geology of the Burtville Quadrangle, Johnson County, Missouri: unpublished Masters thesis, Univ. of Iowa, Iowa City, Iowa, June 1962.

Calhoun, Willis A. Refer also to Pettit, R. F., Jr., Christiansen, Carl R.; and Dressel, W. M.

1. (and Powell, H. E.). Removing quartz and other impurities from refractory clays by mineral dressing methods: U. S. Bur. Mines, Rept. Inv. 5754, 22 pp., 2 figs., 1961.

Callahan, W. H.

1. Paleophysiographic premises for prospecting for strata-bound base metal mineral deposits in carbonate rocks: Proc. Cento Symposium on Mining Geology, Turkey, 1964.

Cameron, Cornelia C.

1. New technique in subsurface mapping of glacial drift in southern Iowa (abstract): Geol. Soc. America, Program 1965 Ann. Mtgs., pp. 25-26, November 1965.

Caneer, William T.

1. The stratigraphic and clay mineral relationships in Fire Clay Pit Number 6D of the A. P. Green Firebrick Company: unpublished Masters thesis, Univ. of Missouri at Columbia, Columbia, Missouri, 1956.

Canis, Wayne F.

1. Arenaceous foraminifera from the Chouteau limestone, Boone County, Missouri: unpublished Masters thesis, Univ. of Missouri at Columbia, Columbia, Missouri, 1963.

Cannon, Ralph S., Jr.

1. (Buck, K. L.; and Pierce, A. P.). Sampling a zoned galena crystal for lead isotope study: U. S. Geol. Survey, Prof. Paper 450-E, in Geological Survey research, 1962 (1963), art. 199, pp. E73-E77.
2. (Pierre, Arthur P.; and Delevaux, Maryse H.). Lead isotope variation with growth zoning in a galena crystal: Science, vol. 142, no. 3592, pp. 574-576, 2 figs., 1 table, November 1963.

Caplan, William M.

1. Subsurface geology of pre-Everton rocks in northern Arkansas: Arkansas Geol. and Conservation Commission, Inf. Circ. 21, 17 pp., 5 pls., 1 fig., 1960.

Carini, George F.

1. Inferences of the petrography and depositional environment of the Tiawah and Seville limestones of west-central Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1959.

Carlson, Keith J.

1. Corals of the Gilmore City Limestone (Mississippian) of Iowa: Jour. Paleontology, vol. 38, no. 4, pp. 662-666, 2 pls., July 1964.

Carlson, Marvin P.

1. Lithostratigraphy and correlation of the Mississippian System in Nebraska: Nebraska Geol. Survey, Bull. 21, 19 figs., 46 pp., May 1963.

Carman, E. P.

1. (and Bayes, Frances S.). Bibliography of Bureau of Mines investigations of coal and its products, 1950 to 1955: U. S. Bur. Mines, Inf. Circ. 7825, 135 pp., April 1958.

Carozzi, Albert V.

1. (and Textoris, Daniel A.). Atlas of Paleozoic carbonate microfacies of the eastern stable interior (abstract): Geol. Soc. America, Program 1965 Ann. Mtgs., p. 28, November 1965.

Carpenter, Alden B.

1. Hydromagnesite from Pulaski County, Missouri (abstract): Missouri Acad. Sci. Proc., vol. 1, ser. 2, p. 36, April 1964.

Carr, Martha S.

1. (and Dutton, Carl E.). Iron-ore resources of the United States including Alaska and Puerto Rico, 1955: U. S. Geol. Survey, Bull. 1082-C, pp. 61-134, pl. 2, fig. 7, tables 1-6, 1959.

Carrales, M., Jr. Refer to Dietzman, W. D.

Carver, Robert E.

1. Geology of the Clinton North Quadrangle, Henry County, Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1959.

2. Petrology of the Roubidoux Formation, Missouri (abstract): Geol. Soc. America, Program 1962 Ann. Mtgs., p. 26A, November 1962.

Casteel, L. W.

1. The first century of research by St. Joseph Lead Company: Min. Eng., vol. 16, no. 7, pp. 111-111D, illus., July 1964.

Chamon, Nagib

1. Structural and magnetic characteristics of the Belton anomaly, Cass County, Missouri: unpublished Masters thesis, Univ. of Missouri at Rolla, Rolla, Missouri, 1964.

Chan, S. Refer to Straumanis, M. E.**Chandler, John**

1. Underground mining—the trends in 1956—Tri-State district: Min. Eng., vol. 9, no. 2, p. 179, February 1957.

Chapman, Carl H.

1. (and Chapman, Eleanor F.). Indians and archaeology of Missouri: Univ. of Missouri Press, Missouri Handbook no. 6, 161 pp., illus., 1964.

Cheng, Shih-Cheang

1. Zinc and copper content of stream sediment in south-central Missouri: unpublished Masters thesis, Univ. of Missouri at Rolla, Rolla, Missouri, 1965.

Chenoweth, Philip A.

1. A boulder in the Gunter sandstone, northeastern Oklahoma: Oklahoma Geology Notes, vol. 25, no. 1, pp. 3-5, 1 fig., January 1965.

Chester, John W.

1. Application of electrical-resistivity surveys to exploration for zinc-lead deposits, Racine-Spurgeon area, Newton County, Missouri: U. S. Bur. Mines, Rept. Inv. 5503, ii + 57 pp., 31 figs., 1959.

Christiansen, Carl R. Refer also to Scott, James J.

1. (Calhoun, Willis A.; and Brown, Walter F.). Mining and milling methods and costs at the Indian Creek Mine, St. Joseph Lead Company, Washington County, Missouri: U. S. Bur. Mines, Inf. Circ. 7875, 47 pp., 17 figs., 1959.
2. Iron ore mining in Missouri: Skillings Min. Rev., vol. 51, no. 5, pp. 1, 8-12, illus., 1959.

Clabaugh, S. E. Refer to Slaughter, A. L.

Clair, Joseph R.

1. Stratigraphy, structure, and economic geology of the Belton area, Cass County, Missouri: unpublished Doctoral dissertation, Univ. of North Carolina, Chapel Hill, North Carolina, 1941.

Clark, Edward L.

1. (Scofield, Nancy L.; and Koenig, John W.). Bibliography of the geology of Missouri, 1945-1955: Missouri Geol. Survey and Water Resources, 2nd ser., vol. 38, 146 pp., 1956.

Clarke, S. S.

1. Use of jumbo drilling machines in the Tri-State district: Am. Inst. Min. Eng., Mining Technology, Tech. Pub. 2294, 7 pp., March 1948.
2. (and Brockie, Douglas C.). Jackleg drilling in the Tri-State district: Longhole prospecting and production drilling: Min. Eng., vol. 8, no. 1, pp. 27-30, January 1956.

Cloud, William K. Refer to Murphy, L. M.

Cobb, J. C.

1. (and Kulp, J. L.) U-Pb age of the Chattanooga shale: Geol. Soc. America Bull., vol. 71, no. 2, pp. 223-224, February 1960.

Cochran, Wendell

1. Silicified Brachiopoda of the Callaway Limestone: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1956.

Cole, Virgil B. Refer also to Merriam, D. F.

1. The Cap au Gres fault in Guidebook, twenty-sixth annual field conference, Kansas Geological Society: Missouri Geol. Survey and Water Resources, Rept. Inv. 27, pp. 86-88, 1 fig., September 1961.

Collins, Robert S. Refer to Miller, David W.

Collinson, Charles W. Refer also to Benson, R. H.; and Rexroad, C. B.

1. (Swann, David H.; and Willman, Harold B.). Guide to the structure and Paleozoic stratigraphy along the Lincoln fold in western Illinois: Am. Assoc. Petroleum Geologists Field Conf. Guidebook, 39th Ann. Convention, St. Louis, Missouri, 75 pp., April 16, 1954.
2. (and Schwalb, Howard). North American Paleozoic Chitinozoa:

- Illinois State Geol. Survey, Rept. Inv. 186, 33 pp., 2 pls., 12 figs., 1955.
3. (and Swann, David H.). Mississippian rocks of western Illinois: Geol. Soc. America, Field Trip Guidebook, St. Louis Mtg., 1958, pp. 21-32, 9 figs., November 1958.
 4. (Rexroad, Carl B.; and Scott, Alan J.). Abundance and stratigraphic distribution of Devonian and Mississippian conodonts in the upper Mississippi Valley: Jour. Paleontology, vol. 33, no. 4, pp. 692-696, 1 text-fig., July 1959.
 5. The Kinderhookian Series in the Mississippi Valley in Guidebook, twenty-sixth annual field conference, Kansas Geological Society: Missouri Geol. Survey and Water Resources, Rept. Inv. 27, pp. 100-109, 3 figs., September 1961.
 6. (Scott, Alan V.; and Rexroad, Carl B.). Biostratigraphic zonation of the Devonian and Mississippian in the Mississippi Valley (abstract): Geol. Soc. America, Program 1961 Ann. Mtgs., p. 30A, November 1961.
 7. (Scott, A. J.; and Rexroad, C. B.). Six charts showing biostratigraphic zones and correlations based on conodonts from Devonian and Mississippian rocks of the upper Mississippi Valley: Illinois State Geol. Survey, Circ. 328, 32 pp., 6 charts, June 1962.

Conant, Louis C.

1. (and Swanson, Vernon E.). Chattanooga shale and related rocks of central Tennessee and nearby area: U. S. Geol. Survey, Prof. Paper 357, v + 91 pp., 17 pls., 18 figs., 1961.

Conkin, Barbara M. Refer to Conkin, James E.

Conkin, James E.

1. Mississippian smaller Foraminifera of east-central United States (abstract): Am. Assoc. Adv. Sci., Program and Abstracts, Sec. E. (Geology and Geography), p. 7, December 1957; Geol. Soc. America Bull., vol. 68, no. 12, pt. 2, p. 1889, December 1957.
2. (and Conkin, Barbara M.). Mississippian Foraminifera of the United States: Part I, the Northview Formation of Missouri: Micropaleontology, vol. 10, no. 1, pp. 19-47, 17 figs., 2 pls., January 1964.
3. (and Conkin, Barbara M.). Devonian Foraminifera: Part I, the Louisiana Limestone of Missouri and Illinois: Bull. Am. Paleontology, vol. 47, no. 213, pp. 53-105, 5 figs., 15 pls., 34 tables, March 1964.
4. (and Conkin, Barbara M.). Ordovician (Richmondian) Foraminifera from Oklahoma, Missouri, Illinois, and Kentucky: Oklahoma Geology Notes, vol. 25, no. 8, pp. 207-221, 12 figs., 12 pls., 3 tables, August 1965.

5. (Conkin, Barbara M.; and Pike, James W.). Mississippian Foraminifera of the United States: Part 2, the Hannibal Formation of northeastern Missouri and western Illinois: Micro-paleontology, vol. 11, no. 3, pp. 335-539, illus., tables, 1965.

Conklin, Dora R. Refer to Soister, Paul E.

Connell, James F.

1. A supplementary catalogue of type localities of coastal plain stratigraphic units: Southeastern Geology, vol. 4, no. 1, pp. 1-78, 1962.

Conner, James J., Jr.

1. Characteristics of explosion-generated waves in limestone at small distances: unpublished Masters thesis, St. Louis Univ., St. Louis, Missouri, 1957.

Cook, Kenneth L.

1. Regional gravity survey of northeastern Oklahoma and southeastern Kansas: Geophysics, vol. 21, no. 1, pp. 88-105, 3 figs., January, 1956.

Cooke, S. R.

1. Microscopic structure and concentratability of the more important iron ores of the United States: U. S. Bur. Mines, Bull. 391, 121 pp., 46 figs., 1936.

Cooper, G. Arthur. Refer also to Muir-Wood, H.

1. Collecting Devonian fossils in the Midwest in Explorations and fieldwork of the Smithsonian Institution in 1936: Smithsonian Institution Pub. 3407, pp. 15-18, figs. 11-12, 1937.

Cornwall, Henry R. Refer to Pratt, E. M.

Corps of Engineers, U. S. Army

1. Water resources development in Missouri: U. S. Army, Corps of Engineers, Missouri River Division, 66 pp., January 1955.
2. Review of petrographic studies of bed material, Mississippi River, its tributaries and offshore areas of deposition: U. S. Army, Corps of Engineers, Waterways Experiment Station, Tech. Rept. 3-436, 37 pp., June 1956.
3. Flood plain information study, Glaize Creek, Jefferson County, Missouri: U. S. Army Engineer District, St. Louis, 10 pp., illus., 1964.
4. Flood plain information study, Glaize Creek, Jefferson County,

- Missouri Technical Appendix: U. S. Army Engineer District, St. Louis, 38 pp., illus., 1964.
5. Flood plain information study, Joachim Creek, Jefferson County, Missouri: U. S. Army Engineer District, St. Louis, 12 pp., illus., 1964.
 6. Flood plain information study, Joachim Creek, Jefferson County, Missouri, Technical Appendix: U. S. Army Engineer District, St. Louis, 40 pp., illus., 1964.
 7. Flood plain information study, Mississippi River, Jefferson County, Missouri: U. S. Army Engineer District, St. Louis, 8 pp., illus., 1964.
 8. Flood plain information study, Mississippi River, Jefferson County, Missouri, Technical Appendix: U. S. Army Engineer District, St. Louis, 34 pp., illus., 1964.
 9. Flood plain information study, Plattin Creek, Jefferson County, Missouri: U. S. Army Engineer District, St. Louis, 10 pp., illus., 1964.
 10. Flood plain information study, Plattin Creek, Jefferson County, Missouri, Technical Appendix: U. S. Army Engineer District, St. Louis, 10 pp., illus., 1964.
 11. Flood plain information study, Rock Creek, Jefferson County, Missouri: U. S. Army Engineer District, St. Louis, 10 pp., illus., 1964.
 12. Flood plain information study, Rock Creek, Jefferson County, Missouri, Technical Appendix: U. S. Army Engineer District, St. Louis, 40 pp., illus., 1964.
 13. Flood plain information study, Sandy Creek, Jefferson County, Missouri: U. S. Army Engineer District, St. Louis, 10 pp., illus., 1964.
 14. Flood plain information study, Sandy Creek, Jefferson County, Missouri, Technical Appendix: U. S. Army Engineer District, St. Louis, 39 pp., illus., 1964.
 15. Review report on Platte River and tributaries, Missouri and Iowa: U. S. Army Engineer District, Kansas City, Missouri, 48 pp., illus., 6 appendices, December 1964.
 16. Water resources development by the U. S. Army Corps of Engineers in Missouri: U. S. Army Engineer Division, Missouri River, Omaha, Nebraska, 77 pp., illus., 2 pls., January 1965.

Coumbe, A. T.

1. (and Avery, I. F.). Crude-oil and refined products pipeline mileage in the United States, January 1, 1956: U. S. Bur. Mines, Inf. Circ. 7769, 8 pp., November 1956.

Creath, Wilgus B. Refer to Echols, Dorothy Junge; and Upshaw, Charles F.

Cummings, Bradford

1. How St. Joseph Lead processes engineering geological data: Eng. Min. Jour., vol. 164, no. 3, pp. 96-101, 10 figs., March 1963.

Cushing, E. M.

1. Water resources and the Mississippi Embayment Project: U. S. Geol. Survey, Circ. 471, 8 pp., 8 figs., 1963.
2. (Boswell, E. H.; and Hosman, R. L.). General geology of the Mississippi Embayment: U. S. Geol. Survey, Prof. Paper 448-B, 28 pp., 10 figs., 2 pls., 1964.

Dachille, F. Refer to Simons, P. Y.

Dahl, Arthur R.

1. Missouri River studies: Alluvial morphology and Quaternary history: unpublished Doctoral dissertation, Iowa State Univ. of Sci. and Tech., Ames, Iowa, 1961.

Dale, Caude O.

1. Underground ore loading equipment: Min. Cong. Jour., vol. 43, no. 10, pp. 102-105, October 1957.
2. Tri-State district in Annual review (1957)—mining: Min. Eng., vol. 10, no. 2, p. 221, February 1958.

Dalrymple, Tate

1. Flood peak runoff and associated precipitation in selected drainage basins in Missouri in Flood peak runoff and associated precipitation in selected drainage basins in the United States: U. S. Geol. Survey, Water-Supply Paper 1813, pp. 152-157, 1965.

D'Amico, Kathleen J.

1. Statistical summary of metal and nonmetal production: U. S. Bur. Mines, Minerals Yearbook—1953, vol. 1, pp. 67-114, 1956.

Dana, James D.

1. On Dr. Koch's evidence with regard to the contemporaneity of man and mastodon in Missouri: Am. Jour. Sci., 3rd ser., vol. 9, (109), art. 35, pp. 335-346, 1875.

Daniels, Farrington. Refer to Zeller, E. J.

Daniels, R. B.

1. (and Handy, R. L.). Suggested new type section for the Loveland loess in western Iowa: Jour. Geology, vol. 67, no. 1, pp. 114-119, 1 pl., 1 fig., January 1959.

Danielson, Richard E.

1. Geology of a portion (SE¼) of the Augusta Quadrangle: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1956.

Danilchik, Walter. Refer to Hyden, H. J.

Davis, G. L. Refer to Tilton, G. R.

Davis, James H.

1. Distribution of copper, zinc, and minor metals in the southeast Missouri lead district (abstract): Geol. Soc. America, Program 1958 Ann. Mtgs., p. 47, November 1958; Geol. Soc. America Bull., vol. 69, no. 12, pt. 2, p. 1551, December 1958.
2. Mineralization in the southeast Missouri lead district: unpublished Doctoral dissertation, Univ. of Wisconsin, Madison, Wisconsin, 1960.
3. Luminescence of some of the Bonnetterre Dolomite (abstract): Geol. Soc. America, Program 1964 Ann. Mtgs., p. 41, November 1964.

Davis, Phillip N.

1. Palynology of the Rowe coal (Pennsylvanian) of Oklahoma: unpublished Masters thesis, Univ. of Oklahoma, Norman, Oklahoma, 1960.

Davis, Richard A.

1. A conodont fauna from the Edgewood Limestone of Iowa; unpublished Masters thesis, Univ. of Iowa, Iowa City, Iowa, 1965.

Davis, Robert E.

1. Magnesium resources of the United States—A geologic summary and annotated bibliography to 1953: U. S. Geol. Survey, Bull. 1019-E, pp. 373-515, 1957.

Davis, Stanley N.

1. Pleistocene geology of Platte County, Missouri: unpublished Doctoral dissertation, Yale Univ., New Haven, Connecticut, 1955.
2. Size distribution of rock types in stream gravel and glacial till: Jour. Sed. Petrology, vol. 28, no. 1, pp. 87-94, figs. 1-5, March 1958.

Davis, W. C. Refer to Meidav, Tsvi.

Dayley, Ronald D.

1. Seismic investigation of flint clay deposits in east-central Missouri: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1962.

Dean, Basil G.

1. (and Brobst, Donald A.). Annotated bibliography and index map of barite deposits in United States: U. S. Geol. Survey, Bull. 1019-C, 186 pp., 1955.

Decker, Paul E.

1. Water storage reservoirs: Jour. Missouri Water and Sewerage Conference, vol. 30, no. 1, pp. 7-34, January 1959.

Deike, George H., III

1. Geomorphic relations of large single-passage caves in central Missouri (abstract): Natl. Speleol. Soc. News, vol. 17, no. 6, p. 95, June 1959. (Presented at NSS Annual Convention, Springfield, Missouri, 1959).
2. Geologic and geomorphic relations of Callaway County caves and Cedar Creek drainage development: Missouri Speleology, vol. 1, no. 3, pp. 13-14, July 1959.
3. X-Ray analysis of some Missouri cave clays: Missouri Speleology, vol. 2, no. 1, pp. 9-11, January 1960.

Deike, Ruth G.

1. Orientation of cave development (abstract): Natl. Speleol. Soc. News, vol. 17, no. 6, pp. 92-93, June 1959. (Presented at NSS Annual Convention, Springfield, Missouri, 1959).
2. Geologic observations at Ralphord Cave, Boone County: Missouri Speleology, vol. 1, no. 2, pp. 7-14, figs. 1-5, April 1959.
3. (and Deike, George H., III). Genesis of a ceiling channel in the Devils Icebox, Boone County: Missouri Speleology, vol. 1, no. 4, pp. 1-4, figs. 1-4, October 1959.

Delevaux, Maryse H. Refer to Cannon, Ralph S., Jr.

Dellwig, Louis F.

1. (and Gerhard, Lee C.). The December 25, 1961 earthquakes in northwestern Missouri and northeastern Kansas: Kansas Geol. Survey, Bull. 157, 12 pp., pl. 1, 3 figs., 1962.

Del Prete, Anthony, Jr.

1. The location of underground points by means of a magnetic dipole: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1963.

den Hartog, Edith E. Refer to Bishop, O. M.

Deptula, Walter J., Jr.

1. Utilization of the Missouri iron ores (abstract): Mid-Am. Minerals Conf., October 1958; Min. Eng., vol. 11, no. 1, p. 13, January 1959.

Desborough, George A.

1. (and Amos, Dewey H.). Ilvaite: a late magmatic occurrence in gabbro of Missouri: Am. Mineralogist, vol. 46, nos. 11 and 12, pp. 1509-1511, November-December 1961.
2. Mobilization of iron by alteration of magnetite-ulvospinel in basic rocks in Missouri: Econ. Geology, vol. 58, pp. 332-346, 1 fig., 4 pls., 1963.
3. Magmatic sphalerite in Missouri basic rocks: Econ. Geology, vol. 58, no. 6, pp. 971-977, October 1963.

Diamond, Werna G. Refer also to Netzeband, F. F.

1. (and Muilenburg, G. A.). The mineral industry of Missouri: U. S. Bur. Mines, Minerals Yearbook—1954, vol. 3, pp. 593-618, 1957.
2. (and Muilenburg, G. A.). The mineral industry of Missouri: U. S. Bur. of Mines, Minerals Yearbook—1955, vol. 3, pp. 601-622, 1958.
3. (and Muilenburg, G. A.). The mineral industry of Missouri: U. S. Bur. Mines, Minerals Yearbook—1956, vol. 3, pp. 643-667, 1958.
4. (and Muilenburg, G. A.). The mineral industry of Missouri: U. S. Bur. Mines, Minerals Yearbook—1957, vol. 3, pp. 607-630, 1959.
5. (and Hayes, William C.). The mineral industry of Missouri: U. S. Bur. Mines, Minerals Yearbook—1958, vol. 3, pp. 531-552, 1959.
6. (and Hayes, William C.). The mineral industry of Missouri—1959: U. S. Bur. Mines, Minerals Yearbook, vol. 3, pp. 561-584, 1959.
7. (and Hayes, William C.). The mineral industry of Missouri—1960: U. S. Bur. Mines, Minerals Yearbook, vol. 3, pp. 573-594, 1961.
8. (and Hayes, William C.). The mineral industry of Missouri—1961: U. S. Bur. Mines, Minerals Yearbook, vol. 3, pp. 589-613, 1962.
9. (and Hayes, William C.). The mineral industry of Missouri—1962; U. S. Bur. Mines, Minerals Yearbook, vol. 3, pp. 613-634, 1963.
10. (Early, Thomas R.; and Robertson, Harry F.). Expanded clay and shale lightweight aggregate industry in the south-central United States: U. S. Bur. Mines, Inf. Circ. 8233, 50 pp., 10 figs., 12 tables, 1964.

Dietz, Robert S.

1. The evolution of a gravel bar: *Missouri Bot. Garden Annals*, vol. 39, no. 3, pp. 249-254, September 1952.
2. Shatter cones in cryptoexplosion structures (meteorite impact?): *Jour. Geology*, vol. 67, no. 5, pp. 496-505, pls. 1-8, September 1959.
3. Astroblesmes: *Scientific Am.*, vol. 205, no. 2, pp. 51-58, August 1961.
4. Cryptoexplosion structures; a discussion: *Am. Jour. Sci.*, vol. 261, no. 7, pp. 650-664, 4 pls., 2 figs., summer 1963.

Dietzman, W. D.

1. (Corrales, M., Jr.; and Jirik, C. J.). Heavy crude oil reservoirs in the United States: A survey: *U. S. Bur. Mines, Inf. Circ.* 8263, 53 pp., 1 fig., 1 table, 1965.

Dillé, Alan C. F.

1. Paleotopography of the Precambrian surface of northeastern Oklahoma: unpublished Masters thesis, Univ. of Oklahoma, Norman, Oklahoma, 1956; (abstract) *Tulsa Geol. Soc. Digest*, vol. 24, pp. 122-126, 1956.

Dillon, Lawrence S.

1. Wisconsin climate and life zones in North America: *Science*, vol. 123, no. 3188, pp. 167-176, figs. 1-12, February 1956.

Donahue, Jack

1. Laboratory growth of pisolite grains: *Jour. Sed. Petrology*, vol. 35, no. 1, pp. 251-256, March 1965.

Dorman, James H.

1. Megafauna of the Sulphur Springs formation of Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1956.

Dort, Wakefield, Jr.

1. Multiple early Pleistocene glacial stades, northeastern Kansas (abstract): *Geol. Soc. America, Program 1965 Ann. Mtgs.*, p. 46, November 1965.

Doty, Robert W. Refer also to Hubert, John F.

1. Petrology and origin of the Warrensburg sandstone of western Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1960.
2. (and Hubert, John F.). Petrology and paleogeography of the

Warrensburg channel sandstone, western Missouri: Sedimentology, vol. 1, no. 1, pp. 7-39, 11 figs., March 1962.

Douglas, Richard F.

1. (and Behre, Charles H., Jr.). Microscopy of Mississippi Valley-type lead-zinc ores (abstract): Geol. Soc. America, Program 1963 Ann. Mtgs., p. 50A, November 1963.

Douthit, Thomas D. N.

1. Magnetic survey of the Cap au Gres faulted flexure: unpublished Masters thesis, St. Louis Univ., St. Louis, Missouri, 1959.

Dreeszen, V. H. Refer to Reed, E. O.

Dressel, W. M.

1. (and Calhoun, W. A.). Experimental tertiary amine flotation of zinc silicate (hemimorphite) from Missouri: U. S. Bur. Mines, Rept. Inv. 5854, 7 pp., 2 figs., 1961.

Driscoll, Egbert G.

1. (and Hall, Donald D.). Taxonomy and environment of the Kinderhookian lamellibranch genus *Dexiobia*: Jour. Paleontology, vol. 37, no. 5, pp. 1018-1027, 2 pls., September 1963.

Drlopp, Donald E. Refer also to Tubb, J. B., Jr.

1. (and Manos, Constantine). Depositional environment maps of the Sparland, Gimlet, and Exline cyclothems, Illinois basin and eastern mid-continent (abstract): Geol. Soc. America, Spec. Paper 76, p. 51, November 1963.

Duewel, Dennis B.

1. The stratigraphy of the Jefferson City Quadrangle, Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1957.

Dunn, David L.

1. Devonian chitinozoans from the Cedar Valley formation in Iowa: Jour. Paleontology, vol. 33, no. 6, pp. 1001-1017, pls. 125-127, 2 text-figs., November 1959.

Dunn, Paul H.

1. Silurian Foraminifera of the Mississippi basin: Jour. Paleontology, vol. 16, no. 3, pp. 317-342, pls. 42-44, May 1942.

Dunscombe, Thomas D., Jr.

1. The silicified brachiopod fauna of the Macy formation: unpub-

lished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1959.

Durfor, Charles N.

1. Chemical quality of public water supplies of the United States and Puerto Rico, 1962: U. S. Geol. Survey, Hydrologic Atlas HA-200, one sheet, 1964.
2. (and Becker, Edith). Public water supplies of the 100 largest cities in the United States, 1962: U. S. Geol. Survey, Water-Supply Paper 1812, 364 pp., illus., 1964.

Durham, William L.

1. An engineering evaluation of surficial soils of Dent County, Missouri: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1963.

Durum, W. H.

1. Available quality and quantity of water for the ceramic industries: Am. Ceramic Soc. Bull., vol. 35, no. 11, pp. 417-421, November 1956.

Dury, G. H.

1. Theoretical implications of underfit streams: U. S. Geol. Survey, Prof. Paper 452-C, 43 pp., 39 figs., 1965.

Dutton, Carl E. Refer to Carr, Martha S.

Early, Thomas R. Refer to Diamond, W. G.; and Netzeband, F. F.

Easton, W. H.

1. On the tetracoral *Rotiphyllum radicum* (Rowley) from the Mississippian of Missouri: Jour. Paleontology, vol. 31, no. 3, pp. 623-624, pl. 71, figs. 13-16, May 1957.

Echols, Dorothy J. Refer also to Werner, C.

1. (and Gouty, John J.). Fern Glen (Mississippian) Ostracoda: Jour. Paleontology, vol. 30, no. 6, pp. 1315-1323, 4 text-figs., November 1956.
2. (and Creath, Wilgus B.). Survey of Mississippian, Pennsylvanian, and Permian Ostracods recorded in the United States: Micropaleontology, vol. 5, no. 4, pp. 389-414, text-figs. 1-11., chart, October 1959.

Eckelmann, F. Donald

1. (Kulp, J. Laurence; and Brown, John S.). Lead isotopes and the pattern of mineralization in southeast Missouri (abstract):

Geol. Soc. America Bull., vol. 67, no. 12, pt. 2, pp. 1689-1690, December 1956.

2. (and Kulp, J. L.). Lead isotopes and ore deposition in the south-east Missouri lead district (abstract): Geol. Soc. America, Program 1959 Ann. Mtgs., p. 37A, November 1959; Geol. Soc. America Bull., vol. 70, no. 12, p. 1595, December 1959.

Ehlers, George M.

1. (and Stumm, Erwin C.). *Spongophyllum missouriense*, a new coral from the Middle Devonian Callaway Limestone of Missouri: Michigan Univ., Mus. Paleontology Contr., vol. 9, no. 9, pp. 291-296, June 1952.

Ehrlich, Marvin. Refer to Scharon, LeRoy.

Eisenhuth, H. P.

1. Index of surface-water records to December 31, 1963: Part 5. Hudson Bay and upper Mississippi River basins: U. S. Geol. Survey, Circ. 505, 65 pp., 1 fig., 1965.
2. Index of surface-water records to December 31, 1963: Part 6. Missouri River basin: U. S. Geol. Survey, Circ. 506, 95 pp., 1 fig., 1965.
3. Index of surface-water records to December 31, 1963: Part 7. Lower Mississippi River basin: U. S. Geol. Survey, Circ. 507, 55 pp., 1 fig., 1965.

El Baz, Farouk. Refer also to Amstutz, G. C.

1. Sedimentary features and geochemistry of the sulphide facies in the transition between the Lamotte sandstone and the Bonnetterre formation in the Fredericktown area, Madison County, Missouri: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1961.
2. Petrology and mineralogy of certain portions of the Fredericktown deposits, Missouri: unpublished Doctoral dissertation, Univ. of Missouri at Rolla, Rolla, Missouri, 1964.
3. (and Amstutz, G. C.). Generalizations of diagenetic crystallization in the Cu-Pb-Co-Ni deposit of Fredericktown, Missouri: Developments in Sedimentology, vol. 2, pp. 73-75, 2 figs., 1964.

Elizondo, Joseph B.

1. Development and mining trends in the Tri-State district in Symposium on mining research, Nov. 12-13, 1956: Missouri School of Mines and Met., Bull., Tech. Ser. no. 94, pp. 1-15, figs. 1-12, 1957.

Ellis, Jessie B.

1. A statistical analysis of conodonts from the Upper Devonian of Missouri: unpublished Masters thesis, Univ. of Missouri at Columbia, Columbia, Missouri, 1959.

Ellis, Thomas M.

1. The geology and geophysics of a portion of the Potosi Quadrangle, Missouri: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1960.

Ellison, Samuel P., Jr.

1. Annotated bibliography and index of conodonts: Univ. of Texas, Bur. Econ. Geol., Pub. no. 6210, 128 pp., 6 charts, May 1962.

Elser, E. G.

1. (and Schuster, D. E.). Pomme de Terre Dam of earth and rock-fill: Am. Soc. Civil Engineers, Soil Mech. and Found. Div., Jour., vol. 89, no. SMI, pt. 1, pp. 67-94, 18 figs., February 1963.

Emery, John A. Refer to Snyder, F. G.**Emrich, Grover H.**

1. (and Bergstrom, Robert E.). Des Plaines disturbance, north-eastern Illinois: Geol. Soc. America Bull., vol. 73, no. 8, pp. 958-968, 7 figs., August 1962.

Eng, Harvard. Refer to Rollman, H. E.**Enright, Robert J.**

1. Heavy oil; a billion-barrel prize: Oil and Gas Jour., vol. 62, no. 24, pp. 41-44, illus., June 1964.

Eschbach, Walter L.

1. (Moore, Richard L., and Jens, Stifel W.). Computing flood elevations for small water sheds in St. Louis County: St. Louis County Planning Commission, 115 pp., illus., February 1964.

Esker, George C., III

1. (and Levin, Harold). *Pandaspinapyga*, a new trilobite genus from the Kimmswick Limestone (Ordovician) of Missouri: Jour. Paleontology, vol. 38, no. 4, pp. 776-778, 1 fig., July 1964.

Ethington, R. L.

1. (Furnish, W. M.; and Weingert, J. R.). Upper Devonian cono-

donts from Bighorn Mountains, Wyoming: *Jour. Paleontology*, vol. 35, no. 4, pp. 759-768, pl. 90, 1 fig., July 1961.

Evans, Howard T., Jr.

1. (and McKnight, Edwin T.). New wurtzite polytypes from Joplin, Missouri: *Am. Mineralogist*, vol. 44, nos. 11 and 12, pp. 1210-1218, 3 text-figs., November-December 1959; (abstracts): *Geol. Soc. America, Program 1959 Ann. Mtgs.*, p. 41A, November 1959; *Geol. Soc. America Bull.*, vol. 70, no. 12, pt. 2, p. 1599, December 1959.

Evans, James H.

1. Fill correlations of limestone caverns, Meramec State Park, Sullivan, Franklin County, Missouri: unpublished Masters thesis, Northeast Missouri State Teachers College, Kirksville, Missouri, 1964.

Evans, Lanny L.

1. Geology of the copper deposits in the Eminence region, Shannon County, Missouri: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1959.

Eyer, Jerome A. Refer also to Peck, Raymond E.

1. New Pennsylvanian, Permian, and Triassic Charophyta of North America: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1961.

Faber, James W.

1. Geology of the Sand Ridge area: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1955.

Fahey, Joseph J. Refer to Allen, V. T.

Fairbairn, H. W. Refer to Allen, V. T.; and Bailey, S. W.

Fairchild Aerial Surveys

1. Aeromagnetic map of Advance Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1963.
2. Aeromagnetic map of Augusta Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1961.
3. Aeromagnetic map of Bland Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1961.

4. Aeromagnetic map of Boss Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1961.
5. Aeromagnetic map of Butler 4 Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1963.
6. Aeromagnetic map of Clinton 3 Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1963.
7. Aeromagnetic map of Clinton 4 Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1963.
8. Aeromagnetic map of Corridon Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1963.
9. Aeromagnetic map of Edgehill Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1963.
10. Aeromagnetic map of Fristoe Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1963.
11. Aeromagnetic map of Hermann Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1961.
12. Aeromagnetic map of Lesterville Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1961.
13. Aeromagnetic map of Linn Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1961.
14. Aeromagnetic map of Malden Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1963.
15. Aeromagnetic map of Meta Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1961.
16. Aeromagnetic map of Mokane Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1961.
17. Aeromagnetic map of Morrison Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1961.
18. Aeromagnetic map of Redbird Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1961.
19. Aeromagnetic map of St. Clair Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1961.
20. Aeromagnetic map of Tavern ($E\frac{1}{2}$) Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1961.

21. Aeromagnetic map of Union Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1961.
22. Aeromagnetic map of Vienna Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1961.
23. Aeromagnetic map of Washington Quadrangle, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1961.

Farquhar, O. C.

1. The Precambrian rocks of Kansas: Kansas State Geol. Survey, Bull. 127, pt. 3, 122 pp., 9 pls., 4 figs., 1957.

Farquhar, R. M. Refer to Russell, R. D.

Fay, Robert O.

1. *Ptychoblastus*, a new Mississippian blastoid from Missouri: Jour. Paleontology, vol. 34, no. 6, pp. 1198-1201, 1 text-fig., November 1960.
2. (and Koenig, John W.). *Pentremoblastus*, a new Lower Mississippian blastoid from Illinois: Oklahoma Geology Notes, vol. 23, no. 11, pp. 267-270, 2 figs., 1 pl., November 1963.

Feely, H. W. Refer to Kulp, J. L.

Fellows, Larry D.

1. Guidebook to solution phenomena in the Springfield metropolitan area, Greene County, Missouri: Springfield, Missouri, 30 pp., 4 figs., September 1963.
2. Pinnacles and cutters in Greene County, Missouri (abstract): Missouri Acad. Sci. Proc., vol. 1, ser. 2, p. 34, April 1964.
3. Cutters and pinnacles in Greene County, Missouri: Natl. Speleol. Soc. Bull., vol. 27, no. 4, pp. 143-150, 14 figs., October 1965.
4. Effects of the Good Friday Alaskan earthquake in southwestern Missouri: Missouri Mineral Industry News, vol. 5, no. 1, pp. 1-4, January 1965.

Fine, M. M. Refer also to Frommer, D. W.

1. (and Frommer, D. W.). Experiments in concentrating iron ore from the Pea Ridge deposit, Missouri: Min. Eng., vol. 11, no. 3, pp. 325-328, figs. 1-3, March 1959.

Fischer, A. G.

1. Stratigraphic record of transgressing seas in light of sedimentation on Atlantic coast of New Jersey: Am. Assoc. Petroleum

Geologists Bull., vol. 45, no. 10, pp. 1656-1666, 5 figs., October 1961.

Fisher, Robert W. Refer to Swann, David H.

Fisher, William L.

1. Stratigraphic names in the Midway and Wilcox groups of the Gulf Coastal Plain: Univ. of Texas, Bur. Econ. Geology, Rept. Inv. 44, pp. 263-295, October 1961; Reprinted from Trans. of Gulf Coast Asscc. of Geol. Soc. vol. 11, pp. 263-295, 1961.

Fix, Carolyn E.

1. Selected annotated bibliography of the geology and occurrence of uranium-bearing marine black shales in the United States: U. S. Geol. Survey, Bull. 1059-F, pp. 263-325, 1958.

Fleener, Frank L.

1. Our fascinating, enigmatic geodes: Earth Sci., vol. 14, no. 1, pp. 24-27, illus., February 1961.

Fleischer, Michael

1. Fluoride content of ground water in the conterminous United States: U. S. Geol. Survey, Misc. Geol. Inv., Map I-387, 1962.

Fletcher, P. W.

1. (and McDermott, R. E.). Influence of geologic parent material and climate on distribution of shortleaf pine in Missouri: Univ. of Missouri, Agri. Exp. Sta. Research Bull. 625, 42 pp., 25 figs., April 1957.

Foley, James M. Refer to Bowles, O.

Forbes, Gerald E.

1. Ground-water geology of Boone County, Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, June 1958.

Forbes, Jachin M.

1. Iron ore: U. S. Bur. Mines, Minerals Yearbook-1953, vol. 1, pp. 545-574, 1956.

Foweraker, John C.

1. Quantitative studies in river sinuosity with special reference to incised meanders of Ozark rivers: unpublished Doctoral dis-

sertation, Washington Univ., St. Louis, Missouri, August 1963.

Fowler, George M.

1. Geochemical prospecting in the Mississippi Valley (abstract): Min. Cong. Jour., vol. 36, no. 12, p. 69, 1959.
2. Structural deformation and ore deposits: Eng. Min. Jour., vol. 161, no. 6, pp. 183-188, 5 figs., June 1960.

Frank, Albert J.

1. Magnetic data and petrographic analyses of Precambrian rocks of Missouri (abstract): Geol. Soc. America, Program 1958 Ann. Mtgs., p. 63, November 1958; Geol. Soc. America Bull., vol. 69, no. 12, pt. 2, p. 1566, December 1958.

Fraunfelter, George H.

1. The paleontology and stratigraphy of the Cedar City Formation (Middle Devonian) of Missouri: unpublished Doctoral dissertation, Univ. of Missouri at Columbia, Columbia, Missouri, June 1962.
2. A new Pennsylvanian Dibunophyllid coral from Missouri: Missouri Geol. Survey and Water Resources, Rept. Inv. 32, 8 pp., 1 fig., 1965.
3. *Gennaeocrinus* sp. from the Glen Park Formation of northeastern Missouri: Illinois Acad. Sci. Trans., vol. 58, no. 3, pp. 204-205, illus., 1965.

Freeman, Tom

1. Post-lithification dolomite in the Joachim and Plattin Formations (Ordovician), northern Arkansas (abstract): Geol. Soc. America, Program 1965 Ann. Mtgs., p. 58, November 1965.

French, Gordon B.

1. Precambrian geology of Washington County area, Missouri: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1956.

Frey, Richard P.

1. Studies on some recent fresh-water ostracodes of St. Louis County, Missouri: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1963.

Frezon, Sherwood E.

1. (and Glick, Ernest E.). Pre-Atoka rocks of northern Arkansas: U. S. Geol. Survey, Prof. Paper 314-H, pp. 171-189, pls. 20-31, fig. 37, 1959.

Frommer, D. W. Refer also to Fine, M. M.

1. (and Fine, M. M.). Mineral-dressing investigations of the recovery of pyromorphite from a Newton County, Missouri deposit: U. S. Bur. Mines, Rept. Inv. 5246, 5 pp., 1956.

Frouzan, Faramarz

1. Cyclic sedimentation of the Upper Fayetteville formation: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1960.

Frye, John C. Refer also to Willman, H. B.

1. (and Willman, H. B.). Development of Wisconsinan classification in Illinois related to radiocarbon chronology: *Geol. Soc. America Bull.*, vol. 74, no. 4, pp. 501-506, 1 fig., April 1963.
2. (Glass, H. D.; Leonard, A. B.; and Willman, H. B.). Late Pleistocene loesses of midwestern United States of America: *Białe tyn Peryglacjalny*, nr 12, pp. 111-118, 3 figs., 1963 (Illinois State Geological Survey, Reprint Series, 1964 H.)

Fuller, Dale L. Refer also to Howe, W. B.

1. Groundwater quality map of deep aquifers in Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, March 1963.

Furnish, W. M. Refer also to Miller, A. K.; Ethington, R. L.; and Rexroad, Carl B.

1. (and Beghtel, F. W.). A new Desmoinesian ammonoid genus from Oklahoma: *Oklahoma Geology Notes*, vol. 21, no. 11, pp. 289-293, 1 fig., November 1961.

Galbreath, Edwin C.

1. A Dire Wolf skeleton and Powder Mill Creek Cave, Missouri: *Illinois State Acad. Sci. Trans.*, vol. 57, no. 4, pp. 224-242, 4 figs., 3 tables, 1964.

Gallaher, Joseph J.

1. Bituminous coal and lignite distribution, calendar year 1963: U. S. Bur. Mines, Mineral Industry Survey, Bituminous Coal and Lignite Distribution, Quart., 21 pp., March 1964.
2. Bituminous coal and lignite distribution, calendar year 1964: U. S. Bur. Mines, Mineral Industry Surveys, Bituminous Coal and Lignite Distribution, Quart., 21 pp., March 1965.
3. Bituminous coal and lignite; changing patterns in distribution and markets 1962-1964: U. S. Bur. Mines, Mineral Industry Surveys, Bituminous Coal and Lignite Distribution, Quart., 71 pp., May 1965.

Galloway, J. J.

1. (and St. Jean, J., Jr.). Ordovician Stromatoporoidea of North America: *Bull. Am. Paleontology*, vol. 43, no. 194, 102 pp., 13 pls., May 1961.

Gamble, James C. Refer to Wanless, Harold R.**Ganguli, Debkumar**

1. Gravity survey of part of St. Clair Quadrangle, Missouri: unpublished Masters thesis, St. Louis Univ., St. Louis, Missouri, 1955.

Garner, H. F.

1. Upper Paleozoic stratigraphy and sedimentation of northern Arkansas (abstract): *Geol. Soc. America, Program 1960 Ann. Mtgs.*, p. 102, October 1960; *Geol. Soc. America Bull.*, vol. 71, no. 12, p. 1870, December 1960.

Gazdik, G. C.

1. (and Tagg, Kathleen M.). Annotated bibliography of high-calcium limestone deposits in the United States including Alaska, to April 1956: *U. S. Geol. Survey, Bull.* 1019-I, pp. 675-713, 1957.

Gealy, John R.

1. Geology of Cape Girardeau and Jonesboro Quadrangles, southeastern Missouri: unpublished Doctoral dissertation, Yale Univ., New Haven, Connecticut, 1955.

Gednetz, D. R. Refer Tubb, J. B., Jr.**Gednetz, Donald.** Refer also to Wanless, Harold R.

1. (and Wanless, Harold R.). Environmental mapping of the St. David cyclothem, Eastern and Western Interior coal basins (abstract): *Geol. Soc. America, Program 1957 Ann. Mtgs.*, p. 64, November 4-6, 1957; *Geol. Soc. America Bull.*, vol. 68, no. 12, p. 1734, December 1957.

Gehrig, John L.

1. Middle Pennsylvanian brachiopods from the Mud Springs Mountains and Derry Hills, New Mexico: *New Mexico State Bur. of Mines and Mineral Resources, Mem.* 3, 24 pp., 6 pls., 1 fig., 1958.

Gentile, Richard J. Refer also to Parizek, Eldon J.; and Gerdemann, Paul E.

1. The Butler channel-fill deposit, central Bates County, Missouri (abstract): *Missouri Acad. Sci. Proc.*, vol. 1, ser. 2, p. 40, April 1964.
2. Mineral commodities of Putnam County: *Missouri Geol. Survey and Water Resources*, Rept. Inv. 29, 48 pp., 2 pls., 8 figs., 5 tables, 1965.
3. Influence of structure on sedimentation during the Pennsylvanian Period, western Missouri (abstract): *Missouri Acad. Sci. Proc.*, vol. 2, ser. 2, pp. 55-56, April 1965.
4. Stratigraphy, sedimentation and structure of the upper Cherokee and lower Marmaton (Pennsylvanian) rocks of Bates County and portions of Henry and Vernon Counties, Missouri: unpublished Doctoral dissertation, Univ. of Missouri at Rolla, Rolla, Missouri, June 1965.
5. Economic mineral commodities of the Kansas City area in *Guidebook*, annual meeting, Geological Society of America, geology of the Kansas City Group at Kansas City: *Missouri Geol. Survey and Water Resources*, Rept. Inv. 31, pp. 50-57, 1 pl., November 1965.

Geraghty, James J. Refer to Miller, David W.

Gerdemann, Paul E. Refer to Snyder, F. G.

Gerhard, Lee C. Refer to Dellwig, L. F.

Gerlach, George S.

1. A regional gravity survey of St. Francois Mountains of Missouri: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1959.

Gibson, Arrell M.

1. Lead mining in southwest Missouri to 1865: *Missouri Hist. Rev.*, vol. 53, no. 3, pp. 197-205, illus., April 1959.

Gillette, Tracey. Refer to Workman, L. E.

Ginzler, Edwin C.

1. Earth waves generated from quarry blasts: unpublished Masters thesis, St. Louis Univ., St. Louis, Missouri, 1958.

Glaab, Charles N.

1. The Maramec Iron Works: *Univ. of Missouri Bull.*, vol. 58, no. 37, library series, no. 25, 32 pp., November 1957.

Glass, H. D. Refer to Pryor, W. A.; and Frye, J. C.

Glenister, Anne T.

1. The conodonts of the Ordovician Maquoketa formation in Iowa: *Jour. Paleontology*, vol. 31, no. 4, pp. 715-736, pls. 85-88, 3 text-figs., July 1957.

Glenn, Jerry L.

1. Missouri valley studies: Alluvial morphology and engineering soil classification: unpublished Masters thesis, Iowa State Univ., Ames, Iowa, 1960.

Glick, E. E. Refer to Frezon, S. E.**Glover, A. D.** Refer to Tubb, J. B., Jr.**Goodfield, Alan G.**

1. Pleistocene geology of the Monroe City-Center area, northeastern Missouri: unpublished Masters thesis, Univ. of Illinois, Urbana, Illinois, 1963.

Goodwin, Michael

1. Some seismic studies of the southeast Missouri earthquake of March 3, 1963 (abstract): *Missouri Acad. Sci. Proc.*, vol. 2, ser. 2, p. 56, April 1965.

Gouty, John J. Refer to Echols, D. J.**Govett, Ray**

1. The geology of the Cabaniss-Arepelar area, Pittsburg County, Oklahoma: *Compass*, vol. 36, no. 3, pp. 138-151, March 1959.

Graf, Robert B.

1. Some pedologic implications of the serial variations in the mineralogy of silt and clay fractions of gumbotil: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, June 1958.

Grametbaur, Agnes B.

1. Selected bibliography of andalusite, kyanite, sillimanite, dumortierite, topaz, and pyrophyllite in the United States: *U. S. Geol. Survey, Bull.* 1019-N, pp. 973-1046, pl. 6, 1959.

Granata, Harold P.

1. Ostracodes from the Coon Creek tongue of the Ripley formation of McNairy County, Tennessee: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1960.

Gravely, Marion S., Jr.

1. The geology of southwestern Madison County, Missouri: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1960.

Grawe, Oliver R. Refer also to Hagni, Richard D.

1. Directory of Missouri geologists and geophysicists: Assoc. Missouri Geologists, 74 pp., June 1962.
2. Directory of Missouri geologists and geophysicists: Assoc. Missouri Geologists, 80 pp., June 1964.

Greenberg, S. S.

1. (and Vitaliano, Charles J.). Basalt from a deep well in Lawrence County, Indiana in Geological notes: Jour. Geology, vol. 70, no. 4, pp. 482-488, 2 figs., July 1962.

Greenspoon, Gertrude N. Refer to Meyer, H. M.

Gregson, Victor G., Jr.

1. A regional gravity survey of parts of Franklin, Crawford, and Washington Counties, Missouri: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, June 1958.

Grenia, J. D.

1. Precambrian topography and rock types: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1960.

Griffin, John J.

1. Clay mineralogy of the Mississippi River and major tributaries: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, June 1958.

Grinnell, Robert S., Jr.

1. (and Andrews, George W.). Morphologic studies of the brachiopod genus *Composita*: Jour. Paleontology, vol. 38, no. 2, pp. 227-248, pls. 37-39, 9 figs., March 1964.

Grohskopf, John G.

1. Some results of magnetometric surveying in Missouri: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1931.

Guinee, J. W.

1. Field studies of soil stabilization with phosphoric acid: Natl. Research Council, Highway Research Board, Bull. 318 (Natl.

Acad. Sci.—Natl. Research Council, Pub. 964), pp. 72-82, 12 figs., 8 tables, 1962.

Guldenzopf, Emil C.

1. The conodont fauna and stratigraphy of the Pecatonica Member of the Platteville Formation: unpublished Masters thesis, Univ. of Iowa, Iowa City, Iowa, 1964.

Gunsallus, Brooke L.

1. Clays in Mineral facts and problems: U. S. Bur. Mines, Bull. 556, pp. 185-201, 1956.
2. (and Blankenbaker, Eleanor V.). Clays: U. S. Bur. Mines, Minerals Yearbook—1953, vol. 1, pp. 331-351, 1956.

Gupta, Sujoy

1. Palynology of Grassy Creek and Saverton shales of Missouri: unpublished Doctoral dissertation, Univ. of Missouri at Columbia, Columbia, Missouri, June 1965.

Gutschick, Raymond C.

1. (and Treckman, John F.). Lower Mississippian cephalopods from the Rockford limestone of northern Indiana: Jour. Paleontology, vol. 31, no. 6, pp. 1148-1153, pls. 143-144, 3 text-figs., November 1957.
2. Lower Mississippian holothurian sclerites from the Rockford limestone of northern Indiana: Jour. Paleontology, vol. 33, no. 1, pp. 130-137, pls. 25-26, text-figs. 1-6, January 1959.
3. (and Treckman, John F.). Arenaceous Foraminifera from the Rockford limestone of northern Indiana: Jour. Paleontology, vol. 33, no. 2, pp. 229-250, pls. 33-37, 3 text-figs., March 1959.
4. Early Mississippian (Lower Carboniferous-Tournaisian) micropaleontology in the United States: Internatl. Geol. Cong., 21st Internatl. Session, Norden, pt. 6, pre-Quaternary Micropaleontology, Copenhagen, 1960.
5. (Weiner, John L.; and Young, Leighton). Lower Mississippian arenaceous Foraminifera from Oklahoma, Texas, and Montana: Jour. Paleontology, vol. 35, no. 6, pp. 1193-1221, pls. 147-150, 5 figs., November 1961.
6. Arenaceous Foraminifera from oncolites in the Mississippian Sappington formation of Montana: Jour. Paleontology, vol. 36, no. 6, pp. 1291-1304, pls. 174-175, 6 figs., November 1962.

Gutstadt, Allan M.

1. Upper Ordovician stratigraphy in Eastern Interior region: Am. Assoc. Petroleum Geologists Bull., vol. 42, no. 3, pp. 513-547, 10 figs., March 1958.

Haack, David A.

1. The geology of the Selma Farm area, Jefferson County, Missouri: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1955.

Habib, Daniel. Refer also to Hornbaker, A. L.

1. Palynological correlation of the Bevier and Wheeler coals: unpublished Masters thesis, Univ. of Kansas, Lawrence, Kansas, 1960.

Haddad, George A., Jr.

1. Missouri mine reopened (Radium Springs, Barry County): Uranium Inf. Digest, vol. 3, no. 1, January 1956.

Hagni, Richard D.

1. Mineral paragenesis and trace element distribution in the Tri-State zinc-lead district, Missouri, Kansas, and Oklahoma: unpublished Doctoral dissertation, Univ. of Missouri, Columbia, Missouri, January 1962.
2. (and Grawe, Oliver R.). Mineral paragenesis in the Tri-State district, Missouri, Kansas, Oklahoma (abstract): Min. Eng., vol. 15, no. 1, p. 61, January 1963.
3. (and Grawe, Oliver R.). Tabular review of the genesis of Tri-State ores in Guidebook to the geology in the vicinity of Joplin, Missouri, including Westside-Webber mine, Oklahoma: Assoc. Missouri Geologists, Tenth Ann. Field Trip, pp. 36-44, September 1963.
4. (and Grawe, Oliver R.). Mineral paragenesis in the Tri-State district, Missouri, Kansas, Oklahoma: Econ. Geology, vol. 59, no. 3, pp. 449-457, 1 fig., 1964.
5. (and Saadallah, Adnan A.). Alteration of host rock limestone adjacent to zinc-lead ore deposits in the Tri-State district, Missouri, Kansas, and Oklahoma: Econ. Geology, vol. 60, pp. 1607-1619, 8 figs., December 1965.

Hail, W. J., Jr.

1. Reconnaissance for uranium in asphalt-bearing rocks in the western United States: U. S. Geol. Survey, Bull. 1046-E, pp. i-iv, 55-85, figs. 14-15, tables 1-10, 1957.

Hall, Donald D. Refer to Driscoll, Egbert G.

Haller, C. P. Refer to Aresco, S. J.

Haller, C. Regis

1. Devonian-Mississippian boundary relationships in central Mis-

souri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1957.

Hambleton, William W. Refer also to Merriam, D. F.

1. (and Merriam, Daniel F.). Review of geophysical activity in Kansas through 1956: Kansas State Geol. Survey, Bull. 127, pt. 1, pp. 1-24, 1957.
2. (Lyden, Joseph P.; and Brockie, Douglas, C.). Geophysical investigations in the Tri-State zinc and lead mining district in Symposium on geophysics in Kansas: Kansas State Geol. Survey, Bull. 137, pp. 357-375, figs. 1-6, 1959; (abstract) Geophys. Abstracts 178: U. S. Geol. Survey, Bull. 1106-C, p. 316, July-September 1959.

Hammond, Edwin H.

1. Procedures in the descriptive analysis of terrain: Geography Branch, Earth Sciences Division, Office of Naval Research, Navy Department, Project No. NR 387-015, 151 pp., 2 figs., 12 pls., July 1958.

Handy, R. L. Refer to Daniels, R. B.

Hanley, Franklin B.

1. Stream piracy near Allenton, St. Louis County, Missouri: Washington Univ. Studies, vol. 12, Scientific ser., no. 1, pp. 45-52, pls. 1-3, 1924.

Hansen, Blanche E. Refer to Wilson, Druid.

Hansink, James D.

1. (and Belt, Charles B.). Geology of the Graniteville granite, Missouri (abstract): Geol. Soc. America, Program 1965 Ann. Mtgs., p. 71, November 1965.
2. Geology of the Graniteville granite, Missouri: unpublished Masters thesis, St. Louis Univ., St. Louis, Missouri, 1965.

Harbaugh, John W.

1. Mississippian bioherms in northeast Oklahoma: Am. Assoc. Petroleum Geologists Bull., vol. 41, no. 11, pp. 2530-2544, 14 figs., November 1957.

Harbaugh, Terence E.

1. A study of small water sheds within the state of Missouri: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1962.

Harbeck, G. Earl, Jr. Refer to Thomas, N. O.

Hare, E. H. Refer to Brockie, D. C.

Harris, Donald G.

1. A study of Meramec and lower Chester strata in northeastern Oklahoma, southwestern Missouri, and northwestern Arkansas: unpublished Masters thesis, Univ. of Oklahoma, Norman, Oklahoma, 1956; *Compass*, vol. 33, no. 3, pp. 228-272, 1956.

Harris, Stanley E., Jr.

1. (and Parker, Mary C.). Stratigraphy of the Osage Series in southeastern Iowa: Iowa Geol. Survey, Rept. Inv. 1, 52 pp., 17 figs., 7 pls., 1964.

Harvey, Edward J.

1. (and Maxwell, James C.). Use of abandoned strip mines as potential water source, Joplin District, Missouri (preprint): Soc. Min. Eng., Preprint No. 651308, 14 pp., 7 figs., October 1965.

Hass, Wilbert H.

1. Age and correlation of the Chattanooga shale and the Maury formation: U. S. Geol. Survey, Prof. Paper 286, 47 pp., 5 pls., 1 fig., 1956.
2. Conodonts from the Chappel limestone of Texas: U. S. Geol. Survey, Prof. Paper 294-J, pp. 365-399, pls. 46-50, fig. 121, 1959.

Hatcher, David A.

1. Stratigraphy of the Pleasanton Group in Miami, Linn, and Bourbon Counties, Kansas: unpublished Masters thesis, Univ. of Kansas, Lawrence, Kansas, 1961.

Hatcher, Roy A., Jr.

1. The gastropods of the loess of southern Boone County, Missouri: unpublished Masters thesis, Univ. of Missouri at Columbia, Columbia, Missouri, 1956.

Hawksley, Oscar

1. (and Vineyard, Jerry D.). Missouri spelunkers explore Devil's Well: *Natl. Speleol. Soc. News*, vol. 14, no. 6, pp. 56-59, June 1956.
2. (Reynolds, Jack; and McGowan, Jerry). The Dire Wolf in Missouri: *Missouri Speleology*, vol. 5, no. 1, pp. 63-72, 3 figs., 3 tables, October 1963.

3. Short-faced bear (*Arctodus*) fossils from Ozark caves: *Natl. Speleol. Soc. Bull.*, vol. 27, no. 3, pp. 77-92, 8 figs., 3 tables, July 1965.

Hayes, John B.

1. Geodes and concretions from the Mississippian Warsaw formation, Keokuk region, Iowa, Illinois, Missouri: *Jour. Sed. Petrology*, vol. 34, no. 1, pp. 123-133, 12 figs., March 1964.

Hayes, John R.

1. Quartz and feldspar content in South Platte, Platte, and Missouri River sands: *Jour. Sed. Petrology*, vol. 32, no. 4, pp. 793-800, 3 figs., December 1962.

Hayes, Miles O.

1. Petrology of the Krebs Subgroup (Desmoinesian) of western Missouri: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1960.
2. Petrology of Krebs Subgroup (Pennsylvanian, Desmoinesian) of western Missouri: *Am. Assoc. Petroleum Geologists Bull.*, vol. 47, no. 8, pp. 1537-1551, 7 figs., 3 pls., 2 tables, August 1963.

Hayes, Walter. Refer to Scharon, LeRoy.

Hayes, William C. Refer also to Diamond, W. G.; Meidav, T.; and Kuklis, A.

1. Exploration and development of the sedimentary iron ores of Missouri: *Missouri Geol. Survey and Water Resources, Inf. Circ.* 14, 33 pp., 3 figs., 1957.
2. Secondary limonite deposits of southern Missouri (abstract): *Geol. Soc. America Bull.*, vol. 69, no. 12, pt. 2, p. 1714, December 1958.
3. Geology and exploration of Missouri iron deposits: *Missouri Geol. Survey and Water Resources, Misc. Pub.*, 16 pp., November 1959; (abstract) *Mid. Am. Minerals Conf.*, October 1958; *Min. Eng.*, vol. 11, p. 13, January 1959.
4. Chemical analyses, Precambrian rocks of Missouri: *Missouri Geol. Survey and Water Resources, Misc. Pub.*, 14 pp., June 1959.
5. Major Missouri ore discoveries: *Min. World*, vol. 22, no. 9, pp. 22-24, illus., August 1960.
6. Configuration of the Precambrian surface showing major structural lineaments: *Missouri Geol. Survey and Water Resources, Rolla, Missouri*, 1 sheet, 1960.
7. Iron and lead exploration in Missouri in Guidebook, twenty-sixth annual field conference, Kansas Geological Society: *Mis-*

- souri Geol. Survey and Water Resources, Rept. Inv. 27, pp. 164-168, 1 fig., September 1961.
8. (and others). Guidebook to the geology of the St. Francois Mountain area: Missouri Geol. Survey and Water Resources, Rept. Inv. 26, 137 pp., illus., October 1961.
9. Precambrian rock units in Missouri *in* Guidebook to the geology of the St. Francois Mountain area: Missouri Geol. Survey and Water Resources, Rept. Inv. 26, pp. 81-83, October 1961.
10. Physiographic features of the St. Francois Mountains *in* Guidebook to the geology of the St. Francois Mountain area: Missouri Geol. Survey and Water Resources, Rept. Inv. 26, pp. 115-118, October 1961.
11. Geologic aspects of underground facilities *in* Corporate officers symposium on underground facilities: The Natl. Inst. for Disaster Mobilization, Inc., and State of Missouri Commerce and Industrial Development Division, pp. 102-105, June 1962.
12. (and Searight, W. V.). Major mineral commodity areas of Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1962.
13. Directory of Missouri mineral producers and processors: Missouri Geol. Survey and Water Resources, Misc. Pub., 63 pp., April 1964.
14. Engineering geology of Union Electric Company's Taum Sauk pumped storage project, Missouri (abstract): Min. Eng., vol. 16, no. 7, p. 128B, July 1964.
15. Recent mineral discoveries in Missouri—their economic impact: Missouri Mineral Industry News, vol. 5, no. 4, pp. 26-35, 3 figs., 3 tables, April 1965.

Hays, Walter W.

1. A paleomagnetic investigation of some of the Precambrian igneous rocks of southeast Missouri: unpublished Doctoral dissertation, Washington Univ., St. Louis, Missouri, June 1962.
2. (and Scharon, LeRoy). An example of the influence of remanent magnetization on magnetic intensity measurements: Geophysics, vol. 28, no. 6, pp. 1037-1048, 11 figs., 1 table, December 1963.

Heald, Milton T.

1. Cementation of Simpson and St. Peter sandstones in parts of Oklahoma, Kansas, and Missouri: Jour. Geology, vol. 64, no. 1, pp. 16-30, January 1956.

Hedges, James

1. Artesian origin of fissure caves in Missouri: Discussion: Natl. Speleol. Soc. Bull., vol. 27, no. 3, pp. 104-105, July 1965.

Heflin, Larry H.

1. The geology of the southern half of the Warrenton Quadrangle, Missouri: unpublished Masters thesis, Univ. of Missouri at Columbia, Columbia, Missouri, 1961.

Heidel, S. G. Refer to Woodard, T. H.

Heigold, Paul C.

1. The crustal structure of the St. Louis area determined from the phase velocity of Rayleigh waves: unpublished Masters thesis, St. Louis Univ., St. Louis, Missouri, 1961.

Heim, George E. Refer also to Meidav, T.

1. (Martin, J. A.; and Howe, W. B.). Preliminary report on the groundwater resources of Nodaway County: Missouri Geol. Survey and Water Resources, Groundwater Rept. 16, 24 pp., 2 pls., 1 fig., 1959.
2. (Martin, J. A.; and Howe, W. B.). Preliminary report, groundwater resources of Holt County, Missouri: Missouri Geol. Survey and Water Resources, Groundwater Rept. 17, 21 pp., 2 pls., 2 figs., 1960.
3. (Martin, J. A.; and Howe, W. B.). Preliminary report, groundwater resources of Atchison County, Missouri: Missouri Geol. Survey and Water Resources, Groundwater Rept. 18, 20 pp., 2 pls., 2 figs., 1960.
4. (and Howe, W. B.). Pleistocene drainage and depositional history in northwestern Missouri: Kansas Acad. of Sci. Trans., vol. 66, no. 3, pp. 378-392, 3 figs., 2 tables, 1963.
5. The Pleistocene and engineering geology of the Hannibal-Canton area, Missouri: unpublished Doctoral dissertation, Univ. of Illinois, Urbana, Illinois, 1963.
6. (and Howe, W. B.). Map of bedrock topography of northwestern Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, March 1963.
7. Correlation of Pleistocene deposits exposed in the vicinity of Hannibal, Missouri, with those in Illinois (abstract): Geol. Soc. America, Program 1964 Ann. Mtgs., p. 89, November 1964.

Heinrich, Ross R.

1. Earthquakes and structural trends in the central stable region of the North American Continent—Part 1 (Regional consideration); Part 2, The New Madrid Area: Earthquake Notes, vol. 26, no. 1, pp. 7-8, March 1955; no. 2, pp. 16-20, illus., June 1955.

Helwig, James A.

1. Geology of Carroll Cave, Camden County, Missouri: unpublished thesis, St. Louis Univ., St. Louis, Missouri, 1963.
2. Stratigraphy of detrital fills of Carroll Cave, Camden County, Missouri: Missouri Speleology, vol. 6, no. 1, pp. 1-5, 3 figs., 1 pl., 2 tables, January 1964.
3. Geology of Carroll Cave, Camden County, Missouri: Natl. Speleol. Soc. Bull., vol. 27, no. 1, pp. 11-26, 11 figs., January 1965.

Henbest, Lloyd G.

1. Fossil spores and their environmental significance in Morrow and Atoka Series, Pennsylvanian, Washington County, Arkansas, in Geological Survey research 1960, pp. B383-B385, fig. 177.1: U. S. Geol. Survey, Prof. Paper 400-B, 1960.

Henderson, Gerald E.

1. Analysis of problems in the performance of a natural gas storage reservoir: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1963.

Henderson, John R. Refer to Keller, Fred Jr.

Henderson, L. Brooke

1. Geological study and mapping of Desmoinesian (Pennsylvanian) rocks in the Montrose Quadrangle, Henry County, Missouri: unpublished Masters thesis, Univ. of Iowa, Iowa City, Iowa, 1958.

Henderson, Roland G.

1. (and Zietz, Isidore). Magnetic-doublet theory in the analysis of total intensity anomalies: U. S. Geol. Survey, Bull. 1052-D, pp. 159-186, figs. 27-43, 1958.

Hendren, John B.

1. Coral zonation of the Callaway formation, Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1956.

Hendricks, E. L.

1. Floods of May 14-16 in southern Missouri in Summary of floods in the United States during 1956: U. S. Geol. Survey, Water-Supply Paper 1530, pp. 29-30, 1 fig., 2 tables, 1964.

Hendriks, H. E.

1. The Crooked Creek structure in Guidebook, annual meeting Geological Society of America, cryptoexplosive structures in

Missouri: Missouri Geol. Survey and Water Resources, Rept. Inv. 30, pp. 68-72, November 1965.

Henshaw, Paul C.

1. Exploration for lead in southeast Missouri: Min. Cong. Jour., vol. 51, no. 12, pp. 28-30, illus., December 1965.

Herod, Buren C.

1. Missouri block plant diversifies production: Pit and Quarry, vol. 49, no. 3, pp. 278-280, 292, September 1956.
2. Ash Grove Lime installs first shaft kilns of their type in America: Pit and Quarry, vol. 49, no. 6, pp. 92-95, 104, December 1956.
3. New Cape Girardeau mill—No. 10 in Marquette chain: Pit and Quarry, vol. 51, no. 1, pp. 154-160, illus., July 1958.
4. Small operation displays ability: Pit and Quarry, vol. 52, no. 12, pp. 113-115, illus., June 1960.
5. Missouri firm records steady growth: Pit and Quarry, vol. 53, no. 2, pp. 116-120, illus., August 1960.
6. Ash Grove Lime—industry pacesetter—takes another impressive step forward: Pit and Quarry, vol. 56, no. 5, pp. 88-99, illus., November 1963.
7. Missouri producer capitalizes on clean raw material reserves: Pit and Quarry, vol. 55, no. 10, pp. 143-144, illus., April 1963.
8. Galloway Limestone Company: Pit and Quarry, vol. 56, no. 11, pp. 131-133, illus., May 1964.

Herold, P. G.

1. (Kurtz, P., Jr.; Planje, T. J.; and Plunkett, J. D.). Study of Missouri shales for lightweight aggregate: Missouri Geol. Survey and Water Resources, Rept. Inv. 23, 39 pp., 11 figs., 5 tables, 1958.

Hessler, Robert R.

1. The Lower Mississippian genus *Proetides* (Tril.): Jour. Paleontology, vol. 36, no. 4, pp. 811-816, pl. 19, 2 figs., July 1962.
2. Lower Mississippian trilobites of the family Proetidae in the United States, Part I: Jour. Paleontology, vol. 37, no. 3, pp. 543-563, pls. 59-62, May 1963.
3. Lower Mississippian trilobites of the family Proetidae in the United States, Part II: Jour. Paleontology, vol. 39, no. 2, pp. 248-264, pls. 37-40, 1 fig., March 1965.

Heyl, A. V. Refer also to Zartman, R. E.; and Kiilsgaard, Thor H.

1. (and Brock, M. R.). Structural framework of the Illinois-Kentucky mining district and its relation to mineral deposits in

- Geological Survey research 1961: U. S. Geol. Survey, Prof. Paper 424-D, art. 294, pp. D. 3-D. 6, figs. 294.2, 1961.
2. (and Bozion, C. N.). Oxidized zinc deposits of the United States, Part 1, general geology: U. S. Geol. Survey, Bull. 1135-A, 52 pp., 1 pl., 10 figs., 1962.
 3. (Brock, M. R.; Jolly, J. L.; and Wells, C. E.). Regional structure of the southeast Missouri and Illinois-Kentucky mineral districts: U. S. Geol. Survey, Bull. 1202-B, 20 pp., 2 figs., 3 pls., 1 table, 1965.

Hill, Wayne N.

1. Ostracoda from the Bloomsdale member of the Plattin formation (middle Ordovician) of eastern Missouri: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1957.

Hoag, William M.

1. Porosity and permeability of various Paleozoic sediments in Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1957.

Hoare, Richard D.

1. Desmoinesian Brachiopoda and Mollusca from southwest Missouri: unpublished Doctoral dissertation, Univ. of Missouri, Columbia, Missouri, 1957; (abstract): Am. Assoc. Adv. Sci., Program and Abstracts, Sec. E. (Geology and Geography), p. 11, December 1957; Geol. Soc. America Bull., vol. 68, no. 12, pt. 2, p. 1893, December 1957.
2. New Pennsylvanian Brachiopoda from southwest Missouri: Jour. Paleontology, vol. 34, no. 2, pp. 217-232, pls. 31-33, March 1960.
3. New Pennsylvania Brachiopoda from southwest Missouri; correlations: Jour. Paleontology, vol. 35, no. 2, pp. 401-402, March 1961.
4. Desmoinesian Brachiopoda and Mollusca from southwest Missouri: Univ. of Missouri Studies, vol. 36, xiv 262 pp., 23 pls., 1 fig., 1961.

Hoertel, F. W. Refer to Kershner, K. K.

Hoffman, H. A.

1. Recent St. Joe milling advancement in southeast Missouri (abstract): Min. Eng., vol. 10, no. 12, p. 1227, December 1958; Mid-America Minerals Conf., October 1958.
2. Southeast Missouri milling process—and a ten-year look ahead: Eng. and Min. Jour., vol. 160, no. 9, pp. 102-108, illus., September 1959.

Hofmann, Renner B.

1. Contribution of subsoil to microseismic interference at Florissant, Missouri: unpublished Masters thesis, St. Louis Univ., St. Louis, Missouri, 1956.

Holliday, W.

1. Iron in Mineral facts and problems: U. S. Bur. Mines, Bull. 556, pp. 371-398, 1956.

Holman, J. Alan

1. A late Pleistocene herpetofauna from Missouri: Illinois Acad. Sci. Trans., vol. 58, no. 3, pp. 190-194, 1965.

Holmer, Ralph C.

1. Geochemistry and geophysics in 1956: Min. Eng., vol. 9, no. 2, pp. 208-221, February 1957.

Hood, William C.

1. Unusual crystal groups from Greene County, Missouri: Am. Mineralogist, vol. 47, nos. 7-8, pp. 1000-1001, 2 figs., July-August 1962.

Horberg, Leland

1. Pleistocene deposits along the Mississippi Valley in central-western Illinois: Illinois State Geol. Survey, Rept. Inv. 192, 39 pp., 1 pl., 15 figs., 1 table, 1956.
2. (and Anderson, Richard C.). Bedrock topography and Pleistocene glacial lobes in central United States: Jour. Geology, vol. 64, no. 2, pp. 101-116, 2 figs., March 1956.

Hornbaker, Allison L.

1. (and Habib, Daniel). Palynological correlation of upper Cherokee coals of Kansas, Missouri, and Iowa (abstract): Geol. Soc. America, Program 1961 Ann. Mtgs., p. 76A, November 1961.

Horne, John C. Refer to Wanless, Harold R.

Hosman, R. L. Refer to Cushing, E. M.

House, Michael R.

1. Observations on the ammonoid succession of the North American Devonian: Jour. Paleontology, vol. 36, pt. 1, pp. 247-284, pls. 43-48, 15 figs., 1962.

Hover, Frank B.

1. Geology of the east half of the Johnstown and Creighton Quadrangles, Henry County, Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1958.

Howe, Wallace B. Refer also to Heim, George E.; and Spreng, A. C.

1. Stratigraphy of pre-Marmaton Desmoinesian (Cherokee) rocks in southeastern Kansas: Kansas State Geol. Survey, Bull. 123, 132 pp., 10 pls., 8 figs., 1956.
2. (and Fuller, Dale L.). Groundwater reconnaissance in northwestern Missouri (abstract): Geol. Soc. America, Program 1961 Ann. Mtgs., p. 77A, November 1961.
3. (Koenig, John W.; and others). The stratigraphic succession in Missouri: Missouri Geol. Survey and Water Resources, 2nd ser., vol. 40, 185 pp., 1 pl., 27 figs., September 1961.
4. Current thesis projects in Missouri: Missouri Mineral Industry News, vol. 5, no. 7, pp. 64-68, July 1965.
5. Survey of current thesis projects in Missouri: Missouri Mineral Industry News, vol. 5, no. 1, pp. 5-7, January 1965.

Howell, Benjamin F.

1. New carbonaceous serpulid worm from Missouri: Wagner Free Inst. Sci. Bull., vol. 27, no. 4, pp. 37-40, November 1952.
2. The trilobite, *Bumastus billingsi* in the Ordovician Kimmswick formation of Missouri: Wagner Free Inst. Sci. Bull., vol. 28, no. 2, pp. 5-6, May 1953.

Hsu, I. Chi

1. Paleomagnetic investigations of some of the Precambrian volcanic rocks in the St. Francois Mountains, Missouri: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, June 1962.

Hubert, John F. Refer also to Doty, R. W.; and Loeff, Carl M.

1. (and Doty, Robert W.). Mineral composition and origin of the Warrensburg channel sandstone, western Missouri (abstract): Geol. Soc. America, Program 1961 Ann. Mtgs., p. 79A, November 1961.

Hubricht, Leslie

1. Some Pleistocene land snail records from Missouri and Illinois: Sterkiana, no. 13, pp. 7-17, 1964.

Huddle, John W.

1. (and Patterson, Sam H.). Origin of Pennsylvanian underclay and related seat rocks: Geol. Soc. America Bull., vol. 72, pp. 1643-1660, 4 figs., November 1961.

Huffman, George G.

1. Mississippian stratigraphy and tectonics of the Oklahoma Ozark area (abstract): Am. Assoc. Adv. Sci., Program and Abstracts, Sec. E (Geology and Geography), p. 12, December 1957; Geol. Soc. America Bull., vol. 68, no. 12, pt. 2, p. 1894, December 1957.
2. (and others). Geology of the south and west flanks of the Ozark uplift, northeastern Oklahoma: Oklahoma Geol. Survey, Bull. 77, 281 pp., 7 pls., 22 figs., 16 tables, 1958.
3. Mississippian stratigraphy and tectonics of the Oklahoma Ozark area: Tulsa Geol. Soc. Digest, vol. 27, pp. 104-112, 5 figs., 1959.
4. Pre-Desmoinesian isopachous and paleogeologic studies in central mid-continent region: Am. Assoc. Petroleum Geologists Bull., vol. 43, no. 11, pp. 2541-2574, 12 figs., November 1959.
5. (and Starke, John M., Jr.). *Spirifer grimesi* from the St. Joe limestone near Tahlequah, Oklahoma: Oklahoma Geology Notes, vol. 20, no. 3, pp. 50-52, fig. 1, March 1960.
6. (and Starke, John M., Jr.). A new fossil plant locality in the Sylamore member, Chattanooga formation, northeastern Cherokee County, Oklahoma: Oklahoma Geology Notes, vol. 20, no. 4, pp. 89-91, 2 figs., April 1960.
7. (and Starke, John M., Jr.). Noel shale in northeastern Oklahoma: Oklahoma Geology Notes, vol. 20, no. 7, pp. 159-163, 2 figs., July 1960.
8. Geology of the Oklahoma Ozark region: Guidebook, Twenty-fifth Annual Field Conf., Kansas Geol. Soc., pp. 82-109, 5 figs., September 1960. (Condensed from Okla. Geol. Survey Bull. 77, 1958).
9. Regional relatives of pre-Desmoinesian rocks, central mid-continent region: Guidebook, Twenty-fifth Field Conf., Kansas Geol. Soc., pp. 48-71, 12 figs., September 1960.

Hurley, P. M. Refer to Allen, V. T.; and Bailey, S. W.

Hurst, Vernon J. Refer to Vistelius, Andrew B.

Hutchison, Howard. Refer to Arata, Andrew A.

Hyden, Harold J.

1. (and Danilchik, Walter). Uranium in some rocks of Pennsylvanian age in Oklahoma, Kansas, and Missouri: U. S. Geol. Survey, Bull. 1147-B, 82 pp., 5 pls., 8 figs., 1962.

Jacobson, Rollyn P.

1. Geophysical case history of a commercial gravel deposit: Am. Inst. Min. Eng. Trans., vol. 202, pp. 158-162, 1955; Min., Eng.,

vol. 7, no. 2, pp. 158-161, 1955; (abstract): *Geophys. Abstract* 160, U. S. Geol. Survey, Bull. 1033-A, January-March 1955.

James, Eugene L.

1. The history of lead mining in southeastern Missouri: unpublished Masters thesis, Northeast Missouri State College, Kirksville, Missouri, 1957.

Jansen, Nan C. Refer to Otis, L. M.

Jarrell, Mary K. Refer to Rexroad, C. B.

Jaster, Marion C.

1. Selected annotated bibliography of high-grade silica of the United States and Canada through December 1954: U. S. Geol. Survey, Bull. 1019-H, pp. 609-673, 1957.

Jeffries, Norman W. Refer also to Searight, W. V.

1. Stratigraphy of the lower Marmaton rocks of Missouri: unpublished Doctoral dissertation, Univ. of Missouri, Columbia, Missouri, 1958.
2. The stratigraphy and structure of the Fordland Quadrangle, Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1954.

Jens, Stifel W. Refer to Eschbach, Walter L.

Jensen, Homer

1. Airborne magnetic profile above 40th parallel, eastern Colorado to western Indiana: *Geophysics*, vol. 14, no. 1, p. 57, 1 fig., January 1949.

Jespersen, Anna

1. Aeromagnetic prospecting for bauxite deposits in the Mississippi Embayment, Arkansas and Missouri: U. S. Geol. Survey, *Geophys. Inv.*, Map GP-370, 1964.

Jewett, J. M.

1. (and Ball, S. M.). Origin of some Late Pennsylvanian coals in eastern Kansas (abstract): *Geol. Soc. America, Program* 1964 Ann. Mtgs., p. 101, November 1964.

Jirik, C. J. Refer to Dietzman, W. D.

Joesting, H. R. Refer to Woolard, G. P.

Johansson, Folke, C., Jr.

1. Paleocology of the Worland Limestone (Pennsylvanian) Upper Desmoinesian, of Iowa, Missouri, and Kansas: unpublished Masters thesis, Univ. of Wisconsin, Madison, Wisconsin, 1959.

Johansson, Margaret V.

1. A quantitative study of the conodonts of the Lake Neosho Shale, Desmoinesian of Iowa, Missouri, and Kansas: unpublished Masters thesis, Univ. of Wisconsin, Madison, Wisconsin, 1960.

Johnson, Clayton H.

1. A brief description of Pilot Knob in Guidebook to the geology of the St. Francois Mountain area: Missouri Geol. Survey and Water Resources, Rept. Inv. 26, pp. 127-128, October 1961.
2. Guidebook to the geology in the vicinity of Cape Girardeau, Missouri, including Crowleys Ridge: Assoc. Missouri Geologists, 9th Ann. Field Trip, 55 pp., illus., September 1962.
3. Guidebook to the geology in the vicinity of Joplin, Missouri, including Westside-Webber Mine, Oklahoma: Assoc. Missouri Geologists, Tenth Ann. Field Trip, 50 pp., illus., September 1963.

Johnson, Cordell M.

1. Conodonts of the "Passo beds", Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1957.

Johnson, Eric

1. Size determination of caves in Maries, Phelps, and Pulaski Counties: Missouri Speleology, vol. 1, no. 3, pp. 9-11, July 1959.

Johnson, J. Harlan

1. *Archaeolithophyllum*, a new genus of Paleozoic coralline algae: Jour. Paleontology, vol. 30, no. 1, pp. 53-55, January 1956.
2. Ancestry of the coralline algae: Jour. Paleontology, vol. 30, no. 3, pp. 563-567, pl. 68, May 1956.
3. (and Konishi, Kenji). A review of Mississippian algae in Studies of Mississippian algae: Colorado School of Mines Quart., vol. 51, no. 4, pt. 1, pp. 1-84, pls. 1-24, figs. 1-2, maps 1-6, tables 1-5, October 1956.
4. Review of Ordovician algae in Studies of Ordovician algae: Colorado School of Mines Quart., pp. v-vii, 1-101, pls. 1-39, April 1961.
5. Pennsylvanian and Permian algae: Colorado School of Mines Quart., vol. 58, no. 3, 211 pp., 81 pls., 2 figs., July 1963.

Jolly, J. L. Refer to Heyl, A. V.

Jones, Daniel H.

1. Palynology of the Bevier coal of Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, June 1957.

Jones, Elmer A.

1. Mechanization at Indian Creek Mine of St. Joseph Lead Company: Min. Cong. Jour., vol. 43, no. 9, pp. 51-54, September 1957.

Jones, Eugene

1. Palynology of the Midway-Wilcox boundary in south-central Arkansas: Gulf Coast Assoc. Geol. Soc. Trans., vol. 12, pp. 285-294, 3 pls., 1962.

Jones, Harriet N.

1. Selected annotated bibliography of the geology of uraniferous and radioactive native bituminous substances, exclusive of coals in the United States: U. S. Geol. Survey, Bull. 1059-D, pp. 177-203, 1958.

Jones, Robert L.

1. (and others). Microfossils in Wisconsinan loess and fill from western Illinois and eastern Iowa: Science, vol. 40, no. 3572, pp. 1222-1224, 2 figs., June 14, 1963.

Jones, W. G. Refer to Meidav, Tsvi.

Jordon, Paul R.

1. Fluvial sediment of the Mississippi River at St. Louis, Missouri: U. S. Geol. Survey, Water-Supply Paper 1802, 89 pp., 26 figs., 8 tables, 1965.

Kays, Marvin A.

1. Gravity and resistivity measurements over circular mineralized deposits: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, June 1958.

Kebert, F. Dean

1. The geology of the Clifton City Quadrangle, Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1956.

Keefe, Jim

1. Rocks in their heads: Missouri Conservationist, vol. 21, no. 5, pp. 4-5, illus., May 1960.

Keller, Fred, Jr.

1. (and Henderson, John R.). Aeromagnetic map of part of the Tri-State mining district, Kansas, Missouri, and Oklahoma: U. S. Geol. Survey, Geophys. Inv., Map GP-427, 1963.

Keller, W. D.

1. Clay minerals as influenced by environments of their formation: Am. Assoc. Petroleum Geologists Bull., vol. 40, no. 11, pp. 2689-2710, 4 figs., November 1956.
2. (and Reesman, A. L.). Dissolved products of artificially pulverized silicate minerals and rocks, Part II: Jour. Sed. Petrology, vol. 33, no. 2, pp. 426-437, 4 figs., June 1963.
3. (and Smith, George E.). Ground-water contamination by dissolved nitrate (abstract): Geol. Soc. America, Program 1964 Ann. Mtgs., p. 106, November 1964.

Kellett, Betty

1. Geologic cross section from western Missouri to western Kansas, showing detailed correlation of Permian Big Blue series and Pennsylvanian, scale about 1 inch to 5 miles, revised: Wichita, Kansas Geol. Soc., 1951; originally published October 1932.

Kennedy, Marie

1. Treasures of the Tri-State: Lapidary Jour., pp. 100-107, illus., April 1965.

Keroher, Grace C. Refer to Wilson, Druid.**Kershner, K. K.**

1. (and Hoertel, F. W.). Recovering cobalt and nickel from complex sulfide ores of southeastern Missouri: U. S. Bur. Mines, Rept. Inv. 5740, 16 pp., 4 figs., 1961.

Kier, Porter M.

1. New American Paleozoic echinoids: Smithsonian Misc. Collections, vol. 135, no. 9, pub. 4337, 26 pp., 8 pls., 22 text-figs., August 1958.

Kiilsgaard, Thor H.

1. (Heyl, A. V.; and Brock, M. R.). The Crooked Creek disturbance, southeast Missouri in Geological Survey research 1962: U. S. Geol. Survey, Prof. Paper 450-E, pp. E14-E19, 3 figs., 1963.

Kinerney, Eugene J.

1. Geology of the Tarsney Quadrangle, Jackson County, Missouri:

unpublished Masters thesis, Univ. of Missouri, Columbia. Missouri, 1961.

King, Ralph H.

1. The chonetid brachiopod *Mesolobus* and some of its species: Jour. Paleontology, vol. 39, no. 2, pp. 293-295, March 1965.

King, Ruth Reece

1. (and others). Bibliography of North American Geology, 1956: U. S. Geol. Survey, Bull. 1075, 554 pp., 1959.

Kinney, Gene T.

1. Underground gas storage still rising: Oil and Gas Jour., vol. 54, no. 51, pp. 68-71, April 1956.

Kinsley, Gerald W.

1. Geology of the Leeton-Cornelia area, Johnson County, Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1960.

Kirby, J. G.

1. Petroleum refineries, including cracking plants in the United States—January 1, 1957: U. S. Bur. Mines, Inf. Circ. 7815, 13 pp., December 1957.

Kirk, Eugene J.

1. The earth science departments at Missouri School of Mines and Metallurgy: Compass, vol. 30, no. 1, pp. 15-19, November 1952.

Kissling, Don L.

1. Lower Osagean stratigraphy of east-central Missouri and adjacent Illinois: unpublished Masters thesis, Univ. of Wisconsin, Madison, Wisconsin, 1960.
2. Lower Osagean stratigraphy of east-central Missouri in Guidebook, twenty-sixth annual field conference, Kansas Geological Society: Missouri Geol. Survey and Water Resources, Rept. Inv. 27, pp. 142-148, 3 figs., September 1961.

Kisslinger, Carl

1. Observations on the development of Rayleigh-type waves in the vicinity of small explosions: Jour. Geophys. Research, vol. 64, no. 4, pp. 429-436, 6 figs., April 1959.
2. (and Nuttli, Otto W.). The earthquake of October 21, 1965, and Precambrian structure in Missouri: Earthquake Notes, vol. 36, pp. 32-36, September-December 1965.

Kisvarsanyi, Eva B.

1. Spectroscopic distribution of the trace elements in the Precambrian granites of southeastern Missouri in *Guidebook to the geology of the St. Francois Mountain area*: Missouri Geol. Survey and Water Resources, Rept. Inv. 26, pp. 95-105, 1 fig., October 1961.
2. (and Searight, Walter V.). Mineral resources and industry map of Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1965.

Klausing, Robert L.

1. Basal Marmaton conodonts from Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1957.

Kline, H. D.

1. Methods and costs of producing brown iron ore at two small southern Missouri mines: U. S. Bur. Mines, Inf. Circ. 7983, 18 pp., 8 figs., 1960.

Knapp, Gregory A.

1. A magnetometer survey near House Springs, Missouri: unpublished Masters thesis, St. Louis Univ., St. Louis, Missouri, 1955.

Knapp, Vincent E.

1. Stratigraphy and paleontology of the Elvins formation, southeast Missouri: unpublished Doctoral dissertation, Univ. of Oklahoma, Norman, Oklahoma, 1960.

Knapp, William D.

1. Crinoid fauna from the Burgner formation (Atokan) in Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1961.
2. Mississippian cephalopods of the eastern interior United States: unpublished Doctoral dissertation, Univ. of Iowa, Iowa City, Iowa, 1965.

Knight, C. L.

1. Ore genesis—The source bed concept: *Econ. Geology*, vol. 52, no. 7, pp. 807-817, November 1957.

Knight, Robert D.

1. (and Koenig, John W.). *Guidebook, field trip, forty-second annual meeting, American Association Petroleum Geologists (east-central Missouri)*, 31 pp., 16 figs., April 1957.
2. Top of Kinderhook, structure map of north Missouri (Prelim-

- inary copy): Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, November 1958.
3. Base of Kinderhook, structure map of north Missouri (Preliminary copy): Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, November 1958.
 4. (McCracken, Earl; and Anderson, K. H.). Deep hole map of Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, March 15, 1962.
 5. Groundwater areas in Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, March 1963.
 6. Groundwater in Missouri: Missouri Mineral Industry News, vol. 5, no. 4, pp. 36-37, April 1965.

Knoerr, A. W.

1. Viburnum project starts production: Eng. Min. Jour., vol. 162, no. 1, pp. 65-78, illus., January 1961.

Koenig, John W. Refer also to Clark, E. L.; Strimple, H. L.; Knight, R. D.; Howe, W. B.; Beveridge, T. R.; and Fay, R. O.

1. Bibliography of the geology of Missouri, 1956: Missouri Geol. Survey and Water Resources, Misc. Pub., 48 pp., 1957.
2. Fenestrate Bryozoa in the Chouteau group of central Missouri: Jour. Paleontology, vol. 32, no. 1, pp. 126-143, pls. 21-22, 2 text-figs., January 1958.
3. Bibliography of the geology of Missouri, 1957: Missouri Geol. Survey and Water Resources, Misc. Pub., 35 pp., 1958.
4. Bibliography of the geology of Missouri, 1958: Missouri Geol. Survey and Water Resources, Misc. Pub., 36 pp., 1959.
5. (and Niewoehner, Walter). *Pentecetrinus*, a new microcrinoid from the Louisiana Formation of Missouri: Jour. Paleontology, vol. 33, no. 3, pp. 462-470, 3 text-figs., May 1959.
6. Bibliography of the geology of Missouri, 1959: Missouri Geol. Survey and Water Resources, Misc. Pub., 44 pp., 1960.
7. Bibliography of the geology of Missouri, 1955-60: Missouri Geol. Survey and Water Resources, Inf. Circ. 16, 104 pp., July 1961.
8. (Martin, James A.; and Collinson, Charles W.). Guidebook, twenty-sixth annual field conference, Kansas Geological Society, northeastern Missouri and west-central Illinois: Missouri Geol. Survey and Water Resources, Rept. Inv. 27, 168 pp., illus., September 1961.
9. The Lincoln fold of northeastern Missouri in Guidebook, twenty-sixth annual field conference, Kansas Geological Society: Missouri Geol. Survey and Water Resources, Rept. Inv. 27, pp. 75-80, 2 figs., September 1961.
10. Bibliography of the geology of Missouri, 1961: Missouri Geol. Survey and Water Resources, Misc. Pub., 53 pp., February 1962.

11. Bibliography of the geology of Missouri, 1962: Missouri Geol. Survey and Water Resources, Misc. Pub., 33 pp., February 1963.
12. Midcontinent Pennsylvanian Edestidae: Missouri Geol. Survey and Water Resources, Rept. Inv. 33, 25 pp., 3 figs., 1965.

Konishi, Kenji. Refer to Johnson, J. H.

Kosanke, R. M.

1. (Simon, J. A.; Wanless, H. R.; and Willman, H. B.). Classification of Pennsylvanian strata of Illinois: Illinois Geol. Survey, Rept. Inv. 214, 84 pp., 4 figs., 1 pl., 1960.

Krinitzsky, E. L.

1. (and Wire, J. C.). Groundwater in alluvium of the lower Mississippi Valley (upper and central areas): U. S. Army Engineer Waterways Exp. Sta., Vicksburg, Miss., Tech. Rept. No. 3-658, vol. I and II, 100 pp., illus., tables, September 1964.

Krishnaswamy, D. S.

1. (and Amstutz, G. C.). Geology of the Decaturville disturbance in Missouri (abstract): Geol. Soc. America, Program 1960 Ann. Mtgs., p. 142, October 1960; Geol. Soc. America Bull., vol. 71, no. 12, pl. 2, p. 1960, December 1960.

Krummel, William J., Jr.

1. The geology of a portion (S½) of the Weldon Spring Quadrangle: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1956.

Krusekopf, H. H.

1. Soils of Missouri—genesis of great soil groups: Soil Sci., vol. 85, no. 1, pp. 19-27, figs. 1-5, January 1958.
2. Major soil areas of Missouri, 1962: Agri. Exp. Sta. Bull., Columbia, Missouri, 19 pp., illus., 1962.

Ku, Chao-Cheng

1. Paleomagnetic investigations of some of the Precambrian rocks in the St. Francois Mountains, Missouri: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1965.

Kuest, Louis J., Jr.

1. Genesis of Upper Plattin carbonates: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1963.

Kuklis, A.

1. (and Hayes, William C.). The mineral industry of Missouri, 1963: U. S. Bur. Mines, Minerals Yearbook, vol. 3, pp. 619-647, 1964.
2. (and Hayes, William C.). The mineral industry of Missouri, 1964: U. S. Bur. Mines, Minerals Yearbook, vol. 3, pp. 573-602, 1965.

Kulp, J. L. Refer also to Eckelmann, F. D.; and Cobb, J. C.

1. (Ault, W. U.; and Feely, H. W.). Sulfur isotope abundances in sulfide minerals: *Econ. Geology*, vol. 51, no. 2, pp. 139-149, March-April 1956.
2. (Ault, W. U.; and Miller, D. S.). Relation of lead and sulphur isotopes to the origin of the Mississippi Valley area: *Geol. Soc. America Bull.*, vol. 67, no. 12, pt. 2, p. 1713, December 1956.

Kurtz, P., Jr. Refer to Herold, P. G.

Kurtz, Vincent E.

1. Stratigraphy and paleontology of the Elvins formation, southeast Missouri: unpublished Doctoral dissertation, Univ. of Oklahoma, Norman, Oklahoma, 1960.

Lammons, James

1. Disseminated phosphate content of the Bonneterre formation (Upper Cambrian) of southeastern Missouri and its bearing on the paleoecology: unpublished Masters thesis, Univ. of Wichita, Wichita, Kansas, 1961.

LaMoreaux, Phillip E.

1. Ground-water levels in the north-central United States, 1956; U. S. Geol. Survey, Water Supply Paper 1456, pp. 29-31, 1959.

Landis, E. R.

1. Uranium and other trace elements in Devonian and Mississippian black shales in the central Midcontinent area: U. S. Geol. Survey, Bull. 1107-E, pp. 289-336, pls. 3-5, figs. 32-41, 1962.
2. Coal resources of Iowa (abstract): *Geol. Soc. America, Program 1964 Ann. Mtgs.*, p. 118, November 1964.
3. (and Van Eck, Orville). Coal resources of Iowa, with a section on the geologic setting: Iowa Geol. Survey, Tech. Paper No. 4, 141 pp., 1 pl., 5 figs., 17 tables, 1965.

Landrum, J. D.

1. A foundation investigation of Cherokee Cave under Route I-55, City of St. Louis, *in* Proceedings of the fifteenth annual highway geology symposium: Highway Geology Symposium, Rolla, Missouri, pp. 81-89, 2 figs., March 1964.
2. A foundation investigation of Cherokee Cave under Route I-55, City of St. Louis: Missouri Speleology, vol. 6, no. 3, pp. 64-71, 4 figs., July 1964.

Lane, Marvin E.

1. Mining methods and costs at the Hayden Creek Mine of St. Joseph Lead Company, St. Francois County, Missouri: U. S. Bur. Mines, Inf. Circ. 7781, 33 pp., 14 figs., 1957.

Lane, N. Gary

1. Two new Mississippian camerate (Batocrinidae) crinoid genera: Jour. Paleontology, vol. 37, no. 3, pp. 691-702, 3 figs., May 1963.

Lasmanis, Ray

1. The mineralogy of Moselle Mine No. 10: Rocks and Minerals, vol. 34, nos. 7-8, pp. 331 and 341, July-August 1959.
2. Cave of mystery: Rocks and Minerals, vol. 35, nos. 9-10, pp. 452-453, September-October 1960.

Laswell, Troy J.

1. Geology of the Bowling Green Quadrangle: Missouri Geol. Survey and Water Resources, Rept. Inv. 22, 50 pp., 14 figs., 1957.

Lawthers, Robert

1. (and Mark, Helen R.). Bibliography of titanium deposits of the world: U. S. Geol. Survey, Bull. 1019-G, pp. 543, 608, 1957.

Leaf, Howard W.

1. A magnetometer survey of the magnetic highs to the east of Saint Clair, Missouri: unpublished Masters thesis, St. Louis Univ., St. Louis, Missouri, 1955.

LeGrand, Harry E.

1. Geology and ground-water hydrology of the Atlantic and Gulf Coastal Plain as related to disposal of radioactive wastes: U. S. Geol. Survey, TEI-805, 169 pp., 33 figs., January 1962.

Leighton, Morris M.

1. The classification of the Wisconsin glacial stage of north-central

United States: Jour. Geology, vol. 68, no. 5, pp. 529-552, 2 pls., 8 figs., 1960.

2. (and Brophy, John A.). Illinoian glaciation in Illinois: Jour. Geology, vol. 69, no. 1, pp. 1-31, 2 pls., 14 figs., January 1961.

Lemmon, D. M.

1. (and Tweto, O. L.). Tungsten in the United States: U. S. Geol. Survey, Mineral Inv. Resources Map, MR-25, 1962.

Lemmon, Robert D.

1. Petrographic and modal analysis of the Slabtown Granite, southeast Missouri: unpublished Masters thesis, Southern Illinois Univ., Carbondale, Illinois, 1964.
2. Distribution and composition of the Slabtown Granite, southeast Missouri (abstract): Missouri Acad. Sci. Proc., vol. 1, ser. 2, p. 35, April 1964.

Leney, G. W.

1. Geophysical exploration for iron ores: Soc. Min. Eng. Trans., vol. 229, no. 4, pp. 355-372, illus., 1964.

Leonard, A. B. Refer to Frye, J. C.

Leone, Raymond J.

1. Stratigraphic petrology of selected Pennsylvanian sedimentary rocks in Boone and Callaway Counties, Missouri: unpublished Masters thesis, Univ. of Missouri at Columbia, Columbia, Missouri, 1956.

Levin, Harold L. Refer also to Esker, George C., III.

1. (and Fay, Robert O.). Relationship between *Diploblastus kirkwoodensis* and *Platyceras* (*Platyceras*): Oklahoma Geology Notes, vol. 24, no. 2, pp. 22-29, 13 figs., February 1964.

Levine, Sidney

1. Unique calciner breaks all the rules: Rock Products, vol. 66, no. 12, pp. 50-53, illus., December 1963.

Liebe, Richard M.

1. Conodonts from the Alexandrian and Niagaran Series (Silurian) of the Illinois Basin: unpublished Doctoral dissertation, Univ. of Iowa, Iowa City, Iowa, 1962.

Lift, James T. Refer to Allen, V. T.

Ligasacchi, Attilio

1. A study of the genesis of the Krueger zinc deposit and the nearby barite deposits of the Potosi Quadrangle, Washington County, Missouri: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1959.
2. (and Amstutz, G. C.). Origin of barite deposits in Missouri (abstract): Geol. Soc. America, Program 1960 Ann. Mtgs., p. 148, October 1960; Geol. Soc. America Bull., vol. 71, no. 12, pt. 2, p. 1916, December 1960.

Ligasacchi, Giovanni R.

1. A review of fossilization processes in different sedimentary environments: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1959.

Lineback, Jerry A.

1. Age of the Rockford cephalopod fauna (Mississippian) of southern Indiana in Paleontological notes: Jour. Paleontology, vol. 37, no. 4, pp. 939-942, 1 fig., July 1963.

Loepp, H. Richard

1. (and McLoughlin, Arthur G.). Engineering geology of Stockton Dam and Kaysinger Bluff Dam, Osage River basin, Missouri (abstract): Geol. Soc. America, Program 1965 Ann. Mtgs., p. 97, November 1965.

Lohrengel, C. F., II

1. The geology of the Pleasant Hill Quadrangle of Jackson and Cass Counties, Missouri: unpublished Masters thesis, Univ. of Missouri at Columbia, Columbia, Missouri, 1965.

Lokke, D. H. Refer to Thompson, M. L.**Looff, Karl M.**

1. (and Hubert, John F.). Sampling variability of paleocurrent crossbed data in the post-Myrick Station channel sandstone (Pennsylvanian), Missouri: Jour. Sed. Petrology, vol. 34, no. 4, pp. 774-776, 3 figs., 1 table, December 1964.
2. Diversity of rock types in the Higginsville Limestone (Desmoinesian), central Missouri (abstract): Missouri Acad. Sci. Proc., vol. 2, ser. 2, p. 58, April 1965.

Lopez, Arroyo A.

1. Estudio geofisico de la falla de Ste. Genevieve (Geophysical study of the Ste. Genevieve fault): Rev. Geofisica, vol. 15,

no. 60, pp. 387-434, 1956; (abstract), *Geophys. Abstracts* 173:
U. S. Geol. Survey, Bull. 1086-B, p. 182, April-June 1958.

Lougee, Richard J.

1. New concept of ice-age history: *Geol. Soc. America Bull.*, vol. 69, no. 12, pt. 2, p. 1764, December 1958.

Love, S. K.

1. Quality of surface waters of the United States 1955, Parts 7 and 8, lower Mississippi River basin and western Gulf of Mexico basins: U. S. Geol. Survey, Water-Supply Paper 1402, 539 pp., 1 fig., 1959.
2. (and others). Quality of surface waters of the United States, 1962, Parts 5 and 6, Hudson Bay and upper Mississippi River basins, and Missouri River basin: U. S. Geol. Survey, Water-Supply Paper 1943, 413 pp., illus., 1964.
3. (and others). Quality of surface waters of the United States, 1959, Parts 7 and 8, lower Mississippi River basin and western Gulf of Mexico basins: U. S. Geol. Survey, Water-Supply Paper 1644, 508 pp., illus., 1965.

Luckingham, Brad

1. "A note on the lead mines of Missouri," Henry R. Schoolcraft to William H. Crawford, 1820: *Missouri Hist. Rev.*, vol. 49, no. 3, pp. 344-348, April 1965.

Lugn, Alvin L.

1. The origin and sources of loess in the central Great Plains and adjoining area of the central lowland: *Univ. Nebraska Studies*, new ser., no. 26, 105 pp., 11 figs., 6 pls., 6 tables, 1962.

Luttrell, Gwendolyn W.

1. Bibliography of iron resources of the world (to January 1955): U. S. Geol. Survey, Bull. 1019-D, 371 pp., 1957.
2. Annotated bibliography of the geology of selenium: U. S. Geol. Survey, Bull. 1019-M, pp. 867-972, pl. 5, fig. 2, 1959.

Lyden, Joseph P. Refer to Hambleton, W. W.

McAlester, A. Lee

1. Pelecypods of the Snyder Creek shale (Upper Devonian) of Missouri: *Jour. Paleontology*, vol. 37, no. 5, 7 pls., 2 figs., 3 tables, pp. 981-1000, September 1963.

McBride, Earle F.

1. Certain energies of cation exchange of four Missouri fire clays:

unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1956.

McCaslin, John C.

1. Wildcat success marches across the map: Oil and Gas Jour., vol. 54, no. 65, pp. 150-151, July 1956.
2. "Strike-shy" basin may lose label: Oil and Gas Jour., vol. 63, no. 14, p. 235, illus., April 5, 1965.

McCormick, W. R.

1. The recovery of metallic cobalt and nickel at Fredericktown (abstract): Mid-Am. Minerals Conf., October 1958; Min. Eng., vol. 11, no. 1, p. 13, January 1959.

McCracken, Earl. Refer also to Knight, R. D.; and Wells, Jack.

1. Insoluble residues provide good regional correlations: World Oil, vol. 149, no. 2, pp. 79-82, 110, August 1959.
2. (and McCracken, Mary H.). Subsurface maps of the lower Ordovician (Canadian Series) of Missouri: Missouri Geol. Survey and Water Resources, 6 sheets, in packet, July 1965.

McCracken, Mary H. Refer also to McCracken, Earl.

-
1. Geologic map of Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, scale 1 inch = 8 miles, 1961.
 2. Insoluble residues: Shale Shaker, vol. 13, no. 10, pp. 6-19, illus., June 1963.
 3. Insoluble residue study may solve stratigraphic problems: Oil and Gas Jour., vol. 62, no. 2, pp. 126-131, illus., January 13, 1964.
 4. The Cambro-Ordovician rocks of northeastern Oklahoma and adjacent areas: Tulsa Geol. Soc. Digest, vol. 32, pp. 49-75, 10 figs., 1 table, 1964.

McCutcheon, V. A.

1. Redescription of *Syringopora multiattenuata* McChesney: Jour. Paleontology, vol. 35, no. 5, pp. 1014-1016, pl. 121, September 1961.

McDermott, R. E. Refer to Fletcher, P. W.

McEvelly, Thomas V.

1. Abnormal sedimentary susceptibilities in eastern Missouri: Geophys. Soc. Tulsa Proc. 1956-57, vol. 4, pp. 60-69, illus., 1957.

McGinnis, Lyle D.

1. Earthquakes and crustal movement as related to water load in the Mississippi Valley region. Illinois Geol. Survey, Circ. 344, 20 pp., 8 figs., table, 1963.

McGowan, Jerry. Refer to Hawksley, Oscar.**McGuinness, C. L.**

1. Summary of the ground water resources of Missouri, in The role of ground water in the national water situation: U. S. Geol. Survey, Water Supply Paper 1800, pp. 457-468, 1963.
2. Generalized map showing annual runoff and productive aquifers in the conterminous United States: U. S. Geol. Survey, Hydrologic Inv. Atlas HA-194, scale 1:5,000,000, 1964.

McKelvey, V. E.

1. Search for uranium in the United States: U. S. Geol. Survey, Bull. 1030-A, pp. 1-64, 1955.

McKnight, Edwin T. Refer to Evans, Howard T., Jr.**McLoughlin, Arthur G.** Refer to Loepp, H. Richard.**Mackichan, Kenneth A.**

1. Estimated use of water in the United States, 1955: U. S. Geol. Survey, Circ. 398, ii + 18 pp., 6 figs., 12 tables, 1957.

Macurda, Donald B., Jr.

1. Observations on the blastoid genera *Cryptoblastus*, *Lophoblastus*, and *Schizoblastus*: Jour. Paleontology, vol. 36, no. 6, pp. 1367-1377, 5 figs., November 1962.
2. *Dentiblastus*—a new blastoid genus from the Burlington Limestone (Mississippian): Jour. Paleontology, vol. 38, no. 2, pp. 367-372, 1 fig., 1 pl., March 1964.
3. The Mississippian blastoid genera *Phaenoschisma*, *Phaenoblastus*, and *Conoschisma*: Jour. Paleontology, vol. 38, no. 4, pp. 711-724, 2 pls., July 1964.
4. Hydrodynamics of the Mississippian blastoid genus *Globoblastus*: Jour. Paleontology, vol. 39, no. 6, pp. 1209-1217, 4 figs., November 1965.
5. The functional morphology and stratigraphic distribution of the Mississippian blastoid genus *Orophocrinus*: Jour. Paleontology, vol. 39, no. 6, pp. 1045-1096, 16 figs., 6 pls., November 1965.

Maher, John C.

1. Paleozoic deposition in northern Arkansas: Guidebook, Twenty-fifth Field Conf., Kansas Geol. Soc., pp. 113-117, 2 figs., September 1960.

Mamay, Sergius H. Refer to Reed, C. B.**Mann, C. David.** Refer to Reed, J. J.**Manos, Constantine.** Refer to Wanless, Harold R.; Drlopp, Donald E.; and Tubb, J. B., Jr.**Mantei, Erwin J.**

1. K_2O/Na_2O content as a possible index to the chronological sequence of some Precambrian igneous rocks of Missouri: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1962.
2. K_2O/Na_2O content as a possible index to the chronological sequence of some Precambrian igneous rocks of Missouri (abstract): Missouri Acad. Sci. Proc., vol. 1, ser. 2, pp. 35-36, April 1964.

Marcher, Melvin V. Refer also to Stearns, R. G.

1. Petrography of Mississippian limestones and cherts from the northwestern highland rim, Tennessee: Jour. Sed. Petrology, vol. 32, no. 4, pp. 819-832, 14 figs., December 1962.

Mark, Helen R. Refer also to Lawthers, R.

1. High-alumina kaolinitic clay in the United States, exclusive of Alaska and Hawaii: U. S. Geol. Survey, Mineral Inv. Resource Map MR-37, 1963.

Marks, Annie L. Refer to Bowles, O.**Martin, James A.** Refer also to Heim, George E.; Koenig, J. W.; and Williams, J. H.

1. Geology of the northwest quarter of the Washington Quadrangle, Missouri: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1956.

Martz, Walter H., Jr.

1. Developments in the north midcontinent in 1959: Am. Assoc. Petroleum Geologists Bull., vol. 44, no. 6, pp. 742-751, 1 fig., June 1960.
2. Developments in north midcontinent in 1960: Am. Assoc. Pe-

troleum Geologists Bull., vol. 45, no. 6, pp. 795-801, 1 fig., June 1961.

3. Developments in north midcontinent in 1961: *Am. Assoc. Petroleum Geologists Bull.*, vol. 46, no. 6, pp. 842-851, 1 fig., June 1962.

Massie, Gerald R.

1. Missouri scores in rich iron ore find: *Missouri Eng.*, vol. 22, no. 2, pp. 4-7, February 1958.

Mateker, Emil J., Jr.

1. Some gravity and magnetic interpretation problems in eastern Missouri: unpublished Masters thesis, St. Louis Univ., St. Louis, Missouri, 1959.
2. (and Segar, Robert L). Gravity inversions along eastern flank of Ozark uplift (abstract): *Missouri Acad. Sci. Proc.*, vol. 1, ser. 2, pp. 38-39, April 1964.

Mathias, J. Walter. Refer to Swann, David H.

Matson, R. P.

1. Underground mining of iron ore at the Ozark Ore Company (abstract): *Mid-Am. Minerals Conf.*, October 1958; *Min. Eng.*, vol. 11, no. 1, p. 13, January 1959.

Matthai, H. F.

1. Index of surface-water records to September 30, 1955, Part 6—Missouri River basin: *U. S. Geol. Survey, Circ.* 386, 44 pp., 1956.

Meek, Richard M.

1. Rayleigh and Love wave dispersion in eastern Kansas and western Missouri: unpublished Masters thesis, Univ. of Kansas, Lawrence, Kansas, 1962.

Meents, Wayne F.

1. (and Swann, David H.). Grand Tower Limestone (Devonian) of southern Illinois: *Illinois State Geol. Survey, Circ.* 389, 34 pp., 7 figs., 1965.

Mehl, Maurice G.

1. The relationships of the base of the Mississippian System in Missouri: *Denison Univ., Sci. Lab. Jour.*, vol. 45, art. 5, pp. 57-107, 8 figs., December 1960.
2. Basal relationships of the Mississippian in northeastern Missouri in *Guidebook*, twenty-sixth annual field conference, Kansas

- Geological Society: Missouri Geol. Survey and Water Resources, Rept. Inv. 27, pp. 89-94, 3 figs., September 1961.
3. (and Shaffer, Bernard). Sporangites as "horizon markers" in Guidebook, twenty-sixth annual field conference, Kansas Geological Society: Missouri Geol. Survey and Water Resources, Rept. Inv. 27, pp. 95-99, 3 figs., September 1961.
 4. Missouri's ice age animals: Missouri Geol. Survey and Water Resources, Educ. Ser. 1, 104 pp., 39 figs., December 1962.
 5. Some notes on the Dutchtown formation in Guidebook to the geology in the vicinity of Cape Girardeau, Missouri, including Crowley's Ridge: Assoc. Missouri Geologists, 9th Ann. Field Trip, p. 55, September 1962.
 6. (and Ziegler, Willie). A neotype for *Palmatolepis gracilis* Branson and Mehl 1934: Denison Univ., Sci. Lab. Jour., vol. 45, art. 14, pp. 197-206, 1 pl., 1962.
 7. Memorial to Edward L. Clark (1908-1962): Geol. Soc. America Bull., vol. 74, no. 1, pp. P5-P7, illus., January 1963.

Meidav, Tsvi. Refer also to Scharon, LeRoy.

1. Location of buried channels in Grundy County, Missouri, by means of electrical resistivity: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1956.
2. (Hayes, William C.; and Heim, George E.). Resistivity surveys of Missouri limonite deposits: Missouri Geol. Survey and Water Resources, Rept. Inv. 24, 27 pp., 16 figs., 1958.
3. An electrical resistivity survey for groundwater: Geophysics, vol. 25, no. 5, pp. 1077-1093, 12 figs., October 1960.
4. (Davis, W. C.; and Jones, W. G.). The applicability of seismic refraction and electrical resistivity to cut classification in Missouri: Missouri State Highway Comm., Div. of Materials, Geology and Soils Sec., 1960.

Mejia, Victor M. Refer to Murphy, J. E.

Melin, Robert E.

1. Selected annotated bibliography of the geology of sandstone-type uranium deposits in the United States: U. S. Geol. Survey, Bull. 1059-C, pp. 50-175, 1957.

Mentch, Flora B. Refer to Arundale, J. C.

Merriam, Daniel F. Refer also to Hambleton, W. W.

1. (and Atkinson, W. R.). Simpson filled sinkholes in eastern Kansas: Kansas Geol. Survey, Bull. 119, pt. 2, pp. 61-80, figs. 1-6, pl. 1, April 1956.
2. (Cole, Virgil B.; and Hambleton, William W.). Distribution of Precambrian basement rock types in Kansas in Geological

notes: Am. Assoc. Petroleum Geologists Bull., vol. 45, no. 12, pp. 2018-2024, 2 figs., December 1961.

Meyer, Helena M.

1. (and Greenspoon, Gertrude N.). Copper: U. S. Bur. of Mines, Minerals Yearbook—1953, vol. 1, pp. 381-436, 1956.

Meyer, R. P. Refer to Steinhart, J. S.

Miller, A. K.

1. (and Furnish, W. M.). Goniatites of the Burlington Limestone in Missouri: Jour. Paleontology, vol. 32, no. 2, pp. 269-274, pl. 35, 5 text-figs., March 1958.

Miller, D. S. Refer to Kulp, J. L.

Miller, David W.

1. (Geraghty, James J.; and Collins, Robert S.). Water atlas of the United States: Fort Washington, L. I., N. Y.: Water Information Center, Inc., 40 pls. and text, 1962.

Miller, Esther B. Refer to Bishop, O. M.

Miller, Halsey W., Jr.

1. The index value of Silurian Foraminifera and some new forms from wells in Kansas: Jour. Paleontology, vol. 30, no. 6, pp. 1350-1359, 1 text-fig., November 1956.

Miller, Jim P.

1. A preliminary investigation of the distribution of miospore assemblages in the Summit coal of north-central Missouri: unpublished Masters thesis, Univ. of Missouri at Columbia, Columbia, Missouri, January 1964.

Miller, T. G.

1. North American species of *Fenestella* from the Carboniferous of Great Britain and Ireland: Jour. Paleontology, vol. 36, no. 1, pp. 120-125, pls. 23-24, January 1962.

Miller, W. C. Refer to Netzeband, F. F.

Mills, J. Peter

1. Petrography of selected speleothems of carbonate caverns: unpublished Masters thesis, Univ. of Kansas, Lawrence, Kansas, May 1965.

Minshall, Neal E.

1. (and Jamison, V. C.). Interflow in claypan soils: *Water Resources Research*, vol. 1, no. 3, pp. 381-390, 4 figs., 3 tables, 1965.

Misra, Krishna K.

1. Stratigraphy, sedimentation, and petroleum possibilities of the Middle Ordovician (Kimmswick-Galena) rocks of Missouri, Illinois, and Iowa: unpublished Doctoral dissertation, Univ. of Missouri at Rolla, Rolla, Missouri, 1964.

Missouri Geological Survey and Water Resources Staff

1. Guidebook to the geology of the Rolla area emphasizing solution phenomena: *Missouri Geol. Survey and Water Resources*, Misc. Pub., 35 pp., illus., December 1960.

Missouri Speleological Survey

1. Barry County caves: *Missouri Speleology*, vol. 1, no. 1, pp. 8-10, illus., January 1959.
2. Benton County caves: *Missouri Speleology*, vol. 1, no. 1, pp. 11-18, illus., January 1959.
3. Boone County caves: *Missouri Speleology*, vol. 1, no. 2, pp. 15-38, illus., April 1959.
4. Callaway County caves: *Missouri Speleology*, vol. 1, no. 3, pp. 15-21, illus., July 1959.
5. Camden County caves: *Missouri Speleology*, vol. 1, no. 3, pp. 6-9, illus., October 1959.
6. Carter County caves: *Missouri Speleology*, vol. 1, no. 4, pp. 6-9, illus., October 1959.
7. Christian County caves: *Missouri Speleology*, vol. 1, no. 4, pp. 10-14, illus., October 1959.
8. Cole County caves: *Missouri Speleology*, vol. 1, no. 4, pp. 16-19, illus., October 1959.
9. Crawford County caves: *Missouri Speleology*, vol. 1, no. 4, pp. 20-22, illus., October 1959.
10. Dallas County caves: *Missouri Speleology*, vol. 2, no. 1, pp. 13-17, illus., January 1960.
11. Dent County caves: *Missouri Speleology*, vol. 2, no. 1, pp. 18-27, illus., January 1960.
12. Douglas County caves: *Missouri Speleology*, vol. 2, no. 1, pp. 28-29, January 1960.
13. Franklin County caves: *Missouri Speleology*, vol. 2, no. 2, pp. 43-56, illus., April 1960.
14. Gasconade County caves: *Missouri Speleology*, vol. 2, no. 3, pp. 68-71, illus., 1960.
15. Greene County caves: *Missouri Speleology*, vol. 2, no. 3, pp. 72-74, illus., 1960.

16. Hickory County caves: *Missouri Speleology*, vol. 2, no. 3, pp. 75-76, illus., 1960.
17. Howell County caves: *Missouri Speleology*, vol. 2, no. 3, pp. 76-77, illus., 1960.
18. Jackson County caves: *Missouri Speleology*, vol. 2, no. 3, pp. 78-79, illus., 1960.
19. Jasper County caves: *Missouri Speleology*, vol. 2, no. 3, p. 79, 1960.
20. Jefferson County caves: *Missouri Speleology*, vol. 2, no. 3, pp. 81-86, illus., 1960.
21. Laclede County caves: *Missouri Speleology*, vol. 2, no. 3, pp. 86-89, illus., 1960.
22. Lincoln County caves: *Missouri Speleology*, vol. 2, no. 4, pp. 102-104, illus., 1960.
23. Madison County caves: *Missouri Speleology*, vol. 2, no. 4, pp. 102-104, 1960.
24. Maries County caves: *Missouri Speleology*, vol. 2, no. 4, pp. 107-113, illus., 1960.
25. Marion County caves: *Missouri Speleology*, vol. 2, no. 4, pp. 114-122, illus., 1960.
26. Miller County caves: *Missouri Speleology*, vol. 3, no. 2, pp. 12-40, illus., April 1961.
27. Caves of Moniteau, Morgan, Monroe, and Montgomery Counties: *Missouri Speleology*, vol. 3, no. 3, pp. 41-65, July 1961.
28. Caves of Oregon and Osage Counties: *Missouri Speleology*, vol. 3, no. 4, pp. 76-89, illus., October 1961.
29. Phelps County caves: *Missouri Speleology*, vol. 5, no. 1, pp. 4-28, 11 pls., 2 figs., January 1963.
30. Pike County caves: *Missouri Speleology*, vol. 5, nos. 2 and 3, pp. 30-58, 13 pls., 2 figs., April-July 1963.
31. Pulaski County caves: *Missouri Speleology*, vol. 6, no. 2, pp. 22-51, 2 figs., 12 pls., April 1964.
32. Ralls County caves: *Missouri Speleology*, vol. 7, no. 1, pp. 3-22, 1 fig., 9 pls., January 1965.
33. St. Charles County caves: *Missouri Speleology*, vol. 7, no. 2, pp. 24-49, 2 figs., 8 pls., April 1965.
34. St. Clair County caves: *Missouri Speleology*, vol. 7, no. 2, pp. 50-55, 1 fig., 1 pl., April 1965.
35. Ste. Genevieve County caves: *Missouri Speleology*, vol. 7, no. 3, pp. 56-76, 2 figs., 3 pls., July 1965.

Mohr, Charles E.

1. Exploring America underground: *Natl. Geographic Mag.*, vol. 125, no. 6, pp. 802-837, illus., June 1964.

Moody, Graham E.

1. Exploratory drilling in 1956: *Am. Assoc. Petroleum Geologists Bull.*, vol. 41, no. 6, pp. 989-1005, June 1957.

Moore, Raymond C.

1. Early Mississippian formations in Missouri: unpublished Doctoral dissertation, Univ. of Chicago, Chicago, Illinois, 1916.
2. Mississippian carbonate deposits of the Ozark region in Regional aspects of carbonate deposition: Soc. of Econ. Paleontologists and Mineralogists, Spec. Pub. 5, pp. 101-124, pls. 1-8, figs. 1-2, February 1957.
3. Geological understanding of cyclic sedimentation represented by Pennsylvanian and Permian rocks of northern mid-continent region: Guidebook, Twenty-first Conf. of the Kansas Geol. Soc., pp. 77-84, fig. 1, September 1957.

Moore, Richard L. Refer to Eschbach, Walter L.

Moore, S. R.

1. Report on Polaris Mine (Missouri): unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1906.

Morales-Frias, Gustavo A.

1. The Devonian and lower Mississippian Charophyta of North America: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, June 1962.

Moreman, W. L.

1. Arenaceous Foraminifera from Ordovician and Silurian limestones of Oklahoma: Jour. Paleontology, vol. 4, no. 1, pp. 42-49, pls. 5-7, 1930.

Morgan, R. E.

1. Memorial to Oliver Rudolph Grawe (1901-1965): Jour. Geol. Education, vol. 13, no. 4, pp. 124-125, October 1965.

Mudge, Melville R.

1. (and Yochelson, Ellis L.). Stratigraphy and paleontology of the uppermost Pennsylvanian and lowermost Permian rocks in Kansas: U. S. Geol. Survey, Prof. Paper 323, 213 pp., 17 pls., 36 figs., 1962.

Muilenburg, G. A Refer also to Diamond, W. G.; and Netzeband, F. F.

1. The 1954 drought and its effect on ground water: Jour. of the Sanitary Eng. Div. of the Am. Soc. of Civil Eng., vol. 82, no. SA3, Proc. Paper 1016, pp. 1-10, 6 figs., June 1956.
2. Notes on uranium: Missouri Geol. Survey and Water Resources, Inf. Circ. 5, revised edition, 1957, 16 pp., 1957.
3. Barite mining and production in Missouri: Missouri Geol. Survey and Water Resources, Misc. Pub., 13 pp., 3 figs., June 1957.

4. Memorial to Oliver Rudolph Grawe (1901-1965): *Geol. Soc. America Bull.*, vol. 76, no. 12, pp. p183-p186, December 1965.

Muir-Wood, Helen

1. (and Cooper, G. Arthur). Morphology, classification and life habits of the Productoidea (Brachiopoda): *Geol. Soc. America, Mem.* 81, 447 pp., 135 pls., 8 figs., October 1960.

Muller, Eva M. Refer to Muller, K. J.

Muller, Klaus J.

1. (and Muller, Eva M.). Early upper Devonian (Independence) conodonts from Iowa, Part I: *Jour. Paleontology*, vol. 31, no. 6, pp. 1069-1108, pls. 135-142, 8 text-figs., November 1957.

Mumma, Martin D.

1. Palynology of selected (Pennsylvanian) coals of north-central Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1960.

Murphy, Daniel L.

1. An investigation of the (Pennsylvanian) Graydon Formation in portions of Callaway County, Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1955.

Murphy, John E.

1. (and Mejia, Victor M.). Underground geology at Iron Mountain in *Guidebook to the geology of the St. Francois Mountain area*: Missouri Geol. Survey and Water Resources, Rept. Inv. 26, pp. 129-137, 4 figs., October 1961.

Murphy, Leonard M.

1. (and Cloud, William K.). United States earthquakes—1952: U. S. Dept. of Commerce, Coast and Geodetic Survey, Ser. No. 773, 112 pp., 1954.
2. (and Cloud, William K.). United States earthquakes—1953; U. S. Dept. of Commerce, Coast and Geodetic Survey, Ser. No. 785, 51 pp., 1955.
3. (and Cloud, William K.). United States earthquakes—1954: U. S. Dept. of Commerce, Coast and Geodetic Survey, Ser. No. 793, 110 pp., 1956.

Murray, Hayden H. Refer to Wheeler, H. E.

Murrill, R. T.

1. The development of the St. Joe shovel: *Missouri School of Mines and Met. Bull., Tech. Ser.* 92, pp. 30-42, figs. 1-9, 1956.

Nace, R. L.

1. (and Plahowski, E. J.). Drought of the 1950's with special reference to the midcontinent: U. S. Geol. Survey, Water-Supply Paper 1804, 88 pp., 24 figs., 2 pls., 9 tables, 1965.

Naiknimbalker, Narendra M.

1. Sedimentary petrography and environments of deposition of the Plattin group, Cliffdale Hollow, Jefferson County, Missouri: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1963.

Neal, Donald A.

1. A gravity and magnetic survey of southeastern Missouri: unpublished Masters thesis, St. Louis Univ., St. Louis, Missouri, 1956.

Netzeband, F. F.

1. (and Rollman, H. E.). The mineral industries of Missouri in 1953: U. S. Bur. Mines, Mineral Industry Surveys, Ann. Area Rept. F-12, 9 pp., 4 tables, January 1955.
2. (and Muilenburg, G. A.). The mineral industries of Missouri in 1954: U. S. Bur. Mines, Mineral Industry Surveys, Ann. Area Rept. F-26, 8 pp., 5 tables, December 1955.
3. (and Muilenburg, G. A.). The mineral industries of Missouri in 1955: U. S. Bur. Mines, Mineral Industry Surveys, Ann. Area Rept. F35, 6 pp., 4 tables, January 1956.
4. (Muilenburg, G. A.; Smith, E. S.; and Diamond, W. G.). The mineral industry of Missouri: U. S. Bur. Mines, Minerals Yearbook, 1953, 23 pp., 1956.
5. (Early, Thomas R.; Ryan, J. P.; and Miller, W. C.). Sulfur resources and production in Texas, Louisiana, Missouri, Oklahoma, Arkansas, Kansas, and Mississippi, and markets for sulfur: U. S. Bur. Mines, Inf. Circ. 8222, 77 pp., 28 figs., 22 tables, 1964.

Netzeband, W. F.

1. Prospecting with the long-hole drill in the Tri-State zinc-lead district: Min. and Met., vol. 11, no. 282, pp. 295-296, June 1930.
2. General geology of the Tri-State district—Missouri, Oklahoma, and Kansas in Guidebook to the geology in the vicinity of Joplin, Missouri, including Westside-Webber Mine, Oklahoma: Assoc. Missouri Geologists, Tenth Ann. Field Trip, pp. 31-35, September 1963.

Nichols, Reny R.

1. A study of the Piezometric surface of the Grand Falls Formation

in the Duenweg-Oronogo mining belt east of Joplin, Missouri: unpublished Masters thesis, Univ. of Missouri at Rolla, Rolla, Missouri, 1965.

Niewoehner, Walter. Refer to Koenig, John W.; and Unklesbay, A. G.

Nitecki, Matthew H.

1. Observations on sicolites: *Jour. Sed. Petrology*, vol. 32, no. 3, pp. 435-439, 7 figs., September 1962.

Noble, James E.

1. A limited geologic reconnaissance of Clark and Lewis Counties, Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1957.

Nolan, Thomas B.

1. (and others). Synopsis of geologic, hydrologic, and topographic results in Geological Survey research 1962: U. S. Geol. Survey, Prof. Paper 450, 257 pp., 1962.

Norden, J. A.

1. Tectonic leads in the coseismal-line spread of the Nevada underground nuclear detonation "Blanca": *Oklahoma Geology Notes*, vol. 21, no. 9, pp. 239-244, 1 fig., September 1961.

Norris, James D.

1. The American Zinc, Lead, and Smelting Company: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1958.
2. Frontier Iron: The Maramec Iron Works, 1826-1876: *Hist. Soc. Wisconsin*, 206 pp., illus., 1964.

Nuttli, Otto W. Refer to Kisslinger, Carl.

O'Brien, Richard P.

1. Exploratory drilling at Union Electric's Taum Sauk project in Guidebook to the geology of the St. Francois Mountain area: *Missouri Geol. Survey and Water Resources, Rept. Inv. 26*, pp. 122-126, 2 figs., October 1961.

O'Connor, Howard G.

1. Changes in Kansas stratigraphic nomenclature: *Am. Assoc. Petroleum Geologists Bull.*, vol. 47, no. 10, 3 figs., pp. 1873-1877, October 1963.
2. (and Fowler, Lowell W.). Pleistocene geology in a part of the Kansas City area: *Kansas Acad. Sci. Trans.*, vol. 66, no. 4, pp. 622-631, 5 figs., 1963 (1964).

Odell, J. W. Refer to Snyder, F. G.

Oder, Charles R.

1. The stratigraphy, structure, and paleontology of the zinc-bearing (Ordovician) Knox Dolomite, between Jefferson City, Missouri and Bristol, Tennessee: unpublished Doctoral dissertation, Univ. of Illinois, Urbana, Illinois, 1933.

O'Donnel, H. J. Refer to Parks, B. C.

Oesch, Ronald D.

1. A preliminary report on the fossil Pleistocene mammals from Perry County caves: Missouri Speleology, vol. 7, no. 4, pp. 77-81, 6 figs., October 1965.
2. A preliminary study of the Pleistocene vertebrate fauna from Crankshaft Pit, Missouri: unpublished Masters thesis, Central Missouri State College, Warrensburg, Missouri, 1965.

Ohle, Earnest L.

1. Some considerations in determining the origin of ore deposits of the Mississippi Valley type: Econ. Geology, vol. 54, no. 5, pp. 769-789, figs. 1-4, August 1959.

Ojakangas, Dennis R.

1. Depauperate fauna from the Maquoketa formation of Iowa and Illinois: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1959.

Ojakangas, Richard W.

1. The stratigraphy and petrology of the Lamotte formation in Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1960.
2. Petrology and sedimentation of the Upper Cambrian Lamotte Sandstone in Missouri: Jour. Sed. Petrology, vol. 33, no. 4, pp. 860-873, 9 figs., December 1963.

Oliver, William A., Jr.

1. The Devonian colonial coral genus *Billingsastrea* and its earliest known species: U. S. Geol. Survey, Prof. Paper 483-B, 10 pp., 2 pls., 2 tables, 1964.

Ore, H. Thomas

1. (and White, Edward D.). An experiment in the quantitative analysis of drainage basin characteristics: Compass, vol. 36, no. 1, pp. 23-37, 4 charts, 2 pls., November 1958.

Ortiz, Gustavo A.

1. Mineralogy of the suspended material in the Missouri River: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1956.

Ostrom, Meredith E.

1. Pre-Maquoketa (Middle Ordovician) cyclic sediments in the upper Mississippi Valley area (abstract): *Am. Assoc. Petroleum Geologists Bull.*, vol. 47, no. 2, p. 366, February 1963.

Otis, L. M.

1. (and Jensen, Nan C.). Stone: *U. S. Bur. Mines, Minerals Yearbook—1953*, vol. 1, pp. 1053-1088, 1956.
2. (and Shupp, Dorothy T.). Sand and gravel: *U. S. Bur. Mines, Minerals Yearbook—1953*, vol. 1, pp. 955-971, 1956.

Otten, William J.

1. Geology of the southeastern portion of the Millersburg Quadrangle, Callaway County, Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1955.

Owens, Willard G.

1. Occurrence of mineralized groundwater in southern St. Louis and Jefferson Counties, Missouri: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1960.

Palma, Oscar M.

1. Swelling properties of Putnam soils: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1963.

Palmer, Allison R.

1. Evolutionary patterns in North American Cambrian trilobites (abstract): *Geol. Soc. America, Program 1964 Ann. Mtgs.*, p. 147, November 1964.

Palmer, Earnest J. Refer to Searight, W. V.; and Unklesbay, A. G.

Parham, Walter E.

1. Lower Pennsylvanian clay resources of Rock Island, Mercer and Henry Counties, Illinois: *Illinois Geol. Survey, Circ. 332*, 40 pp., 1 fig., 1961.

Parizek, Eldon J.

1. Description and origin of stone lines (carpedoliths) near the Kansan drift border in northeast Kansas and northwest Missouri (abstract): *Geol. Soc. America, Program 1959 Ann.*

- Mtgs., p. 96A, November 1959; Geol. Soc. America Bull., vol. 70, no. 12, pt. 2, p. 1654, December 1959.
2. Method of separation and displacement of large limestone blocks in northwest Missouri (abstract): Geol. Soc. America, Program 1962 Ann. Mtgs., p. 113A, November 1962.
 3. Stratigraphy of the Kansas City Group in Guidebook, annual meeting of the Geological Society of America, geology of the Kansas City Group at Kansas City: Missouri Geol. Survey and Water Resources, Rept. Inv. 31, pp. 32-49, 1 fig., 9 tables, November 1965.
 4. (and Gentile, Richard J.). Guidebook, annual meeting of the Geological Society of America, the geology of the Kansas City Group at Kansas City: Missouri Geol. Survey and Water Resources, Rept. Inv. 31, 62 pp., 24 figs., 1 pl., November 1965.

Parker, Mary C. Refer to Harris, Stanley E., Jr.

Parker, Richard A.

1. Calcination of Missouri flint, burley and diaspore clays in a rotary kiln: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1956.

Parks, B. C.

1. (and O'Donnel, H. J.). Petrography of American coals: U. S. Bur. Mines, Bull. 550, viii + 193 pp., 39 figs., 12 tables, 1956.

Parmalee, Paul W.

1. (and Jacobson, Karl W.). Vertebrate remains from a Missouri cave: Jour. Mammalogy, vol. 40, no. 3, pp. 401-405, 1959.

Patterson, Sam H. Refer to Huddle, John V. W.

Patrick, David M.

1. The Cheltenham clay of Boone County, Missouri: unpublished Masters thesis, Univ. of Missouri at Columbia, Columbia, Missouri, August 1964.

Payton, C. E.

1. Facies relationships in the Bethany Falls Limestone in Guidebook, annual meeting of the Geological Society of America, geology of the Kansas City Group at Kansas City: Missouri Geol. Survey and Water Resources, Rept. Inv. 31, pp. 58-62, 6 figs., November 1965.

Peck, Raymond E.

1. (and Eyer, Jerome A.). Representatives of *Chovanella*, a Devon-

ian charophyte, in North America: Micropaleontology, vol. 9, no. 1, pp. 97-100, 1 pl., January 1963.

2. (and Eyer, Jerome A.). Pennsylvanian, Permian and Triassic Charophyta of North America: Micropaleontology, vol. 37, no. 4, pp. 835-844, pls. 100-101, 1 fig., July 1963.

Perry, Bobbie L.

1. Permeability study of algal reef beds within the Bonneterre formation: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1958.

Perry, Norton R.

1. Ontogenetic study of some upper Devonian polygnathids: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, January 1958.

Persons, Hubert C.

1. Limestone mine converted to underground storage area: Rock Products, pp. 94-97, June 1957.

Petersen, M. S.

1. Floods of June 17th and 18th, 1964 in Jefferson, Ste. Genevieve, and St. Francois Counties, Missouri: Missouri Geol. Survey and Water Resources, Water Resources Rept. 19, 20 pp., 9 figs., 2 tables, October 1965.

Peterson, J. R.

1. Ordovician stratigraphy and correlations in North America: Am. Assoc. Petroleum Geologists Bull., vol. 45, no. 8, pp. 1364-1377, 12 figs., August 1961.

Pettit, Robert F., Jr.

1. (Reynolds, Burton M.; and Calhoun, Willis A.). Mining and milling methods and costs, Ozark Ore Company, Iron Mountain Ore Mine, St. Francois County, Missouri: U. S. Bur. of Mines, Inf. Circ. 7807, 46 pp., 20 figs., 15 tables, October 1957.

Pierre, Arthur P. Refer to Cannon, Ralph S., Jr.

Pike, James W. Refer to Conkin, James E.

Pinney, Robert I.

1. The stratigraphy and paleontology of the Meppen Formation (Mississippian, Osagean) in western Illinois and eastern

Missouri: unpublished Masters thesis, Univ. of Ohio, Athens, Ohio, 1962.

Pinson, W. H. Refer to Allen, V. T.; and Bailey, S. W.

Piskin, Kemal

1. Ground-water investigation in the southern half of Franklin County, Missouri: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1962.

Pitrat, Charles W.

1. Devonian corals from the Cedar Valley limestone of Iowa: Jour. Paleontology, vol. 36, no. 6, pp. 1155-1162, pls. 158-159, November 1962.

Plahowski, E. J. Refer to Nace, R. L.

Planje, T. J. Refer also to Herold, P. G.

1. A study of Missouri bloating clays and a suggested mechanism for the bloating process (abstract): Mid-Am. Minerals Conf., October 1958; Min. Eng., vol. 11, no. 1, p. 13, January 1959.

Plunkett, J. D. Refer to Herold, P. G.

Potter, Paul E.

1. (and Siever, Raymond). Sources of basal Pennsylvanian sediments in the Eastern Interior Basin; 1. Cross bedding; 2. Sedimentary petrology; 3. Some methodological implications: Jour. Geology, vol. 64, nos. 3, 4, and 5, May, July, and September 1956.
2. (and Pryor, Wayne A.). Dispersal centers of Paleozoic and later clastics of the upper Mississippi Valley and adjacent areas: Geol. Soc. America Bull., vol. 72, no. 8, pp. 1195-1250, 2 pls., 17 figs., August 1961.

Potts, Ray H.

1. Cationic and structural changes in Missouri River clays when treated with ocean water: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1959.

Powell, H. E. Refer to Calhoun, W. A.

Pratt, Ethel M.

1. (and Cornwall, Henry R.). Bibliography of nickel: U. S. Geol. Survey, Bull. 1019-K, pp. 755-815, 1958.

Pugh, Edward E., Jr.

1. Developments in North Mid-Continent in 1962: Am. Assoc.

Petroleum Geologists Bull., vol. 47, no. 6, pp. 1007-1012, 1 fig., June 1963.

Purteets, The

1. Fossil hunting in Missouri: Rocks and Minerals, vol. 38, nos. 7-8, pp. 400-401, July-August 1963.

Quandil, Yacoub A.

1. Arenaceous Foraminifera of the Bronson Subgroup (Missourian Series) in Kansas: unpublished Masters thesis, Univ. of Kansas, Lawrence, Kansas, 1961.

Quinn, James H.

1. Origin and age of Ozark Plateau surfaces in northwest Arkansas: Geol. Soc. America Bull., vol. 67, no. 12, pt. 2, p. 1726, December 1956.

Quirin, Barbara D. Refer to Vlissides, Sophie D.

Ragan, Wendell J.

1. Brachiopoda and Mollusca from the Burgner Formation in southwest Missouri: unpublished Doctoral dissertation, Univ. of Missouri, Columbia, Missouri, 1959.

Rapp, David W.

1. A comparison of the type sections of the Jefferson City, Cotter, and Powell formations: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1956.

Rapp, Edward G.

1. Field permeability determination of partially saturated fine grained soil: unpublished Masters thesis, Univ. of Missouri at Rolla, Rolla, Missouri, 1965.

Prevey, J. L.

1. The petrology of some loess from Missouri and Massachusetts: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1954.

Prusok, Rudi A.

1. The stratigraphy and structure of the Fayette Quadrangle, Howard County, Missouri: unpublished Masters thesis, Univ. of Iowa, Iowa City, Iowa, 1961.

Pryor, Wayne A. Refer also to Potter, P. E.

1. Cretaceous geology and petrology of the upper Mississippi Em-

- bayment: unpublished Doctoral dissertation, Rutgers, the State Univ., New Brunswick, New Jersey, May 1959.
2. Cretaceous sedimentation in upper Mississippi Embayment: *Am. Assoc. Petroleum Geologists*, vol. 44, no. 9, pp. 1473-1504, 18 figs., September 1960.
 3. (and Glass, H. D.). Cretaceous-Tertiary clay mineralogy of the upper Mississippi Embayment: *Jour. Sed. Petrology*, vol. 31, no. 1, pp. 38-51, figs. 1-7, March 1961.
 4. (and Ross, C. A.). Geology of the Illinois parts of the Cairo, LaCenter, and Thebes Quadrangles: *Illinois State Geol. Survey, Circ. 332*, 39 pp., 2 pls., 8 figs., 1962.
 5. Mesozoic-Cenozoic history of the Mississippi Embayment in *Guidebook to the geology in the vicinity of Cape Girardeau, Missouri, including Crowley's Ridge*: *Assoc. Missouri Geologists, 9th Ann. Field Trip*, pp. 42-48, fig. 15, September 1962.

Ray, Louis L.

1. The Charleston, Missouri, alluvial fan in *Geological Survey research, 1964*: U. S. Geol. Survey, Prof. Paper 501, pp. B130-B134, 2 figs., 1964.

Read, Charles B.

1. (and Mamay, Sergius H.). Upper Paleozoic floral zones of the United States in *Geological Survey research 1960*, pp. B381-B383, table 176.1: U. S. Geol. Survey, Prof. Paper 400-B, 1960.

Read, William F.

1. A new iron meteorite from Webster County, Missouri: *Meteoritics*, vol. 2, no. 3, pp. 285-290, 3 figs., December 1964.

Reams, Max W.

1. Laboratory and field evidence for a vadose origin of foibe (dome-pits): *Internatl. Jour. Speleology*, vol. 1, pt. 3, pp. 373-389, 1965.

Reed, E. C.

1. (and Dreeszen, V. H.). Revision of the classification of the Pleistocene deposits of Nebraska: *Nebraska Geol. Survey, Bull. 23*, 65 pp., 11 figs., June 1965.

Reed, John J.

1. St. Joseph Lead Company's mine research program: *Missouri School of Mines and Met. Bull., Tech. ser. 92*, pp. 29-30, 1956.
2. A case history of pillar recovery (abstract): *Mid-Am. Minerals*

Conf., October 1958; Min. Eng., vol. 11, no. 1, p. 12, January 1959.

3. (and Bilheimer, Lee). How research advances grouting techniques at St. Joseph Lead: Min. World, vol. 22, no. 12, pp. 33-35, illus., November 1960.
4. (and Mann, C. David). Prestressed, preloaded concrete pillars give better roof control: Eng. and Min. Jour., vol. 161, no. 11, pp. 88-93, illus., November 1960.

Reesman, A. L. Refer to Keller, W. D.

Rexroad, Carl B. Refer also to Collinson, Charles.

1. Conodonts from the Chester Series in the type area of southwestern Illinois: Illinois State Geol. Survey, Rept. Inv. 199, 43 pp., 1957.
2. The conodont homeomorphs *Tephrognathus* and *Streptognathodus*: Jour. Paleontology, vol. 32, no. 6, pp. 1158-1159, November 1958.
3. (and Burton, Robert C.). Conodonts from the Kinkaid formation (Chester) in Illinois: Jour. Paleontology, vol. 35, no. 6, pp. 1143-1158, pls. 138-141, 4 figs., November 1961.
4. (and Jarrell, Mary K.). Correlation by conodonts of the Golconda Group (Chesterian) in Illinois basin in Geological notes: Am. Assoc. Petroleum Geologists Bull., vol. 45, no. 12, pp. 2012-2017, 6 figs., December 1961.
5. (and Collinson, Charles). Conodonts from the St. Louis formation (Valmeyeran series) of Illinois, Indiana, and Missouri: Illinois Geol. Survey, Circ. 335, 28 pp., illus., 1963.
6. (and Furnish, W. M.). Conodonts from the Pella Formation (Mississippian), south-central Iowa: Jour. Paleontology, vol. 38, no. 4, pp. 667-676, 1 fig., 1 pl., 1 table, July 1964.
7. (and Collinson, Charles). Conodonts from the Keokuk, Warsaw and Salem formations (Mississippian) of Illinois: Illinois Geol. Survey, Circ. 388, 26 pp., 2 figs., 1 pl., 1 table, 1 chart, June 1965.

Reynolds, Burton M. Refer to Pettit, R. F., Jr.

Reynolds, Jack. Refer also to Hawksley, Oscar.

1. A preliminary study of the Pleistocene vertebrate fauna from Bat Cave, Missouri: unpublished Masters thesis, Central Missouri State College, Warrensburg, Missouri, May 1962.

Richardson, Eugene S., Jr.

1. Pennsylvanian invertebrates of the Mazon Creek area, Illinois: Fieldiana Geology, vol. 12, nos. 1-4, 76 pp., 41 figs., January 1956.

Ridges, John D.

1. The iron ores of Iron Mountain, Missouri: Mineral Industries, vol. 26, no. 9, pp. 1-6, figs. 1-3, June 1957.

Risser, H. E. Refer also to Voskuil, W. H.

1. Illinois-Missouri mineral resource complex—a base for industrial development: Illinois Geol. Survey, Circ. 337, 60 pp., 14 figs., 10 tables, 1962.

Roberts, George D.

1. Residual soils—some engineering characteristics (abstract): Geol. Soc. America, Program 1965 Ann. Mtgs., p. 135, November 1965.

Roberts, Ralph G.

1. Tick Creek Cave, an archaic site in the Gasconade River valley of Missouri: Missouri Archaeologist, vol. 27, no. 2, 52 pp., 25 figs., April 1965.

Robertson, Charles E.

1. The geology of the Galena Quadrangle: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1961.
2. Water well yield map of Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, March 1963.
3. Well data for water well yield map: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 26 pp., tabular form, April 1963.

Robertson, Forbes

1. Petrology of the St. Francois Mountains batholith, Missouri (abstract): Geol. Soc. America, Program 1965 Ann. Mtgs., pp. 135-136, November 1965.

Robertson, Harry F. Refer to Diamond, W. G.**Roehrs, Robert C.**

1. A study of isolated upper Devonian outcrops in central Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1958.

Rollman, Howard E. Refer also to Netzeband, F. F.

1. (and Eng, Harvard). Sources of refractory raw materials and refractories markets in south-central United States: U. S. Bur. Mines, Inf. Circ. 7950, iii + 54 pp., 10 figs., 23 tables, 1960.

Roseman, C. Refer to Tubb, J. B., Jr.

Ross, C. A. Refer also to Pryor, W. A.

1. Monograptids in the Silurian of Illinois (abstract): Geol. Soc. America, Program 1961 Ann. Mtgs., p. 132A, November 1961; in Abstracts for 1961, Geol. Soc. America, Spec. Paper 68, p. 256, 1962.
2. Early Llandoveryan (Silurian) graptolites from the Edgewood formation, northeastern Illinois: Jour. Paleontology, vol. 36, no. 6, pp. 1383-1386, 1 fig., 1 table, November 1962.
3. Early Silurian graptolites from the Edgewood formation of Iowa: Jour. Paleontology, vol. 38, no. 6, pp. 1107-1108, 2 figs., November 1964.

Ross, Clarence S.

1. The correlation of the (Silurian) Edgewood and Sexton Creek formations of the Alexandrian Series in Missouri, Illinois, Iowa, and east Wisconsin: Univ. of Illinois, Urbana, Illinois, 1915.

Rostredt, J. O.

1. Floods of April 15-19 in west-central Missouri in Summary of floods in the United States during 1960: U. S. Geol. Survey, Water-Supply Paper 1790-B, pp. B51-B52, 1 fig., 1 table, 1965.
2. Floods of May 6 in south-central Missouri in Summary of floods in the United States during 1960: U. S. Geol. Survey, Water-Supply Paper 1790-B, p. B64, 1 fig., 1965.

Rue, Edward E.

1. (and Williamson, Allen). Mineral resources of southeast Missouri: Illinois Geol. Soc., Field Conf. Guidebook, 15 pp., April 1965.

Ruffin, James H.

1. Palynology of the Tebo coal (Pennsylvanian) of Oklahoma: unpublished Masters thesis, Univ. of Oklahoma, Norman, Oklahoma, 1962.

Russell, R. D.

1. (and Farquhar, R. M.). Isotopic constitution and origins of lead ores: Min. Eng., vol. 9, no. 5, pp. 556-559, May 1957.

Rutten, M. G.

1. Biological homogenization in fossil underclays and seat rocks: Geol. Soc. America Bull., vol. 74, no. 1, pp. 91-92, January 1963.

Ryan, J. P. Refer to Netzeband, F. F.

Saadallah, Adnan A. Refer also to Hagni, Richard D.

1. Nature and lateral variation of host rock limestone in the Tri-State zinc-lead district: unpublished Masters thesis, Univ. of Missouri at Rolla, Rolla, Missouri, 1964.

St. Jean, J., Jr. Refer to Galloway, J. J.

Sackett, Earl L.

1. Barite in Washington County, Missouri, history and development (abstract): Mid-Am. Minerals Conf., October 1958; Min. Eng., vol. 11, no. 1, p. 13, January 1959.
2. Barite: Little known industry that means "mud" to oil men: Min. Eng., vol. 14, no. 5, pp. 46-49, 7 figs., May 1962.

Sanders, Donald T.

1. Sandstones of the Douglas and Pedee Groups in northeastern Kansas: State Geol. Survey of Kansas, Bull. 134, pt. 3, pp. 125-159, figs. 1-5, pls. 1-2, May 15, 1959.

Sargent, John D.

1. Germanium in Mineral facts and problems: U. S. Bur. Mines, Bull. 556, pp. 309-313, 1956.
2. Exploration will help show Pascola's potential: Oil and Gas Jour., vol. 64, no. 34, pp. 128-130, illus., August 24, 1964.

Scafe, Don

1. A comprehensive study of six sections of the (Pennsylvanian) Deer Creek Limestone in Nebraska, Missouri and Kansas: unpublished Masters thesis, Univ. of Kansas, Lawrence, Kansas, 1963.

Scharon, LeRoy. Refer also to Anderson, R. E.; and Hays, Walter W.

1. (Uhley, Robert; and Meidav, Tsvi). Subsurface investigations of a plant site: Min. Eng., vol. 11, no. 2, pp. 215-219, figs. 1-7, February 1959.
2. (Hayes, Walter; and Anderson, R. Ernest). Paleomagnetic investigations in the St. Francois Mountains in Guidebook to the geology of the St. Francois Mountain area: Missouri Geol. Survey and Water Resources, Rept. Inv. 26, pp. 106-114, 3 figs., October 1961.
3. Aeromagnetic map of Carter County, Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 1 sheet, 1963.
4. (and Ehrlich, Marvin). Paleomagnetic research in Missouri (ab-

stract): Missouri Acad. Sci. Proc., vol. 1, ser. 2, p. 37, April 1964.

Schenk, Paul E.

1. The environment of cyclic sedimentation and the paleoecology of the Altamont Formation (Pennsylvanian:Desmoinesian) of Iowa, Missouri, Kansas, and northeastern Oklahoma: unpublished dissertation, Univ. of Wisconsin, Madison, Wisconsin, 1963.

Schicht, R. J.

1. Ground-water development in East St. Louis area, Illinois: Illinois Geol. Survey, Rept. Inv. 51, 70 pp., 71 figs., 40 tables, 1965.

Schmaltz, Lloyd J.

1. Pebble lithology of Nebraskan and Kansan tills in north-central Missouri: unpublished Doctoral dissertation, Univ. of Missouri, Columbia, Missouri, June 1959.
2. Occurrence of vertebrate remains in Nebraskan till of north-central Missouri in Paleontological notes: Jour. Paleontology, vol. 34, no. 4, p. 762, July 1960.
3. Pebble lithology of Nebraskan and Kansan tills in north-central Missouri (abstract): Geol. Soc. America, Program 1961 Ann. Mtgs., p. 138A, November 1961.

Schmidt, Richard A.

1. Temperatures of mineral formation in the Miami-Picher district as indicated by liquid inclusions: Econ. Geology, vol. 57, no. 1, pp. 1-20, 9 figs., January-February 1962.

Schmieg, Robert E.

1. Palynology of the Cabaniss coals in Henry County, Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1958.

Schneider, Raymond H.

1. Microfauna of the Bachelor Formation and associated beds, southwestern Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1961.

Schot, Erik H.

1. The diagenetic origin of the dolomites, chert, and pyrite in the Jefferson City formation: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1963.

Schroeder, Marvin L.

1. Arenaceous Foraminifera of the Shawnee Group of the upper Pennsylvanian in southeastern Kansas: unpublished Masters thesis, Univ. of Kansas, Lawrence, Kansas, 1961.

Schultz, Leonard G.

1. Petrology of underclays: *Geol. Soc. America Bull.*, vol. 69, no. 4, pp. 363-402, 14 figs., April 1958.

Schuster, D. E. Refer to Elser, L. G.**Schwalb, Howard.** Refer to Collinson, C.**Scofield, Nancy L.** Refer to Clark, E. L.**Scott, Alan J.** Refer also to Collinson, C. W.

1. (and Collinson, Charles W.). Conodont faunas from the Louisiana and McCraney formations of Illinois, Iowa, and Missouri in Guidebook, twenty-sixth annual field conference, Kansas Geological Society: Missouri Geol. Survey and Water Resources, Rept. Inv. 27, pp. 110-141, 2 pls., 5 figs., September 1961.
2. Three new conodonts from the Louisiana Limestone (Upper Devonian) of western Illinois in *Paleontological notes: Jour. Paleontology*, vol. 35, no. 6, pp. 1223-1227, 2 figs., November 1961.

Scott, James J.

1. (and Christiansen, Carl R.). Rock mechanics instrumentation for determination of stress distribution around hard rock Long-wall mining faces (abstract): *Min. Eng.*, vol. 17, no. 6, p. 128B, July 1964.

Scott, R. C.

1. (and Barker, F. B.). Data on uranium and radium in ground water in the United States—1954 to 1957: U. S. Geol. Survey, Prof. Paper 426, 115 pp., 2 pls., 7 figs., 1962.

Searight, Thomas K. Refer also to Searight, W. V.

1. Post-Cheltenham Pennsylvanian stratigraphy of the Columbia-Hannibal region, Missouri: unpublished Doctoral dissertation, Univ. of Illinois, Urbana, Illinois, 1959.
2. Post-Cheltenham Desmoinesian sedimentation in the Columbia-Hannibal region, Missouri (abstract): *Geol. Soc. America, Program 1959 Ann. Mtgs.*, p. 114A, November 1959; *Geol. Soc. America Bull.*, vol. 70, no. 12, pt. 2, p. 1672, December 1959.

Searight, Walter V. Refer also to Kisvarsanyi, Eva B.; and Hayes, W. C.

1. The status of coal resources studies: *Econ. Geology*, vol. 45, no. 4, pp. 324-330, June-July 1950.
2. Stratigraphic pattern in pre-Marmaton Desmoinesian cycles (abstract): *Econ. Geology*, vol. 50, no. 7, pp. 791-792, November 1955; *Geol. Soc. America Bull.*, vol. 66, no. 12, pt. 2, p. 1614, December 1955.
3. Asphaltic rocks in western Missouri: *Missouri Geol. Survey and Water Resources, Inf. Circ.* 13, 26 pp., 1 pl., 1957.
4. (and Palmer, Ernest J.). Burgner Formation, pre-Desmoinesian Pennsylvanian deposit in southwestern Missouri: *Am. Assoc. Petroleum Geologists Bull.*, vol. 41, no. 9, pp. 2127-2131, figs. 1, 2, September 1957.
5. Pennsylvanian (Desmoinesian) of Missouri: *Geol. Soc. America, Field Trip Guidebook, St. Louis Mtg.*, 1958, pp. 67-110, 2 pls., 30 figs., November 1958.
6. Pennsylvanian (Desmoinesian) of Missouri: *Missouri Geol. Survey and Water Resources, Rept. Inv.* 25, 46 pp., 2 pls., 30 figs., 1959. (Reprinted from *Field Trip Guidebook, Ann. Mtg.*, 1958, *Geol. Soc. America*.)
7. (and Jeffries, N. W.). Alvis and Lexington coals of Missouri and associated beds (abstract): *Geol. Soc. America, Program 1958 Ann. Mtgs.*, p. 137, November 1958; *Geol. Soc. America Bull.*, vol. 69, no. 12, pt. 2, p. 1641, December 1958.
8. Pre-Marmaton Pennsylvanian deposits of the Forest City basin (abstract): *Geol. Soc. America, Program 1959 Ann. Mtgs.*, p. 115A, November 1959; *Geol. Soc. America Bull.*, vol. 70, no. 12, pt. 2, p. 1673, December 1959.
9. (and Searight, Thomas K.). Pennsylvanian geology of the Lincoln fold in *Guidebook, Twenty-sixth annual field conference, Kansas Geological Society: Missouri Geol. Survey and Water Resources, Rept. Inv.* 27, pp. 156-163, 2 figs., September 1961.
10. Age of the Cheltenham formation (abstract): *Geol. Soc. America, Program 1961 Ann. Mtgs.*, p. 142A, November 1961.
11. Suppression or partial suppression of cyclic sequences (abstract): *Geol. Soc. America, Program 1963 Ann. Mtgs.*, p. 146A, November 1963.
12. Coal in Missouri: *Missouri Mineral Industry News*, vol. 5, no. 4, p. 45, April 1965.

Segar, Robert L. Refer also to Mateker, Emil, Jr.

1. A gravity and magnetic investigation along eastern flank of the Ozark uplift: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, January 1965.

Segroves, Kenneth L.

1. Palynology of the Callaway formation in Callaway and Montgomery Counties, Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, January 1963.

Sellards, E. H.

1. Early Man in America . . . Index to locations and selected bibliography: Geol. Soc. America Bull., vol. 51, no. 3, pp. 373-432, 1 pl., 4 figs., March 1940.

Shaffer, Bernard. Refer also to Mehl, M. G.

1. A unique ontogeny in some polygnathid conodonts: *Compass*, vol. 41, no. 1, pp. 14-19, 2 pls., November 1963.

Sheffey, Nola B. Refer to Stadnichenko, T.**Short, Nicholas M.**

1. Ste. Genevieve (Mississippian) formation at its type locality in Missouri: *Am. Assoc. Petroleum Geologists Bull.*, vol. 46, no. 10, pp. 1912-1934, 14 figs., October 1962.

Shrader, W. D.

1. Soil association areas in northern Missouri: *Soil Sci. Soc. America Proc.*, vol. 11, pp. 458-463, 1946.
2. (and Hussey, Keith M.). Evolution of the level interfluvial divides of the Kansas till plains in Iowa and Missouri: *Iowa Acad. Sci. Proc.*, 1953, vol. 60, pp. 408-413, February 1954.

Shupp, Dorothy T. Refer to Otis, L. M.**Siegel, Frederic R.**

1. Artificially induced thermoluminescence of sedimentary dolomites: *Jour. Sed. Petrology*, vol. 33, no. 1, pp. 64-72, 3 figs., March 1962.

Siever, Raymond. Refer also to Potter, P. E.

1. Pennsylvanian sandstones of the Eastern Interior Basin: *Jour. Sed. Petrology*, vol. 27, no. 3, pp. 227-250, September 1957.

Simon, J. A. Refer to Kosanke, R. M.**Simons, P. Y.**

1. (and Dachille, F.). Shock damage of minerals in shatter cones (abstract): *Geol. Soc. America, Program 1965 Ann. Mtgs.*, pp. 153-154, November 1965.

Sinclair, Valvin R.

1. The stratigraphy and structure of the Mineola-Danville area, Montgomery County, Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1956.

Slaughter, A. L.

1. (and Clabaugh, S. E.). Reconnaissance in central and southwestern states: U. S. Geol. Survey, Trace Elements Inv., Rept. No. 9, pp. 9-10, March 1945.

Slaughter, Maynard

1. A study of mineralogical and other properties of selected raw and fired fire clays: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, January 1958.

Sleeman, Lyle H., Jr.

1. The petrology and sedimentational history of the Callaway Formation in central and northeastern Missouri: unpublished Doctoral dissertation, Univ. of Missouri at Columbia, Columbia, Missouri, January 1964.

Sloss, L. L.

1. Sequences in the cratonic interior of North America: Geol. Soc. America Bull., vol. 74, no. 2, pp. 93-114, 6 figs., February 1963.

Smart, Burton

1. Geologic study and mapping of Pennsylvanian rocks in western Missouri: unpublished Masters thesis, State Univ. of Iowa, Iowa City, Iowa, June 1957.

Smith, Dwight D.

1. (and Wischmeier, Walter H.). Factors effecting sheet and rill erosion: Trans. Am. Geophys. Union, pp. 889-896, December 1957.

Smith, E. S. Refer to Netzeband, F. F.

Smith, George E. Refer to Keller, W. D.

Smith, Mahlon

1. Geology of the Matson-Defiance area in St. Charles County, Missouri: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, February 1958.

Smith, Preston C.

1. Agricultural soil maps; Status, July 1957: Highway Research

Board, Bull. 22-R; Natl. Acad. of Sci.—Natl. Research Council Pub. 543, 109 pp., 1957.

Smith, William H.

1. Strippable coal reserves of Illinois, Part 3—Madison, Macoupin, Jersey, Greene, Scott, Morgan, and Cass Counties: Illinois Geol. Survey, Circ. 311, 40 pp., 4 pls., 2 figs., 1961.

Smoot, Virginia B.

1. Conodonts from isolated Devonian outcrops: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1958.

Snyder, Frank G. Refer also to Brown, John S.

1. (and Emery, John A.). Geology in development and mining, southeast Missouri lead belt: *Min. Eng.*, vol. 8, no. 12, pp. 1216-1224, figs. 1-13, December 1956.
2. (and Odell, J. W.). Mineralized submarine slides in the southwest Missouri lead district (abstract): *Geol. Soc. America, Program 1957 Ann. Mtgs.*, p. 127, November 1957; *Geol. Soc. America Bull.*, vol. 68, no. 12, pt. 2, p. 1797, December 1957.
3. (and Odell, J. W.). Sedimentary breccias in the southeast Missouri lead district: *Geol. Soc. America Bull.*, vol. 69, no. 7, pp. 899-926, 13 figs., 4 pls., July 1958.
4. (and Odell, J. W.). Sedimentary breccias in southeast Missouri lead mines (abstract): *Mid-Am. Minerals Conf.*, October 1958; *Min. Eng.*, vol. 11, no. 1, p. 12, January 1959.
5. (and Wagner, Richard E.). Precambrian of southeast Missouri; status and problems in Guidebook to the geology of the St. Francois Mountain area: *Missouri Geol. Survey and Water Resources, Rept. Inv. 26*, pp. 84-94, October 1961.
6. (and Gerdemann, Paul E.). Explosive igneous activity along an Illinois-Missouri-Kansas axis in Paleozoic time (abstract): *Geol. Soc. America, Program 1963 Ann. Mtgs.*, p. 154A, November 1963.
7. (Williams, James H.; and others). Guidebook, annual meeting Geological Society of America, cryptoexplosive structures in Missouri: *Missouri Geol. Survey and Water Resources, Rept. Inv. 30*, 73 pp., 6 figs., November 1965.
8. (and Gerdemann, Paul E.). Explosive igneous activity along an Illinois-Missouri-Kansas axis: *Am. Jour. Sci.*, vol. 263, pp. 465-493, 8 figs., 2 tables, June 1965.

Soister, Paul E.

1. (and Conklin, Dora R.). Bibliography of U. S. Geological Survey reports on uranium and thorium 1942 through May 1958: *U. S. Geol. Survey, Bull. 1107-A*, 167 + v pp., 1959.

Speer, John H.

1. Short Creek oolite horizon in Ottawa County, Oklahoma (abstract): Oklahoma Acad. Sci. Proc., vol. 31, pp. 82-83, 1950 (1951) Papers presented at 39th Ann. Mtg., December 1, 1950; published November 1951.

Spreen, Barry

1. Additional note on Cherokee Cave: Missouri Speleology, vol. 6, no. 1, p. 107.

Spreng, A. C.

1. The Middle Mississippian Series (Osagean and Meramecian) of northeastern Missouri in Guidebook, twenty-sixth annual field conference, Kansas Geological Society: Missouri Geol. Survey and Water Resources, Rept. Inv. 27, pp. 149-155, September 1961.
2. (and Howe, W. B.). Echinoid jaws from the Mississippian and Pennsylvanian of Missouri: Jour. Paleontology, vol. 37, no. 4, pp. 931-938, 6 figs., July 1963.
3. (and Howe, W. B.). *Archaeocidaris*, correct name for new echinoid jaws: Jour. Paleontology, vol. 39, no. 1, p. 164, January 1965.

Stadnichenko, Taisia

1. (Zubovic, Peter; and Sheffey, Nola B.). Beryllium content of American coal in Contributions to geochemistry: U. S. Geol. Survey, Bull. 1084-K, pp. 253-295, pls. 1-2, figs. 41-45, 1961.

Starke, John M., Jr. Refer to Huffman, G. C.**Staub, William P.**

1. A geophysical survey of the DeSoto area, Missouri: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1960.

Stauder, William V.

1. (and Bollinger, Gilbert A.). P_n velocity and other seismic studies from the data of recent southeast Missouri earthquakes: Seismol. Soc. America Bull., vol. 53, no. 3, pp. 661-679, 10 figs., 5 tables, April 1963.

Stearn, Enid W.

1. Vital stockpiles cached in superior shelters underground: Rock Products, vol. 66, no. 4, pp. 78-82, illus., April 1963.

Stearns, Richard G.

1. Cretaceous, Paleocene, and lower Eocene geologic history of

the northern Mississippi Embayment: *Geol. Soc. America Bull.*, vol. 68, no. 9, pp. 1077-1100, 21 figs., September 1957; Tennessee Dept. of Conservation, Div. of Geology, Rept. Inv. 6, pp. 1077-1100 (reprint), 1958.

2. (and Marcher, Melvin V.). Late Cretaceous and subsequent structural development of the northern Mississippi Embayment area: *Geol. Soc. America Bull.*, vol. 73, no. 11, pp. 1387-1394, 5 figs., November 1962; Tennessee Dept. Conservation and Commerce, Div. of Geology, Rept. Inv. 18, 1962.

Steinhart, J. S.

1. (and Meyer, R. P., and Woolard, G. P.). Arkansas-Missouri, 1958 in *Explosion studies of continental structure*: Carnegie Inst. of Washington, Pub. 622, pp. 226-247, Figs. 7.1-7.11, 1961.

Steuber, Alan M.

1. An analysis of the lateral distribution of trace elements in galena from the Fredericktown, Missouri, mines: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1961.

Stevens, Robert P.

1. Paragenesis of the minerals in the Einstein vein, Madison County, Missouri: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1958.

Stevenson, F. J.

1. Investigations of aminopolysaccharides in soils: 2. Distribution of hexosamines in some soil profiles: *Soil Sci.*, vol. 84, no. 2, pp. 99-106, August 1957.

Steyermark, Julian A.

1. Phanerogamic flora of the fresh-water springs in the Ozarks of Missouri in *Studies of the vegetation of Missouri—II: Field Mus. Nat. Hist., Bot. Ser.*, vol. 9, no. 6, pp. 481-618, 21 figs., 24 pls., February 1941.
2. Vegetational history of the Ozark Forest: *The Univ. of Missouri Studies*, vol. 31, 138 pp., 1959.
3. *Flora of Missouri*: Iowa State Univ. Press, Ames, Iowa, 1725 pp., 390 pls., 1963.

Stinchcomb, Bruce L.

1. Upper Cambrian Monoplacophora from the Ozark uplift of Missouri (abstract): *Missouri Acad. Sci. Proc.*, vol. 1, ser. 2, p. 39, April 1964.

2. Fossil record of life in the Ozarks, Part I: Earth Sci., vol. 18, no. 1, pp. 9-14, illus., January-February 1965; Part II: Earth Sci., vol. 18, no. 4, pp. 169-173, 1 fig., 3 pls., July-August 1965.
3. New mollusca of the Potosi and Eminence formations (Cambrian): unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1965.

Stone, John E.

1. Pleistocene geology of Clark County, northeast Missouri: unpublished Doctoral dissertation, Univ. of Illinois, Urbana, Illinois, 1960.
2. Drainage patterns controlled by systematic joints in glacial drift (abstract): Geol. Soc. America, Program 1963 Ann. Mtgs., p. 159A, November 1963.

Strahl, Erwin O. Refer to Bates, T. F.

Stramel, G. J.

1. The hydraulic properties of the Ordovician rocks at Pittsburg, Kansas: Kansas State Geol. Survey, Bull. 127, pt. 5, pp. 155-178, 1957.

Straumanis, M. E.

1. (Amstutz, G. C.; and Chan, S.). Lattice parameters and expansion coefficients of FeS_2 (natural and synthetic), and of CoS_2 : Am. Mineralogist, vol. 49, nos. 1 and 2, pp. 206-212, 2 figs., 3 tables, January-February 1964.

Strimple, Harrell L.

1. (and Koenig, John W.). Mississippian microcrinoids from Oklahoma and New Mexico: Jour. Paleontology, vol. 30, no. 5, pp. 1225-1247, 4 text-figs., September 1956.
2. The occurrence of *Galateacrinus allisoni* in Oklahoma: Oklahoma Geology Notes, vol. 19, no. 9, pp. 195-196, September 1959.
3. Late Desmoinesian crinoids: Oklahoma Geol. Survey, Bull. 93, 189 pp., 19 pls., 23 figs., 1961.

Stumm, Erwin C. Refer to Ehlers, G. M.

Swann, David H. Refer also to Collinson, C. W.; and Meents, Wayne F.

1. (and Bell, Alfred H.). Habitat of oil in the Illinois basin: Habitat of Oil, Am. Assoc. Petroleum Geologists, Symposium, Lewis G. Weeks, Ed., pp. 447-472, 17 figs., June 1958.
2. (Fisher, Robert W.; and Mathias, J. Walter). Visual estimates of grain size distribution in some Chester sandstones: Illinois State Geological Survey, Circ. 280, 43 pp., 14 figs., 4 tables, app., 1959.

3. (and Willman, H. B.). Megagroups in Illinois: *Am. Assoc. Petroleum Geologists*, vol. 45, no. 4, pp. 471-483, 2 figs., April 1961.
4. Classification of Genevician and Chesterian (Late Mississippian) rocks of Illinois: *Illinois State Geol. Survey, Rept. Inv. 216*, 91 pp., 1 pl., 23 figs., 1963.

Swanson, Vernon E. Refer also to Conant, L. C.

1. Uranium in marine black shales of the United States: *Internatl. Conf. on Peaceful Uses of Atomic Energy, Geneva, 1955, Proc. vol. 6, Geology of Uranium and Thorium*, 430-434; *U. S. Geol. Survey, Prof. Paper 300*, pp. 451-456, 1956.
2. Geology and geochemistry of uranium in marine black shales; a review: *U. S. Geol. Survey, Prof. Paper 356-C*, pp. 67-112, figs. 23-27, 1961.

Sweet, Walter C.

1. Distribution and stratigraphic significance of conodonts in the type section of the Cincinnati Series (abstract): *Geol. Soc. America, Program 1959 Ann. Mtgs.*, p. 126A, November 1959.
2. (Turco, C. A.; Warner, E., Jr.; and Wilkie, L. C.). The American upper Ordovician standard. I. Eden conodonts from the Cincinnati region of Ohio and Kentucky: *Jour. Paleontology*, vol. 33, no. 6, pp. 1029-1068, pls. 130-133, 1 text-fig., November 1959.

Switzer, George. Refer to Thomson, R. D.

Sylvester, Robert K.

1. Scolecodonts from central Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1957: *Jour. Paleontology*, vol. 33, no. 1, pp. 33-34, pls. 5-6, text-figs. 1-3, January 1959.

Tagg, Kathleen M. Refer to Gazdik, G. C.

Tarbox, George E.

1. Bibliography of graduate theses on geophysics in United States and Canadian institutions: *Colorado School of Mines Quart.*, vol. 53, no. 1, 55 pp., January 1958.

Taylor, C. T.

1. Chemical quality of Missouri surface water: *Missouri Water Pollution Board*, 28 pp., 2 tables, 1964.

Taylor, Roy O.

1. The stratigraphy and structure of the northeast quarter of the

Fordland Quadrangle, Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1957.

Tedrow, H. C.

1. Report on the Metates Mining Company (Missouri): unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1922.

Templeton, J. S.

1. (and Willman, H. B.). Champlainian Series (Middle Ordovician) in Illinois: Illinois State Geol. Survey, Bull. 89, 260 pp., 41 figs., 1963.

Tennissen, Anthony C.

1. Mineralogy, petrography, and ceramic properties of Lower Cabaniss underclays in western Missouri: unpublished Doctoral dissertation, Missouri School of Mines and Met., Rolla, Missouri, June 1963.
2. Mineralogy and petrography of Lower Cabaniss underclays in western Missouri (abstract): Geol. Soc. America, Program 1965 Ann. Mtgs., pp. 171-172, November 1965.

Textoris, Daniel A. Refer to Carozzi, Albert V.

Thoenen, J. R.

1. (and Bowles, Oliver). Sand and gravel in Mineral facts and problems: U. S. Bur. Mines, Bull. 556, pp. 761-772, 1956.

Thomas, Chester W., Jr.

1. Structural reconnaissance of the Byrnesville area, Jefferson County, Missouri: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1956.

Thomas, Everett R.

1. Paleogeology of the Pawnee Formation (Pennsylvanian: Desmoinesian) of Missouri: unpublished Masters thesis, Univ. of Wisconsin, Madison, Wisconsin, 1963.

Thomas, H. H. Refer to Zartman, R. E.

Thomas, Nathan O.

1. (and Harbeck, G. Earl, Jr.). Reservoirs in the United States: U. S. Geol. Survey, Water Supply Paper 1360-A, 99 pp., 1956.

Thompson, M. L.

1. (Verville, G. J.; and Lokke, D. H.). Fusulinids of the Desmoinesian.

- an-Missourian contact: *Jour. Paleontology*, vol. 30, no. 4, pp. 793-810, pls. 89-93, 1 text-fig., July 1956.
2. Northern midcontinent Missourian fusulinids: *Jour. Paleontology*, vol. 30, no. 2, pp. 289-328, pls. 21-30, Text-figs. 1, 2, March 1957.

Thompson, Thomas L.

1. Conodonts from the Meramecian Stage (Upper Mississippian) of Kansas: unpublished Doctoral dissertation, Univ. of Iowa, Iowa City, Iowa, 1965.

Thomson, Robert D.

1. (Switzer, George; and Blankenship, Eleanor V.). Gem stones: U. S. Bur. of Mines, Minerals Yearbook—1952, vol. 1, pp. 479-493, 1956.

Thornton, Robert C.

1. Geology of the northern half of the Ellington Quadrangle, Missouri: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1963.

Tilton, G. R.

1. (Wetherill, G. W.; and Davis, G. L.). Mineral ages from the Wichita and Arbuckle Mountains, Oklahoma, and the St. Francois Mountains, Missouri: *Jour. Geophys. Research*, vol. 67, no. 10, pp. 4011-4019, 2 figs., September 1962.

Todd, Robert G.

1. Spore analysis of the "Alvis" coal of western Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, June 1957.

Trauffer, Walter E.

1. Missouri producer offers complete plant nutrient program to farmers: *Pit and Quarry*, vol. 53, no. 11, pp. 142-146, illus., May 1961.
2. Kansas agstone producer also meets Missouri specifications: *Pit and Quarry*, vol. 55, no. 11, pp. 134-138, illus., May 1963.
3. Missouri stone producer overcomes many handicaps: *Pit and Quarry*, vol. 55, no. 9, pp. 109-111, illus., March 1963.
4. Stewart's new sand plant serves Kansas City metropolitan area: *Pit and Quarry*, vol. 56, no. 5, pp. 121-123, illus., November 1963.

Treckman, John F. Refer to Gutschick, R. C.

Trescott, Peter C. Refer to Wanless, Harold R.

Tripp, Richard B.

1. Inclusive minerals of the Keokuk geodes: *Earth Sci.*, vol. 14, no. 1, pp. 28-29, illus., February 1961.

Troell, Arthur R., Jr.

1. Mississippian bioherms of southwestern Missouri and northwestern Arkansas: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1960.
2. Lower Mississippian bioherms of southwestern Missouri and northwestern Arkansas: *Jour. Sed. Petrology*, vol. 32, no. 4, pp. 629-664, 8 figs., December 1962.

Trumbull, Ellen J.

1. Shumard's type specimens of Tertiary mollusks from Oregon and other types formerly at Washington University, St. Louis: *Jour. Paleontology*, vol. 32, no. 5, pp. 893-906, pls. 115-117, September 1958.

Tubb, J. B., Jr. Refer also to Wanless, Harold R.

1. (Gednetz, D. R.; Glover, A. D.; Manos, C. T.; Drlopp, D. E.; Roseman, C.; and Weiner, J. L.). Interpretation of some Pennsylvanian cyclothems through environmental mapping (abstract) in *Abstracts of A.A.P.G.-S.E.P.M.-M.S.E.G. papers*: *Am. Assoc. Petroleum Geologists Bull.*, vol. 47, no. 2, p. 373, February 1963.

Turco, C. A. Refer to Sweet, W. C.

Turner, C. Helmer

1. Man and the mastodon in Missouri: *Earth Sci.*, vol. 9, no. 3, pp. 7, 15-18, May-June 1956.

Turner, Irving L.

1. (and Unfer, Louis, Jr.). Physiography of the southeast Missouri lowlands in *Guidebook to the geology in the vicinity of Cape Girardeau, Missouri, including Crowleys Ridge*: *Assoc. Missouri Geologists, 9th Ann. Field Trip*, pp. 49-54, fig. 16, September 1962.

Tweto, O. L. Refer to Lemmon, D. M.

Uhley, Robert P. Refer to Scharon, LeRoy; and Amstutz, G. C.

Unfer, Louis, Jr. Refer to Turner, I. L.

Unklesbay, A. G.

1. Attachment loops on infant brachiopods from the Louisiana Limestone in Missouri (abstract): Geol. Soc. America, Program 1958 Ann. Mtgs., p. 152, November 1958; Geol. Soc. America Bull., vol. 69, no. 12, pt. 2, p. 1656, December 1958.
2. (and Palmer, Ernest J.). Cephalopods from the Burgner Formation in Missouri: Jour. Paleontology, vol. 32, no. 6, pp. 1071-1075, pl. 138, 2 text-figs., November 1958.
3. Pennsylvanian cephalopods of Oklahoma: Oklahoma Geol. Survey, Bull. 96, 150 pp., 16 pls., 1962.
4. (and Niewoehner, Walter B.). Attachment loops on infant brachiopods from the Louisiana Limestone in Missouri: Jour. Paleontology, vol. 33, no. 4, pp. 547-549, pl. 74, July 1959.
5. Nautiloids from the Gorman and Honeycut of central Texas: Jour. Paleontology, vol. 35, no. 2, pp. 373-379, pls. 51-52, 1 fig., March 1961.

U. S. Bureau of Mines (in cooperation with Bituminous Coal Research, Inc.)

1. Outlook and research possibilities for bituminous coal: U. S. Bur. Mines, Inf. Circ. 7754, 52 pp., 5 figs., May 1956.

U. S. Bureau of Mines, Staff

1. Mineral facts and problems; 1960 Edition: U. S. Bur. Mines, Bull. 585, 1016 pp., (1956) 1960.

Upshaw, Charles F.

1. (and Creath, Wilgus B.). Pennsylvanian miospores from a cave deposit in Devonian limestone, Callaway County, Missouri: Micropaleontology, vol. 11, no. 4, pp. 431-448, 1 fig., 4 pls., 2 tables, October 1965.

Van Eck, Orville. Refer to Landis, E. R.**Van Landingham, Sam L.**

1. Summary of fossil microfloral investigations in the Bevier, Weir-Pittsburg, lower Williamsburg, and Blue Mound coals of eastern Kansas: Univ. of Kansas Sci. Bull., vol. 42, no. 7, pp. 925-991, 29 pls.

Venkatachla, B. S. Refer to Wilson, L. R.**Verville, G. J.** Refer to Thompson, M. L.**Vine, James D.**

1. Geology of uranium in coaly carbonaceous rocks: U. S. Geol.

Survey, Prof. Paper 356-D, pp. 113-170, pl. 1, figs. 28-37, 1962.

Vineyard, Jerry D. Refer also to Hawksley, O.

1. The reservoir theory of spring flow: *Natl. Speleol. Soc., Bull.* 20, pp. 46-50, 3 figs., November 1958.
2. Criteria for cave naming: *Missouri Speleology*, vol. 2, no. 2, pp. 38-41, April 1960.
3. Cave map symbols: *Missouri Speleology*, vol. 2, no. 4, pp. 94-99, 1960.
4. Natural gemstones in a Missouri cave: *Missouri Speleology*, vol. 2, no. 4, p. 126, 1960.
5. Origin and development of Cave Spring, Shannon County, Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, February 1963.
6. Bibliography of the geology of Missouri—1963: *Missouri Geol. Survey and Water Resources, Misc. Pub.*, 56 pp., February 1964.
7. Catalogue of the caves of Missouri: *Missouri Speleol. Survey*, 99 pp., 2 figs., 1 table, June 1964.
8. Bibliography of the geology of Missouri—1964: *Missouri Geol. Survey and Water Resources, Misc. Pub.*, 54 pp., March 1965.
9. (and Williams, James H.). A new sink in Laclede County, Missouri: *Missouri Mineral Industry News*, vol. 5, no. 7, pp. 69-71, 2 figs., July 1965.

Vistellius, Andrew B.

1. (and Hurst, Vernon J.). Phosphorus in granitic rocks of North America: *Geol. Soc. America Bull.*, vol. 75, pp. 1055-1092, 6 figs., 31 tables, 1964.

Vitaliano, Charles J. Refer to Greenberg, S. S.

Vlissides, Sophie D.

1. (and Quirin, Barbara D.). Oil and gas fields of the United States exclusive of Alaska and Hawaii: *U. S. Geol. Survey*, 2 sheets, 1964.

Von Almen, William F.

1. Palynology of selected coals of northeastern and north-central Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1959.

Voskuil, W. H.

1. (and Risser, H. E.). Economic aspects of direct reduction of iron ore in Illinois: *Illinois State Geol. Survey, Circ.* 283, 19 pp., 8 figs., 1959.

Voss, James T.

1. Burlington and Keokuk formations in the Upper Mississippi Valley area: unpublished Masters thesis, St. Louis Univ., St. Louis, Missouri, 1963.

Wagner, Richard E. Refer to Snyder, F. G.**Wagner, Richard J.**

1. Algal reefs in the Early Paleozoic strata of southeast Missouri: unpublished Masters thesis, St. Louis Univ., St. Louis, Missouri, 1961.

Walker, Russell A.

1. Geology of the Filley Quadrangle: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1961.

Walker, Theodore. Refer to Bergstrom, R. E.**Wanless, Harold R.** Refer also to Gednetz, Donald; and Kosanke, R. M.

1. Relations between Pennsylvanian rocks of the Eastern Interior and Northern Midcontinent coal basins: Guidebook, Twenty-first Field Conf., Kansas Geol. Soc., pp. 85-91, 2 figs., September 1957.
2. Pennsylvanian rocks of Eastern Interior basin in Pennsylvanian System in the United States, a symposium: Am. Assoc. Petroleum Geologists, Tulsa, Oklahoma, pp. 4-59, 15 figs., 1962.
3. (Tubb., John B., Jr.; Gednetz, Donald E.; and Weiner, John L.). Mapping sedimentary environments of Pennsylvanian cycles: Geol. Soc. America Bull., vol. 74, no. 4, pp. 437-486, 17 figs., April 1963.
4. (Baroffio, James R.; and Trescott, Peter C.). Conditions of deposition of Pennsylvanian coals (abstract): Geol. Soc. America, Program 1964 Ann. Mtgs., p. 217, November 1964.
5. (Horne, John C.; Drlopp, Donald R.; Gamble, James C.; Wright, Cynthia R.; and Manos, Constantine). Pennsylvanian environmental studies in the Illinois basin and northern midcontinent (abstract): Geol. Soc. America, Program 1965 Ann. Mtgs., p. 178, November 1965.

Warner, E., Jr. Refer to Sweet, W. C.**Water Resources Division**

1. (Prepared under the direction of J. V. Wells). Surface water supply of the United States, 1955; Part 5. Hudson Bay and Upper Mississippi River basins: U. S. Geol. Survey, Water-Supply Paper 1388, xii + 548 pp., 3 figs., 1957.

2. (Prepared under the direction of J. V. Wells). Compilation of records of surface waters of the United States through September 1950, Part 5. Hudson Bay and Upper Mississippi River basins: U. S. Geol. Survey, Water Supply Paper 1308, 708 pp., 1 pl., 2 figs., 1959.
3. (Prepared under the direction of J. V. Wells). Summary of floods in the United States during 1952: U. S. Geol. Survey, Water Supply Paper 1260-F, pp. 687-713, figs. 90-91, 1 table, 1959.
4. (Prepared under the direction of J. V. Wells). Surface water supply of the United States, 1957, Part 5. Hudson Bay and Upper Mississippi River basins: U. S. Geol. Survey, Water Supply Paper 1508, 624 pp., 3 figs., 1959.
5. (Prepared under the direction of J. V. Wells). Surface water supply of the United States, 1957, Part 6-B. Missouri River basin below Sioux City, Iowa: U. S. Geol. Survey, Water Supply Paper 1510, 456 pp., 3 figs., 1959.
6. (Prepared under the direction of J. V. Wells). Surface water supply of the United States, 1957, Part 7. Lower Mississippi River basin: U. S. Geol. Survey, Water Supply Paper 1511, 527 pp., 3 figs., 1959.
7. Surface water records of Missouri—1962: U. S. Geol. Survey, Rolla, Missouri, 161 pp., 1963.
8. Compilation of records of surface waters of the United States, October 1950 to September 1960, Part 5. Hudson Bay and Upper Mississippi River basins: U. S. Geol. Survey, Water Supply Paper 1728, 576 pp., 2 figs., 1 pl., 1964.
9. Compilation of records of surface waters of the United States, October 1950 to September 1960, Part 6-B. Missouri River Basin below Sioux City, Iowa: U. S. Geol. Survey, Water Supply Paper 1730, 514 pp., 2 figs., 1 pl., 1964.
10. Compilation of records of surface waters of the United States, October 1950 to September 1960, Part 7. Lower Mississippi River basin: U. S. Geol. Survey, Water Supply Paper 1731, 552 pp., 2 figs., 1 pl., 1964.
11. Floods of August 5-8, in Iowa and Missouri in Summary of floods in the United States during 1959: U. S. Geol. Survey, Water Supply Paper 1750-B, pp. B55-B58, 1 fig., 1 table, 1964.
12. Surface water records of Missouri—1963: U. S. Geol. Survey, Rolla, Missouri, 183 pp., 1 fig., 1964.
13. Surface water records of Missouri—1964: U. S. Geol. Survey, Rolla, Missouri, 178 pp., 1 fig., 1965.
14. Water quality records in Missouri—1964: U. S. Geol. Survey, Rolla, Missouri, 44 pp., 1 fig., 1965.

Weaver, H. Dwight

1. Report on cave onyx mining in Missouri: Natl. Speleo. Soc. News, vol. 17, no. 6, pp. 81-83, June 1959. (Presented at NSS annual convention, Springfield, Missouri, 1959).

2. Onyx mining in Missouri: *Missouri Speleology*, vol. 7, no. 4, pp. 82-87, 3 figs., October 1965.

Webster, David

1. A history of Cherokee Cave: *Missouri Speleology*, vol. 6, no. 2, pp. 54-63, illus., July 1964.
2. Cherokee Cave: *Missouri Speleology*, vol. 6, no. 3, pp. 72-78, 11 figs., 1 pl., July 1964.
3. Cherokee Cave bone deposit: *Missouri Speleology*, vol. 6, no. 3, pp. 79-86, illus., July 1964.

Weigel, W. W.

1. Grouting in southeast Missouri district in *Symposium on grouting: Min. Technology*, vol. 12, no. 5, pp. 20-23, A.I.M.E. Tech. Pub. 2427, 1948.
2. The inside story of Missouri's exploration boom—Part 1: *Eng. Min. Jour.*, vol. 166, no. 11, pp. 77-86, 170, 172, illus., November 1965.
3. The inside story of Missouri's exploration boom—Part 2: *Eng. Min. Jour.*, vol. 166, no. 12, pp. 81-83, 161-162, December 1965.

Weiner, John L. Refer to Gutschick, R. C.; Tubb, J. B., Jr.; and Wanless, Harold R.

Weingert, J. R. Refer to Ethington, R. L.

Weiser, Robert N.

1. Palynology of the Lexington-Mystic coals (Pennsylvanian) Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1960.

Weiss, Ralph B.

1. Some aspects of the cave region of the central Ozark Plateau in Missouri: *Compass*, vol. 31, no. 2, pp. 86-87, January 1954.

Weixelman, Wesley D.

1. Geology of the northeast portion of Des Arc Quadrangle, Iron and Madison Counties, Missouri: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1959.

Weller, J. Marvin

1. Cyclothems and larger sedimentary cycles of the Pennsylvanian: *Jour. Geology*, vol. 66, no. 2, pp. 195-207, 3 figs., March 1958.
2. Authorship of name *Mesolobus striatus*, in *Paleontological notes: Jour. Paleontology*, vol. 34, no. 4, p. 762, July 1960.

Wells, C. E. Refer to Heyl, A. V.

Wells, J. S. Refer also to Anderson, K. H.

1. (and McCracken, Earl). Catalogue of northwest Missouri well logs—1945 to 1958: Missouri Geol. Survey and Water Resources, Misc. Pub., 31 pp., 1958.
2. Corning field and Tarkio field in Missouri in Kansas oil and gas fields, northeastern Kansas: Kansas Geol. Soc., vol. 3, pp. 199-210, illus., 1960.
3. (and McCracken, Earl). Northwest Missouri oil and gas exploratory logs (1945-1963): Missouri Geol. Survey and Water Resources, Inf. Circ. 17, 51 pp., 1 pl., 1 fig., May 1964.

Wells, Patrick H.

1. Bear bones from a Boone County cave: Natl. Speleol. Soc. Bull., vol. 21, pt. 1, pp. 13-14, 3 figs., January 1959.

Wermeyer, Raymond A.

1. Pleistocene deposits of the St. Louis area (Missouri): unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1955.

Werner, Courtney

1. (and Echols, Dorothy J.). Three dimensional graptolites in the Maquoketa Shale (Upper Ordovician) of Missouri: Jour. Paleontology, vol. 32, no. 5, pp. 1026-1029, 3 text-figs., September 1958.

West, Terry R.

1. Vibrational phenomena of loess: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1962.

Wethered, E.

1. On insoluble residues: Geol. Mag., Decade III, vol. 5, p. 139, 1888.

Wetherill, G. W. Refer to Tilton, G. R.

Wheeler, Harry E.

1. (and Murray, Hayden H.). Base-level control patterns in cyclothemic sedimentation: Am. Assoc. of Petroleum Geologists, vol. 41, no. 9, pp. 1985-2011, 7 figs., September 1957.
2. Post-Sauk and pre-Absaroka Paleozoic stratigraphic patterns in North America: Am. Assoc. Petroleum Geologists, vol. 47, no. 9, pp. 1497-1526, 3 figs., August 1963.
3. Ozark pre-Cambrian—Paleozoic relations: Am. Assoc. Petroleum

Geologists Bull., vol. 49, no. 10, pp. 1647-1665, 4 figs., October 1965.

Whipple, Arthur P.

1. A gravity survey of the Babler State Park area, Missouri: unpublished Masters thesis, St. Louis Univ., St. Louis, Missouri, 1959.

White, Donald E.

1. Liquid of inclusions in sulfides from Tri-State (Missouri-Kansas-Oklahoma) is probably connate in origin (abstract): Geol. Soc. America, program 1958 Ann. Mtgs., p. 156, November 1958; Geol. Soc. America Bull., vol. 69, no. 12, pt. 2, p. 1660, December 1958.

White, Edward D. Refer to Ore, H. T.

White, W. Arthur

1. Chemical and spectrochemical analyses of Illinois clay materials: Illinois Geol. Survey, Circ. 282, 55 pp., 1959.

White, William B.

1. (and Stellmack, John A.). Introductory report on the mineralogy of Carroll Cave: Missouri Speleology, vol. 1, no. 3, pp. 3-8, figs. 1-3, July 1959.

Whittington, Harry B.

1. Sixteen Ordovician genotype trilobites: Jour. Paleontology, vol. 24, no. 5, pp. 531-565, pls. 68-75, 9 text-figs., September 1950.

Wilkie, L. C. Refer to Sweet, W. C.

Williams, Frank B.

1. Characterization of mixed-layer mica-montmorillonites: unpublished Doctoral dissertation, Washington Univ., St. Louis, Missouri, 1963.

Williams, George Q.

1. Developments in north Mid-Continent in 1955: Am. Assoc. Petroleum Geologists Bull., vol. 40, no. 6, pp. 1138-1151, 1 fig., June 1956.
2. Developments in north Mid-Continent in 1956: Am. Assoc. Petroleum Geologists Bull., vol. 41, no. 6, p. 1088, June 1957.
3. Developments in north Mid-Continent in 1957: Am. Assoc. Petroleum Geologists Bull., vol. 42, no. 6, pp. 1207-1219, 1 fig., June 1958.

4. Developments in north Mid-Continent in 1958: *Am. Assoc. Petroleum Geologists Bull.*, vol. 43, no. 6, pp. 1208-1220, June 1959.

Williams, James H. Refer also to Snyder, F. G.; and Vineyard, Jerry D.

1. (and Martin, James A.). Guidebook, Soil Conservation Service—Missouri Geological Survey Field Trip, northeastern Missouri: Missouri Geol. Survey and Water Resources, Rolla, Missouri, 26 pp., October 1963.
2. Nonmetallic resources along the Missouri and Mississippi Rivers: *Missouri Mineral Industry News*, vol. 5, no. 4, pp. 46-50, April 1965.

Williams, James S.

1. Paleoeology of the Mississippian of the Upper Mississippi Valley region in *Treatise on marine ecology and paleoeology*, vol. 2: *Geol. Soc. America, Mem.* 67, pp. 279-324, 1957.

Williamson, Allen. Refer to Rue, Edward E.

Willman, Harold B. Refer also to Collinson, S. W.; Kosanke, R. M.; Swann, D. H.; Frye, John C.; and Templeton, J. S.

1. (and Frye, John C.). Problems of Pleistocene geology in the greater St. Louis area: *Geol. Soc. America, Field Trip Guidebook*, St. Louis Mtg. 1958, pp. 9-11, 2 figs., November 1958.

Wills, Bonnie L.

1. (and Bertram, Nancy). *Bibliography of Missouri Precambrian*: Missouri Geol. Survey and Water Resources, Misc. Pub., 15 pp., May 1959.

Wilson, Charles W., Jr.

1. Probable connection of the Nashville and Ozark domes by a complimentary arch: *Jour. Geology*, vol. 47, no. 6, pp. 583-597, 1939.

Wilson, Druid

1. (Keroher, Grace C.; and Hansen, Blanche E.). Index to the geologic names of North America: *U. S. Geol. Survey, Bull.* 1056-B, pp. 407-622, 1959.

Wilson, James L.

1. Geography of olenid trilobite distribution and its influence on

Cambro-Ordovician correlation: Am. Jour. Sci., vol. 255, pp. 321-340, May 1957.

Wilson, Joseph M.

1. Memorial, Malcolm Earl Wilson, Sr.: Am. Assoc. Petroleum Geologists, vol. 44, no. 8, pp. 1436-1437, 1 fig., August 1960.

Wilson, L. R.

1. (and Venkatachala, B. S.). A morphological study and emendation of *Vesicaspora* Schemel, 1951: Oklahoma Geology Notes, Norman, Oklahoma, vol. 23, no. 6, pp. 142-149, 1 fig., 2 pls., June 1962.
2. Palynological assemblage resemblance in the Croweburg coal of Oklahoma: Oklahoma Geology Notes, vol. 24, no. 6, pp. 138-143, 4 tables, June 1964.

Winslow, Marcia R.

1. Upper Mississippian and Pennsylvanian megaspores and other plant microfossils from Illinois: Illinois Geol. Survey, Bull. 86, 135 pp., 16 pls., 9 text-figs., 1959.

Wire, J. C. Refer to Krinitzky, E. L.

Wischeier, Walter H. Refer to Smith, D. D.

Wise, Donald A.

1. Southwestern Missouri Ozarks: White River Region: unpublished Masters thesis, St. Louis Univ., St. Louis, Missouri, 1960.

Wood, Joseph M.

1. The Stanley Cemetery Flora (Early Pennsylvanian) of Greene County, Indiana: Indiana Geol. Survey, Bull. 29, 73 pp., 12 pls., 2 figs., 4 tables, 1963.

Woodard, T. H.

1. (and Heidel, S. G.). Inventory of published and unpublished chemical analyses of surface waters in the continental United States and Puerto Rico, 1961: U. S. Geol. Survey, Water-Supply Paper 1786, 489 pp., 1 fig., 1964.

Woolard, G. P. Refer also to Steinhard, J. S.

1. (and Joesting, H. R.). Bouguer gravity anomaly map of the United States (exclusive of Alaska and Hawaii): Am. Geophys. Union and U. S. Geol. Survey, 2 sheets, scale 1:2,500,000, 1964.

Workman, L. E.

1. (and Gillette, Tracey). Subsurface stratigraphy of the Kinderhook Series in Illinois: Illinois State Geol. Survey, Rept. Inv. 189, 46 pp., 2 pls., 20 figs., 1956.

Wray, John L. Refer to Zeller, E. J.

Wright, Cynthia R. Refer to Wanless, Harold R.

Yen, Luis

1. Paleomagnetic investigations of a gabbroic dike in the St. Francois Mountains, Missouri: unpublished Masters thesis, Washington Univ., St. Louis, Missouri, 1963.

Yochelson, Ellis L. Refer also to Zimmerman, R.; and Mudge, Melville R.

1. (and Bridge, Josiah). The lower Ordovician gastropod *Ceratopea*: U. S. Geol. Survey, Prof. Paper 294-H, pp. 281-304, pls. 35-38, figs. 102-104, 1957.
2. Some lower Ordovician monoplacophoran mollusks from Missouri: Washington Acad. Sci. Jour., vol. 48, no. 1, pp. 8-14, figs. 1-13, January 1958.

Young, Durward D.

1. A magnetometer survey of an anomaly south of Valley Park, Missouri, in St. Louis and Jefferson Counties: unpublished Masters thesis, St. Louis Univ., St. Louis, Missouri, 1956.

Young, Leighton, Refer to Gutschick, R. C.

Young, W. H.

1. (Anderson, R. L.; and Hall, E. M.). Coal—bituminous and lignite in Part II commodity reviews: U. S. Bur. Mines, Minerals Yearbook—1953, vol. 2, pp. 25-163, 1956.
2. (and Anderson, R. L.). Thickness of bituminous coal and lignite seams at all mines and thickness of overburden at strip mines in the United States in 1955: U. S. Bur. Mines, Inf. Circ. 7812, 11 pp., October 1957.

Youngman, E. P.

1. Deposits of titanium-bearing ores: U. S. Bur. Mines, Inf. Circ. 6386, 41 pp., 1930.

Zablocki, Charles J.

1. Measurements of electrical properties of rocks in southeast Mis-

souri in Geological Survey research 1960: U. S. Geol. Survey, Prof. Paper 400-B, pp. B-214-B-216, fig. 94.1, 1960.

Zalusky, Donald W.

1. Holts Summit (Devonian) conodonts from Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, June 1958.

Zartman, R. E.

1. (Brock, Maurice; Heyl, A. V.; and Thomas, H. H.). K-Ar and Rb-Sr ages of some alkalic intrusive rocks from central and eastern United States (abstract): Geol. Soc. America, Program 1965 Ann. Mtgs., pp. 187-188, November 1965.

Zarzavatjian, Papken A.

1. Detection of buried basement highs by airphoto drainage pattern analysis, Reynolds and Wayne Counties, Missouri: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1958.

Zeller, Edward J.

1. Stratigraphic significance of Mississippian endothyroid Foraminifera in Protozoa: Kansas Univ. Paleontological Contr., art. 4, pp. 1-23, pls. 1-6, February 1950.
2. (Wray, John L; and Daniels, Farrington). Factors in age determination of carbonate sediments by thermoluminescence: Am. Assoc. Petroleum Geologists Bull., vol. 41, no. 1, pp. 121-129, 3 figs., January 1957.

Zenfell, W. W.

1. Development of the Jefferson National Expansion Memorial and construction of the Gateway Arch (abstract): Min. Eng., vol. 16, no. 7, p. 128-A, July 1964.

Ziegler, Willie. Refer to Mehl, Maurice G.

Zietz, Isidore. Refer to Henderson, R. G.

Zimmerman, Richard A. Refer also to Amstutz, G. C.

1. Geology of the Annapolis area, Iron County, Missouri: unpublished Masters thesis, Missouri School of Mines and Met., Rolla, Missouri, 1959.
2. (and Yochelson, Ellis L.). The Cambrian gastropod *Cloudia buttsi* in Missouri: Jour. Paleontology, vol. 35, no. 1, pp. 229-230, 3 text-figs., 1961.
3. (and Amstutz, G. C.). Sedimentary features in the Arkansas-

Oklahoma barite district (abstract): Geol. Soc. America, Program 1961 Ann. Mtgs., p. 182A, November 1961.

4. (and Amstutz, G. C.). The polygonal structure at Decaturville, Missouri—New tectonic observations: Neues Jahrb. Mineralogic Monash, nos. 9-11, pp. 288-307, illus., 1965.

Zubovic, Peter. Refer to Stadnichenko, T.

Zumsteg, Donald

1. A comparative study of Pleistocene woodchucks from a cave in Pulaski County, Missouri: Missouri Speleology, vol. 5, nos. 2 and 3, pp. 59-62, 7 tables, April-July 1963.

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- Oil and gas exploratory logs: Wells, J. S., 3.
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- Analyses of tippie and delivered samples of coal—1957: Aresco, 2.
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Mountain: Allen, 1.

Paleomagnetic investigation of Pre-
cambrian igneous rocks: Hays, 1.

Paleomagnetic investigations of Pre-
cambrian rocks: Ku, 1.

Petrology and sedimentation of the
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Petrology of the St. Francois Moun-
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Grand Tower Limestone (Devonian)
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Gravity and magnetic investigation
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Petrography and sedimentation of the
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locality: Short, 1.

Sedimentary petrography and en-
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Additional notes on Cherokee Cave:
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Artesian origin of fissure caves:
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Characterization of mixed-layer mica-montmorillonites: Williams, F. B., 1.

Computing flood elevations for small watersheds: Eschbach, 1.

Conodonts from Mississippian formations of Illinois: Rexroad, 7.

Contribution of subsoil to microseismic interference at Florissant: Hofmann, 1.

Crustal structure of the St. Louis area: Heigold, 1.

Earth waves generated from quarry blasts: Ginzel, 1.

Geology ($S\frac{1}{2}$) of Weldon Spring Quadrangle: Krummel, 1.

Lattice parameters and expansion coefficients of FeS_2 and CoS_2 : Straumanis, 1.

Magnetometer survey of an anomaly south of Valley Park: Young, D. D., 1.

Microfauna from the Chouteau Formation: Brill, 1.

Mineralized ground water, St. Louis and Jefferson Counties: Owens, 1.

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Natural gas storage reservoir: Henderson, G. E., 1.

Petrology of some loess from Missouri: Prevey, 1.

Pleistocene deposits of the St. Louis area: Wermeyer, 1.

Public water supplies: Durfor, 2.

Recent fresh-water ostracodes: Frey, 1.

Relationship between *Diploblastus* and *Platyceras*: Levin, 1.

Stream piracy near Allenton: Hanley, 1.

Vibrational phenomena in loess: West, 1.

SALINE COUNTY

Paleontology and stratigraphy of the Cedar City Formation: Fraunfelder, 1.

Petrology and sedimentation of the Callaway Formation: Sleeman, 1.

SCHUYLER COUNTY

Floods of August 5-8, 1959, in Iowa

and Missouri: Water Resources Division, 11.

SCOTLAND COUNTY

Floods of August 5-8, 1959, in Iowa and Missouri: Water Resources Division, 11.

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The Charleston, Missouri, alluvial fan: Ray, 1.

SHANNON COUNTY

Geology of copper deposits, Eminence region: Evans, L. L., 1.

Missouri spelunkers explore Devils Well: Hawksley, 1.

New Mollusca of the Potosi and Eminence formations (Cambrian): Stinchcomb, 3.

Origin and development of Cave Spring: Vineyard, 5.

SHELBY COUNTY

Stratigraphy, sedimentation and petroleum possibilities of the Middle Ordovician of Missouri: Misra, 1.

STODDARD COUNTY

Aeromagnetic prospecting for bauxite deposits: Jespersen, 1.

A gravity and magnetic survey of southeastern Missouri: Neal, 1.

General geology of the Mississippi Embayment: Cushing, 2.

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Geology of Galena Quadrangle: Robertson, C. E., 1.

Mississippian Foraminifera of the Northview Formation: Conkin, J. E., 2.

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Heavy oil; a billion-barrel prize: Enright, 1.

Mineralogy, petrology and ceramic properties of underclays: Tennesen, 1.

Reconnaissance for uranium in asphalt-bearing rocks in the western United States: Hail, 1.

Stratigraphy, sedimentation and structure of Pennsylvanian rocks: Gentile, 4.

Uranium and other trace elements: Bell, K. G., 1.

WARREN COUNTY

Brachiopods of the Callaway Limestone: Cochran, 1.

Burlington and Keokuk formations: Voss, 1.

Geology of southern half of Warren Quadrangle: Heflin, 1.

Geology (NW¼) of Washington Quadrangle: Martin, J. A., 1.

Petrology and sedimentation of the Callaway Formation: Sleeman, 1.

Sedimentary petrography and environments of the Plattin Group: Naikimbalkar, 1.

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Geology in development and mining, southeast Missouri Lead Belt: Snyder, 1.

Hoists and dumps at Pea Ridge mine: Beal, 1.

New Mollusca of the Potosi and Emence formations (Cambrian): Stinchcomb, 3.

Origin of barite deposits in Missouri: Ligasacchi, A., 2.

Paleomagnetic investigations of Precambrian rocks: Ku, 1.

Petrology and sedimentation of the Lamotte Sandstone: Ojakangas, R. W., 2.

Precambrian geology of Washington County area: French, 1.

Regional gravity survey of parts of Franklin, Crawford, and Washington Counties: Gregson, 1.

WAYNE COUNTY

New Mollusca of the Potosi and Emence formations (Cambrian): Stinchcomb, 3.

Paleomagnetic investigations of Precambrian rocks: Ku, 1.

Petrology of the St. Francois Mountains batholith: Robertson, F., 1.

WEBSTER COUNTY

A new iron meteorite: Read, 1.

Guidebook: Johnson, C. H., 3.

Mississippian Foraminifera of the Northview Formation: Conkin, J. E., 2.

Stratigraphy and structure of the Fordland Quadrangle: Jeffries, 2.

Stratigraphy (NE¼) of Fordland Quadrangle: Taylor, R. O., 1.

WORTH COUNTY

Oil and gas exploratory logs: Wells, J. S., 3.

Review report on Platte River and tributaries: Corps of Engineers, 15.

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Mississippian Foraminifera of the Northview Formation: Conkin, J. E., 2.

ECONOMIC GEOLOGY, MINING, AND METALLURGY

ASPHALT

Asphaltic rocks in western Missouri: Searight, W. V., 3.

Reconnaissance for uranium in asphalt-bearing rocks in the western United States: Hail, 1.

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BARITE

- Barite: Arundale, 1, 2.
- Barite in the United States: Brobst, 1, 2.
- Barite in Washington County: Sackett, 1.
- Barite, little known industry: Sackett, 2.
- Barite mining and production in Missouri: Muilenburg, 3.
- Bibliography and map of barite deposits in United States: Dean, 1.
- Genesis of Krueger zinc deposits and nearby barite deposits: Ligasacchi, A., 1.
- Gravity and resistivity measurements over circular mineralized deposits: Kays, 1.
- Origin of barite deposits in Missouri: Ligasacchi, A., 2.
- Regional structure of the southeast Missouri mineral district: Heyl, 3.

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- Aeromagnetic prospecting for bauxite in the Mississippi Embayment: Jespersen, 1.

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- Asphaltic rocks in western Missouri: Searight, W. V., 3.

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- Calcium: Arundale, 3.

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- New Cape Girardeau mill: Herod, 3.

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- Analyses of Illinois clay: White, W. A., 1.
- Biological homogenization in fossil underclays: Rutten, 1.
- Certain energies of cation exchange of four Missouri fire clays: McBride, 1.
- Changes in Missouri River clays when treated with ocean water: Potts, 1.
- Characterization of mixed-layer mica-montmorillonites: Williams, F. B., 1.
- Clay mineralogy of Mississippi River and major tributaries: Griffin, 1.

Clay minerals as influenced by environments of their formation: Keller, W. D., 1.

Clay minerals in sinkholes west of St. Louis: Allen, 7.

Clays: Gunsallus, 1.

Diagenesis of some Missouri fire clays: Burst, 1.

High alumina kaolinitic clay in the U. S.: Mark, 1.

Lower Pennsylvanian clay resources, Illinois: Parham, 1.

Mineralogy of suspended material in Missouri River: Ortiz, 1.

Mineralogy, petrography and ceramic properties of underclays: Tennesen, 1.

Missouri bloating clays: Planje, 1.

Origin of Pennsylvanian underclay: Huddle, 1.

Pedologic implications in mineralogy of gumbotil: Graf, 1.

Porosity and permeability of diaspore clay: Allen, 2.

Refractory materials and markets in south-central U. S.: Rollman, 1.

Removing impurities from refractory clays: Calhoun, 1.

Seismic investigation of flint clay deposits: Dayley, 1.

Source and deposition of clay minerals in Peorian loess: Beavers, A. H., 1.

Study of mineralogical and other properties of selected raw and fired fire clays: Slaughter, 1.

The Cheltenham clay of Boone County: Patrick, 1.

COAL

Aeromagnetic map of part of the Tri-State district: Keller, F., 1.

Analyses of tippie and delivered samples of coal—1955: Aresco, 1.

Analyses of tippie and delivered samples of coal—1957: Aresco, 2.

Analyses of tippie and delivered samples of coal—1961: Aresco, 3.

Beryllium content of American coals: Stadnichenko, 1.

Bibliography of Bureau of Mines investigations of coal: Carman, 1.

- Bituminous coal and lignite distribution, 1963: Gallaher, 1.
 Bituminous coal and lignite distribution, 1962-1964, Gallaher, 3.
 Bituminous coal and lignite distribution, 1964: Gallaher, 2.
 Coal—bituminous and lignite: Young, W. H., 1.
 Coal in Missouri: Searight, W. V., 12.
 Coal reserves in U. S.: Averitt, 1.
 Coal resources of Iowa: Landis, 2.
 Environmental mapping of the St. David cyclothem, Eastern and Western Interior coal basins: Gednetz, D., 1.
 Fossil microfloral investigations in coal of eastern Kansas: Van Landingham, 1.
 Lead isotope variation with growth zoning in a galena crystal: Cannon, 2.
 Microscopy of Mississippi Valley lead-zinc ores: Douglas, 1.
 Mineral commodities of Putnam County: Gentile, 2.
 Names of Oklahoma coal beds: Branson, 7.
 P & M story: Anonymous, 3.
 Palynology of the Lexington-Mystic coals: Weiser, 1.
 Petrography of American coals: Parks, 1.
 Research possibilities for bituminous coal: U. S. Bureau Mines, 1.
 Status of coal resources studies: Searight, W. V., 1.
 Strippable coal reserves of Illinois: Smith, W. H., 1.
 Thickness of bituminous coal and lignite seams in U. S.: Young, W. H., 2.

COBALT

- Cobalt: Andrews, R. W., 1.
 Cobalt, a materials survey: Bilbrey, 1.
 Recovering cobalt and nickel from sulphide ores: Kershner, 1.
 Regional structure of the southeast Missouri mineral district: Heyl, 3.

COPPER

- Copper: Meyer, H. M., 1.

- Geology of copper deposits, Eminence region: Evans, L. L., 1.
 Inside story of Missouri's exploration boom: Weigel, 2.
 Major Missouri ore discoveries: Hayes, W. C., 5.
 Recovering cobalt and nickel from sulphide ores: Kershner, 1.
 Zinc and copper content of stream sediment in southeast Missouri: Cheng, 1.

GEM STONES

- Gem stones: Thomson, 1.

GENERAL

- Ash Grove Lime installs first shaft kilns of their type in America: Herod, 2.
 Distribution of copper, zinc, and minor metals in southeast Missouri: Davis, J. H., 1.
 First century of research by St. Joseph Lead Company: Casteel, 1.
 Illinois-Missouri mineral resources complex: Risser, 1.
 Inside story of Missouri's exploration boom: Weigel, 2.
 Lightweight aggregate industry: Diamond, 10.
 Mineral facts and problems, 1960 Edition: U. S. Bureau Mines Staff, 1.
 Missouri block plant diversifies production: Herod, 1.
 Natural resources of Missouri: Allen, 5.
 Recent mineral discoveries in Missouri: Hayes, W. C., 16.
 Report on Polaris Mine (Missouri): Moore, S. R., 1.
 Southeast Missouri lead belt: Brown, J. S., 2.
 Statistical summary of metal and nonmetal production, 1953: D'Amico, 1.
 The mineral industry of Missouri—1963: Kuklis, 1.
 Underground gas storage still rising: Kinney, 1.
 Undeveloped industrial rocks and minerals of Missouri: Beveridge, 5.

GERMANIUM

- Germanium: Sargent, 1.

IRON

- Bibliography of iron resources of the world: Luttrell, 1.
- Description of Pilot Knob: Johnson, C. H., 1.
- Economic aspects of direct reduction of iron ore in Illinois: Voskuil, 1.
- Experiments in concentrating iron ore, Pea Ridge deposit: Fine, 1.
- Geology, southwest portion Des Arc Quadrangle: Boudreau, 1.
- Geophysical exploration for iron ores: Leney, 1.
- Gravity and magnetic fields of the Iron Mountain ore body: Beckham, 2.
- Inside story of Missouri's exploration boom: Weigel, 2.
- Iron: Holliday, 1.
- Iron and lead exploration in Missouri: Hayes, W. C., 7.
- Iron in Missouri: Brown, J. S., 1.
- Iron ore: Forbes, J. M., 1.
- Iron ore mining in Missouri: Christiansen, 2.
- Iron ore resources of the United States, 1955: Carr, 1.
- Iron ores of Iron Mountain, Missouri: Ridges, 1.
- Major Missouri ore discoveries: Hayes, W. C., 5.
- Microscopic structure and concentration of the more important iron ores of the United States: Cooke, 1.
- Mining and milling methods and costs, Ozark Ore Company, Missouri: Pettit, 1.
- Missouri iron deposits: Hayes, W. C., 3.
- Mobilization of iron in basic rocks: Desborough, 2.
- Resistivity surveys of Missouri limonite deposits: Meidav, 2.
- Secondary limonite deposits of southern Missouri: Hayes, W. C., 2.
- Sedimentary iron ores of Missouri: Hayes, W. C., 1.
- The Maramec Iron Works, 1826-1876: Norris, 2.

Underground geology at Iron Mountain: Murphy, J. E., 1.

Underground mining of iron ore, Ozark Ore Company: Matson, 1.

Utilization of Missouri iron ores: Deptula, 1.

LEAD

A working hypothesis for southeast Missouri lead deposits: Anonymous, 8.

Development and mining trends in the Tri-State district: Elizondo, 1.

Electrical-resistivity surveys for zinc-lead deposits: Chester, 1.

Exploration for lead in southeast Missouri: Henshaw, 1.

Geology of the Annapolis area: Zimmerman, 1.

Geology, southwest portion Des Arc Quadrangle: Boudreau, 1.

Iron and lead exploration in Missouri: Hayes, W. C., 7.

Isotopic constitution and origin of lead ores: Russell, 1.

Lead: Bishop, 2, 3.

Lead-isotope data, southeast Missouri: Brown, J. S., 3.

Lead isotopes and ore deposition, southeast Missouri: Eckelmann, 2.

Lead isotopes and the pattern of mineralization in southeast Missouri: Eckelmann, 1.

Major Missouri ore discoveries: Hayes, W. C., 5.

Mineral dressing investigations of the recovery of pyromorphite: Frommer, 1.

Mineral paragenesis and trace element distribution, Tri-State district: Hagni, 1.

Nature and lateral variation of host rock limestone in the Tri-State district: Saadallah, 1.

Note on lead mines of Missouri: Luckingham, 1.

Piezometric surface of Grand Falls formation, southwestern Missouri: Nichols, 1.

Regional structure of the southeast Missouri mineral district: Heyl, 3.

Relation of lead and sulphur isotopes

to the origin of Mississippi Valley ores: Kulp, 2.

Sedimentary breccias in lead mines: Snyder, 3.

Structural deformation and ore deposits: Fowler, 2.

LIME

Lime: Bowles, 3.

LIME AND CEMENT

Ash Grove Lime takes another step forward: Herod, 6.

Unique calciner: Levine, 1.

LIMESTONE AND DOLOMITE

Bibliography of high-calcium limestone deposits in the United States: Gazdik, 1.

Geology of the Bowling Green Quadrangle: Laswell, 1.

Geology, southwest portion, Des Arc Quadrangle: Boudreau, 1.

Limestone: Bowles, 2.

Small operation displays ability: Herod, 4.

MAGNESIUM

Magnesium resources of the United States: Davis, R. E., 1.

MANGANESE

Geology of the Annapolis area: Zimmerman, 1.

MINERAL RESOURCES

Mineral resources of Missouri in the Arkansas and White River basins: Bishop, 1.

MINING

Barite in Washington County: Sackett, 1.

Barite, little known industry: Sackett, 2.

Brown iron ore production, southern Missouri: Kline, 1.

Catalog, exploration drilling and mine workings, Tri-State district: Brichta, 1.

Cave onyx mining in Missouri: Weaver, 1, 2.

Development and mining trends in the Tri-State district: Elizondo, 1.

Development of the St. Joe shovel: Murrill, 1.

Exploratory drilling at Taum Sauk project: O'Brien, 1.

Geological tour of Westside-Webber mine: Brockie, 1.

Geology in development and mining, southeast Missouri lead belt: Snyder, 1.

Grouting in southeast Missouri district: Weigel, 1.

Grouting techniques: Reed, J. J., 3.

History of iron mining, southeast Missouri: Barrow, 1.

History of lead mining in southeast Missouri: James, 1.

Hoists and dumps at Pea Ridge mine: Beal, 1.

Iron ore mining in Missouri: Christiansen, 2.

Jackleg drilling in the Tri-State district: Clarke, 2.

Joint exploration in Missouri: Anonymous, 6.

Lead mining, southwest Missouri to 1865: Gibson, 1.

Limestone mine converted to underground storage: Persons, 1.

Major Missouri ore discoveries: Hayes, W. C., 5.

Mechanization at Indian Creek Mine of St. Joseph Lead Company: Jones, E. A., 1.

Metallic cobalt and nickel at Fredricktown: McCormick, 1.

Microscopy applied to mineral dressing: Amstutz, 4.

Mineral exploration in Missouri: Beveridge, 8.

Mineral industries of Missouri in 1953: Netzeband, F. F., 1.

Mineral industries of Missouri in 1954: Netzeband, F. F., 2.

Mineral industries of Missouri in 1955: Netzeband, F. F., 3.

Mineral industry of Missouri: Netzeband, F. F., 4.

Mineral industry of Missouri in 1954: Diamond, 1.

Mineral industry of Missouri in 1955: Diamond, 2.

- Mineral industry of Missouri in 1956: Diamond, 3.
- Mineral industry of Missouri in 1957: Diamond, 4.
- Mineral industry of Missouri in 1958: Diamond, 5.
- Mineral industry of Missouri in 1959: Diamond, 6.
- Mineral industry of Missouri in 1960: Diamond, 7.
- Mineral industry of Missouri in 1961: Diamond, 8.
- Mineral industry of Missouri in 1962: Diamond, 9.
- Mineral industry of Missouri in 1963: Kuklis, 1.
- Mineral industry of Missouri in 1964: Kuklis, 2.
- Mineral output of Missouri in 1962: Anonymous, 7.
- Mining and milling methods, Indian Creek mine: Christiansen, 1.
- Mining boom in southeast Missouri: Beall, 1.
- Mining methods and costs at the Hayden Creek mine of St. Joseph Lead Company: Lane, M. E., 1.
- Missouri iron deposits: Hayes, W. C., 3.
- Missouri iron ore: Anonymous, 5.
- Missouri scores in rich iron ore find: Massie, 1.
- Note on the lead mines of Missouri: Luckingham, 1.
- Onyx mining in Missouri: Weaver, 1, 2.
- P & M story: Anonymous, 3.
- Paleophysiographic premises for prospecting in carbonate rocks: Callahan, 1.
- Pea Ridge iron ore discovery: Beveridge, 4.
- Pillar recovery: Reed, J. J., 2.
- Prestressed, preloaded concrete pillars: Reed, J. J., 4.
- Processing of engineering and geological data in mining: Cummings 1.
- Prospecting with the long-hole drill in the Tri-State zinc-lead district: Netzeband, W. F., 1.
- Refractory materials and markets in south-central U. S.: Rollman, 1.
- Report on the Metates Mining Company (Missouri): Tedrow, 1.
- St. Joseph Lead Company's mine research program: Reed, J. J., 1.
- St. Joe milling advancements, southeast Missouri: Hoffman, 1.
- Sedimentary breccias in lead mines: Snyder, 3.
- Southeast Missouri milling process: Hoffman, 2.
- Stress distribution instrumentation in longwall mining: Scott, J. J., 1.
- Strippable coal reserves of Illinois: Smith, W. H., 1.
- Structural framework, Illinois-Kentucky mining districts: Heyl, 1.
- Tri-State district: Dale, 2.
- Underground geology at Iron Mountain: Murphy, J. E., 1.
- Underground mining of iron ore, Ozark Ore Company: Matson, 1.
- Underground mining progress: Bain, 1.
- Underground mining—the trends in 1956—Tri-State district: Chandler, 1.
- Underground ore loading equipment: Dale, 1.
- Use of jumbo drilling machines in the Tri-State district: Clarke, 1.
- Viburnum project starts production: Knoerr, 1.
- Why St. Joe's Viburnum is today's most important lead mine: Anonymous, 4.
- Working hypothesis for southeast Missouri lead deposits: Anonymous, 8.

NATURAL GAS

- Catalogue of northwest Missouri well logs—1945 to 1958: Wells, J. S., 3.
- Corning field and Tarkio field: Wells, J. S., 2.
- Developments in north midcontinent in 1957: Williams, G. Q., 3.
- Developments in north midcontinent in 1958: Williams, G. Q., 4.
- Developments in north midcontinent in 1959: Martz, 1.
- Developments in north midcontinent in 1960: Martz, 2.

Developments in north midcontinent in 1961: Martz, 3.
 Developments in north midcontinent 1962: Pugh, 1.
 Exploration will help show Pascola's potential: Sargent, 2.
 Heavy crude oil reservoirs in the United States: Dietzman, 1.
 Mineral commodities of Putnam County: Gentile, 2.
 Mineral paragenesis of the Tri-State district: Hagni, 2.
 Natural gas storage reservoir: Henderson, G. E., 1.
 New thinking may unlock Missouri prospects: Anderson, K. H., 1.
 Oil and gas exploratory logs: Wells, J. S., 3.
 Oil and gas fields of the United States: Vliissides, 1.
 Oil and gas in Missouri: Anderson, K. H., 2.
 Oil and gas statistics—1958: Anonymous, 1.
 Oil and gas statistics—1958-59: Anonymous, 2.
 "Strike-shy" basin may lose label: McCaslin, 2.

NICKEL

Bibliography of Nickel: Pratt, 1.
 Recovering cobalt and nickel from sulphide ores: Kreshner, 1.

NONMETALLICS

Economic mineral commodities of the Kansas City area: Gentile, 5.
 Labor requirements hit bottom at River Cement: Bergstrom, 2.
 Nonmetallic resources along the Missouri and Mississippi Rivers: Williams, J. H., 2.

ONYX

Onyx mining in Missouri: Weaver, 2.

ORIGIN OF ORES

Determining origin of ore deposits, Mississippi Valley type: Ohle, 1.
 Diagenetic crystallization in the Cu-Pb-Co-Ni deposit of Fredericktown, Missouri: El Baz, 3.
 Exploration for lead in southeast Missouri: Henshaw, 1.

Galena localization in carbonate rock: Amstutz, 10.
 Genesis of Krueger zinc deposits and nearby barite deposits: Ligasacchi, A., 1.
 Genesis of Mississippi Valley type deposits: Amstutz, 1.
 Geology of the Graniteville Granite: Hansink, 1, 2.
 Gravity and magnetic fields of the Iron Mountain ore body: Beckham, 2.
 Iron sulphide distribution in the Jefferson City formation: Amstutz, 11.
 Lead isotope data, southeast Missouri: Brown, J. S., 3.
 Lead isotopes and ore deposition, southeast Missouri: Eckelmann, 2.
 Mineral paragenesis and trace element distribution: Hagni, 1, 2.
 Mineralized submarine slides in southwest Missouri lead district: Snyder, 2.
 Mobilization of iron in basic rocks: Desborough, 3.
 Oceanic lead isotopes and ore genesis: Brown, J. S., 4.
 Ore genesis—the source bed concept: Knight, C. L., 1.
 Origin of barite deposits in Missouri: Ligasacchi, A., 2.
 Origin of concordant mineral deposits: Amstutz, 8.
 Origin of mineral deposits: Amstutz, 5.
 Remanent magnetization in the interpretation of magnetic anomalies: Beckham, 1.
 Sedimentary breccias in lead mines: Snyder, 4.
 Sedimentary features in Arkansas-Oklahoma barite district: Zimmerman, 3.
 Sedimentary features in sulfide deposits: Amstutz, 7.
 Structural and magnetic characteristics of the Belton anomaly: Chamon, 1.
 Sulfur isotope abundances in sulfide minerals: Kulp, 1.

- Syngeneses and epigenesis in petrography: Amstutz, 6.
 Syngenetic zoning in ore deposits: Amstutz, 2.
 Tabular review of the genesis of Tri-State ores: Hagni, 3.
 Temperatures of mineral formation: Schmidt, 1.

PETROLEUM

- Catalogue of northwest Missouri well logs—1945 to 1958: Wells, J. S., 1.
 Corning field and Tarkio field: Wells, J. S., 2
 Crude oil and refined products pipeline mileage in the U. S. 1956: Coumbe, 1.
 Developments in north midcontinent in 1955: Williams, G. Q., 1.
 Developments in north midcontinent in 1956: Williams, G. Q., 2.
 Developments in north midcontinent in 1957: Williams, G. Q., 3.
 Developments in north midcontinent in 1958: Williams, G. Q., 4.
 Developments in north midcontinent in 1959: Martz, 1.
 Developments in north midcontinent in 1960: Martz, 2.
 Developments in north midcontinent in 1961: Martz, 3.
 Developments in north midcontinent in 1962: Pugh, 1.
 Exploration will help show Pascola's potential: Sargent, 2.
 Exploratory drilling in 1956: Moody, 1.
 Geochemistry, Cherokee Group in Kansas and Oklahoma: Baker, D. R., 1.
 Habitat of oil in the Illinois basin: Swann, 1.
 Heavy crude oil reservoirs in the United States: Dietzman, 1.
 Mineral commodities of Putnam County: Gentile, 2.
 New thinking may unlock Missouri prospects: Anderson, K. H., 1.
 Oil and gas exploratory logs: Wells, J. S., 3.
 Oil and gas fields of the United States: Vlissides, 1.

- Oil and gas in Missouri: Anderson, K. H., 2.
 Oil and gas statistics—1958: Anonymous, 1.
 Oil and gas statistics—1958-59: Anonymous, 2.
 Petroleum refineries including cracking plants in the U. S.: Kirby, 1.
 Stratigraphy, sedimentation, and petroleum possibilities of the Middle Ordovician of Missouri: Misra, 1.
 "Strike-shy" basin may lose label: McCaslin, 2.

PYRITE

- Iron sulphide distribution in the Jefferson City formation: Amstutz, 11.
 Regional structure of the southeast Missouri mineral district: Heyl, 3.

RADIOACTIVE SUBSTANCES

- Bibliography of uraniferous and radioactive bituminous substances: Jones, H. N., 1.

SAND AND GRAVEL

- Clean raw material reserves: Herod, 7.
 Missouri firm records steady growth: Herod, 5.
 Sand and gravel: Otis, 2; Thoenen, 1; and Gentile, 2.
 Sand plant serves Kansas City area: Trauffer, 4.

SILICA

- Bibliography of high-grade silica of the United States and Canada: Jaster, 1.

STONE

- Agstone producer meets specifications: Trauffer, 2.
 Big truck means savings at small quarry: Bergstrom, J. H., 1.
 Galloway Limestone Company: Herod, 8.
 Marble: Bowles, 4.
 Stone: Bowles, 1; and Otis, 1.
 Stone producer overcomes handicaps: Trauffer, 3.

SULFUR

- Sulfur resources and production in Missouri: Netzeband, F. F., 5.

TITANIUM

- Bibliography of titanium deposits of the world: Lawthers, 1.
- Deposits of titanium-bearing ores: Youngman, 1.

TUNGSTEN

- Tungsten in the United States: Lemon, D. M., 1.

UNDERGROUND FACILITIES

- Geologic aspects of underground facilities: Hayes, W. C., 11.
- Natural gas storage reservoir: Henderson, G. E., 1.
- Stockpiles cached in underground shelters: Stearn, 1.

URANIUM

- Asphalt rocks in western Missouri: Searight, W. V., 3.
- Bibliography of sandstone-type uranium deposits in the United States: Melin, 1.
- Bibliography of uranium-bearing marine black shales in the United States: Fix, 1.
- Missouri mine re-opened: Haddad, 1.
- Notes on uranium: Muilenburg, 2.
- Reconnaissance for uranium in asphalt-bearing rocks in the western United States: Hail, 1.
- Reconnaissance in central and southwestern states: Slaughter, A. L., 1.
- Search for uranium in the United States: McKelvey, 1.
- Uranium and other trace elements: Bell, K. G., 1.
- Uranium in coaly carbonaceous rocks: Vine, 1.
- Uranium in Devonian and Mississippian black shales, midcontinent area: Landis, 1.
- Uranium in marine black shales of the United States: Swanson, 1.

ZINC

- Alteration of limestone adjacent to ore deposits, Tri-State district: Hagni, 5.
- Development and mining trends in the Tri-State district: Elizondo, 1.
- Electrical-resistivity survey for zinc-lead deposits: Chester, 1.

- Genesis of Krueger zinc deposits and nearby barite deposits: Ligasacchi, A., 1.
- Magmatic sphalerite in basic rocks: Desborough, 3.
- Mineral paragenesis and trace element distribution, Tri-State district: Hagni, 1.
- Nature and lateral variation of limestone in the Tri-State district: Saadallah, 1.
- Oxidized zinc deposits of the United States: Heyl, 2.
- Piezometric surface of the Grand Falls formation, southwest Missouri: Nichols, 1.
- Regional structure of the southeast Missouri mineral district: Heyl, 3.
- Structural deformation and ore deposits: Fowler, 2.
- Tertiary amine flotation of zinc silicate (Hemimorphite): Dressel, 1.
- Working hypothesis for southeast Missouri lead deposits: Anonymous, 8.
- Wurzite polytypes from Joplin: Evans, H. T., 1.
- Zinc: Bishop, 4, 5.
- Zinc and copper content of stream sediment in southeast Missouri: Cheng, 1.
- Zinc-bearing Knox dolomite, Missouri and Tennessee: Oder, 1.

ENGINEERING GEOLOGY

CONSTRUCTION

- Foundation investigation of Cherokee Cave, St. Louis: Landrum, 1.
- Jefferson National Expansion Memorial and Gateway Arch, St. Louis: Zenfell, 1.

RESERVOIR SITES

- Engineering geology of Stockton and Kaysinger Bluff dam sites, Missouri: Loepp, 1.
- Engineering geology of Taum Sauk pumped storage project: Hayes, W. C., 15.
- Field permeability determination of fine grained soil: Rapp, E. G., 1.

- Little Paddy Creek dam site: Brennan, 1.
 Pomme de Terre Dam: Elser, 1.
 Report on Platte River and tributaries: Corps of Engineers, 15.

SOIL MECHANICS

- Alluvial morphology and engineering soil classification: Glenn, 1.
 Engineering characteristics of residual soils: Roberts, G. D., 1.
 Field permeability determination of fine grained soil: Rapp, E. G., 1.
 Mineral relationships between alluvium and loessial soil, Missouri and Mississippi Rivers: Beavers, A. H., 2.

SOIL STABILIZATION

- Soil stabilization with phosphoric acid: Guinea, 1.

GEOCHEMISTRY

GENERAL

- Geochemical prospecting in Mississippi Valley: Fowler, 1.
 Geochemistry and geophysics in 1956: Holmer, 1.
 Geology of the Graniteville Granite: Hansink, 1, 2.
 Luminescence of the Bonnetterre Dolomite: Davis, J. H., 3.
 Magmatic sphalerite in Missouri basic rocks: Desborough, 3.
 Mobilization of iron in basic rocks: Desborough, 2.
 Oceanic lead isotopes and ore genesis: Brown, J. S., 4.
 Phosphorous in granitic rocks: Vistellius, 1.
 Thermoluminescence of sedimentary dolomites: Siegel, 1.

GEOCHRONOLOGY

- Chronological sequence of some Precambrian rocks of Missouri: Mantei, 1, 2.

IGNEOUS ROCKS

- K_2O/Na_2O , possible index to chronological sequence of Precambrian rocks: Mantei, 1, 2.

ISOTOPE GEOLOGY

- Lead isotope variation in a galena crystal: Cannon, 2.
 Sampling a zoned galena crystal for lead isotope study: Cannon, 1.

PETROLEUM

- Geochemistry, Cherokee Group in Kansas and Oklahoma: Baker, D. R., 1.

RADIOACTIVE MINERALS

- Data on uranium and radium in ground water: Scott, R. C., 1.

SULPHIDES

- Sedimentary features and geochemistry of sulphide facies between Lamotte and Bonnetterre formations: El Baz, 1.

TRACE ELEMENTS

- Content of stream sediment in south-central Missouri: Cheng, 1.
 Lateral distribution of trace elements in galenas from Fredericktown, Missouri: Steuber, 1.

URANIUM

- Geology and geochemistry of uranium in black shales: Swanson, 2.

GEOFYSICS

ELECTRICAL RESISTIVITY

- Applicability of seismic refraction and electrical resistivity to cut classification: Meidav, 4.
 Electrical properties of rocks in southeast Missouri: Zablocki, 1.
 Electrical resistivity survey for ground water: Meidav, 3.
 Electrical resistivity surveys for zinc-lead deposits: Chester, 1.
 Geophysical case history of a commercial gravel deposit: Jacobson, 1.
 Gravity and resistivity measurements over circular mineralized deposits: Kays, 1.
 Location of buried channels in Grundy County by means of electrical resistivity: Meidav, 1.
 Resistivity surveys of Missouri limonite deposits: Meidav, 2.

GENERAL

- Bibliography of graduate theses on geophysics in United States and Canadian institutions: Tarbox, 1.
 Geochemistry and geophysics in 1956: Holmer, 1.
 Geophysical exploration for iron ores: Leney, 1.
 Geophysical investigations in the Tri-State mining district: Hambleton, 2.
 Geophysical study of the Ste. Genevieve fault: Lopez, 1.
 Location of lithologic contacts obscured by mantle: Berry, 1.
 Review of geophysical activity in Kansas: Hambleton, 1.
 Sedimentary iron ores of Missouri: Hayes, W. C., 1.

GEOCHRONOLOGY

- Lead isotope variation with growth zoning in galena: Cannon, 2.
 Mineral ages from Oklahoma and Missouri: Tilton, 1.

GRAVIMETRICS

- A gravity and magnetic survey of southeastern Missouri: Neal, 1.
 Bouguer gravity anomaly map of the United States: Woolard, 1.
 Geophysical investigation in Christian County: Ballantyne, 1.
 Gravity and magnetic fields of the Iron Mountain ore body: Beckham, 2.
 Gravity and magnetic investigation along eastern flank of Ozark uplift: Segar, 1.
 Gravity and magnetic problems, eastern Missouri: Mateker, 1.
 Gravity and resistivity measurements over circular mineralized deposits: Kays, 1.
 Gravity inversions along eastern flank of Ozark uplift: Mateker, 2.
 Gravity survey, Babler State Park area: Whipple, 1.
 Gravity survey of part of St. Clair Quadrangle, Missouri: Ganguli, 1.
 Gravity survey of the North Leadwood mine area: Algermissen, 2.
 Regional gravity survey of north-

east Oklahoma and southeast Kansas: Cook, 1.

Regional gravity survey of parts of Franklin, Crawford and Washington Counties: Gregson, 1.

Regional gravity survey, St. Francois Mountains: Gerlach, 1.

MAGNETICS

- A gravity and magnetic survey of southeastern Missouri: Neal, 1.
 A magnetometer survey near House Springs, Missouri: Knapp, G. A., 1.
 Abnormal sedimentary susceptibilities in eastern Missouri: McEvilly, 1.
 Aeromagnetic anomalies in southeast Missouri: Allingham, 1, 2.
 Aeromagnetic prospecting for bauxite: Jespersen, 1.
 Airborne magnetic profile above 40th parallel, Colorado to Indiana: Jensen, 1.
 Geology of Matson-Defiance area, St. Charles County: Smith, M., 1.
 Geology of the Sand Ridge area: Faber, 1.
 Geology (SE $\frac{1}{4}$) of the Augusta Quadrangle: Danielson, 1.
 Geophysical investigation in Christian County: Ballantyne, 1.
 Gravity and magnetic fields of the Iron Mountain ore body: Beckham, 2.
 Gravity and magnetic investigation along eastern flank of the Ozark uplift: Segar, 1.
 Gravity and magnetic problems, eastern Missouri: Mateker, 1.
 Influence of remanent magnetism on magnetic intensity: Hays, 2.
 Interpretation of aeromagnetic data from southeast Missouri: Bissada, 1.
 Location of underground points: Del Prete, 1.
 Magnetic characteristics of the Belton anomaly: Chamon, 1.
 Magnetic data and petrographic analyses of Precambrian rocks: Frank, 1.
 Magnetic-doublet theory in analysis of total-intensity anomalies: Henderson, R. R., 1.

Magnetic survey of Cap au Gres faulted flexure: Douthit, 1.

Magnetometer survey of an anomaly south of Valley Park: Young, D. D., 1.

Magnetometer survey of magnetic highs near St. Clair, Missouri: Leaf, 1.

Missouri iron deposits: Hayes, W. C., 3.

Paleomagnetic investigations in the St. Francois Mountains: Scharon, 2.

Paleomagnetic investigation of a gabroic dike: Yen, 1.

Paleomagnetic investigation of Precambrian igneous rocks: Hays, 1.

Paleomagnetic investigations of Precambrian rocks: Hsu, 1.

Paleomagnetic investigations of some Precambrian rocks of Missouri: Ku, 1.

Paleomagnetic research in Missouri: Scharon, 4.

Remanent magnetization in the interpretation of magnetic anomalies: Beckham, 1.

Regional gravity survey of parts of Franklin, Crawford, and Washington Counties: Gregson, 1.

Some results of magnetometric surveying in Missouri: Grohskopf, 1.

Structural reconnaissance of the Byrnesville area: Thomas, C. W., 1.

Structural reconnaissance of the High Ridge area: Bethke, 1.

RESISTIVITY

Little Paddy Creek dam site: Brennan, 1.

Resistivity measurements over flint clay deposits: Algermissen, 1.

SEISMOLOGY

A new sink in Laclede County, Missouri: Vineyard, 9.

Applicability of seismic refraction and electrical resistivity to cut classification: Meidav, 4.

Characteristics of explosion-generated waves in limestone at small distances: Conner, 1.

Contribution of subsoil to microseis-

mic interference at Florissant: Hofmann, 1.

Coseismic line spread of Nevada underground nuclear detonation: Norden, 1.

Crustal structure of the St. Louis area: Heigold, 1.

Earthquakes and crustal movement as related to water load: McGinnis, 1.

Earthquakes and structural trends in the central stable region of North America: Heinrich, 1.

Earth waves generated from quarry blasts: Ginzel, 1.

Effects of the Alaskan earthquake in southwestern Missouri: Fellows, 4.

Explosion studies of continental structure: Steinhard, 1.

P_n velocity and other data from recent southeast Missouri earthquakes: Stauder, 1.

Rayleigh type waves in vicinity of small explosions: Kisslinger, 1.

Seismic investigation of flint clay deposits: Dayley, 1.

Seismic studies of the southeast Missouri earthquake, 1963: Goodwin, 1.

The December 1961 earthquakes in Missouri and Kansas: Dellwig, 1.

The Missouri earthquake of October 1965: Kisslinger, 2.

U. S. earthquakes, 1952: Murphy, L. M., 1.

U. S. earthquakes, 1953: Murphy, L. M., 2.

U. S. earthquakes, 1954: Murphy, L. M., 3.

Vibrational phenomena of loess: West, 1.

Wave dispersion in western Missouri: Meek, 1.

HYDROGEOLOGY

SPRINGS

Hydrogeology of reservoir sites: Anderson, J. H., 1.

Origin and development of Cave Spring: Vineyard, 5.

HYDROLOGY

GENERAL

- Available water for ceramic industries: Durum, 1.
- Chemical quality of public water supplies: Durfor, 1.
- Estimated use of water in the United States, 1955: Mackichan, 1.
- Experiment in quantitative analysis of drainage basin characteristics: Ore, 1.
- Interflow in claypan soils: Minshall, 1.
- Public water supplies of the 100 largest cities in the United States: Durfor, 2.
- The Maramec Iron Works, 1826-1876: Norris, 2.
- Use of strip mines as potential water source, Joplin District, Missouri: Harvey, 1.
- Water resources development in Missouri: Corps of Engineers, 1.

GROUND WATER

- Acidizing of water wells in Missouri: Anderson, K. E., 1.
- Annual runoff and productive aquifers in the United States: McGuinness, 2.
- Catalogue of northwest Missouri well logs—1945 to 1958: Wells, J. S., 1.
- Data on uranium and radium in ground water: Scott, R. D., 1.
- Electrical resistivity survey for ground water: Meidav, 3.
- Flora of springs in Missouri: Steyermark, 3.
- Fluoride content of ground water in United States: Fleischér, 1.
- Geology and groundwater hydrology of Gulf Coastal Plain as related to disposal of radioactive wastes: LeGrand, 1.
- Geology of Carroll Cave, Missouri: Helwig, 1.
- Groundwater development in East St. Louis area, Illinois: Schlicht, 1.
- Groundwater geology of Boone County: Forbes, G. E., 1.
- Groundwater geology of East St.

- Louis area, Illinois: Bergstrom, R. E., 2.
- Ground water in alluvium of the lower Mississippi Valley: Krinitzsky, 1.
- Ground water in Missouri: Knight, R. D., 5.
- Groundwater levels in U. S.—1956: LaMoreaux, 1.
- Groundwater reconnaissance, northwestern Missouri: Howe, 2.
- Groundwater resources, Atchison County: Heim, 3.
- Groundwater resources, Holt County: Heim, 2.
- Groundwater resources, Nodaway County: Heim, 1.
- Groundwater, southern half of Franklin County: Piskin, 1.
- Hydrogeology of reservoir sites: Anderson, J. H., 1.
- Mechanism for concentration of brines in subsurface formations: Bredehoeft, 1.
- Mineral commodities of Putnam County: Gentile, 2.
- Mineralized ground water, St. Louis and Jefferson Counties: Owens, 1.
- Nitrate contamination of ground water: Keller, 3.
- Origin and development of Cave Spring: Vineyard, 5.
- Piezometric surface of the Grand Falls formation, southwest Missouri: Nichols, 1.
- Solution phenomena in the Springfield area: Fellows, 1.
- Summary of groundwater resources: McGuinness, 1.
- Synopsis of hydrologic research, 1962: Nolan, 1.
- The 1954 drought and its effect on ground water: Muilenburg, 1.
- Water atlas of the United States: Miller, D. W., 1.

SPRINGS

- Reservoir theory of spring flow: Vineyard, 1.
- Flora of springs in Missouri: Steyermark, 3.

SURFACE WATER

- Annual runoff and productive aq-

- fers in the United States: McGuinness, 2.
- Records of surface waters of United States through 1950: Water Resources Division, 2.
- Report on Platte River and tributaries, Missouri: Corps of Engineers, 15.
- Reservoirs in the United States: Thomas, N. O., 1.
- Rock Creek, Jefferson County: Corps of Engineers, 11, 12.
- Sandy Creek, Jefferson County: Corps of Engineers, 13, 14.
- Small watersheds in Missouri: Harbaugh, T. E., 1.
- Summary of floods in United States, 1952: Water Resources Division, 3.
- Surface water records, 1962: Water Resources Division, 7.
- Surface water records, 1963: Water Resources Division, 12.
- Surface water records, 1964: Water Resources Division, 13.
- Surface water records, Lower Mississippi River basin: Water Resources Division, 6.
- Surface water records, Missouri River basin below Sioux City, Iowa: Water Resources Division, 5.
- Surface water supply of the United States, 1955: Water Resources Division, 1.
- Surface water supply of the United States, 1957, Hudson Bay and upper Mississippi River basins: Water Resources Division, 4.
- Surface water supply of United States, 1957, Lower Mississippi basin: Water Resources Division, 6.
- Chemical quality of Missouri surface water: Taylor, C. T., 1.
- Engineering geology of Stockton and Kaysinger Bluff dams, Missouri: Loepp, 1.
- Factors affecting sheet and rill erosion: Smith, D. D., 1.
- Flood elevations for small watersheds, St. Louis County: Eschbach, 1.
- Floods in Missouri, August 1959: Water Resources Division, 11.
- Floods in southern Missouri, 1956: Hendricks, 1.
- Floods of April 1960 in west-central Missouri: Rostredt, 1.
- Floods of May 1960 in south-central Missouri: Rostredt, 2.
- Floods of June 1964 in east-central Missouri: Petersen, 1.
- Flood peak runoff in selected drainage basins in Missouri: Dalrymple, 1.
- Fluvial sediment of the Mississippi River at St. Louis, Missouri: Jordan, 1.
- Glaize Creek, Jefferson County: Corps of Engineers, 3, 4.
- Index of surface-water records to September, 1955—Missouri River basin: Matthai, 1.
- Index of surface-water records to 1963—upper Mississippi River basin: Eisenhuth, 1.
- Index of surface-water records to 1963, Missouri River basin: Eisenhuth, 2.
- Index of surface-water records to 1963, lower Mississippi River basin: Eisenhuth, 3.
- Joachim Creek, Jefferson County: Corps of Engineers, 5, 6.
- Meander of the Missouri River, progress and consequences: Bengston, 1.
- Mississippi River, Jefferson County: Corps of Engineers, 7, 8.
- Plattin Creek, Jefferson County: Corps of Engineers, 9, 10.
- Pleistocene drainage in northwestern Missouri: Heim, 4.
- Quality of surface waters, 1962: Love, 2.
- Quality of surface waters of the United States, 1955: Love, 1.
- Quality of surface waters of the United States, 1959: Love, 3.
- Water atlas of the United States: Miller, D. W., 1.
- Water quality records in Missouri, 1964: Water Resources Division, 14.
- Water resources and the Mississippi Embayment Project: Cushing, 1.
- Water resources development in Missouri: Corps of Engineers, 1.

Water storage reservoirs: Decker, 1.

MINERALOGY

ACTINOLITE

Actinolite at Iron Mountain: Allen, 4.

ALBITE

Geology of the Graniteville Granite: Hansink, 1, 2.

ANATASE

Petrology of the Warrensburg Sandstone: Doty, 1.

ANDALUSITE

Selected bibliography: Grametbauer, 1.

APATITE

Petrology of the Warrensburg Sandstone: Doty, 1.

ARAGONITE

Hydromagnesite from Pulaski County, Missouri: Carpenter, 1.
Mineralogy of Carroll Cave: White, W. B., 1.
Petrography of selected speleothems: Mills, 1.

AUTUNITE

Notes on uranium: Muilenburg, 2.

AZURITE

Geology of copper deposits, Eminence region: Evans, L. L., 1.

BARITE

Barite: Arundale, 2.
Barite mining and production in Missouri: Muilenburg, 3.
Barite resources of the United States: Brobst, 1.
Barium: Arundale, 1.
Bibliography and map of barite deposits in United States: Dean, 1.
Gravity and resistivity measurements over circular mineralized deposits: Kays, 1.

BERYLLIUM

Beryllium content of American coals: Stadnichenko, 1.

BIOTITE

Geology of the Graniteville Granite: Hansink, 1.

BORNITE

Mineral paragenesis in the Tri-State district: Hagni, 2.

BRAVOITE

Petrology and mineralogy of the Fredericktown deposits: El Baz, 2.

CALCITE

Mineral paragenesis in the Tri-State district: Hagni, 2.
Mineralogy of Carroll Cave: White, W. B., 1.
Petrography of selected speleothems: Mills, 1.
Treasures of the Tri-State: Kennedy, 1.

CARNOTITE

Notes on uranium: Muilenburg, 2.

CAVE ONYX

Onyx mining in Missouri: Weaver, 1, 2.

CHALCOCITE

Geology of copper deposits, Eminence region: Evans, L. L., 1.

CHALCOPYRITE

Geology of copper deposits, Eminence region: Evans, L. L., 1.
Lateral variation of limestone in the Tri-State district, Missouri: Saadallah, 1.
Mineral paragenesis in the Tri-State district: Hagni, 2.
Petrology and mineralogy of the Fredericktown deposits: El Baz, 2.
Treasures of the Tri-State: Kennedy, 1.

CHLORITE

Geology of the Graniteville Granite: Hansink, 1, 2.

CHLORITE-VERMICULITE

Mineralogy of Pennsylvanian underclays in western Missouri: Tennis, 1, 2.

CHRYSOCOLLA

Geology of copper deposits, Eminence region: Evans, L. L., 1.

CLAY

Calcination of Missouri clays in a rotary kiln: Parker, 1.

Characterization of mixed-layer mica-montmorillonites: Williams, F. B., 1.

Clays: Gunsallus, 1.

Clay minerals as influenced by environments of their formation: Keller, W. D., 1.

Clay minerals in sinkholes near St. Louis: Allen, 7.

Mineralogy of suspended material in Missouri River: Ortiz, 1.

Mineralogy of underclays in western Missouri: Tennissen, 1, 2.

Petrology and sedimentation of the Callaway Formation: Sleeman, 1.

Stratigraphy of detrital fills of Carroll Cave: Helwig, 2.

The Cheltenham clay of Boone County: Patrick, 1.

X-ray analysis of some Missouri cave clays: Deike, G. H., 3.

COBALT

Cobalt: Andrews, R. W., 1.

Cobalt, a materials survey: Silbrey, 1.

Metallic cobalt and nickel at Fredericktown: McCormick, 1.

COPPER

Copper: Meyer, H. M., 1.

COVELLITE

Geology of copper deposits, Eminence region: Evans, L. L., 1.

Mineral paragenesis in the Tri-State district: Hagni, 2.

DOLOMITE

Decaturville sulfide breccia of south-central Missouri: Amstutz, 12.

Lateral variation of limestone in the Tri-State district, Missouri: Saadallah, 1.

Mineral paragenesis in the Tri-State district: Hagni, 2.

Treasures of the Tri-State: Kennedy, 1.

DUMORTIERITE

Selected bibliography: Grametbaur, 1.

ENARGITE

Mineral paragenesis in the Tri-State district: Hagni, 2.

EPIDOTE

Geology of the Graniteville Granite: Hansink, 1, 2.

FLUORIDE

Fluoride content of ground water in United States: Fleischer, 1.

FLUORITE

Geology of the Graniteville Granite: Hansink, 1, 2.

GALENA

Decaturville sulfide breccia of south-central Missouri: Amstutz, 12.

Galena localization in algal carbonate rock: Amstutz, 10.

Lateral distribution of trace elements in galenas from Fredericktown, Missouri: Steuber, 1.

Lateral variation of limestone in the Tri-State district, Missouri: Saadallah, 1.

Lead isotope variation with growth zoning: Cannon, 2.

Liquid of inclusions in sulfides from Tri-State: White, D. E., 1.

Mineral paragenesis and trace element distribution: Hagni, 1.

Mineral paragenesis in the Tri-State district: Hagni, 2.

Petrology and mineralogy of the Fredericktown deposits: El Baz, 2.

Sampling a zoned galena crystal for lead isotope study: Cannon, 1.

Sulfur isotope abundances in sulfide minerals: Kulp, 1.

Treasures of the Tri-State: Kennedy, 1.

GARNET

Petrology of the Warrensburg Sandstone: Doty, 1.

GENERAL

Inclusive minerals of Keokuk geodes: Tripp, 1.

- Mineralogy of Maquoketa phosphatic beds, Iowa: Bromberger, 1.
- Mineralogy of Moselle mine No. 10: Lasmanis, 1.
- Minerals, fossils, and geodes in Missouri: Berkholz, 1.
- Paragenesis of minerals in the Einstein vein, Madison County: Stevens, 1.
- GERMANIUM**
- Germanium: Sargent, 1.
- GEOTHITE**
- Sedimentary iron ores of Missouri: Hayes, W. C., 1.
- Unusual crystal groups from Greene County: Hood, 1.
- GLAUCONITE**
- Decaturville sulfide breccia of south-central Missouri: Amstutz, 12.
- Lateral variation of limestone in the Tri-State district, Missouri: Saadallah, 1.
- GREENOCKITE**
- Mineral paragenesis in the Tri-State district: Hagni, 2.
- GUMMITE**
- Notes on uranium: Muilenburg, 2.
- GYPSUM**
- Mineral commodities of Putnam County: Gentile, 2.
- HEMATITE**
- Geology of the Graniteville Granite: Hansink, 1, 2.
- Sedimentary iron ores of Missouri: Hayes, W. C., 1.
- HEMIMORPHITE**
- Mineral paragenesis in the Tri-State district: Hagni, 2.
- Tertiary amine flotation of zinc silicate (hemimorphite): Dressel, 1.
- HORNBLende**
- Ages of intrusive rocks from central United States: Zartman, 1.
- HYDROMAGNESITE**
- Hydromagnesite from Pulaski County, Missouri: Carpenter, 1.
- ILLITE**
- Mineralogy of Pennsylvanian underclays in western Missouri: Tennesen, 1, 2.
- ILVAITE**
- Ilvaite; late magmatic occurrence in gabbro: Desborough, 1.
- IRON**
- Bibliography of iron resources of the world: Luttrell, 1.
- Iron: Holliday, 1.
- Iron ore: Forbes, J. M., 1.
- Iron ores of Iron Mountain, Missouri: Ridges, 1.
- Microscopic structure and concentratability of the more important iron ores of the United States: Cooke, 1.
- JASPEROID**
- Mineral paragenesis in the Tri-State district: Hagni, 2.
- KAOLINITE**
- Mineralogy of Pennsylvanian underclays in western Missouri: Tennesen, 1, 2.
- LEAD**
- Isotopic constituents and origins of the lead ores: Russell, 1.
- Lead: Bishop, 2.
- Lead isotopes and the pattern of mineralization in southeast Missouri: Eckelmann, 1.
- Relation of lead and sulfur isotopes to the origin of Mississippi Valley area: Kulp, 2.
- LIMONITE**
- Sedimentary iron ores of Missouri: Hayes, W. C., 1.
- MAGNESITE**
- Hydromagnesite from Pulaski County, Missouri: Carpenter, 1.
- MAGNESIUM**
- Magnesium resources of the United States: Davis, R. E., 1.
- MAGNETITE**
- Geology of the Graniteville Granite: Hansink, 1, 2.

- Mobilization of iron by alteration of magnetite-ulvospinel: Desborough, 2.
- Sedimentary iron ores of Missouri: Hayes, W. C., 1.
- MALACHITE**
Geology of copper deposits, Eminence region: Evans, L. L., 1.
- MARCASITE**
Decaturville sulfide breccia of south-central Missouri: Amstutz, 12.
Petrology and mineralogy of the Fredericktown deposits: El Baz, 2.
Treasures of the Tri-State: Kennedy, 1.
Unusual crystal groups from Greene County: Hood, 1.
- METABENTONITE**
Metabentonite of the Decorah Formation: Allen, 8.
- META-TORBERNITE**
Notes on uranium: Muilenburg, 2.
- MICROCLINE**
Geology of the Graniteville Granite: Hansink, 1, 2.
- MONTMORILLONITE**
Mineralogy of Pennsylvanian underclays in western Missouri: Tennesen, 1, 2.
- MUSCOVITE**
Geology of the Graniteville Granite: Hansink, 1, 2.
- NICKEL**
Bibliography of nickel: Pratt, 1.
Metallic cobalt and nickel at Fredericktown: McCormick, 1.
- ORTHOCLASE**
Geology of the Graniteville Granite: Hansink, 1, 2.
- PHLOGOPITE**
Ages of intrusive rocks of central United States: Zartman, 1.
- PITCHBLEND**
Notes on uranium: Muilenburg, 2.
- PLAGIOCLASE**
Geology of the Graniteville Granite: Hansink, 1, 2.
- PYRITE**
Decaturville sulfide breccia of south-central Missouri: Amstutz, 12.
Diagenetic origin of pyrite in the Jefferson City formation: Schot, 1.
Iron sulfide distribution in the Jefferson City formation: Amstutz, 11.
Lateral variation of limestone in the Tri-State district, Missouri: Saadallah, 1.
Lattice parameters and expansion coefficients of FeS_2 and CoS_2 : Straumanis, 1.
Mineral paragenesis in the Tri-State district: Hagni, 2.
Mineralogy of Pennsylvanian underclays of western Missouri: Tennesen, 1, 2.
Petrology and mineralogy of the Fredericktown deposits: El Baz, 2.
Treasures of the Tri-State: Kennedy, 1.
Unusual crystal groups from Greene County: Hood, 1.
- PYROMORPHITE**
Mineral-dressing investigations of the recovery of pyromorphite: Frommer, 1.
- PYROPHYLLITE**
Selected bibliography: Grametbauer, 1.
- QUARTZ**
Decaturville sulfide breccia of south-central Missouri: Amstutz, 12.
Geology of the Graniteville Granite: Hansink, 1, 2.
Lateral variation of limestone in the Tri-State district, Missouri: Saadallah, 1.
Mineral paragenesis in the Tri-State district: Hagni, 2.
Mineralogy of Pennsylvanian underclays of western Missouri: Tennesen, 1, 2.
Orthoquartzites in Missouri: Allen, 3.
Treasures of the Tri-State: Kennedy, 1.

RADIOACTIVE MINERALS

Notes on uranium: Muilenburg, 2.

RUTILE

Petrology of the Warrensburg Sandstone: Doty, 1.

SELENIUM

Annotated bibliography: Luttrell, 2.

SILLIMANITE

Selected bibliography: Grametbaur, 1.

SPHALERITE

Decaturville sulfide breccia of south-central Missouri: Amstutz, 12.

Lateral variation of limestone in the Tri-State district, Missouri: Saadallah, 1.

Liquid of inclusions in sulfides from Tri-State: White, D. E., 1.

Magmatic sphalerite in basic rocks: Desborough, 3.

Mineral paragenesis and trace element distribution: Hagni, 1.

Mineral paragenesis in the Tri-State district: Hagni, 2.

Treasures of the Tri-State: Kennedy, 1.

THORIUM

Bibliography of the U. S. Geological Survey reports: Soister, 1.

TITANIUM

Bibliography of titanium deposits of the world: Lawthers, 1.

Deposits of titanium-bearing ores: Youngman, 1.

TOPAZ

Selected bibliography: Grametbaur, 1.

TOURMALINE

Petrology of the Warrensburg Sandstone: Doty, 1.

TUNGSTEN

Tungsten in the United States: Lemon, D. M., 1.

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Sedimentary iron ores of Missouri: Hayes, W. C., 1.

TYUYAMUNITE

Notes on uranium: Muilenburg, 2.

URANINITE

Notes on uranium: Muilenburg, 2.

URANIUM

Asphaltic rocks in western Missouri: Searight, W. V., 3.

Bibliography of sandstone-type uranium deposits in the United States: Melin, 1.

Bibliography of uranium-bearing marine black shales in the United States: Fix, 1.

Bibliography of the U. S. Geological Survey reports: Soister, 1.

Geology and geochemistry of uranium in black shales: Swanson, 2.

Missouri mine re-opened: Haddad, 1.

Notes on uranium: Muilenburg, 2.

Reconnaissance in central and southwestern states: Slaughter, 1.

Search for uranium in the United States: McKelvey, 1.

Uranium in coaly carbonaceous rocks: Vine, 1.

Uranium in marine black shales of the United States: Swanson, 1.

URANOPHANE

Notes on uranium: Muilenburg, 2.

WURTZITE

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Oxidized zinc deposits of the United States: Heyl, 2.

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Geology of the Graniteville Granite: Hansink, 1, 2.

Petrology of the Warrensburg Sandstone: Doty, 1.

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Pennsylvanian and Permian algae: Johnson, J. H., 5.

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- Chovanella*, a Devonian charophyte, in North America: Peck, 1.
Charophyta of North America: Eyer, 1.
Devonian and Lower Mississippian Charophyta: Morales-Frias, 1.
Pennsylvanian, Permian and Triassic charophyta of North America: Peck, 2.

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- Fossil plant locality, Chattanooga formation, northeastern Oklahoma: Huffman, 6.

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Miospore assemblages in the Summit coal: Miller, J. P., 1.
Morphological study and emendation of *Vesicaspora*: Wilson, L. R., 1.
Palynology of Grassy Creek and Saverton shales of Missouri: Gupta, 1.
Palynology of selected coals of north-central Missouri: Mumma, 1.
Palynology of the Lexington-Mystic coals, Missouri: Weiser, 1.
Palynology of the Midway-Wilcox boundary in Arkansas: Jones, E., 1.
Pennsylvanian miospores from a cave deposit in Devonian limestone, Callaway County, Missouri: Upshaw, 1.
Stratigraphy of the Kansas City group: Parizek, 3.
The Stanley Cemetery flora of Indiana: Wood, 1.
Upper Paleozoic floral zones of the U. S.: Read, 1.

PALEOGEOGRAPHY

- Paleogeography of the Warrensburg Sandstone: Doty, 2.

PALEONTOLOGY

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- Algal reefs in early Paleozoic strata, southeast Missouri: Wagner, 1.
Ancestry of coralline algae: Johnson, J. H., 2.
Archaeolithophyllum, Paleozoic coralline algae: Johnson, J. H., 1.
Early Mississippian micropaleontology in the U. S.: Gutschick, 4.
Review of Mississippian algae: Johnson, J. H., 3.
Review of Ordovician algae: Johnson, J. H., 4.

AMPHIBIA

- A late Pleistocene herpetofauna from Missouri: Holman, 1.

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- Early Mississippian micropaleontology in the U. S.: Gutschick, 4.
New Carboniferous serpulid worm from Missouri: Howell, 1.
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Scolecodonts from central Missouri: Sylvester, 1.

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Coral zonation of the Callaway Formation: Hendren, 1.
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Devonian coral genus *Billingsastrea*: Oliver, 1.
Devonian corals from Iowa: Pitrat, 1.
Lower Mississippian corals from New Mexico and Missouri: Bowsher, 1.
Megafauna of the Pawnee Formation: Bridges, 1.
Megafauna of the Sulfur Springs Formation: Dorman, 1.
On the tetracoral *Rotiphyllum radricula* (Rowley) from the Mississippian of Missouri: Easton, 1.
Paleontology and stratigraphy of the Cedar City Formation: Fraunfelter, 1.
Paleontology of Pennsylvanian and

Permian rocks in Kansas: Mudge, 1.

Redescription of *Syringopora multatenuata*: McCutcheon, 1.

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Paleontology and stratigraphy of the Cedar City Formation: Fraunfelter, 1.

Paleontology of Pennsylvanian and Permian rocks in Kansas: Mudge, 1.

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Dentiblastus—a new blastoid from the Burlington: Macurda, 2.

Hydrodynamics of the blastoid genus *Globoblastus*: Macurda, 4.

Mega fauna of the Sulphur Springs Formation: Dorman, 1.

Mississippian blastoid genera *Phaenochisma*, *Phaenoblastus*, and *Conoschisma*: Macurda, 3.

Morphology of *Globoblastus norwoodi*: Beavers, H. H., 2.

New lower Mississippian blastoid from Illinois: Fay, 2.

Observations on blastoid genera: Macurda, 1.

Paleontology and stratigraphy of the Cedar City Formation: Fraunfelter, 1.

Ptychoblastus, a new Mississippian blastoid: Fay, 1.

Relationship between *Diploblastus* and *Platyceras*: Levin, 1.

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Authorship of name *Mesolobus striatus*: Weller, J. M., 2.

Brachiopod fauna, Macy Formation: Dunscombe, 1.

Brachiopoda and Mollusca from the Burgner Formation: Ragan, 1.

Brachiopoda of the Callaway Limestone: Cochran, 1.

Depauperate fauna, Maquoketa formation, Iowa and Illinois: Ojakan-gas, D. R., 1.

Desmoinesian Brachiopoda and Mollusca from southwest Missouri: Hoare, 1, 4.

Fossil record of life in the Ozarks: Stinchcomb, 2.

Mega fauna of the Pawnee Formation: Bridges, 1.

Mega fauna of the Sulphur Springs Formation: Dorman, 1.

Middle Pennsylvanian brachiopods, New Mexico: Gehrig, 1.

Morphologic studies of the brachiopod genus *Composita*: Grinnell, 1.

Morphology of Productoidea: Muir-Wood, 1.

New Pennsylvanian Brachiopoda from southwest Missouri: Hoare, 2, 3.

Paleontology and stratigraphy of the Cedar City Formation: Fraunfelter, 1.

Paleontology of Pennsylvanian and Permian rocks in Kansas: Mudge, 1.

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Stratigraphy and paleontology of the Elvins Formation: Kurtz, 1.

Stratigraphy of the Kansas City Group: Parizek, 3.

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North American Fenestella from Carboniferous of Great Britain and Ireland: Miller, T. G., 1.

Paleontology and stratigraphy of the

- Cedar City Formation: Fraunfelter, 1.
Stratigraphy of the Kansas City Group: Parizek, 3.

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Depauperate fauna, Maquoketa formation, Iowa and Illinois: Ojankas, D. R., 1.
Desmoinesian Brachiopoda and Mollusca from southwest Missouri: Hoare, 1, 4.
Fossil record of life in the Ozarks: Stinchcomb, 2.
Goniatites of the Burlington Limestone: Miller, A. K., 1.
Mississippian cephalopods of the eastern United States: Knapp, W. D., 2.
Mississippian Rockford cephalopod fauna of Indiana: Lineback, 1.
Nautiloids from the Gorman and Honeycut, Texas: Unklesbay, 5.
New Desmoinesian ammonoid from Oklahoma: Furnish, 1.
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Pennsylvanian cephalopods of Oklahoma: Unklesbay, 3.

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- Devonian chitinozoans from Cedar Valley formation, Iowa: Dunn, D. L., 1.
Early Mississippian micropaleontology in the U. S.: Gutschick, 4.
Paleozoic Chitinozoa: Collinson, 2.

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A unique ontogeny in some polygnathid conodonts: Shaffer, 1.
Age and correlation of Chattanooga Shale and Maury Formation: Hass, 1.
Annotated bibliography and index of conodonts: Ellison, 1.
Basal Marmaton conodonts from Missouri: Klausing, 1.
Basal relationships of the Mississippian: Mehl, 2.
Base of Mississippian System in Missouri: Mehl, 1.
Biostratigraphic zonation of Devonian and Mississippian, Mississippi Valley: Collinson, 6.
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Conodonts from the Chappel limestone, Texas: Hass, 2.
Conodonts from the Chester Series in the type area of southwestern Illinois: Rexroad, 1.
Conodonts from Devonian outcrops: Smoot, 1.
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Conodonts from the Edgewood Limestone of Iowa: Davis, R. A., 1.
Conodonts from the Keokuk, Warsaw and Salem formations of Illinois: Rexroad, 7.
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- Conodonts from the Pella Formation, Iowa: Rexroad, 6.
- Conodonts from the St. Louis Formation: Rexroad, 5.
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- Conodonts of the Ordovician Maquoketa formation in Iowa: Glenister, 1.
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- Early upper Devonian conodonts from Iowa: Muller, K. J., 1.
- Eden conodonts, Cincinnati region, Ohio and Kentucky: Sweet, 2.
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- Microfauna of the Bachelor Formation: Schneider, 1.
- Ontogenetic study of some upper Devonian polygnathids: Perry, N. R., 1.
- Silurian conodonts from the Illinois Basin: Liebe, 1.
- Statistical analysis of upper Devonian conodonts: Ellis, J. B., 1.
- Three new conodonts from the Louisiana Limestone, Illinois: Scott, A. J., 2.
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- Depauperate fauna, Maquoketa formation, Iowa and Illinois: Ojankas, D. R., 1.
- Megafauna of the Sulphur Springs Formation: Dorman, 1.

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mation, Iowa and Illinois: Ojankas, D. R., 1.

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Late Desmoinesian crinoids: Strimble, 3.

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Microfauna from the Chouteau formation, St. Louis County: Brill, 1.

Mississippian microcrinoids from Oklahoma and New Mexico: Strimble, 1.

Occurrence of *Galateacrinus allisoni* in Oklahoma: Strimble, 2.

Paleontology and stratigraphy of the Cedar City Formation: Fraunfelter, 1.

Paleontology of Pennsylvanian and Permian rocks in Kansas: Mudge, 1.

Stratigraphy and paleontology of Elvins Formation: Kurtz, V. E., 1.

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Devonian Foraminifera of the Louisiana Limestone of Missouri: Conkin, J. E., 3.

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Mississippian smaller Foraminifera of east-central United States: Conkin, J. E., 1.

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Pennsylvanian geology of the Lincoln fold: Searight, W. V., 9.

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- #### DEVONIAN-MISSISSIPPIAN
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- #### DOUGLAS GROUP
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- #### DOVER MEMBER
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- #### DRYWOOD FORMATION
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Cambro-Ordovician rocks of northeastern Oklahoma and adjacent States: McCracken, M. H., 4.

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LAMOTTE SANDSTONE

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 Cambro-Ordovician rocks of northeastern Oklahoma and adjacent areas: McCracken, M. H., 4.
 Electrical properties of rocks in southeast Missouri: Zablocki, 1.
 Exploration for lead in southeast Missouri: Henshaw, 1.
 Genesis of Krueger zinc deposits and nearby barite deposits: Ligasacchi, A., 1.
 Geology of copper deposits, Eminence region: Evans, L. L., 1.
 Geology, southwest portion Des Arc Quadrangle: Boudreau, 1.
 Grouting techniques: Reed, J. J., 3.
 Petrology and mineralogy of the Fredericktown deposits: El Baz, 2.
 Pre-Everton rocks, northern Arkansas: Caplan, 1.
 Rocks of the Precambrian basement: Adams, 1.
 Sedimentary features and geochemistry of sulfide facies between Lamotte and Bonnetterre formations: El Baz, 1.
 Stratigraphy and petrology of the Lamotte formation: Ojakangas, R. W., 1.

LANE SHALE

Stratigraphy of the Kansas City Group: Parizek, 3.

LA SALLE FORMATION

Morphologic studies of the brachiopod genus *Composita*: Grinnell, 1.

LENAPAH FORMATION

Geology of Tarsney Quadrangle: Kinerney, 1.
 Mineral commodities of Putnam County: Gentile, 2.

LEXINGTON COAL

Alvis and Lexington coals of Missouri: Searight, W. V., 7.

LINN SUBGROUP

Stratigraphy of the Kansas City Group: Parizek, 3.

LITTLE OSAGE MEMBER

Geology of east half of Johnstown and Creighton Quadrangles: Hover, 1.

Geology of the Burtville Quadrangle: Cahill, 1.

Geology of the Centerview Quadrangle: Bowman, 1.

Midcontinent Pennsylvanian Edestidae: Koenig, 12.

Mineral commodities of Putnam County: Gentile, 2.

Miospore assemblages in the Summit coal: Miller, J. P., 1.

Palynology of selected coals of north-central Missouri: Mumma, 1.

Post-Cheltenham, Pennsylvanian stratigraphy, Columbia-Hannibal region: Searight, T. K., 1.

Stratigraphy of lower Marmaton rocks: Jeffries, 1.

Stratigraphy of Pennsylvanian rocks of Bates, Henry and Vernon Counties: Gentile, 4.

LITTLE SALINE FORMATION

Bryozoa and Stromatoporoidea, Devonian, Missouri: Birkhead, 1.

LOUISIANA LIMESTONE

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Attachment loops on infant brachiopods from the Louisiana Limestone: Unklesbay, 1.

Basal relationships of the Mississippian: Mehl, 1, 2.

Conodonts from the Louisiana and McCraney formations: Scott, A. J., 1.

Devonian Foraminifera of the Louisiana Limestone: Conkin, J. E., 3.

Geology of the Bowling Green Quadrangle: Laswell, 1.

Kinderhookian Series; Mississippi Valley: Collinson, 5.

Mississippian microcrinoids from Oklahoma and New Mexico: Strimble, 1.

Mississippian trilobites of the family

Proetidae in the United States: Hessler, 2, 3.

Pentecetrinus, microcrinoid from Louisiana formation: Koenig, 5.

Subsurface stratigraphy of the Kinderhook Series in Illinois: Workman, 1.

LOUTRE FORMATION

Clay mineral relationships in Fire Clay pit No. 6D: Caneer, 1.

Petrology of selected Pennsylvanian rocks: Leone, 1.

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McCRANEY FORMATION

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Holothurian sclerites from Rockford limestone, Indiana: Gutschick, 2.

Kinderhookian Series, Mississippi Valley: Collinson, 5.

Subsurface stratigraphy of the Kinderhook Series in Illinois: Workman, 1.

McNAIRY FORMATION

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Cretaceous-Tertiary clay mineralogy: Pryor, 3.

MACY FORMATION

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Kinderhookian Series, Mississippi Valley: Collinson, 5.

Lower Osagean, Missouri and Illinois: Kissling, 1, 2.

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MAQUOKETA SHALE

Artesian origin of fissure caves: Brod, 2, 3.

Cambrian and Ordovician strata of northeastern Illinois: Bushbach, 1.

Champlainian Series in Illinois: Templeton, 1.

- Coal resources of Iowa: Landis, 2, 3.
 Conodonts of the Ordovician Maquoketa formation in Iowa: Glenister, 1.
 Depauperate fauna, Maquoketa formation, Iowa and Illinois: Ojkan-gas, D. R., 1.
 Eden conodonts, Cincinnati region, Ohio and Kentucky: Sweet, 2.
 Geology of the Bowling Green Quadrangle: Laswell, 1.
 Mineralogy and petrology of basal Maquoketa phosphatic beds, Iowa: Bromberger, 1.
 Ordovician foraminifera from Oklahoma, Missouri, Illinois and Kentucky: Conkin, J. E., 4.
 Structural reconnaissance of the High Ridge area: Bethke, 1.
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MARMATON GROUP

- A new Pennsylvanian coral from Missouri: Fraunfelter, 2.
 Basal Marmaton conodonts from Missouri: Klausung, 1.
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 Geology of the Leeton-Cornelia area: Kinsley, 1.
 Mineral commodities of Putnam County: Gentile, 2.
 Mineral composition and origin of Warrensburg sandstone: Hubert, 1.
 Miopore assemblages in the Summit coal: Miller, J. P., 1.
 Palynology of selected coals of north-central Missouri: Mumma, 1.

- Palynology of the Lexington-Mystic coals: Weiser, 1.
 Pennsylvania (Desmoinesian) of Missouri: Searight, W. V., 5, 6.
 Pennsylvanian geology of the Lincoln fold: Searight, W. V., 9.
 Petrology and paleogeography of the Warrensburg Sandstone, western Missouri: Doty, 1, 2.
 Petrology of selected Pennsylvanian rocks: Leone, 1.
 Post-Cheltenham, Pennsylvanian stratigraphy, Columbia-Hannibal region: Searight, T. K., 1.
 Sampling variability of paleocurrent cross-bedding in the post-Myrick Station channel sandstone: Looft, 1.
 Sedimentary environments of Pennsylvanian cycles: Wanless, 3.
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MASSIE CREEK FORMATION

- Base of Mississippian System in Missouri: Mehl, 1.
 Geology of southern half of Warrenton Quadrangle: Heflin, 1.

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- Age and correlation of Chattanooga Shale and Maury Formation: Hass, 1.
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 Middle Mississippian Series, north-eastern Missouri: Spreng, 1.
 Petrology of the chert in the Boone group: Barney, 1.
 Pleistocene and engineering geology

of the Hannibal-Canton area: Heim, 5.

Ste. Genevieve Formation at type locality: Short, 1.

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MIDDLE CREEK LIMESTONE

MEMBER

Stratigraphy of the Kansas City Group: Parizek, 3.

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Palynology of the Midway-Wilcox boundary in Arkansas: Jones, E., 1.

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Desmoinesian Brachiopoda and Mollusca from southwest Missouri: Hoare, 1.

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Geology of east half of Johnstown and Creighton Quadrangles: Hover, 1.

Geology of the Burtville Quadrangle: Cahill, 1.

Geology of the Clinton North Quadrangle: Carver, 1.

Post-Cheltenham, Pennsylvanian stratigraphy, Columbia-Hannibal region: Searight, T. K., 1.

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Aranaceous Foraminifera from the Chouteau limestone: Canis, 1.

Aranaceous Foraminifera from oncolites: Gutschick, 6.

Arenaceous Foraminifera from Rockford limestone, Indiana: Gutschick, 3.

Artesian origin of fissure caves: Brod, 2, 3.

Asphaltic rocks in western Missouri: Searight, W. V., 3.

Auloblastus, new blastoid from Burlington Limestone: Beavers, H. H., 1.

Base of Mississippian System in Missouri: Mehl, 1.

Biostratigraphic zonation of Devonian and Mississippian, Mississippi Valley: Collinson, 6.

Burlington and Keokuk formations: Voss, 1.

Calcisphaera, Salem limestone, Illinois: Baxter, 1.

Caves of St. Charles County: Missouri Speleological Survey, 33.

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Characteristics of explosion generated waves in limestone at small distances: Conner, 1.

Chattanooga Shale of Tennessee: Conant, 1.

- Classification of Chesterian rocks of Illinois: Swann, 4.
- Conodont biostratigraphic zones and correlations: Collinson, 7.
- Conodonts from Golconda Group, Illinois: Rexroad, 4.
- Conodonts from Kinkaid formation, Illinois: Rexroad, 3.
- Conodonts from the Chappel limestone, Texas: Hass, 2.
- Conodonts from the Chester Series in the type area of southwestern Illinois: Rexroad, 1.
- Conodonts from the Keokuk, Warsaw, and Salem formations of Illinois: Rexroad, 7.
- Conodonts from the Meramecian series of Kansas: Thompson, T. L., 1.
- Conodonts from the Pella Formation, Iowa: Rexroad, 6.
- Conodonts from the St. Louis Formation, Illinois: Rexroad, 5.
- Cutters and pinnacles in Greene County: Fellows, 2, 3.
- Cyclic sedimentation of upper Fayetteville formation: Frouzan, 1.
- Devonian and Lower Mississippian Charophyta: Morales-Frias, 1.
- Devonian and Mississippian conodonts: Collinson, 6.
- Devonian Foraminifera of the Louisiana Limestone: Conkin, J. E., 3.
- Devonian-Mississippian boundary relationships in central Missouri: Haller, C. R., 1.
- Dispersal centers of clastics, upper Mississippi Valley: Potter, 2.
- Early Mississippian formations in Missouri: Moore, R. C., 1.
- Early Mississippian micropaleontology in the U. S.: Gutschick, 4.
- Earth waves generated from quarry blasts: Ginzel, 1.
- Echinoid jaws from the Mississippian and Pennsylvanian: Spreng, 2.
- Fenestrate Bryozoa in the Chouteau Group: Koenig, 2.
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- Galloway Limestone Company: Herod, 8.
- Geologic observations at Ralphord Cave, Boone County: Deike, R. G., 2.
- Geologic reconnaissance of Clark and Lewis Counties: Noble, 1.
- Geodes: Fleener, 1.
- Geodes and concretions from the Warsaw Formation: Hayes, J. B., 1.
- Gennaeocrinus* from the Glen Park Formation of northeastern Missouri: Fraunfelter, 3.
- Geology (NW¼) of Washington Quadrangle: Martin, J. A., 1.
- Geology of the Bowling Green Quadrangle: Laswell, 1.
- Geology of Clifton City Quadrangle: Kebert, 1.
- Geology of Galena Quadrangle: Robertson, C. E., 1.
- Geology of Illinois parts of Cairo, LaCenter, Thebes Quadrangles: Pryor, 4.
- Geology of Matson-Defiance area, St. Charles County: Smith, M., 1.
- Geology of southern half of Warrenton Quadrangle: Heflin, 1.
- Geology of the copper deposits, Eminence region: Evans, L. L., 1.
- Geology of the Filley Quadrangle: Walker, R. A., 1.
- Geology of the Oklahoma Ozark region: Huffman, 8.
- Geology of the Sand Ridge area: Faber, 1.
- Geology of the Stockton Quadrangle: Baker, D. A., 1.
- Geology of the Tri-State district: Netzeband, W. F., 2.
- Geology (SE¼) of the Augusta Quadrangle: Danielson, 1.
- Goniatites of the Burlington Limestone: Miller, A. K., 1.
- Grain size distribution, Chester sandstone: Swann, 2.
- Guidebook, field trip, forty-second ann. mtg. A.A.P.G.: Knight, R. D., 1.
- Guidebook, field trip to northeastern Missouri: Williams, J. H., 1.
- Holothurian sclerites from Rockford limestone, Indiana: Gutschick, 2.
- Hydrodynamics of the Mississippian

- blastoid genus *Globoblastus*: Macurda, 4.
- Inclusive minerals of Keokuk geodes: Tripp, 1.
- Interpretation of aeromagnetic data from southwest Missouri: Bissada, 1.
- Kinderhookian Series, Mississippi Valley: Collinson, 5.
- Lateral variations of limestone in the Tri-State district, Missouri: Saadallah, 1.
- Lincoln fold, northeastern Missouri: Koenig, 1.
- Lower Mississippian arenaceous Foraminifera, Oklahoma, Texas, and Montana: Gutschick, 5.
- Lower Mississippian cephalopods from the Rockford limestone of northern Indiana: Gutschick, 1.
- Lower Mississippian corals from New Mexico and Missouri: Bowsher, 1.
- Lower Mississippian trilobite genus *Proetides*: Hessler, 1.
- Lower Osagean, Missouri and Illinois: Kissling, 1.
- Lower Osagean stratigraphy, east-central Missouri: Kissling, 2.
- Microfauna from the Chouteau formation, St. Louis County: Brill, 1.
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- Middle Mississippian Series, northeastern Missouri: Spreng, 1.
- Mineral paragenesis in the Tri-State district: Hagni, 1, 2, 4.
- Mississippian and Pennsylvanian megaspores, Illinois: Winslow, 1.
- Mississippian bioherms in northeast Oklahoma: Harbaugh, J. W., 1.
- Mississippian bioherms of southwestern Missouri: Troell, 1, 2.
- Mississippian boundaries and subdivisions: Branson, 3.
- Mississippian carbonate deposits of the Ozark region: Moore, R. C., 2.
- Mississippian cephalopods of the eastern United States: Knapp, W. D., 2.
- Mississippian Foraminifera of the Hannibal Formation of northeastern Missouri: Conkin, J. E., 5.
- Mississippian Foraminifera of the Northview Formation: Conkin, J. E., 2.
- Mississippi microcrinoids from Oklahoma and New Mexico: Strimple, 1.
- Mississippian ostracode faunas in southern Illinois: Benson, 1.
- Mississippian, Pennsylvanian, and Permian Ostracoda in the United States: Echols, 2.
- Mississippian rocks of western Illinois: Collinson, 3.
- Mississippian smaller Foraminifera of east-central United States: Conkin, J. E., 1.
- Mississippian stratigraphy and tectonics of the Oklahoma Ozark region: Huffman, 1.
- Mississippian System in Nebraska: Carlson, M. P., 1.
- Mississippian trilobites of the family Proetidae in the U. S.: Hessler, 2, 3.
- Morphologic studies of the brachiopod genus *Composita*: Grinnell, 1.
- Morphology and distribution of the Mississippian blastoid genus *Orphocrinus*: Macurda, 5.
- Morphology of *Globoblastus norwoodi*: Beavers, H. H., 2.
- New American Paleozoic echinoids: Kier, 1.
- New Lower Mississippian blastoid from Illinois: Fay, 2.
- North American *Fenestella* from Carboniferous of Great Britain and Ireland: Miller, T. G., 1.
- Northern midcontinent Missourian fusulinids: Thompson, M. L., 2.
- Observations on blastoid genera: Macurda, 1.
- On the tetracoral *Rotiphyllum radricula* (Rowley) from the Mississippian of Missouri: Easton, 1.
- Paleoecology of the Mississippian, Upper Mississippi Valley region: Williams, J. S., 1.
- Paleozoic stratigraphic patterns in North America: Wheeler, 2.
- Petrography of limestones and cherts from Tennessee: Marcher, 1.
- Petrology of the chert in the Boone Group: Barney, 1.

- Piezometric surface of the Grand Falls formation, Joplin district, Missouri: Nichols, 1.
- Pleistocene and engineering geology of the Hannibal-Canton area; Heim, 5.
- Pre-Atoka rocks of northern Arkansas: Frezon, 1.
- Pre-Desmoinesian rocks, central midcontinent: Huffman, 9.
- Ptychoblastus*, a new Mississippian blastoid: Fay, 1.
- Reconnaissance in central and southwestern states: Slaughter, 1.
- Relationship between *Diploblastus* and *Platyceras*: Levin, 1.
- Ste. Genevieve Formation at type locality: Short, 1.
- Scolecodonts from central Missouri: Sylvester, 1.
- Short Creek oolite in Oklahoma: Speer, 1.
- Solution phenomena in the Springfield area: Fellows, 1.
- Spirifer grimesi* from St. Joe limestone, Oklahoma: Huffman, 5.
- Stratigraphy and paleontology of the Meppen Formation in western Illinois: Pinney, 1.
- Stratigraphic significance of Mississippian endothyroid Foraminifera: Zeller, 1.
- Stratigraphic succession in Missouri: Howe, 3.
- Stratigraphy and structure of the Mineola-Danville area: Sinclair, 1.
- Stratigraphy (NE $\frac{1}{4}$) of Fordland Quadrangle: Taylor, 1.
- Stratigraphy of the Osage Series in southeastern Iowa: Harris, S. E., 1.
- Strip mines as a potential water source, Joplin District, Missouri: Harvey, 1.
- Structural deformation and ore deposits: Fowler, 2.
- Structural reconnaissance of the Byrnesville area: Thomas, C. W., 1.
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- Study of Meramec and lower Chester strata in northeastern Oklahoma, southwestern Missouri and northwestern Arkansas: Harris, D. G., 1.
- Subsurface stratigraphy of the Kinderhook Series in Illinois: Workman, 1.
- Taxonomy and environments of *Deriobia*: Driscoll, 1.
- The Cheltenham clay of Boone County: Patrick, 1.
- The genus *Steganoecrinus*: Brewer, 1.
- The Mississippian blastoid genera *Phaenoscisma*, *Phaenoblastus*, and *Conochisma*: Macurda, 3.
- Two Mississippian species of *Conocardium*: Branson, 2.
- Two new Camerate crinoid genera: Lane, N. G., 1.
- Upper Paleozoic floral zones of the U. S.: Read, C. B., 1.
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- MISSOURIAN SERIES**
- Arenaceous Foraminifera, Bronson Subgroup, Kansas: Quandt, 1.
- Displacement of limestone blocks: Parizek, 2.
- Facies relationships in the Bethany Falls Limestone: Payton, 1.
- Geology of Tarsney Quadrangle: Kinerney, 1.
- Geology of the Centerview Quadrangle: Bowman, 1.
- Interpretation of some Pennsylvanian cyclothems: Tubb, 1.
- Mineral commodities of Putnam County: Gentile, 2.
- Morphologic studies of the brachiopod genus *Composita*: Grinnell, 1.
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- Stratigraphy of the Kansas City Group: Parizek, 3.
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- "MOBERLY SANDSTONE"**
- Petrology and paleogeography of Warrensburg sandstone: Doty, 1, 2.
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- Fossil spoor, Pennsylvanian, Arkansas: Henbest, 1.

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pod genus *Composita*: Grinnell, 1.

MOUND CITY SHALE MEMBER

Stratigraphy of the Kansas City
Group: Parizek, 3.

MULKY FORMATION

Desmoinesian rocks in southeast
Kansas: Howe, 1.

Geology of east half of Johnstown
and Creighton Quadrangles: Hover
1.

Geology of the Burtville Quadrangle:
Cahill, 1.

Geology of the Centerview Quad-
rangle: Bowman, 1.

Geology of the Clinton North Quad-
rangle: Carver, 1.

Geology of the Leeton-Cornelia area:
Kinsley, 1.

Mineral commodities of Putnam
County: Gentile, 2.

Palynology of selected coals, north-
eastern and north-central Missouri:
Von Almen, 1.

Petrology of selected Pennsylvanian
rocks: Leone, 1.

Post-Cheltenham, Pennsylvanian
stratigraphy, Columbia-Hannibal
region: Searight, T. K., 1.

Stratigraphy of Pennsylvanian rocks
of Bates, Henry and Vernon Coun-
ties: Gentile, 4.

MUNCIE CREEK SHALE MEMBER

Stratigraphy of the Kansas City
Group: Parizek, 3.

MYRICK STATION MEMBER

Megafauna of the Pawnee Forma-
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Sampling variability of paleocurrent
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Station channel sandstone: Loeff, 1.

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NACHUSA FORMATION

Champlainian Series in Illinois:
Templeton, 1.

NEW ALBANY FORMATION

Subsurface stratigraphy of the Kin-

derhook Series in Illinois: Work-
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Silurian conodonts from the Illinois
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Base of Mississippian System in
Missouri: Mehl, 1.

Conodonts from basal sandstone,
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NORTH HILL GROUP

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Valley: Collinson, 5.

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NORTHVIEW FORMATION

Devonian-Mississippian boundary
relationships in central Missouri:
Haller, C. R., 1.

Geology of Galena Quadrangle:
Robertson, C. E., 1.

Geology of the Clifton City Quad-
rangle: Kebert, 1.

Geology of the Filley Quadrangle:
Walker, R. A., 1.

Geology of the Stockton Quadrangle:
Baker, D. A., 1.

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Netzeband, W. F., 2.

Lower Mississippian corals from New
Mexico and Missouri: Bowsher, 1.

Mississippian Foraminifera of the
Northview Formation: Conkin,
J. E., 2.

Solution phenomena of the Spring-
field area: Fellows, 1.

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Quadrangle: Taylor, R. O., 1.

NOWATA FORMATION

Mineral commodities of Putnam
County: Gentile, 2.

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Warrensburg Sandstone: Hubert, 1.

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Warrensburg Sandstone: Doty, 1, 2.

NUTWOOD MEMBER

Kinderhookian Series, Mississippi Valley: Collinson, 5.

ORCHARD CREEK FORMATION

Conodonts in type section, Cincinnati Series: Sweet, 1.

Eden conodonts, Cincinnati region, Ohio and Kentucky: Sweet, 2.

Ordovician Foraminifera from Oklahoma, Missouri, Illinois, and Kentucky: Conkin, J. E., 4.

Upper Ordovician stratigraphy in Eastern Interior region: Gutstadt, 1.

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A Dire Wolf skeleton and Powder Mill Creek Cave: Galbreath, 1.

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Artesian origin of fissure caves: Brod, 2, 3.

Brachiopod fauna, Macy formation: Dunscombe, 1.

Cambrian and Ordovician strata of northeastern Illinois: Bushbach, 1.

Cambro-Ordovician rocks of Oklahoma and adjacent areas: McCracken, M. H., 4.

Caves of St. Charles County: Missouri Speleological Survey, 33.

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Cementation of Simpson and St. Peter Sandstones: Heald, 1.

Champlainian Series in Illinois: Templeton, 1.

Comparison of Jefferson City, Cotter, and Powell formations: Rapp, D. W., 1.

Conodont fauna and stratigraphy of the Pecatonica Member of the Platteville Formation: Guldenzopf, 1.

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Conodonts of the Ordovician Ma-

quoketa formation in Iowa: Glenister, 1.

Depauperate fauna, Maquoketa formation, Iowa and Illinois: Ojakangas, D. R., 1.

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Dispersal centers of clastics, upper Mississippi Valley: Potter, 2.

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Fill correlations of limestone caverns, Franklin County, Missouri: Evans, J. H., 1.

Genesis of Krueger zinc deposits and nearby barite deposits: Ligasacchi, A., 1.

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Geology (NW¼) of Washington Quadrangle: Martin, J. A., 1.

Geology of Carroll Cave, Camden County: Helwig, 1.

Geology of Clifton City Quadrangle: Kebert, 1.

Geology of Camden County, Missouri: Helwig, 3.

Geology of copper deposits, Eminence region: Evans, L. L., 1.

Geology of Galena Quadrangle: Robertson, C. E., 1.

Geology of Illinois parts of Cairo, LaCenter, Thebes Quadrangles: Pryor, 4.

Geology of Matson-Defiance area, St. Charles County: Smith, M., 1.

Geology of southern half of Warren-ton Quadrangle: Heflin, 1.

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- Geology of the Oklahoma Ozark region: Huffman, 8.
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- Geology of the Stockton Quadrangle: Baker, D. A., 1.
- Geology (S $\frac{1}{2}$) of Weldon Spring Quadrangle: Krummel, 1.
- Geology (SE $\frac{1}{4}$) of the Augusta Quadrangle: Danielson, 1.
- Groundwater geology of Boone County: Forbes, G. E., 1.
- Groundwater, southern half of Franklin County: Piskin, 1.
- Guidebook, field trip, forty-second ann. mtg. A.A.P.G.: Knight, R. D., 1.
- Guidebook, field trip to northeastern Missouri: Williams, J. H., 1.
- Hydraulic properties of Ordovician rocks at Pittsburg, Kansas: Stramel, 1.
- Interpretation of aeromagnetic data from southwest Missouri: Bissada, 1.
- Lateral variation of limestone in the Tri-State district, Missouri: Saadallah, 1.
- Lincoln fold, northeastern Missouri: Koenig, 9.
- Little Paddy Creek dam site, Missouri: Brennan, 1.
- Lower Ordovician gastropod *Ceratopea*: Yochelson, 1.
- Metabentonite or weathered shale of the Decorah Formation in Missouri: Allen, 8.
- Mineralogy and petrology of basal Maquoketa phosphatic beds, Iowa: Bromberger, 1.
- Nautiloids from the Gorman and Honeycut, Texas: Unklesbay, 5.
- Notes on the Dutchtown formation: Mehl, 5.
- Ordovician cyclic sediments in the upper Mississippi Valley area: Ostrom, 1.
- Ordovician Foraminifera from Oklahoma, Missouri, Illinois, and Kentucky: Conkin, J. E., 4.
- Ordovician stratigraphy in North America: Peterson, J. R., 1.
- Ordovician Stromatoporoidea of North America: Galloway, 1.
- Origin and development of Cave Spring: Vineyard, 1.
- Ostracoda from the Bloomsdale Member of the Plattin Formation of eastern Missouri: Hill, 1.
- Paleozoic stratigraphic patterns in North America: Wheeler, 2.
- Pandaspinapyga*, a new trilobite genus from the Kimmswick: Esker, 1.
- Petrology of Roubidoux Formation: Carver, 2.
- Pre-Atoka rocks of northern Arkansas: Frezon, 1.
- Pre-Desmoinesian rocks, central mid-continent: Huffman, 9.
- Pre-Everton rocks, northern Arkansas: Caplan, 1.
- Reservoir sites in the Meramec basin: Anderson, J. H., 1.
- Review of Ordovician algae: Johnson, J. H., 1.
- Sedimentary petrography and environments of the Plattin Group: Naiknimbalkar, 1.
- Sinkholes west of St. Louis: Allen, 7.
- Sixteen Ordovician genotype trilobites: Whittington, 1.
- Some lower Ordovician monoplacophoran mollusks from Missouri: Yochelson, 1.
- Stratigraphic succession in Missouri: Howe, 3.
- Stratigraphy and structure of the Mineola-Danville area: Sinclair, 1.
- Stratigraphy (NE $\frac{1}{4}$) of Fordland Quadrangle: Taylor, R. O., 1.
- Stratigraphy of the Jefferson City Quadrangle: Duewel, 1.
- Stratigraphy, sedimentation, and petroleum possibilities of the Ordovician in Missouri: Misra, 1.
- Stratigraphy of the zinc-bearing Jefferson City Dolomite: Oder, 1.
- Strip mines as potential water source, Joplin District, Missouri: Harvey, 1.
- Structural reconnaissance of the Byrnesville area: Thomas, C. W., 1.

- Structural reconnaissance of the High Ridge area: Bethke, 1.
 The Crooked Creek disturbance: Kiilsgaard, 1.
 The trilobite *Bumastus billingsi* in the Kimmswick of Missouri: Howell, 1.
 Three dimensional graptolites in the Maquoketa Shale of Missouri: Werner, 1.
 Upper Ordovician stratigraphy in Eastern Interior region: Gutstadt, 1.

OSAGEAN SERIES

- Age of the Rockford cephalopod fauna of Indiana: Lineback, 1.
Auloblastus, a new blastoid from Burlington Limestone: Beavers, H. H., 1.
 Conodonts from the Chappel limestone, Texas: Hass, 2.
 Cutters and pinnacles in Greene County: Fellows, 2, 3.
Dentiblastus, a new blastoid genus from the Burlington: Macurda, 2.
 Early Mississippian micropaleontology in the U. S.: Gutschick, 4.
 Geology of Galena Quadrangle: Robertson, C. E., 1.
 Geology of Matson-Defiance area, St. Charles County: Smith, M., 1.
 Geology of the Filley Quadrangle: Walker, R. A., 1.
 Geology of the Sand Ridge area: Faber, 1.
 Geology of the Stockton Quadrangle: Baker, D. A., 1.
 Geology of the Tri-State district: Netzeband, W. F., 2.
 Goniatites of the Burlington Limestone: Miller, A. K., 1.
 Lower Mississippian corals from New Mexico and Missouri: Bowsher, 1.
 Lower Osagean, Missouri and Illinois: Kissling, 3.
 Lower Osagean stratigraphy, east-central Missouri: Kissling, 2.
 Middle Mississippian Series, north-eastern Missouri: Spreng, 1.
 Mississippian bioherms of south-western Missouri: Troell, 1, 2.

- Mississippian ostracode faunas in southern Illinois: Benson, 1.
 Mississippian trilobites of the family Proetidae in the United States: Hessler, 2, 3.
 Morphologic studies of the brachiopod genus *Composita*: Grinnell, 1.
 Pleistocene and engineering geology of the Hannibal-Canton area: Heim, 5.
 Petrology of the chert in the Boone Group: Barney, 1.
 Stratigraphy (NE $\frac{1}{4}$) of Fordland Quadrangle: Taylor, R. O., 1.
 Stratigraphy of the Osage Series in southeastern Iowa: Harris, S. E., 1.
 The Cheltenham clay of Boone County: Patrick, 1.
 The genus, *Steganoecrinus*: Brewer, 1.
 The Mississippian blastoid genera *Phaenochisma*, *Phaenoblastus*, and *Conochisma*: Macurda, 3.

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- Silurian Foraminifera of the Mississippi basin: Dunn, P. H., 1.

OWL CREEK FORMATION

- Cretaceous sedimentation, upper Mississippi Embayment: Pryor, 1, 2.

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- Aeromagnetic prospecting for bauxite: Jespersen, 1.
 Cretaceous, Paleocene, and lower Eocene geologic history of northern Mississippi Embayment: Stearns, 1.
 Cretaceous-Tertiary clay mineralogy: Pryor, 3.
 General geology of the Mississippi Embayment: Cushing, 2.
 Stratigraphic names in Midway and Wilcox Groups: Fisher, W. L., 1.

PAOLA LIMESTONE MEMBER

- Stratigraphy of the Kansas City Group: Parizek, 3.

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- Conodonts of the "Passo Beds", Missouri: Johnson, C. M., 1.

PAWNEE FORMATION

- Geology of the Centerview Quadrangle: Bowman, 1.
- Geology of the Clinton North Quadrangle: Carver, 1.
- Geology of the Leeton-Cornelia area: Kinsley, 1.
- Megafauna of the Pawnee Formation: Bridges, 1.
- Mineral commodities of Putnam County: Gentile, 2.
- Paleoecology of the Pawnee Formation of Missouri: Thomas, E. R., 1.
- Post-Cheltenham Pennsylvanian stratigraphy Columbia-Hannibal region: Searight, T. K., 1.
- Sampling variability of paleocurrent cross bedding in the post-Myrick Station channel sandstone: Loeff, 1.
- Sedimentary environments of Pennsylvanian cycles: Wanless, 3.
- Stratigraphy of lower Marmaton rocks: Jeffries, 1.
- Stratigraphy of Pennsylvanian rocks of Bates, Henry and Vernon Counties: Gentile, 4.

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- Champlainian Series in Illinois: Templeton, 1.
- The conodont fauna and stratigraphy of the Pecatonica Member of the Platteville Formation: Guldenzopf, 1.

PEDEE GROUP

- Sandstones, Douglas and Pedee Groups, northeastern Kansas: Sanders, 1.

PELLA FORMATION

- Conodonts from the Pella Formation: Rexroad, 6.

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- A new Pennsylvanian coral from Missouri: Fraunfelter, 1.
- Age of the Cheltenham Formation: Searight, W. V., 10.
- Alvis and Lexington coals of Missouri: Searight, W. V., 7.
- Archaeolithophyllum*, Paleozoic coralline algae: Johnson, J. H., 1.

- Arenaceous Foraminifera, Bronson subgroup, Kansas: Quandt, 1.
- Arenaceous Foraminifera of the Shawnee group, Kansas: Schroeder, 1.
- Asphaltic rocks in western Missouri: Searight, W. V., 3.
- Atoka formations, northeastern Oklahoma: Blythe, 1.
- Basal Marmaton conodonts from Missouri: Klausing, 1.
- Base-level control patterns in cyclothemic sedimentation: Wheeler, 1.
- Brachiopoda and Mollusca from the Burgner Formation: Ragan, 1.
- Burgner Formation, pre-Desmoinesian Pennsylvanian deposit in southwestern Missouri: Searight, W. V., 4.
- Cephalopods from the Burgner Formation in Missouri: Unklesbay, 2.
- Certain energies of cation exchange of four Missouri fire clays: McBride, 1.
- Changes in Kansas stratigraphic nomenclature: O'Connor, 1.
- Charophyta of North America: Eyer, 1.
- Classification of Pennsylvanian strata of Illinois: Kosanke, 1.
- Clay mineral relationships in Fire Clay Pit No. 6D: Caneer, 1.
- Clay minerals as influenced by environments of their formation: Keller, 1.
- Coal resources of Iowa: Landis, 2, 3.
- Correlation of Pennsylvanian limestones by thermoluminescence: Bergstrom, R. E., 1.
- Conditions of deposition of Pennsylvanian coals: Wanless, 4.
- Conodonts of the Lake Neosho shale of Iowa, Missouri, and Kansas: Johansson, M. V., 1.
- Conostichus*: Branson, 4.
- Crinoid fauna from the Burgner Formation: Knapp, W. D., 1.
- Cyclic sedimentation and paleoecology of the Altamont Formation of Iowa: Schenk, 1.
- Cyclic sedimentation represented by Pennsylvanian and Permian rocks

- of northern midcontinent: Moore, R. C., 3.
- Cyclothems and larger sedimentary cycles of the Pennsylvanian: Weller, 1.
- Dating of illite polytypes: Bailey, 1.
- Depositional environments of cyclothems: Drlopp, 1.
- Desmoinesian Brachiopoda and Mollusca, southwest Missouri: Hoare, 1.
- Desmoinesian fusulinids of Missouri: Bebout, 1, 2.
- Desmoinesian rocks in southeast Kansas: Howe, 1.
- Desmoinesian rocks in the Montrose Quadrangle, Henry County: Henderson, L. B., 1.
- Dispersal centers of clastics, upper Mississippi Valley: Potter, 2.
- Displacement of limestone blocks: Parizek, 2.
- Diversity of rock types of the Higginsville Limestone, central Missouri: Loeff, 2.
- Echinoid jaws from the Mississippian and Pennsylvanian: Spreng, 2.
- Environmental mapping of the St. David cyclothem, Eastern and Western Interior coal basins: Gednetz, 1.
- Facies relationships in the Bethany Falls Limestone: Payton, 1.
- Fossil flora of the Drywood Formation of southwestern Missouri: Basson, 1.
- Fossil microfloral investigations in coals of eastern Kansas: Van Landingham, 1.
- Fossil spoor, Pennsylvanian, Arkansas: Henbest, 1.
- Fusulinids of the Desmoinesian-Missourian contact: Thompson, M. L., 1.
- Geochemistry, Cherokee Group in Kansas and Oklahoma: Baker, D. R., 1.
- Geologic cross section from western Missouri to western Kansas: Kellett, 1.
- Geologic reconnaissance of Clark and Lewis Counties: Noble, 1.
- Geologic study and mapping of Pennsylvanian rocks in western Missouri: Smart, 1.
- Geology (NW¼) of Washington Quadrangle: Martin, J. A., 1.
- Geology of Cabaniss-Arpekar area, Oklahoma: Govett, 1.
- Geology of east half of Johnstown and Creighton Quadrangles: Hover, 1.
- Geology of northwest portion of Lesterville Quadrangle: Buder, 1.
- Geology of southern half of Warrenton Quadrangle: Heflin, 1.
- Geology of Tarsney Quadrangle: Kinerney, 1.
- Geology of the Bowling Green Quadrangle: Laswell, 1.
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- Geology of the Centerview Quadrangle: Bowman, 1.
- Geology of the Clinton North Quadrangle: Carver, 1.
- Geology of the Filley Quadrangle: Walker, R. A., 1.
- Geology of the Kansas City Group at Kansas City: Gentile, 5.
- Geology of the Leeton-Cornelia area: Kinsley, 1.
- Geology of the Oklahoma Ozark region: Huffman, 8.
- Geology of the Pleasant Hill Quadrangle, Missouri: Lohrengel, 1.
- Geology of the Stockton Quadrangle: Baker, D. A., 1.
- Geology of the Tri-State district: Netzeband, W. F., 2.
- Ground water, southern half of Franklin County: Piskin, 1.
- Guidebook, field trip to northeastern Missouri: Williams, J. H., 1.
- Influence of structure on sedimentation during the Pennsylvanian Period, western Missouri: Gentile, 3.
- Interpretation of aeromagnetic data from southwest Missouri: Bissada, 1.
- Interpretation of some Pennsylvanian cycles: Wanless, 3.
- Late Desmoinesian crinoids: Strimple, 3.
- Lateral variation of limestone in the

- Tri-State district, Missouri: Saadallah, 1.
- Lincoln fold, northeastern Missouri: Koenig, 9.
- Lower Pennsylvanian clay resources, Illinois: Parham, 1.
- Marker beds, lower Desmoinesian, northeastern Oklahoma: Branson, 1.
- Megafauna of the Pawnee Formation: Bridges, 1.
- Midcontinent Pennsylvanian Edestidae: Koenig, 12.
- Middle Pennsylvanian brachiopods, New Mexico: Gehrig, 1.
- Mineral commodities of Putnam County: Gentile, 2.
- Mineral commodities of the Kansas City area: Gentile, 5.
- Mineral composition and origin of Warrensburg Sandstone: Hubert, 1.
- Mineral paragenesis in the Tri-State district: Hagni, 2, 4.
- Mineralogy and petrology of Lower Cabaniss underclays in western Missouri: Tennissen, 2.
- Miospore assemblages in the Summit coal: Miller, J. P., 1.
- Mississippian and Pennsylvanian megaspores, Illinois: Winslow, 1.
- Mississippian, Pennsylvanian, and Permian Ostracoda in United States: Echols, 2.
- Morphologic studies of the brachiopod genus *Composita*: Grinnell, 1.
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- Names of Oklahoma coal beds: Branson, 6.
- New Desmoinesian ammonoid from Oklahoma: Furnish, 1.
- New Pennsylvanian Brachiopoda from southwest Missouri: Hoare, 2.
- New records of the scyphomedusan *Conostichus*: Branson, 5.
- Northern midcontinent Missouri fusulinids: Thompson, M. L., 2.
- Occurrence of *Galateacrinus allisoni* in Oklahoma: Strimple, 2.
- Origin of Pennsylvanian underclay: Huddle, 1.
- Origin of some late Pennsylvanian coals in eastern Kansas: Jewett, 1.
- Paleoecology of the Pawnee Formation in Missouri: Thomas, E. R., 1.
- Paleoecology of the Worland Limestone: Johansson, F. C., 1.
- Paleozoic stratigraphic patterns in North America: Wheeler, 2.
- Palynological assemblage resemblance in the Croweburg coal: Wilson, L. R., 2.
- Palynological correlation of Bevier and Wheeler coals: Habib, 1.
- Palynological correlation of upper Cherokee coals: Hornbaker, 1.
- Palynology of selected coals, northeastern and north-central Missouri: Von Almen, 1.
- Palynology of the Bevier coal of Missouri: Jones, D. H., 1.
- Palynology of the Lexington-Mystic coals: Weiser, 1.
- Palynology of the Rowe coal, Oklahoma: Davis, P. N., 1.
- Palynology, Tebo coal of Oklahoma: Ruffin, 1.
- Pennsylvanian and Permian algae: Johnson, J. H., 5.
- Pennsylvanian Brachiopoda, southwest Missouri: Hoare, 2, 3.
- Pennsylvanian cephalopods of Oklahoma: Unklesbay, 3.
- Pennsylvanian (Desmoinesian) of Missouri: Searight, W. V., 5, 6.
- Pennsylvanian environmental studies in the Illinois basin and northern midcontinent: Wanless, 5.
- Pennsylvanian geology of the Lincoln fold: Searight, W. V., 9.
- Pennsylvanian invertebrates of the Mazon Creek area, Illinois: Richardson, 1.
- Pennsylvanian miospores from a cave deposit in Devonian limestone, Callaway County, Missouri: Upshaw, 1.
- Pennsylvanian, Permian, and Triassic charophyta of North America: Peck, 2.
- Pennsylvanian rocks, Eastern Interior basin: Wanless, 2.
- Pennsylvanian sandstones of the Eastern Interior basin: Siever, 1.

- Petrography and environment of Tiawah and Seville limestones: Carini, 1.
- Petrology and paleogeography of the Warrensburg Sandstone: Doty, 1, 2.
- Petrology of selected Pennsylvanian rocks: Leone, 1.
- Petrology of the Krebs Subgroup, western Missouri: Hayes, M. O., 1, 2.
- Petrology of underclays: Schultz, 1.
- Post-Cheltenham, Desmoinesian sedimentation, Columbia-Hannibal region: Searight, T. K., 1, 2.
- Pre-Desmoinesian rocks, central mid-continent: Huffman, 9.
- Pre-Marmaton Pennsylvanian deposits, Forest City basin: Searight, W. V., 8.
- Relations between Pennsylvanian rocks of the Eastern Interior and northern midcontinent coal basins: Wanless, 1.
- Sampling variability of paleocurrent cross bedding in the post-Myrick Station channel sandstone: Looft, 1.
- Sandstone, Douglas and Pedee Groups, northeastern Kansas: Sanders, 1.
- Sedimentary environments of Pennsylvanian cycles: Wanless, 3.
- Six sections of the Deer Creek Limestone in Nebraska, Missouri and Kansas: Scafe, 1.
- Spore analysis of the "Alvis" coal of western Missouri: Todd, 1.
- Stratigraphic pattern in pre-Marmaton Desmoinesian cycles: Searight, W. V., 2.
- Stratigraphic record of sedimentation on Atlantic Coast, New Jersey: Fischer, 1.
- Stratigraphic significance of Mississippian endothyroid Foraminifera: Zeller, 1.
- Stratigraphic succession in Missouri: Howe, 3.
- Stratigraphy and paleontology of Pennsylvanian and Permian rocks in Kansas: Mudge, 1.
- Stratigraphy and structure of the Mineola-Danville area: Sinclair, 1.
- Stratigraphy (NE $\frac{1}{4}$) of Fordland Quadrangle: Taylor, R. O., 1.
- Stratigraphy of Pennsylvanian rocks of Bates, Henry and Vernon Counties: Gentile, 4.
- Stratigraphy of the Kansas City Group: Parizek, 3.
- Stratigraphy of the lower Marmaton rocks: Jeffries, 1.
- Stratigraphy of the Pleasanton Group, Kansas: Hatcher, 1.
- Strip mines as potential water source, Joplin District, Missouri: Harvey, 1.
- Strippable coal reserves of Illinois: Smith, W. H., 1.
- Suppression or partial suppression of cyclic sequences: Searight, W. V., 1.
- Sources of basal Pennsylvanian sediments in the Eastern Interior basin: Potter, 1.
- The Butler channel-fill deposit, Bates County, Missouri: Gentile, 1.
- The Cheltenham clay of Boone County: Patrick, 1.
- The Chonetid brachiopod *Mesolobus* and some of its species: King, 1.
- The Oread megacyclothem in the Forest City basin: Braden, 1.
- The Pennsylvanian Graydon Formation in Callaway County, Missouri: Murphy, D. L., 1.
- The Stanley Cemetery flora, Indiana: Wood, 1.
- Upper Paleozoic floral zones of the U. S.: Read, C. B., 1.
- Upper Paleozoic of northern Arkansas: Garner, 1.
- Uranium in rocks of Pennsylvanian age: Hyden, 1.

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- Changes in Kansas stratigraphic nomenclature: O'Conner, 1.
- Mississippian, Pennsylvanian, and Permian Ostracoda in U. S.: Echols, 2.
- Stratigraphy and paleontology of Pennsylvanian and Permian rocks of Kansas: Mudge, 1.
- Stratigraphic succession in Missouri: Howe, 3.

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Ostracoda from the Bloomsdale Member of the Plattin Formation of eastern Missouri: Hill, 1.

Sedimentary petrography and environments of the Plattin Group: Naiknimbalkar, 1.

Stratigraphy and structure of the Mineola-Danville area: Sinclair, 1.

Structural reconnaissance of the Byrnesville area: Thomas, C. W., 1.

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- Development of Wisconsinan classification in Illinois: Frye, 1.
- Evolution of level interfluvial divides of Kansas till plain, Iowa and Missouri: Shrader, 2.
- Gastropods of the loess of southern Boone County: Hatcher, R. A., 1.
- Geology of Carroll Cave, Missouri: Helwig, 1, 3.
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- Groundwater geology of Boone County: Forbes, G. E., 1.
- Illinoian glaciation in Illinois: Leighton, 2.
- Late Pleistocene loesses of midwestern United States: Frye, 2.
- Location of buried channels in Grundy County by means of electrical resistivity: Meidav, 1.
- Microfossils in Wisconsinan loess and fill: Jones, R. L., 1.
- Mineral commodities of Putnam County: Gentile, 2.
- Missouri's ice age animals: Mehl, 4.
- Multiple early Pleistocene glacial stades, northeastern Kansas: Dort, 1.
- New concept of ice-age history: Lougee, 1.
- New type section for Loveland loess in Iowa: Daniels, 1.
- Origin and sources of loess in the central Great Plains: Lugin, 1.
- Pebble lithology of Nebraskan and Kansan tills, north-central Missouri: Schmaltz, 1, 3.
- Pedologic implications in mineralogy of gumbotil: Graf, 1.
- Petrology of some loess from Missouri and Massachusetts: Prevey, 1.
- Pleistocene and engineering geology of the Hannibal-Canton area: Heim, 5.
- Pleistocene deposits in the vicinity of Hannibal, Missouri: Heim, 7.
- Pleistocene deposits along Mississippi valley in central-western Illinois: Horberg, 1.
- Pleistocene deposits of the St. Louis area: Wermeyer, 1.
- Pleistocene drainage and depositional history, northwestern Missouri: Heim, 4.
- Pleistocene geology in a part of the Kansas City area: O'Connor, 2.
- Pleistocene geology of Clark County: Stone, 1.
- Pleistocene geology of the Monroe City-Center area: Goodfield, 1.
- Pleistocene geology of Platte County, Missouri: Davis, S. N., 1.
- Pleistocene woodchuck from a cave in Pulaski County: Zumsteg, 1.
- Preliminary report on Pleistocene mammals from Perry County caves: Oesch, 1.
- Preliminary study of the Pleistocene vertebrate fauna from Bat Cave, Missouri: Reynolds, J., 1.
- Problems of Pleistocene geology in the greater St. Louis area: Willman, 1.
- Revision of the classification of the Pleistocene deposits of Nebraska: Reeds, E. C., 1.
- Some Pleistocene land snail records from Missouri: Hubricht, 1.
- Stone lines, Kansas drift border, Kansas and Missouri: Parizek, 1.
- Stratigraphy of detrital fills of Carroll Cave: Helwig, 2.
- Subsurface mapping of glacial drift, southern Iowa: Cameron, 1.
- The Dire Wolf in Missouri: Hawksley, 2.
- The raccoon (*Procyon*) in North America: Arata, 1.
- Vegetational history of the Ozark forest: Steyermark, 1.
- Vertebrate remains in Nebraskan till, north-central Missouri: Schmaltz, 2.
- Wisconsin climate and life zones in North America: Dillon, 1.

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- Aeromagnetic prospecting for bauxite: Jespersen, 1.

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 Cambrian gastropod *Cloudi buttsi*: Zimmerman, 2.
 Cambrian Monoplacophora from the Ozark uplift of Missouri: Stinchcomb, 1.
 Cambro-Ordovician rocks of northeastern Oklahoma and adjacent areas: McCracken, M. H., 1.
 Genesis of Krueger zinc deposits and nearby barite deposits: Ligasacchi, A., 1.
 Geology of northwestern portion of Lesterville Quadrangle: Buder, 1.
 Geology of copper deposits, Eminence region: Evans, L. L., 1.
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 Pre-Everton rocks, northern Arkansas: Caplan, 1.
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 Aeromagnetic anomalies, southeast Missouri: Allingham, 1, 2.
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 Age of Precambrian: Allen, 6.
 Basalt from a deep well, Indiana: Greenberg, 1.
 Bibliography of Missouri Precambrian: Wills, 1.
 Cap au Gres fault: Cole, 1.
 Chemical analyses, Precambrian rocks: Hayes, W. C., 4.
 Chronological sequence of some Precambrian rocks of Missouri: Man-
 tei, 1, 2.
 Description of Pilot Knob: Johnson, C. E., 1.
 Distribution and composition of the Slabtown Granite, southeast Missouri: Lemmon, R. D., 2.
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WAUBAUNSEE GROUP

Coal resources of Iowa: Landis, 2, 3.
Stratigraphy and paleontology of the
Pennsylvanian and Permian rocks
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Stratigraphy of the Kansas City
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WEIR FORMATION

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Hoare, 1.

Desmoinesian rocks in southeast
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Geology of east half of Johnstown
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Geology of the Burtville Quadrangle:
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Geology of the Clinton North Quad-
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WILCOX GROUP

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ite: Jespersen, 1.

Palynology of the Midway-Wilcox
boundary in Arkansas: Jones, E., 1.
Stratigraphic names in Midway and
Wilcox Groups: Fisher, 1.

WINTERSET LIMESTONE MEMBER

Echinoid jaws from the Mississippian
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Mineral commodities of the Kansas
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Stratigraphy of the Kansas City
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WISCONSIN STAGE

Development of Wisconsinan classi-
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Microfossils in Wisconsinan loess and fill: Jones, R. L., 1.

WORLAND LIMESTONE

Paleoecology of the Worland Limestone of Iowa, Missouri and Kansas: Johansson, F. C., 1.

Stratigraphy of Pennsylvanian rocks of Bates, Henry and Vernon Counties, Missouri: Gentile, 4.

WYANDOTTE FORMATION

Stratigraphy of the Kansas City Group: Parizek, 3.

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Stratigraphy of the Kansas City Group: Parizek, 3.

ZELL LIMESTONE

Brachiopod fauna, Macy formation: Dunscombe, 1.

STRUCTURE

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Structural reconnaissance of the Byrnesville area: Thomas, C. W., 1.

BURIED HILLS

Geology of copper deposits, Eminence region: Evans, L. L., 1.

Geology of northeast portion, Des Arc Quadrangle: Weixelman, 1.

Geology of the Annapolis area: Zimmerman, 1.

CRYPTOVOLCANICS

Cryptoexplosion structures; a discussion: Dietz, 4.

Des Plaines disturbance, Illinois: Emrich, 1.

Explosive igneous activity along an Illinois-Missouri axis: Snyder, 6, 7, 8.

Morphological comparison of diagenetic cone-in-cone structures and shatter cones: Amstutz, 13.

Origin of polygonal fault patterns in the Precambrian and overlying rocks: Amstutz, 9.

Polygonal structure at Decaturville, Missouri: Zimmerman, 3.

Shatter cones in cryptoexplosion structures: Dietz, 2.

Tectonic and petrographic observa-

tions on polygonal structure in Missouri: Amstutz, 14.

The Crooked Creek disturbance: Kiilsgaard, 1; and Hendricks, 1.

DOMES

Probable connection of the Nashville and Ozark domes: Wilson, C. W., 1.

Stratigraphy and structure of the Mineola-Danville area: Sinclair, 1.

FAULTS

Cap au Gres fault: Cole, 1.

Geology of northeast portion, Des Arc Quadrangle: Weixelman, 1.

Geology of the Filley Quadrangle: Walker, R. A., 1.

Geophysical study of the Ste. Genevieve fault: Lopez, 1.

Gravity and magnetic problems, eastern Missouri: Mateker, 1.

Gravity survey of the North Leadwood mine area: Algermissen, 2.

Magnetic survey of Cap au Gres faulted flexure: Douthit, 1.

Notes on the geology of Taum Sauk area: Anderson, R. E., 1.

Origin of polygonal fault patterns in the Precambrian and overlying rocks: Amstutz, 9.

Stratigraphy (NE $\frac{1}{4}$) of Fordland Quadrangle: Taylor, R. O., 1.

The Valley Mills fault zone: Beveridge, 11.

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Cretaceous structural development, Mississippi Embayment: Stearns, 2.

Geology of the Bowling Green Quadrangle: Laswell, 1.

Lincoln fold, northeastern Missouri: Koenig, 9.

GENERAL

Artesian origin of fissure caves: Brod, 2, 3.

Cambro-Ordovician rocks of northeastern Oklahoma and adjacent areas: McCracken, M. H., 4.

Distribution and composition of the Slabtown Granite, southeast Missouri: Lemmon, R. D., 2.

Engineering geology of Stockton and

Kaysinger Bluff dam sites, Missouri: Loepp, 1.

Explosive igneous activity along an Illinois-Missouri-Kansas axis: Snyder, F. G., 6, 7, 8.

Geology of Carroll Cave, Camden County: Helwig, 1, 3.

Geology of the Oklahoma Ozark region: Huffman, 8.

Grand Tower Limestone of southern Illinois: Meents, 1.

Gravity and magnetic investigation along eastern flank of the Ozark uplift: Segar, 1.

Gravity inversions along eastern flank of the Ozark uplift: Mather, 2.

Ground water, southern half of Franklin County: Piskin, 1.

Igneous petrology of the Taum Sauk area: Anderson, R. E., 3.

Influence of structure on sedimentation during the Pennsylvanian Period, western Missouri: Gentile, 3.

Interpretation of aeromagnetic data from southwest Missouri: Bisada, 1.

Location of lithologic contacts obscured by mantle: Berry, 1.

Ozark Precambrian-Paleozoic relations: Wheeler, 3.

Paleotopography of the Precambrian surface of northeastern Oklahoma: Dillé, 1.

Pre-Desmoinesian rocks, central midcontinent: Huffman, 9.

Precambrian structure in Missouri: Kisslinger, 2.

Regional structure of the southeast Missouri mineral district: Heyl, 3.

Shock damage of minerals in shatter cones: Simmons, 1.

Stratigraphy of the Jefferson City Quadrangle: Duetzel, 1.

Stratigraphy, sedimentation, and petroleum possibilities of the Ordovician of Missouri: Misra, 1.

Structural framework, Illinois-Kentucky mining district: Heyl, 1.

Structure of the Fordland Quadrangle, Missouri: Jeffries, 2.

The Precambrian rocks of Kansas: Farquhar, O. C., 1.

JOINTS

Drainage patterns controlled by joints in glacial drift: Stone, 2.

MISSISSIPPI EMBAYMENT

General geology of the Mississippi Embayment: Cushing, 2.

PASCOLA ARCH

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RING DIKES

Polygonal and ring patterns, Precambrian and Paleozoic of Missouri: Amstutz, 3.

SHEAR TROUGHS

Structural deformation and ore deposits: Fowler, 2.

STRUCTURE OF DIASTROPHIC ORIGIN

Gravity and magnetic investigation along the eastern flank of the Ozark uplift: Segar, 1.

Gravity inversions along eastern flank of the Ozark uplift: Mather, 2.

Ozark Precambrian-Paleozoic relations: Wheeler, 3.

OTHER STRUCTURES

Explosive igneous activity along an Illinois-Missouri-Kansas axis: Snyder, F. G., 6, 7, 8.

Shock damage of minerals in shatter cones: Simmons, 1.

The Crooked Creek structure: Hendricks, 1; and Kiilsgaard, 1.

MISCELLANEOUS

BIBLIOGRAPHIES

Annotated bibliography and index of conodonts: Ellison, 1.

Bibliography and map of barite deposits in U. S.: Dean, 1.

Bibliography of Bureau of Mines investigations of coal: Carman, 1.

Bibliography of geology of selenium: Luttrell, 2.

Bibliography of graduate theses on geophysics in United States and Canadian institutions: Tarbox, 1.

Bibliography of high-calcium lime-

- stone deposits in the U. S.: Gazdik, 1.
- Bibliography of high-grade silica of the United States and Canada: Jaster, 1.
- Bibliography of iron resources of the world: Luttrell, 1.
- Bibliography of Missouri Precambrian: Wills, 1.
- Bibliography of nickel: Pratt, 1.
- Bibliography of sandstone-type uranium deposits in the United States: Melin, 1.
- Bibliography of titanium deposits of the world: Lawthers, 1.
- Bibliography of the geology of Missouri 1945-55: Clark, 1.
- Bibliography of the geology of Missouri 1956: Koenig, 1.
- Bibliography of the geology of Missouri 1957: Koenig, 3.
- Bibliography of the geology of Missouri 1958: Koenig, 4.
- Bibliography of the geology of Missouri 1959: Koenig, 6.
- Bibliography of the geology of Missouri 1955-60: Koenig, 7.
- Bibliography of the geology of Missouri 1961: Koenig, 10.
- Bibliography of the geology of Missouri 1962: Koenig, 11.
- Bibliography of the geology of Missouri 1963: Vineyard, 6.
- Bibliography of the geology of Missouri 1964: Vineyard, 8.
- Bibliography of uraniferous and radioactive bituminous substances, exclusive of coals, in the U. S.: Jones, H. N., 1.
- Bibliography of uranium-bearing marine black shales in the U. S.: Fix, 1.
- Bibliography of U. S. Geological Survey reports on uranium and thorium 1942-58: Soister, 1.
- Early Man in America—index and bibliography: Sellards, 1.
- Magnesium resources of the United States: Davis, R. E., 1.
- Selected bibliography of andalusite, kyanite, sillimanite, dumortierite, topaz and pyrophyllite in the U. S.: Grametbauer, 1.

CATALOGUE

- Catalogue of the caves of Missouri: Vineyard, 7.

CROSS SECTIONS

- Geologic cross section from western Missouri to western Kansas: Kellett, 1.

DIRECTORIES

- Directory of Missouri geologists and geophysicists: Grawe, 1, 2.
- Directory of Missouri mineral producers and processors: Hayes, W. C., 14.

GUIDEBOOKS

- Guide to the structure and Paleozoic stratigraphy along the Lincoln fold in western Illinois: Collinson, 1.
- Guidebook, field conference, southeast Missouri: Am. Assoc. Petroleum Geologists, 1.
- Guidebook, field trip, forty-second ann. mtg. A.A.P.G.: Knight, R. D., 1.
- Guidebook, field trip to northeastern Missouri: Williams, J. H., 1.
- Guidebook, geology of Rolla area: Missouri Geological Survey, 1.
- Guidebook to cryptoexplosive structures in Missouri: Snyder, F. G., 7.
- Guidebook to geology in vicinity of Cape Girardeau: Johnson, C. H., 2.
- Guidebook to the geology in the vicinity of Joplin: Johnson, C. H., 3.
- Guidebook to the geology of the Kansas City Group at Kansas City: Parizek, 4.
- Guidebook to the geology of the St. Francois Mountain area: Hayes, W. C., 8.
- Guidebook, twenty-sixth ann. field conference, Kansas Geological Society: Koenig, 8.
- Mississippian rocks of western Illinois: Collinson, 3.
- Pennsylvanian (Desmoinesian) of Missouri: Searight, W. V., 5, 6.
- Problems of Pleistocene geology of the greater St. Louis area: Willman, 1.

HISTORICAL

- A note on the lead mines of Missouri: Luckingham, 1.
- Coal in Missouri: Bratton, 1.
- History of iron mining, southeast Missouri: Barrow, 1.
- History of lead mining in southeast Missouri: James, 1.
- Lead mining, southwest Missouri to 1865: Gibson, 1.
- The Maramec Iron Works: Glaab, 1; and Norris, 2.
- The American Zinc, Lead, and Smelting Company: Norris, 1.

REPORTS, STATE GEOLOGIST

- Biennial report to the 69th General Assembly: Beveridge, 1.
- Biennial report to the 70th General Assembly: Beveridge, 3.
- Biennial report to the 71st General Assembly: Beveridge, 6.
- Biennial report to the 72nd General Assembly: Beveridge, 7.
- Biennial report to the 73rd General Assembly: Beveridge, 13.

RESEARCH, GEOLOGICAL

- Survey of current thesis projects in Missouri: Howe, 4, 5.

MISCELLANEOUS

- Directory of Missouri geologists: Grawe, 1, 2.
- Earth science at Missouri School of Mines and Metallurgy: Kirk, 1.
- Flora of Missouri: Steyermark, 2.
- In memoriam, Edward L. Clark: Beveridge, 10.
- Memorial, Edward L. Clark: Mehl, 7.
- Memorial, J. B. Macelwane: Blum, 1.
- Memorial, M. E. Wilson, Sr.: Wilson, J. M., 1.
- Memorial, Oliver Rudolph Grawe: Morgan, 1; and Mulenburg, 4.
- Meteorites: Read, 1.
- Topographic maps of Missouri: Beveridge, 2.

MAPS

AEROMAGNETIC

- Aeromagnetic map of part of the Tri-State district: Keller, F. J., 1.

- Aeromagnetic prospecting for bauxite: Jespersen, 1.

AEROMAGNETIC QUADRANGLE

15-minute, total intensity contour maps, scale 1 inch=approx. 1 mile, listed alphabetically:

- Advance Quadrangle: Fairchild Aerial Surveys, 1.
- Ash Grove Quadrangle: Aero Service Corporation, 1.
- Augusta Quadrangle: Fairchild Aerial Surveys, 2.
- Bland Quadrangle: Fairchild Aerial Surveys, 3.
- Boss Quadrangle: Fairchild Aerial Surveys, 4.
- Butler 4 Quadrangle: Fairchild Aerial Surveys, 5.
- Clinton 3 Quadrangle: Fairchild Aerial Surveys, 6.
- Clinton 4 Quadrangle: Fairchild Aerial Surveys, 7.
- Corridon Quadrangle: Fairchild Aerial Surveys, 8.
- Edgehill Quadrangle: Fairchild Aerial Surveys, 9.
- Eugene Quadrangle: Aero Service Corporation, 11.
- Fair Play Quadrangle: Aero Service Corporation, 2.
- Fristoe Quadrangle: Fairchild Aerial Surveys, 10.
- Greenfield Quadrangle: Aero Service Corporation, 3.
- Hermann Quadrangle: Fairchild Aerial Surveys, 11.
- Hermitage Quadrangle: Aero Service Corporation, 4.
- Iberia Quadrangle: Aero Service Corporation, 12.
- Lesterville Quadrangle: Fairchild Aerial Surveys, 12.
- Linn Quadrangle: Fairchild Aerial Surveys, 13.
- Linn Creek Quadrangle: Aero Service Corporation, 13.
- Little Niangua Quadrangle: Aero Service Corporation, 14.
- Macks Creek Quadrangle: Aero Service Corporation, 5.
- Malden Quadrangle: Fairchild Aerial Surveys, 14.

Meta Quadrangle: Fairchild Aerial Surveys, 15.
 Mokane Quadrangle: Fairchild Aerial Surveys, 16.
 Morrison Quadrangle: Fairchild Aerial Surveys, 17.
 Richland Quadrangle: Aero Service Corporation, 15.
 Redbird Quadrangle: Fairchild Aerial Surveys, 18.
 St. Clair Quadrangle: Fairchild Aerial Surveys, 19.
 Stockton Quadrangle: Aero Service Corporation, 6.
 Stockton 1 Quadrangle: Aero Service Corporation, 7.
 Stockton 2 Quadrangle: Aero Service Corporation, 8.
 Stoutland Quadrangle: Aero Service Corporation, 9.
 Tavern (E½) Quadrangle: Fairchild Aerial Surveys, 20.
 Tavern (W½) Quadrangle: Aero Service Corporation, 16.
 Union Quadrangle: Fairchild Aerial Surveys, 21.
 Urbana Quadrangle: Aero Service Corporation, 10.
 Vienna Quadrangle: Fairchild Aerial Surveys, 22.
 Warsaw Quadrangle: Aero Service Corporation, 17.

GEOLOGIC

Annapolis area: Zimmerman, 1.
 Arkansas and White River basins: Bishop, 1.
 Byrnesville area, Jefferson County: Thomas, C. W., 1.
 Cape Girardeau area, sketch map: Am. Assoc. Petroleum Geologists, 1.
 Clark County, Pleistocene geology: Stone, 1.
 Columbia-Hannibal region, Post-Cheltenham, Pennsylvanian stratigraphy: Searight, T. K., 1.
 Geologic map of Missouri: McCracken, M. H., 1.
 Ground water, southern half of Franklin County: Piskin, 1.
 High Ridge area, Jefferson County: Bethke, 1.

Index to geologic maps in Missouri: Beveridge, 12.
 Leeton-Cornelia area: Kinsley, 1.
 Madison County, southwest portion: Gravelly, 1.
 Mineola-Danville area, Montgomery County: Sinclair, 1.
 Precambrian topography and rock types: Grenia, 1.

GEOLOGIC QUADRANGLE

✓Augusta Quadrangle, SE¼: Danielson, 1.
 Burtville Quadrangle: Cahill, 1.
 ✓Centerview Quadrangle: Bowman, 1.
 ✓Clifton City Quadrangle: Kebert, 1.
 ✓Clinton North Quadrangle: Carver, 1.
 ✓E½ Johnstown and Creighton Quadrangles: Hover, 1.
 ✓Des Arc Quadrangle, northeast portion: Weixelman, 1.
 ✓Des Arc Quadrangle, southwest portion: Boudreau, 1.
 ✓Ellington Quadrangle, N½: Thornton, 1.
 ✓Filley Quadrangle: Walker, R. A., 1.
 ✓Fordland Quadrangle, NE¼: Taylor, R. O., 1.
 ✓Jefferson City Quadrangle, E½: Duewel, 1.
 ✓Matson-Defiance area, Augusta Quadrangle: Smith, M., 1.
 ✓Potosi Quadrangle: Ellis, T. M., 1.
 ✓Stockton Quadrangle: Baker, D. A., 1.
 Tarsney Quadrangle: Kinerney, 1.
 ✓Warrenton Quadrangle, S½: Heflin, 1.
 ✓Washington Quadrangle, NW¼: Martin, J. A., 1.
 ✓Weldon Springs Quadrangle, S½: Krummel, 1.

GRAVIMETRIC

Gravity anomaly map of the United States: Woolard, 1.
 Potosi Quadrangle: Ellis, T. M., 1.
 A regional gravity survey of parts of Franklin, Crawford, and Washington Counties, Missouri: Gregson, 1.

GROUNDWATER

- Groundwater areas of Missouri: Knight, R. D., 5.
- Groundwater quality map of deep aquifers in Missouri: Fuller, 1.
- Water well yield map, with well data: Robertson, C. E., 2, 3.

HYDROLOGIC

- Generalized map showing annual runoff and productive aquifers in the United States: McGuinness, 1.

MINERAL RESOURCES

- High alumina kaolinitic clay in the United States: Mark, 1.
- Major mineral commodity areas of Missouri: Hayes, W. C., 12.
- Mineral resources and industry map of Missouri: Kisvarsanyi, 2.
- Regional structure of the southeast Missouri mineral district: Heyl, 3.

OIL AND GAS

- Oil and gas fields of the United States: Vlissides, 1.

SOILS

- Agricultural soil maps, index of published soils maps to July 1, 1956, scale 1/10,000,000 (1 inch to 150 miles): Smith, P. C., 1.

STRUCTURAL

- Base of Kinderhook, north Missouri: Knight, R. D., 3.

- Configuration of the Precambrian surface showing structural lineaments: Hayes, W. C., 6.

- Deep hole map of Missouri: Knight, R. D., 4.

- Regional structure of the southeast Missouri mineral district: Heyl, 3.
- Subsurface maps of the Canadian Series of Missouri: McCracken, E., 2.

- Top of Kinderhook, north Missouri: Knight, R. D., 2.

TOPOGRAPHIC

- Bedrock topography of northwestern Missouri: Heim, G. E., 6.
- Configuration of the Precambrian surface: Hayes, W. C., 6.
- Precambrian topography and rock types: Grenia, 1.

MISCELLANEOUS

- Barite deposits in U. S., index map: Dean, 1.
- Fluoride content of ground water in United States: Fleischer, 1.
- Precambrian topography, Washington County: French, 1.
- Pre-Pleistocene topography, Grundy County: Meidav, 1.
- Tungsten in the United States: Lemon, D. M., 1.
- Water resources project map of Missouri: Corps of Engineers, 1.

