

**IC
18**

**bibliography
of the
geology of missouri**

1966

jerry d. vineyard

information circular 18

july 1967

STATE OF MISSOURI DEPARTMENT OF BUSINESS AND ADMINISTRATION
DIVISION OF GEOLOGICAL SURVEY AND WATER RESOURCES
W C HAYES STATE GEOLOGIST AND DIRECTOR ROLLA MISSOURI

BIBLIOGRAPHY OF THE GEOLOGY OF MISSOURI

1966

by

Jerry D. Vineyard

INFORMATION CIRCULAR NO. 18

July, 1967

STATE OF MISSOURI

Department of Business and Administration

Division of

GEOLOGICAL SURVEY AND WATER RESOURCES

William C. Hayes, Director and State Geologist
Rolla, Missouri

STATE OF MISSOURI
Warren E. Hearnese, Governor

DEPARTMENT OF BUSINESS AND ADMINISTRATION
Mrs. Ruby Jane Happy, Director

DIVISION OF GEOLOGICAL SURVEY AND WATER RESOURCES
William C. Hayes*, Ph. D., State Geologist and Director
Wallace B. Howe*, Ph. D., Assistant State Geologist

STRATIGRAPHY

Larry D. Fellows, Ph. D.,
Chief, Stratigraphy Section
Thomas L. Thompson, Ph. D., Geologist
Ira R. Satterfield, M. S., Geologist
Karen S. Maroon, Clerk Typist II

GROUND WATER

Dale L. Fuller, B. S.,
Chief, Groundwater Section
Robert D. Knight*, B. S., Geologist
Albert E. Koch, Clerk III
Glenda M. Otis, Clerk Typist II

SUBSURFACE GEOLOGY

Kenneth H. Anderson, B. S.,
Chief, Subsurface Section
Jack S. Wells, B. S., Geologist
Henry M. Groves, B. S., Geologist
Arthur W. Hebrank, B. S., Geologist
Linda J. Stukey, Clerk Typist II
Alleene N. Brooks, Clerk Typist II
Woodrow E. Sands, Laboratory Supervisor
Ira F. Bowen, Laboratory Technician
Jerry A. Plake, Laboratory Assistant

GEOLOGICAL RESEARCH

Mary McCracken, B. S., Research Geologist
Richard E. Wagner, E. M., Research
Geologist

PUBLICATIONS AND INFORMATION

Jerry D. Vineyard*, M. A., Geologist
Kittie L. Hale, Clerk III
Ioma E. Carnahan, Clerk Typist II

ECONOMIC GEOLOGY

James A. Martin*, M. S.,
Chief, Economic Geology Section
Heyward M. Wharton, M. A., Geologist
Eva B. Kisvarsanyi, M. S., Geologist
Charles S. Robertson, M. A., Geologist

GRAPHICS

Douglas R. Stark, Chief Draftsman
James L. Matlock, Draftsman

ANALYTICAL CHEMISTRY

Mabel E. Phillips, B. S., Chemist

ENGINEERING GEOLOGY

James H. Williams*, M. A.,
Chief, Engineering Geology Section
Edwin E. Lutzen*, M. A., Geologist
Christine L. Jacobs, Stenographer II

ADMINISTRATION AND MAINTENANCE

Charlotte L. Sands, Administrative
Secretary
Edith E. Hensley, Accountant-Clerk III
Jean A. Fitzgerald, Stenographer II
Everett Walker, Supt., Bldg. & Grounds
Wilbert P. Malone, Maintenance Man I
Walter C. Bruss, Custodial Worker I

LIBRARY

Bonnie L. Happel, Librarian
Judith A. Schiffner, Clerk Typist II

COOPERATIVE PROGRAMS WITH UNITED STATES GEOLOGICAL SURVEY

Topographic Division:	Daniel Kennedy, Regional Engineer
Water Resources Division:	Anthony Homyk, District Engineer

*Certified Professional Geologist by the American Institute of Professional Geologists

CONTENTS

	Page
Introduction	4
Bibliography	5
Index	23
Counties	23
Economic geology, mining, and metallurgy	30
Engineering geology	33
Geochemistry	33
Geochronology	33
Geophysics	34
Hydrology	34
Mineralogy	35
Paleobotany	40
Paleontology	40
Petrology and petrography	41
Physiography	42
Soils	43
Stratigraphy	43
Structure	55
Miscellaneous	56
Maps	57

INTRODUCTION

This bibliography lists published and unpublished papers concerning the geology of the State of Missouri that were issued during 1966. A few papers which appeared before 1966 but which were not included in previous bibliographies are also listed. Papers which deal with the geology of areas outside of the state are cited if they contain information which may be pertinent to the geology of Missouri.

Although an effort has been made in this bibliography to include the title of every paper pertaining to the geology of Missouri that has appeared in the last year, some have undoubtedly been overlooked. If an omission is noted, the missing publication should be brought to the attention of the editor so that it may be included in future listings.

The editor wishes to thank the librarians who have assisted in the preparation of this bibliography. 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. He also wishes to thank Mrs. Marjorie Richards and Mrs. Judith Schiffner for preparing the typescript, and Mr. John W. Koenig for reading the manuscript.

BIBLIOGRAPHY

Aaronson, Donald Bruce

1. A geologic map of a part of Marion County, Missouri: unpublished Masters thesis, Univ. of Iowa, Iowa City, Iowa, 1966.

American Association of Petroleum Geologists

1. Geological highway map No. 1, Mid-Continent Region, Kansas-Missouri-Oklahoma-Arkansas: American Assoc. Petroleum Geologists, Tulsa, Oklahoma, 1 sheet, 1966.

Amstutz, G. C. Refer to Zimmerman, R. A.

Anderson, R. E. Refer to Hsu, I-Chi

Andrews, Harold E., III

1. Middle Ordovician conodonts from the Joachim Formation of eastern Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1966; abstract: Missouri Acad. Sci. Proc., vol. 3, ser. 2, p. 58, April 1966.

Anonymous

1. The soils of Kansas City North (A general interpretation): U. S. Soil Conservation Service, 18 pp., illus., 5 tables, May 1966.

Ball Associates, Ltd.

1. Surface and shallow oil-impregnated rocks and shallow oil fields in the United States: U. S. Bur. Mines Monograph, 375 pp., 40 figs., 1965.

Basson, Philip Walter

1. The fossil flora of the Drywood Formation of southwestern Missouri: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1966.

Batra, Lekh R.

1. (Segal, Ronald H., and Baxter, Robert W.) A new middle Pennsylvanian fossil fungus: Am. Jour. Botany, vol. 51, no. 9, pp. 991-995, illus., 1964.

Baxter, Robert W. Refer to Batra, Lekh R.

Beasley, R. P.

1. (Paulsell, L. K.; Scrivner, C. L.; and Woodruff, C. M.)
Determination of yields of water to be expected from different land areas in Missouri for the climatic patterns characteristic of the areas, in Annual report, Water Resources Research Center, fiscal year 1966: Univ. of Missouri, Columbia, Missouri, pp. 34-49, 7 figs., 1966.

Birkhead, Paul Kenneth

1. Stromatoporoidea of Missouri (abstract): Dissert. Abs., vol. 26, no. 7, pp. 3858-3859, 1966.

Blakey, J. F.

1. Temperature of surface waters in the conterminous United States: U. S. Geol. Survey, Hydrologic Atlas HA-235, 3 sheets, scale 1:5,000,000 (1 inch=about 80 miles), 8-page text, 1966.

Branson, Carl C.

1. Patterns of Oklahoma prairie mounds: Oklahoma Geology Notes, vol. 26, no. 11, pp. 263-273, 11 figs., November 1966.
2. Maurice Goldsmith Mehl, 1888-1966: Oklahoma Geology Notes, vol. 26, no. 5, pp. 139-140, portrait, 1966.
3. Sole marks in Atoka rocks of platform facies: Oklahoma Geology Notes, vol. 26, no. 9, pp. 236-239, 3 figs., September 1966.

Brought, G. J. Refer to Vincenz, S. A.

Bray, Robert T.

1. An early industry: Missouri Archaeological Soc. Newsletter, no. 204, pp. 3-9, 2 figs., October 1966.

Brewer, Durward

1. (Cassidy, John J.; Covert, Richard P.; King, Darrell L.; McDaniel, William L.; Ray, Arliss D.; Van der Reyden, Dirk; and Viele, George W.) A systems approach to river basin development, in Annual report, Water Resources Research Center, fiscal year 1966: Univ. of Missouri, Columbia, Missouri, pp. 27-33, 1966.

Brill, Kenneth G., Jr.

1. St. Louis ... its geologic aspect: Geotimes, vol. 10, no. 8, pp. 11-15, illus., April 1966.

Brock, M. R. Refer to Heyl, A. V.

Brod, Langford G., Jr.

1. Speleology in Missouri-1966: Missouri Speleology, vol. 8, no. 3, pp. 99-107, illus., July 1966.

Bucher, Walter H.

1. Cryptoexplosive structures caused from without or from within the earth? ("Astroblemes" or "Geoblemes?"): Am. Jour. Sci., vol. 261, pp. 597-649, 16 figs., app., summer 1963.

Burchett, R. R.

1. (and Carlson, M. P.) Twelve maps summarizing the geologic framework of southeastern Nebraska: Nebraska Geol. Survey, Rept. Inv. no. 1, 14 pp., 12 figs., September 1966.

Busby, M. W.

1. Annual runoff in the conterminous United States: U. S. Geol. Survey, Hydrologic Atlas HA-212, 1 sheet, scale 1:7,500,000 (1 inch=about 120 miles), 1966.

Buttermore, Paul M.

1. Water use in the petroleum and natural gas industries: U. S. Bur. Mines, Inf. Circ. 8284, 36 pp., 9 figs., 16 tables, app., 1966.

Callahan, S. J.

1. The development of limestone mines into underground warehouses and manufacturing plants (preprint): Am. Soc. Consulting Engineers, Preprint 257, 14 pp., 1 fig., October 1965.

Campbell, J. B. Refer to Valleroy, V. V.

Carlson, M. P. Refer to Burchett, R. R.

Carpenter, Alden B.

1. Geochemistry and origin of sulfo-saline ground water, Saline County, Missouri, in Annual report, Water Resources Research Center, fiscal year 1966: Univ. of Missouri, Columbia, Missouri, pp. 78-80, 1 table, 1966.

Cassidy, John J. Refer to Brewer, Durward

Cloud, William K. Refer to Von Hake, Carl A.

Cooke, C. Wythe

1. Emerged Quaternary shore lines in the Mississippi embayment: Smithsonian Misc. Coll., vol. 149, no. 10, 41 pp., 20 figs., July 1966.

Cornwall, H. R.

1. Nickel deposits of Missouri in Nickel deposits of North America: U. S. Geol. Survey, Bull. 1223, pp. 10-11, 13, 44-45, 1966.

Covert, Richard P. Refer to Brewer, Durward

Davis, Richard A., Jr.

1. Willow River Dolomite: Ordovician analogue of modern algal stromatolite environments: Jour. Geol., vol. 74, no. 6, pp. 908-923, 6 figs., 3 pls., November 1966.

DeCarlo, Joseph A.

1. (Sheridan, Eugene T., and Murphy, Zane E.) Sulfur content of United States coals: U. S. Bur. Mines, Inf. Circ. 8312, 44 pp., 8 figs., 9 tables, 1966.

Decker, Wayne L.

1. (and Scrivner, C. L.) The availability of sub-surface water in Missouri for consumptive use by plants, in Annual report, Water Resources Research Center, fiscal year 1966: Univ. of Missouri, Columbia, Missouri, pp. 84-90, 3 figs., 1 table, 1966.

Deike, R. G. Refer to Randolph, J. R.

Delevaux, M. H. Refer to Heyl, A. V.

Denison, Rodger Espy. Refer also to Muehlberger, W. R.

1. Basement rocks in adjoining parts of Oklahoma, Kansas, Missouri, and Arkansas: unpublished Doctoral dissertation, Univ. of Texas, Austin, Texas, August 1966.

Desai, Arvind A. Refer also to Hagni, Richard D.

1. Structure contours on the top and base of the M Bed, the relationship of mineralization to structures, and the variation of the M Bed thickness in the Tri-State district, Missouri, Kansas, and Oklahoma: unpublished Masters thesis, Univ. of Missouri at Rolla, Rolla, Missouri, May 1966.

DeWalle, David Russell

1. The hydrologic budget of an Ozark watershed: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, August 1966.

Echols, Dorothy J. Refer also to Stinchcomb, Bruce L.

1. (and Levin, Harold L.) Ordovician chitinozoa from Missouri: Oklahoma Geology Notes, vol. 26, no. 5, pp. 134-139, 1 fig., 2 pls., May 1966.

Ellison, Samuel P., Jr.

1. Memorial to Maurice Goldsmith Mehl (1887-1966): Geol. Soc. America Bull., vol. 77, pp. P219-P224, December 1966.

Erlich, Marvin Irvin

1. Paleomagnetic and rock magnetic investigation of subsurface ore, host-rock, and basic dike specimens from the Precambrian Iron Mountain deposit, southeast Missouri: unpublished Doctoral dissertation, Washington Univ., St. Louis, Missouri, June 1966.

Fellows, Larry D.

1. Geology along Missouri Highway 21 from the Meramec River to Washington State Park in Scenic highway proposal, designation of Highway 21 in Jefferson County as a scenic highway: Jefferson County Planning and Zoning Comm., pp. 29-30, September 1966.
2. Geology, land use, and urban development: Missouri Mineral Industry News, vol. 6, no. 4, pp. 38-49, illus., April 1966.
3. (and Koenig, John W.) Highway 21 road log in Scenic highway proposal, designation of Highway 21 in Jefferson County as a scenic highway: Jefferson County Planning and Zoning Comm., pp. 30-33, September 1966.

Fitzgerald, Jean A.

1. Directory of Missouri geologists and geophysicists, sixth edition: Assoc. Missouri Geologists, 30 pp., June 1966.
2. The building of an empire: Missouri Mineral Industry News, vol. 6, no. 2, pp. 10-13, February 1966.

Forgotson, James M.

1. Ozark "overthrusts" versus Ozark "onlappers": American Assoc. Petroleum Geologists Bull., vol. 50, no. 9, p. 2000, September 1966.

Fraunfelter, George H.

1. An occurrence of Hexagonaria in the Grand Tower Formation of southern Illinois and southeastern Missouri: Illinois Acad. Sci. Trans., vol. 59, no. 4, pp. 347-351, 7 figs., December 1966.
2. The Middle Devonian of central and northeastern Missouri (abstract): Missouri Acad. Sci. Proc., vol. 3, ser. 2, pp. 58-59, April 1966.

Freeburg, J. H.

1. Terrestrial impact structures - a bibliography: U. S. Geol. Survey, Bull. 1220, 91 pp., 1 pl., 1966.

Gallagher, Joseph J.

1. Bituminous coal and lignite distribution, calendar year 1965: U. S. Bur. Mines, Mineral Industry Surveys, Bituminous Coal and Lignite Distribution, Quart., 21 pp., March 1966.

Geddes, Wilbert Refer to Zietz, Isidore

Gentile, Richard J.

1. Occurrence of quartz pebbles and feldspar crystals in Pennsylvanian channel-fill deposits in Missouri (abstract): Missouri Acad. Sci. Proc., vol. 3, ser. 2, pp. 59-60, April 1966.

Gevecker, V. A. C. Refer to Maxwell, James C.

Gilbert, Frederick Lee

1. Soil moisture characterization of a northwest Missouri landscape: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, June 1966.

Goebel, Edwin D.

1. Thermal recovery projects are increasing in Kansas, Missouri: World Oil, pp. 78-80, 2 figs., 1 table, March 1966.

Golder, Charles R.

1. (Loepp, Richard H., and McLoughlin, A. G.) Engineering geology of Kaysinger Bluff and Stockton Dams, west-central Missouri: Assoc. Missouri Geologists, Field Trip Guidebook, 24 pp., 14 pls., September 1966.

Goldich, Saumel S.

1. (Muehlberger, William R.; Lidiak, Edward G.; and Hedge, Carl E.) Geochronology of the midcontinent region, United States; 1. Scope, methods, and principles: Jour. Geophys. Research, vol. 71, no. 22, pp. 5375-5388, 6 figs., 1 table, November 1966.

Goldstein, J. I.

1. Butler, Missouri: An unusual iron meteorite: Science, vol. 153, no. 3739, pp. 975-976, 1 fig., August 1966.

Goodfield, Alan G.

1. Geomorphology of the St. Louis, Missouri area as related to glacial history (abstract): Missouri Acad. Sci. Proc., vol. 3, ser. 2, pp. 60-61, April 1966.
2. Pleistocene and surficial geology of the City of St. Louis and the adjacent St. Louis County, Missouri (abstract): Dissert. Abs., vol. 26, no. 9, p. 5368, 1966.

Goodwin, Michael L.

1. Analysis of the southeast Missouri earthquake of March 3, 1963: unpublished Masters thesis, St. Louis Univ., St. Louis, Missouri, 1965.

Gordon, Mackenzie, Jr.

1. New spinose early Meramec (Upper Mississippian) productid brachiopods: Jour. Paleontology, vol. 40, no. 3, pp. 573-584, 2 pls., May 1966.

Grigoropoulos, Sotirios G. Refer to Maxwell, James C.

Gualtieri, J. L. Refer to Weir, G. W.

Hagni, Richard D.

1. (and Desai, Arvind A.) Solution thinning of the M Bed host rock limestone in the Tri-State district, Missouri, Kansas, Oklahoma: Econ. Geology, vol. 61, no. 8, pp. 1436-1442, 2 figs., December 1966.

Hanson, Ronald L. Refer to Martin, R. O. R.

Hartner, F. E. Refer to Walker, Forrest E.

Hayes, William C.

1. Biennial report of the State Geologist to the 74th General Assembly, 1964-1966: Missouri Geol. Survey and Water Resources, 42 pp., 13 figs., 8 tables, 1966.
2. Mapping programs of the Missouri Geological Survey: Missouri Mineral Industry News, vol. 6, no. 4, pp. 33-37, 2 figs., April 1966.

Hays, Walter W.

1. (and Scharon, LeRoy) A paleomagnetic investigation of some of the Precambrian igneous rocks of southeast Missouri: Jour. Geophys. Research, vol. 71, no. 2, pp. 553-560, illus., table, 1966.

Hedge, Carl E. Refer to Goldich, Samuel S., and Muehlberger, William R.
Herod, Buren C.

1. River Cement - vigorous newcomer: Pit and Quarry, vol. 58, no. 9, pp. 98-103, 106-108, 113, illus., March 1966.

Heyl, A. V.

1. (Delevaux, M. H.; Zartman, R. E.; and Brock, M. R.) Isotopic study of galenas from the upper Mississippi Valley, the Illinois-Kentucky, and some Appalachian Valley mineral districts: Econ. Geology, vol. 61, no. 5, pp. 933-961, 6 figs., 2 tables, app., August 1966.

Hines, Marion S. Refer to Speer, Paul R.

Howard, Leonard W.

1. (and Schoewe, Walter H.) The Englevale channel sandstone: Kansas Acad. Sci. Trans., vol. 68, no. 1, pp. 88-106, illus., 1965.

Howe, Herbert J.

1. The brachiopod genus Lepidocyclus from the Cape (Fernvale) Limestone (Ordovician) of Oklahoma and Missouri: Jour. Paleontology, vol. 40, no. 2, pp. 258-268, 1 pl., 5 figs., March 1966.

Howe, W. B.

1. Digitate algal stromatolite structures from the Cambrian and Ordovician of Missouri: Jour. Paleontology, vol. 40, no. 1, pp. 64-77, 10 figs., January 1966.

Hsu, I-Chi

1. (Anderson, R. E., and Scharon, LeRoy) Paleomagnetic properties of some Precambrian rocks in Missouri: Jour. Geophys. Research, vol. 71, no. 10, pp. 2645-2650, illus., table, 1966.

Janson, M. E. Refer to Speer, Paul R.

Jasim, Rafid Abdul-Halim

1. Origin and factors affecting distribution of solid oil in mid-western Missouri: unpublished Masters thesis, Univ. of Missouri at Rolla, Rolla, Missouri, May 1966.

Jeffery, H. G. Refer to Speer, Paul R.

Johnson, J. Harlan

1. A review of the Cambrian algae: Colorado School of Mines Quart., vol. 61, no. 1, 162 pp., 65 pls., 6 tables, glossary, January 1966.

Kaufman, Alvin

1. (and Nadler, Mildred) Water use in the mineral industry: U. S. Bur. Mines, Inf. Circ. 8285, 58 pp., 15 figs., 24 tables, 2 apps., 1966.

Kemnitz, George E.

1. Big-hole drilling methods are used for mine shaft: Oil and Gas Jour., vol. 65, no. 2, pp. 114-116, illus., January 9, 1967.

Kigoshi, Kunihiro

1. (and Kobayashi, Hiromi) Gakushuin natural radiocarbon measurements V: Radiocarbon, vol. 8, pp. 54-73, illus., table, 1966.

Kilgo, Robert Russell

1. The effect of carbonate karst terrain on water quality: unpublished Masters thesis, Univ. of Missouri at Rolla, Rolla, Missouri, 1965.

King, Darrell L. Refer to Brewer, Durward

King, E. R. Refer to Zietz, Isidore

Kisvarsanyi, Eva B.

1. Dynamics of Missouri's mineral industry, 1950-1966: Missouri Mineral Industry News, vol. 6, no. 4, pp. 29-32, tabular form, April 1966.
2. The potential of metallic and non-metallic mineral resources of north Missouri: Missouri Mineral Industry News, vol. 6, no. 4, pp. 50-58, 1 fig., April 1966.
3. Occurrence of alkali syenite in the vicinity of Johnson Shut-ins State Park, Missouri: Missouri Mineral Industry News, vol. 6, no. 11, pp. 109-111, 1 fig., November 1966.

Kisvarsanyi, Geza

1. Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: unpublished Doctoral dissertation, Univ. of Missouri at Rolla, Rolla, Missouri, March 1966.

Knotts, Phillip L.

1. A comparison and contrast of two cave regions - The Ozark dome of Missouri and the Indiana karst region: Bloomington Indiana Grotto Newsletter, vol. 5, no. 4, pp. 39, 41-51, 1964.

Knox, Burnal Ray

1. Pleistocene and recent geology of the southwest Ozark plateaus: unpublished Doctoral dissertation, Univ. of Iowa, Iowa City, Iowa, June 1966.

Kobayashi, Hiromi Refer to Kigoshi, Kunihiro

Koenig, John W. Refer also to Fellows, L. D.

1. Paleozoic rocks in northern Missouri in Stratigraphic cross section of paleozoic rocks, Colorado to New York: Am. Assoc. Petroleum Geologists, Cross Section Pub. 4, pp. 18-25, 1 pl., 1966.

Kurtz, V. E.

1. The bioterm concept - its application to faunas of the Upper Cambrian Elvins Group, southeastern Missouri (abstract): Missouri Acad. Sci. Proc., vol. 3, ser. 2, p. 62, April 1966.

LaRocque, G. A., Jr.

1. General availability of ground water and depth to water level in the Missouri River basin: U. S. Geol. Survey, Hydrologic Atlas Map HA-217, one sheet, scale 1:2,500,000, 1966.

Levin, Harold J. Refer to Echols, Dorothy J.

Lidiak, Edward G. Refer to Goldich, Samuel S., and Zietz, Isidore

Lineback, Jerry A.

1. Deep-water sediments adjacent to the Borden siltstone (Mississippian) delta in southern Illinois: Illinois Geol. Survey, Circ. 401, 48 pp., 18 figs., 1 table, app., 1966.

Loepp, Richard H. Refer to Golder, Charles R.

Lohrengel, C. Frederick, II

1. Geology of the Lees Summit Quadrangle, Jackson County, Missouri: Compass, vol. 43, no. 3, pp. 185-192, 3 figs., March 1966.

McCaslin, John C.

1. Missouri drilling based on careful geologic study, not sooth-saying: Oil and Gas Jour., vol. 64, no. 2, p. 97, illus., January 10, 1966.

McCracken, Mary H.

1. The structural features of St. Louis County and vicinity in Guidebook to Middle Ordovician and Mississippian strata in St. Louis and St. Charles Counties, Missouri, 1966 Annual Meeting, American Association of Petroleum Geologists: Missouri Geol. Survey, Rept. Inv. 34, pp. 38-41, 1 fig., April 1966.

McDaniel, William L. Refer to Brewer, Durward

McLoughlin, A. G. Refer to Golder, Charles R.

Macurda, Donald B., Jr.

1. The ontogeny of the Mississippian blastoid genus Orphocrinus: Jour. Paleontology, vol. 40, no. 1, pp. 92-124, 10 figs., 4 pls., January 1966.

Marshall, Richard A.

1. Archaeological investigations in The Grundel mastodon: Missouri Geol. Survey and Water Resources, Rept. Inv. 35, pp. 23-25, fig. 7.

Martin, James A.

1. (and Wells, Jack S.) Guidebook to Middle Ordovician and Mississippian strata, St. Louis and St. Charles Counties, Missouri, 1966 Annual Meeting, American Association of Petroleum Geologists: Missouri Geol. Survey, Rept. Inv. 34, 48 pp., illus., April 1966.
2. (and Williams, James H.) Stratigraphic section Pleistocene in The Grundel mastodon: Missouri Geol. Survey and Water Resources, Rept. Inv. 35, pp. 26-28, fig. 8, 1966.

Martin, R. O. R.

1. (and Hanson, Ronald L.) Reservoirs in the United States: U. S. Geol. Survey, Water-Supply Paper 1838, 115 pp., 3 figs., 1 pl., 3 tables, 1966.

Marvin, Richard F. Refer to Muehlberger, William R.

Mateker, Emil J., Jr.

1. (Phelan, Michael J., and Scharon, LeRoy) Geophysical evidence for a northeast-trending crustal lineament near St. Louis (abstract): Missouri Acad. Sci. Proc., vol. 3, ser. 2, p. 63, April 1966.

Maxwell, James C.

1. (Gevecker, V. A. C., and Grigoropoulos, Sofirios G.) Availability, distribution, quantity and quality of water resources in carbonate karst terrain, in Annual report, Water Resources Research Center, fiscal year 1966: Univ. of Missouri, Columbia, Missouri, pp. 12-26, 8 figs., 1966.
2. Drilled well investigation of dolomite aquifer characteristics, in Annual report, Water Resources Research Center, fiscal year 1966: Univ. of Missouri, Columbia, Missouri, pp. 81-83, 1 fig., 1966.

Mehl, Maurice G.

1. Notes on Missouri Pleistocene peccaries: Missouri Speleology, vol. 8, no. 2, pp. 54-74, 15 figs., April 1966.
2. The Grundel mastodon: Missouri Geol. Survey and Water Resources, Rept. Inv. 35, 22 pp., 6 figs., 1966.

Meyer, Gerald

1. (and Wyrick, G. G.) Regional trends in water-well drilling in the United States: U. S. Geol. Survey, Circ. 533, 8 pp., 3 figs., 2 tables, 1966.

Meyers, A. C. Refer to Vincenz, S. A.

Missouri Speleological Survey

1. Caves of St. Louis County: Missouri Speleology, vol. 8, no. 1, pp. 1-50, 13 pls., 3 figs., January 1966.
2. Caves of Shannon County: Missouri Speleology, vol. 8, no. 2, pp. 128-165, illus., 9 map plates, October 1966.

Morales, Gustavo A. Refer to Peck, Raymond E.

Muehlberger, William R. Refer also to Goldich, Samuel S.

1. (Hedge, Carl E.; Denison, Rodger E.; and Marvin, Richard F.) Geochronology of the Midcontinent region, United States; 3. Southern area: Jour. Geophys. Research, vol. 71, no. 22, pp. 5409-5426, 3 figs., 5 tables, November 1966.

Mullins, Lawrence E.

1. A terrain study of the Bloodland Quadrangle, Pulaski County, Missouri: unpublished Masters thesis, Univ. of Missouri at Rolla, Rolla, Missouri, May 1966.

Murphy, Zane A. Refer to DeCarlo, Joseph A.

Nadler, Mildred Refer to Kaufman, Alvin

Ohle, Ernest L.

1. History of "Old Lead Belt" find offers vital exploration lesson:
Eng. Min. Jour., vol. 167, no. 11, p. 104, illus., November 1966.

Ozment, Charles M.

1. Beautiful banded agate found at St. Louis, Missouri: Lapidary Jour., vol. 20, no. 1, pp. 106-107, illus., April 1966.

Palmer, James Edward

1. Some geological and magnetic characteristics of buried and resurrected Precambrian hills of southeastern Missouri:
unpublished Doctoral dissertation, Univ. of Missouri at Rolla, Rolla, Missouri, 1966.

Parsons, John David

1. Comparative limnology of strip-mine lakes, in Internatl. Assoc. Theoretical and Appl. Limnology Cong., U. S. A., 1962: Proc. vol. 15, pt. 1, Stuttgart, Germany, E. Schweizerbart'sche Verlagsbuchhandlung, pp. 293-298, tables, 1964.

Paulsell, L. K. Refer to Beasley, R. P.

Payton, Charles E.

1. Petrology of the carbonate members of the Swope and Dennis formations (Pennsylvanian), Missouri and Iowa: Jour. Sed. Petrology, vol. 36, no. 2, pp. 576-601, 26 figs., June 1966.

Peck, Raymond E.

1. (and Morales, Gustavo A.) The Devonian and Lower Mississippian charophytes of North America: Micropaleontology, vol. 12, no. 3, pp. 303-324, pls. 1-4, July 1966.

Phelan, Michael J. Refer to Mateker, Emil J., Jr.

Powers, L. W. Refer to Valleroy, V. V.

Pugh, Edward E., Jr.

1. Developments in north Midcontinent in 1965: Am. Assoc. Petroleum Geologists Bull., vol. 50, no. 6, pp. 1180-1182, 1 fig., 4 tables, June 1966.

Randolph, J. R.

1. (and Deike, R. G.) Bibliography of hydrology of the United States, 1963: U. S. Geol. Survey, Water-Supply Paper 1863, 166 pp., 1966.

Ray, Arliss D. Refer to Brewer, Durward

Saalberg, Gloria A.

1. The New Madrid land claims in Howard County, Missouri (abstract): Missouri Acad. Sci. Proc., vol. 3, ser. 2, pp. 55-56, April 1966.

Satterfield, Ira R.

1. Petrographic and modal analysis of the andesite of Marble Creek, southeastern Missouri: Illinois Acad. Sci. Trans., vol. 59, no. 3, pp. 207-211, 2 figs., 1 table, September 1966.

Saucier, R. T.

1. Selected geologic literature, lower Mississippi Valley division area, index and annotated bibliography: U. S. Army, Corps of Engineers, Tech. Rept. No. 3-712, 65 pp., 31 pls., January 1966.

Scharon, LeRoy Refer to Hays, Walter W., Hsu, I. Chi, and Mateker, Emil J., Jr.

Schlanger, S. O. Refer to Weir, G. W.

Schmitz, Richard Joseph

1. The geology of the Festus, Missouri and Selma, Illinois-Missouri quadrangles: unpublished Masters thesis, Univ. of Missouri, Columbia, Missouri, 1966.

Schoewe, Walter H. Refer to Howard, Leonard W.

Scott, Cloyd H.

1. (and Stephens, Howard D.) Special sediment investigations, Mississippi River at St. Louis, Missouri, 1961-63: U. S. Geol. Survey, Water-Supply Paper 1819-J, 35 pp., 3 pls., 5 figs., 8 tables, 1966.

Scrivner, C. L. Refer to Beasley, R. P., and Decker, Wayne L.

Segal, Ronald H. Refer to Batra, Lakh R.

Sheridan, Eugene T. Refer to DeCarlo, Joseph A.

Snyder, Frank G.

1. Precambrian iron deposits in Missouri (abstract): Econ. Geology, vol. 61, no. 4, p. 799, 1966.

Soil Conservation Service

1. Soil survey laboratory data and descriptions for some soils of Arkansas, Louisiana and Missouri: U. S. Dept. of Agriculture, Soil Conservation Service, Soil Survey Inv. Rept. No. 6, 137 pp., tables, August 1966.

Speer, Paul R.

1. (Hines, Marion S.; Janson, M. E.; Jeffery, H. G.; and others)
Low-flow characteristics of streams in the Mississippi Embayment
in northern Arkansas and in Missouri: U. S. Geol. Survey, Prof.
Paper 448-F, 25 pp., 3 plates, 7 figs., 6 tables, 1966.

Stephens, Howard D. Refer to Scott, Cloyd H.

Stainbrook, Don J.

1. Heat flow in the Boss deposit of Missouri: unpublished Masters
thesis, Univ. of Missouri at Rolla, Rolla, Missouri, May 1966.

Stinchcomb, Bruce L.

1. (and Echols, Dorothy Jung) Missouri Upper Cambrian
Monoplacophora previously considered Cephalopods: Jour.
Paleontology, vol. 40, no. 3, pp. 647-650, 1 pl., May 1966.

Stone, John E.

1. Drainage patterns controlled by systematic joints in glacial
drift (abstract): Geol. Soc. America Spec. Paper 76, pp. 159-
160, 1964.

Sullivan, Dan Allen, Jr.

1. A paleocurrent study of Upper Mississippian and Lower Pennsylvanian
rocks in the frontal Ouachita Mountains and Arkansas
Valley: unpublished Doctoral dissertation, Washington Univ., St.
Louis, Missouri, June 1966.

Thompson, Thomas L.

1. Late Meramecian conodont faunas from the Fort Bellefontaine and
Vigus North quarries, St. Louis County, Missouri in Guidebook
to Middle Ordovician and Mississippian strata in St. Louis and
St. Charles Counties, Missouri, 1966 Annual Meeting, American
Association of Petroleum Geologists: Missouri Geol. Survey, Rept.
Inv. 34, pp. 42-48, 3 figs., April 1966.

Toomey, Donald F.

1. Application of factor analysis to a facies study of the Leavenworth
Limestone (Pennsylvanian-Virgilian) of Kansas and environs:
Kansas Geol. Survey, Spec. Dist. Pub. 27, 28 pp., 13 figs., 6
tables, 1966.

Trauffer, W. E.

1. Missouri agstone firm operates small but versatile plant: Pit and Quarry, vol. 58, no. 11, pp. 167-168, 171, illus., May 1966.

Turekian, Karl K.

1. The meteorite and tektite collections of Yale University: Postilla, No. 101, 16 pp., May 1966.

U. S. Army Engineers

1. Geology, soils, and materials, App. D in Meramec River, Missouri - Comprehensive basin study, v. 4: St. Louis, Missouri, U. S. Army Corps of Engineers, pp. D1-D45, illus., tables, 1966.

U. S. Bureau of Mines

1. Mineral resources and mineral industry of the Meramec River basin, Missouri, App. J in Meramec River, Missouri - Comprehensive basin study, v. 6: St. Louis, Missouri, U. S. Army Corps of Engineers, 109 pp., illus., tables, 1966.

Valleroy, V. V.

1. (Willman, B. T.; Campbell, J. B.; and Powers, L. W.) Deerfield pilot test of oil recovery by steam drive (preprint): Soc. Petroleum Engineers of Am. Inst. Min., Met. and Petroleum Engineers, Paper No. 1581, 15 pp., 16 figs., 4 tables, 1966.

Van der Reyden, Dirk Refer to Brewer, Durward

Van Zandt, Franklin K.

1. Boundaries of the United States and the several states: U. S. Geol. Survey Bull. 1212, 291 pp., 37 figs., 8 tables, 1966.

Vaz, J. E.

1. (and Zeller, E. J.) Thermoluminescence of calcite from high gamma radiation doses: Am. Mineralogist, vol. 51, no. 7, pp. 1156-1166, 5 figs., July 1966.

Viele, George W. Refer to Brewer, Durward

Vincenz, S. A.

1. (Braught, G. J., and Meyers, A. C.) Thermal demagnetization of some Precambrian igneous rocks of Missouri, in The symposium on magnetism of the earth's interior: Jour. Geomagnetism and Geo-electricity, vol. 17, nos. 3-4, pp. 337-355, illus., tables, 1965.

Vineyard, Jerry D.

1. History of the Missouri Speleological Survey: Missouri Speleology, vol. 8, no. 3, pp. 77-86, illus., July 1966.
2. Memorial to Maurice G. Mehl (1887-1966): Missouri Speleology, vol. 8, no. 2, pp. 52-53, April 1966.

Von Hake, Carl A.

1. (and Cloud, William K.) United States earthquakes, 1964: U. S. Coast and Geodetic Survey, 91 pp., 11 figs., 4 tables, 1966.

Walker, Forrest E.

1. (and Hartner, F. E.) Forms of sulfur in U. S. coals: U. S. Bur. Mines, Inf. Circ. 8301, 51 pp., 1 table, 1966.

Wasson, John T.

1. Butler, Missouri: An iron meteorite with extremely high germanium content: Science, vol. 153, no. 3739, pp. 976-978, 1 table, August 1966.

Water Resources Division

1. Quality of surface waters of the United States - 1960; Parts 5 and 6, Hudson Bay and upper Mississippi River basins, and Missouri River basin: U. S. Geol. Survey, Water-Supply Paper 1743, 278 pp., 1 fig., tables, 1966.
2. Quality of surface waters of the United States - 1963; Parts 5 and 6, Hudson Bay and upper Mississippi River basins, and Missouri River basin: U. S. Geol. Survey, Water-Supply Paper 1949, 411 pp., 1 fig., 1966.
3. Quality of surface waters of the United States - 1963; Parts 7 and 8, lower Mississippi River basin and western Gulf of Mexico basins: U. S. Geol. Survey, Water-Supply Paper 1950, 635 pp., 1 fig., 1966.

Waugh, Truman C.

1. Analyses of high-calcium chert-free beds in the Keokuk Limestone, Cherokee County, Kansas: Kansas Geol. Survey, Bull. 180, pt. 2, 7 pp., 2 figs., November 1966.

Weir, G. W.

1. (Gualtieri, J. L. and Schlanger, S. O.) Borden Formation (Mississippian) in south- and southeast-central Kentucky: U. S. Geol. Survey, Bull. 1224-F, 38 pp., 13 figs., 1966.

Wells, Jack S. Refer to Martin, James A.

Williams, James H. Refer to Martin, James A.

Willman, B. T. Refer to Valleroy, V. V.

Woodruff, C. M. Refer to Beasley, R. P.

Wyrick, G. G. Refer to Meyer, Gerald

Zartman, R. E. Refer to Heyl, A. V.

Zeitz, Isidore

1. (King, E. R., Geddes, Wilbert, and Lidiak, E. G.) Crustal study of a continental strip from the Atlantic Ocean to the Rocky Mountains: Geol. Soc. America Bull., vol. 77, pp. 1427-1448, 6 figs., 2 pls., December 1966.

Zeller, E. J. Refer to Vaz, J. E.

Zimmerman, R. A.

1. (and Amstutz, G. C.) Decaturville sulfide breccia of south-central Missouri - a fossil mud volcano (abstract): Proc. Geol. Soc. America 1965, p. 4, 1966.

INDEX

COUNTIES

ATCHISON COUNTY

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

AUDRAIN COUNTY

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

Geochronology of the Midcontinent region: Muehlberger, 1.

BARRY COUNTY

Basement rocks in Missouri: Denison, 1.

BARTON COUNTY

Basement rocks in Missouri: Denison, 1.

BATES COUNTY

Basement rocks in Missouri: Denison, 1.

Occurrence of quartz and feldspar pebbles in Pennsylvanian channel-fill deposits: Gentile, 1.

An unusual iron meteorite: Goldstein, 1; Wasson, 1.

BENTON COUNTY

Engineering geology of Kaysinger Bluff Dam: Golder, 1.

Notes on Pleistocene peccaries: Mehl, 1.

BOONE COUNTY

Availability of water for plants: Decker, 1.

Middle Devonian of central Missouri: Fraunfelter, 1.

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

Notes on Pleistocene peccaries: Mehl, 1.

Devonian and Mississippian charophytes: Peck, 1.

BUCHANAN COUNTY

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

Application of factor analysis to facies study of the Leavenworth

Limestone: Toomey, 1.

CALDWELL COUNTY

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

Soil survey laboratory data and description of soils: Soil Conservation Service, 1.

CALLAWAY COUNTY

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

Devonian and Mississippian charophytes: Peck, 1.

CAMDEN COUNTY

Cryptoexplosive structures: Bucher, 1.

Geochronology of the Midcontinent region: Muehlberger, 1.

CARROLL COUNTY

Availability of subsurface water for plants: Decker, 1.

CASS COUNTY

Thermal recovery projects in Missouri: Goebel, 1.

CAPE GIRARDEAU COUNTY

Ordovician conodonts from the Joachim Formation: Andrews, 1.

Ordovician chitinozoa from Missouri: Echols, 1.

Soil survey laboratory data and soil description: Soil Conservation Service, 1.

CEDAR COUNTY

Fossil flora of the Drywood Formation: Basson, 1.

Engineering geology of Stockton Dam: Loepp, 1.

CHARITON COUNTY

Availability of subsurface water for plants: Decker, 1.

CLARK COUNTY

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

Geochronology of the Midcontinent region: Muehlberger, 1.

CLAY COUNTY

Soils of Kansas City North: Anonymous, 1.

Availability of subsurface water for plants: Decker, 1.

COOPER COUNTY

Availability of subsurface water for plants: Decker, 1.

CRAWFORD COUNTY

Cryptoexplosive structures: Bucher, 1.

Availability, distribution, quality and quantity of water resources in karst terrain: Maxwell, 1.

Geologic and magnetic characteristics of Precambrian hills in south-east Missouri: Palmer, 1.

DENT COUNTY

Availability, distribution, quality and quantity of water resources in karst terrain: Maxwell, 1.

Soil survey laboratory data and soil descriptions: Soil Conservation Service, 1.

Heat flow in the Boss deposit: Stainbrook, 1.

DOUGLAS COUNTY

Geochronology of the Midcontinent region: Muehlberger, 1.

FRANKLIN COUNTY

Ordovician conodonts from the Joachim Formation: Andrews, 1.

Geochronology of the Midcontinent region: Muehlberger, 1.

GENTRY COUNTY

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

HENRY COUNTY

Fossil flora of the Drywood Formation: Basson, 1.

Quartz pebbles and feldspar crystals in Pennsylvanian channel-fill deposits: Gentile, 1.

HICKORY COUNTY

Basement rocks in Missouri: Denison, 1.

HOLT COUNTY

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

Grundel mastodon: Mehl, 2.

HOWARD COUNTY

Availability of subsurface water for plants: Decker, 1.

New Madrid earthquake land claims: Saalberg, 1.

IRON COUNTY

Geochronology of the Midcontinent region: Muehlberger, 1.

Geologic and magnetic characteristics of Precambrian hills of south-east Missouri: Palmer, 1.

Petrographic and modal analysis of the andesite of Marble Creek: Satterfield, 1.

JACKSON COUNTY

Development of limestone mines into underground warehouses and manufacturing plants: Callahan, 1.

Availability of subsurface water for plants: Decker, 1.

Geology of the Lees Summit Quadrangle: Lohrengel, 1.

JASPER COUNTY

Basement rocks in Missouri: Denison, 1.

Thermoluminescence of calcite: Vaz, 1.

JEFFERSON COUNTY

Ordovician conodonts from the Joachim Formation: Andrews, 1.

River Cement - vigorous newcomer: Herod, 1.

Cambrian and Ordovician digitate algal stromatolites: Howe, W. B., 1.

Structural features of St. Louis County and vicinity: McCracken, 1.

Notes on Missouri Pleistocene peccaries: Mehl, 1.

Geology of the Festus and Selma Quadrangles: Schmitz, 1.

JOHNSON COUNTY

Systems approach to river basin development: Brewer, 1.

Quartz pebbles and feldspar crystals in Pennsylvanian channel-fill deposits: Gentile, 1.

LACLEDE COUNTY

Cryptoexplosive structures: Bucher, 1.

Notes on Missouri Pleistocene peccaries: Mehl, 1.

LAFAYETTE COUNTY

Systems approach to river basin development: Brewer, 1.

Availability of subsurface water for plants: Decker, 1.

Quartz pebbles and feldspar crystals in Pennsylvanian channel-fill deposits: Gentile, 1.

LEWIS COUNTY

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

LINCOLN COUNTY

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

LIVINGSTON COUNTY

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

MCDONALD COUNTY

Basement rocks in Missouri: Denison, 1.

MADISON COUNTY

Nickel deposits of Missouri: Cornwall, 1.

Isotopic studies of galenas: Heyl, 1.

Cambrian and Ordovician digitate algal stromatolites: Howe, W. B., 1.

Big-hole drilling methods used for mine shaft: Kemnitz, 1.

Petrographic and modal analysis of the andesite of Marble Creek:

Satterfield, 1.

MARION COUNTY

Geologic map of a part of Marion County: Aaronson, 1.

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

MILLER COUNTY

Cambrian and Ordovician digitate algal stromatolites: Howe, W. B., 1.

MISSISSIPPI COUNTY

Missouri drilling based on careful geologic study: McCaslin, 1.

MONITEAU COUNTY

Availability of subsurface water for plants: Decker, 1.

MONROE COUNTY

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

MONTGOMERY COUNTY

Ordovician conodonts from the Joachim Formation: Andrews, 1.

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

Devonian and Mississippian charophytes: Peck, 1.

MORGAN COUNTY

Notes on Missouri Pleistocene peccaries: Mehl, 1.

NEW MADRID COUNTY

New Madrid earthquake land claims: Saalberg, 1.

NODAWAY COUNTY

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

OSAGE COUNTY

Cambrian and Ordovician digitate algal stromatolites: Howe, W. B., 1.

PERRY COUNTY

Ordovician conodonts from the Joachim Formation: Andrews, 1.

PETTIS COUNTY

Systems approach to river basin development: Brewer, 1.

Basement rocks in Missouri: Denison, 1.

PHELPS COUNTY

Availability, distribution, quality and quantity of water resources in karst terrain: Maxwell, 1.

PIKE COUNTY

Ordovician chitinozoa from Missouri: Echols, 1.

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

Notes on Missouri Pleistocene peccaries: Mehl, 1.

Soil survey laboratory data and soil descriptions: Soil Conservation Service, 1.

PLATTE COUNTY

Soils of Kansas City North: Anonymous, 1.

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

POLK COUNTY

Basement rocks in Missouri: Denison, 1.

PULASKI COUNTY

Notes on Missouri Pleistocene peccaries: Mehl, 1.

Terrain study of the Bloodland Quadrangle: Mullins, 1.

RALLS COUNTY

Ordovician chitinozoa from Missouri: Echols, 1.

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

RAY COUNTY

Availability of subsurface water for plants: Decker, 1.

REYNOLDS COUNTY

Cambrian and Ordovician digitate algal stromatolites: Howe, W. B., 1.

Geologic and magnetic characteristics of Precambrian hills in south-east Missouri: Palmer, 1.

Alakali syenite in the vicinity of Johnson Shut-ins State Park:
Kisvarsanyi, E. B., 3.

Geochronology of the Midcontinent region: Muehlberger, 1.

ST. CHARLES COUNTY

Ordovician conodonts from the Joachim Formation: Andrews, 1.

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

Structural features of St. Louis County and vicinity: McCracken, 1.

Guidebook to Middle Ordovician and Mississippian strata: Martin,
J. A., 1.

Geochronology of the Midcontinent region: Muehlberger, 1.

Soil survey laboratory data and soil descriptions: Soil Conservation Service, 1.

STE. GENEVIEVE COUNTY

Ordovician conodonts from the Joachim Formation: Andrews, 1.

Cryptoexplosive structures: Bucher, 1.

Hexagonaria in the Grand Tower Formation: Fraunfelter, 1.

Isotopic study of galenas: Heyl, 1.

ST. FRANCOIS COUNTY

Magnetic investigations of ore, host-rock, and basic dike specimens:
Erlich, 1.

ST. LOUIS COUNTY

Ordovician conodonts from the Joachim Formation: Andrews, 1.

St. Louis ... its geologic aspect: Brill, 1.

Geomorphology and glacial history of the St. Louis area: Goodfield, 1.

Analysis of the southeast Missouri earthquake, March 3, 1963:

Goodwin, 1.

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

Structural features of St. Louis County and vicinity: McCracken, 1.

Guidebook to Ordovician and Mississippian strata: Martin, J. A., 1.

Notes on Missouri Pleistocene peccaries: Mehl, 1.

Caves of St. Louis County: Missouri Speleological Survey, 1.

Geochronology of the Midcontinent region: Muehlberger, 1.

Banded agate found at St. Louis: Ozment, 1.

Meramecian conodont faunas from quarries: Thompson, 1.

SALINE COUNTY

Early lime industry: Bray, 1.

Systems approach to river basin development: Brewer, 1.

Geochemistry and origin of sulfo-saline water: Carpenter, 1.

Availability of subsurface water for plants: Decker, 1.

SCOTT COUNTY

Missouri drilling based on careful geologic study: McCaslin, 1.

SHANNON COUNTY

Cambrian and Ordovician digitate algal stromatolites: Howe, W. B., 1.

Caves of Shannon County: Missouri Speleological Survey, 2.

Geologic and magnetic characteristics of Precambrian hills of south-east Missouri: Palmer, 1.

SHELBY COUNTY

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

VERNON COUNTY

Basement rocks in Missouri: Denison, 1.

Thermal recovery projects in Missouri: Goebel, 1.

Englevale channel sandstone (Pennsylvanian): Howard, 1.

Geochronology of the Midcontinent region: Muehlberger, 1.

Deerfield pilot test of oil recovery by steam drive: Valleroy, 1.

WARREN COUNTY

Ordovician conodonts from the Joachim Formation: Andrews, 1.

Metallic and non-metallic mineral resources: Kisvarsanyi, E. B., 2.

Agstone firm operates versatile plant: Trauffer, 1.

WASHINGTON COUNTY

Cambrian and Ordovician digitate algal stromatolites: Howe, W. B., 1.

Geochronology of the Midcontinent region: Muehlberger, 1.

Geologic and magnetic characteristics of Precambrian hills of south-east Missouri: Palmer, 1.

ECONOMIC GEOLOGY, MINING, AND METALLURGY

CEMENT

River Cement - vigorous newcomer: Herod, 1.

Metallic and non-metallic mineral resources of north Missouri:

Kisvarsanyi, E. B., 2.

CLAY

Metallic and non-metallic mineral resources of north Missouri:

Kisvarsanyi, E. B., 2.

Structural features of St. Louis County and vicinity: McCracken, 1.

COAL

Sulfur content of United States coals: DeCarlo, 1.

Bituminous coal and lignite distribution, 1965: Gallagher, 1.

Forms of sulfur in United States coals: Walker, 1.

COBALT

Nickel deposits of Missouri: Cornwall, 1.

COPPER

Nickel deposits of Missouri: Cornwall, 1.

Heat flow in the Boss copper-iron deposit: Stainbrook, 1.

EXPANDABLE SHALE

Metallic and non-metallic mineral resources of north Missouri:

Kisvarsanyi, E. B., 2.

FIRECLAY

Metallic and non-metallic mineral resources of north Missouri:

Kisvarsanyi, E. B., 2.

GENERAL

St. Louis ... its geologic aspect: Brill, 1.

Water use in the mineral industry: Kaufman, 1.

Dynamics of Missouri's mineral industry: Kisvarsanyi, E. B., 1.

Geology of the Lees Summit Quadrangle: Lohrengel, 1.

Mineral resources and mineral industry of the Meramec River basin,
Missouri: U. S. Bureau of Mines, 1.

GLASS SAND

Metallic and non-metallic mineral resources of north Missouri:

Kisvarsanyi, E. B., 2.

Geology of the Festus and Selma Quadrangles: Schmitz, 1.

INDUSTRIAL MINERALS

Dynamics of Missouri's mineral industry: Kisvarsanyi, E. B., 1.

IRON

Magnetic investigations of ore, host-rock, and basic dike specimens
from Iron Mountain: Erlich, 1.

Dynamics of Missouri's mineral industry: Kisvarsanyi, E. B., 1.

Metallic and non-metallic mineral resources of north Missouri:

Kisvarsanyi, E. B., 2.

Geochemical and petrological study of the Precambrian iron metallo-
genic province of southeast Missouri: Kisvarsanyi, Geza, 1.

Precambrian iron deposits in Missouri: Snyder, 1.

Heat flow in the Boss copper-iron deposit: Stainbrook, 1.

LEAD

Nickel deposits of Missouri: Cornwall, 1.

Isotopic studies of galenas: Heyl, 1.

Dynamics of Missouri's mineral industry: Kisvarsanyi, E. B., 1.

History of "Old Lead Belt" offers exploration lesson: Ohle, 1.

LIME

Early lime industry: Bray, 1.

Geology of the Festus and Selma Quadrangles: Schmitz, 1.

LIMESTONE

Agstone firm operates small, versatile plant: Trauffer, 1.

Analyses of chert-free beds in the Keokuk Limestone: Waugh, 1.

MINING

Building of an empire: Fitzgerald, 1.

Big-hole drilling methods used for mine shaft: Kemnitz, 1.

Dynamics of Missouri's mineral industry: Kisvarsanyi, E. B., 1.

Metallic and non-metallic mineral resources of north Missouri:

Kisvarsanyi, E. B., 2.

NATURAL GAS

Water use in the natural gas industry: Buttermore, 1.

Structural features of St. Louis County and vicinity: McCracken, 1.

NICKEL

Nickel deposits of Missouri: Cornwall, 1.

ORIGIN OF ORES

Relationship of mineralization to structure, Joplin district:

Desai, 1.

Magnetic investigations of ore, host-rock, and basic dike specimens
from the Iron Mountain deposit: Erlich, 1.

Solution thinning of host-rock limestone, Tri-State district:

Hagni, 1.

Isotopic study of galenas: Heyl, 1.

Geochemical and petrological study of the Precambrian iron metallo-
genic province, southeast Missouri: Kisvarsanyi, Geza, 1.

PETROLEUM

Oil-impregnated rocks and shallow oil fields in the United States:

Ball Associates, 1.

Water use in the petroleum industry: Buttermore, 1.

Thermal recovery projects in Missouri: Goebel, 1.

Origin and distribution of solid oil in Missouri: Jasim, 1.

Missouri drilling based on careful geologic study: McCaslin, 1.

Structural features of St. Louis County and vicinity: McCracken, 1.

Developments in north Midcontinent in 1965: Pugh, 1.

Deerfield pilot test of oil recovery by steam drive: Valleroy, 1.

SCULPTING STONE

Alkali syenite in the vicinity of Johnson Shut-ins State Park:

Kisvarsanyi, E. B., 3.

SULFUR

Forms of sulfur in United States coals: Walker, 1.

ENGINEERING GEOLOGY

GENERAL

Geology, land use, and urban development: Fellows, 2.

RESERVOIR SITES

Engineering geology of Kaysinger Bluff and Stockton Dams: Golder, 1.

Geology, soils, and materials in the Meramec River basin: U. S. Army
Engineers, 1.

SOILS

Pleistocene and surficial geology of St. Louis, city and county:
Goodfield, 1.

Geology, soils, and materials in the Meramec River basin: U. S. Army
Engineers, 1.

UNDERGROUND WAREHOUSES

Development of limestone mines into warehouses and manufacturing
plants: Callahan, 1.

GEOCHEMISTRY

GENERAL

Geochemical and petrological study of the Precambrian iron metallo-
genic province of southeast Missouri: Kisvarsanyi, Geza, 1.

GEOCHRONOLOGY

GENERAL

Geochemistry and origin of sulfo-saline ground water, Saline County:
Carpenter, 1.

Geochronology of the Midcontinent region: Goldich, 1; Muehlberger, 1.

Natural radiocarbon measurements: Kigoshi, 1.

GEOPHYSICS

GRAVIMETRICS

Geophysical evidence for a crustal lineament near St. Louis:

Mateker, 1.

Crustal study of a continental strip from the Atlantic Ocean to the Rocky Mountains: Zietz, 1.

MAGNETICS

Magnetic investigation of ore, host-rock, and basic dike specimens from the Iron Mountain deposit: Erlich, 1.

Paleomagnetic investigation of Precambrian rocks of southeast Missouri: Hayes, 1.

Paleomagnetic properties of Precambrian rocks in Missouri: Hsu, 1.

Geophysical evidence for a crustal lineament near St. Louis:

Mateker, 1.

Magnetic characteristics of Precambrian hills of southeast Missouri: Palmer, 1.

Thermal demagnetization of Precambrian igneous rocks of Missouri: Vincenz, 1.

Crustal study of a continental strip from the Atlantic Ocean to the Rocky Mountains: Zietz, 1.

SEISMOLOGY

Analysis of the southeast Missouri earthquake of March 3, 1963:

Goodwin, 1.

New Madrid earthquake land claims in Howard County: Saalberg, 1.

United States earthquakes, 1964: Von Hake, 1.

HYDROLOGY

BIBLIOGRAPHY

Bibliography of hydrology of the United States, 1963: Randolph, 1.

Selected geologic literature, lower Mississippi Valley division area: Saucier, 1.

GENERAL

Water use in the petroleum and natural gas industries: Buttermore, 1.

Hydrologic budget of an Ozark watershed: DeWalle, 1.

Water use in the mineral industry: Kaufman, 1.

Geology, soils and materials in the Meramec River basin: U. S. Army Engineers, 1.

GROUND WATER

Water yields from different land areas in Missouri: Beasley, 1.
 Geochemistry and origin of sulfo-saline ground water, Saline County: Carpenter, 1.
 Availability of subsurface water for plants: Decker, 1.
 Soil moisture characteristics of a northwest Missouri landscape: Gilbert, 1.
 Effect of carbonate karst terrain on water quality: Kilgo, 1.
 Availability of ground water and depth to water level in the Missouri River basin: La Rocque, 1.
 Availability, distribution, quality and quantity of water resources in karst terrain: Maxwell, 1.
 Drilled well investigation of dolomite aquifer characteristics: Maxwell, 2.
 Regional trends in water-well drilling in the United States: Moyer, 1.

SURFACE WATER

Temperature of surface waters in the conterminous United States: Blakey, 1.
 Systems approach to river basin development: Brewer, 1.
 Annual runoff in the conterminous United States: Busby, 1.
 Reservoirs in the United States: Martin, R. O. R., 1.
 Sediment investigations, Mississippi River at St. Louis: Scott, 1.
 Low-flow characteristics of streams in the Mississippi embayment: Speer, 1.
 Quality of surface waters of the United States, 1960 and 1963: Water Resources Division, 1 and 2.

MINERALOGY

ACTINOLITE

Magnetic investigation of ore, host-rock, and basic dike specimens from the Iron Mountain deposit: Erlich, 1.
 Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

AGATE

Banded agate found at St. Louis, Missouri: Ozment, 1.

ANDRADITE

Magnetic investigation of ore, host-rock, and basic dike specimens from the Iron Mountain deposit: Erlich, 1.

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

APATITE

Magnetic investigation of ore, host-rock, and basic dike specimens from the Iron Mountain deposit: Erlich, 1.

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

Alkali syenite near Johnson Shut-ins State Park: Kisvarsanyi, E. B., 3.

AUGITE

Petrologic analysis of the andesite of Marble Creek, southeast Missouri: Satterfield, 1.

BIOTITE

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

Petrographic and modal analysis of the andesite of Marble Creek, southeast Missouri: Satterfield, 1.

BORNITE

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

CALCITE

Magnetic investigations of ore, host-rock, and basic dike specimens from the Iron Mountain deposit: Erlich, 1.

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

Thermoluminescence of calcite from high radiation doses: Vaz, 1.

CHALCOCITE

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

CHALCOPYRITE

Nickel deposits of Missouri: Cornwall, 1.

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

CHLORITE

Alkali syenite near Johnson Shut-ins State Park: Kisvarsanyi, E. B., 3.

CROCIDOLITE

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

DOLOMITE

Magnetic investigation of ore, host-rock and basic dike specimens from the Iron Mountain deposit: Erlich, 1.

EPIDOTE

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

FLUORITE

Magnetic investigation of ore, host-rock, and basic dike specimens from the Iron Mountain deposit: Erlich, 1.

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

GALENA

Nickel deposits of Missouri: Cornwall, 1.

Isotopic study of galenas: Heyl, 1.

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

GEIKIELITE

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

HEMATITE

Magnetic investigation of ore, host-rock, and basic dike specimens from the Iron Mountain deposit: Erlich, 1.

Alkali syenite near Johnson Shut-ins State Park: Kisvarsanyi, E. B., 3.

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

HORNBLENDE

Petrographic and modal analysis of the andesite of Marble Creek: Satterfield, 1.

HYDROHEMATITE

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

JACOBSITE

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

LEPIDOCROCITE

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

MAGHEMITE

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

MAGNESIOFERRITE

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

MAGNETITE

Magnetic investigation of ore, host-rock, and basic dike specimens from the Iron Mountain deposit: Erlich, 1.

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

MARCASITE

Nickel deposits of Missouri: Cornwall, 1.

MICROCLINE

Quartz pebbles and feldspar crystals in Pennsylvanian channel-fill deposits: Gentile, 1.

MOLYBDENITE

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

ORTHOCLASE

Alkali syenite near Johnson Shut-ins State Park: Kisvarsanyi, E. B., 3.

PLAGIOCLASE

Petrographic and modal analysis of the andesite of Marble Creek, southeast Missouri: Satterfield, 1.

PYRITE

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

Forms of sulfur in U. S. coals: Walker, 1.

QUARTZ

Quartz pebbles and feldspar crystals in Pennsylvanian channel-fill deposits: Gentile, 1.

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

Magnetic investigation of ore, host-rock, and basic dike specimens from the Precambrian Iron Mountain deposit: Erlich, 1.

Petrographic and modal analysis of the andesite of Marble Creek, southeast Missouri: Satterfield, 1.

SALITE

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

SERICITE

Alkali syenite near Johnson Shut-ins State Park: Kisvarsanyi, E. B., 3.

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

SIEGENITE

Nickel deposits of Missouri: Cornwall, 1.

SPHALERITE

Nickel deposits of Missouri: Cornwall, 1.

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

SPINEL

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

TREMOLITE

Magnetic investigation of ore, host-rock, and basic dike specimens from the Iron Mountain deposit: Erlich, 1.

Geochemical and petrological analysis of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

ZOISITE

Geochemical and petrological study of the Precambrian iron metallogenic province of southeast Missouri: Kisvarsanyi, Geza, 1.

PALEOBOTANY

CHAROPHYTA

Devonian and lower Mississippian charophytes of North America:
Peck, 1.

GENERAL

Fossil flora of the Drywood Formation, southwest Missouri: Basson, 1.
A new Pennsylvanian fossil fungus: Batra, 1.

PALEONTOLOGY

ALGAE

Algal stromatolites in the Willow River Dolomite: Davis, 1.
Cambrian and Ordovician digitate algal stromatolites: Howe, W. B., 1.
Review of the Cambrian algae: Johnson, J. H., 1.
Petrology of the Swope and Dennis Formations (Pennsylvanian):
Payton, 1.

ARTHROPODA

Petrology of the Swope and Dennis Formations (Pennsylvanian):
Payton, 1.

BLASTOIDEA

Ontogeny of the Mississippian blastoid genus Orphocrinus: Macurda, 1.

BRACHIOPODA

New spinose Mississippian productid brachiopods: Gordon, 1.
Brachiopod genus Lepidocyclus from the Cape (Fernvale) Limestone:
Howe, H. J., 1.
Petrology of the Swope and Dennis Formations (Pennsylvanian):
Payton, 1.

BRYOZOA

Petrology of the Swope and Dennis Formations (Pennsylvanian):
Payton, 1.

COELENTERATA

Stromatoporoidea of Missouri: Birkhead, 1.

Hexagonaria in the Grand Tower Formation: Fraunfelter, 1.

CONODONTS

Middle Ordovician conodonts from the Joachim Formation: Andrews, 1.

Mississippian conodont faunas from quarries in St. Louis County:

Thompson, 1.

ECHINODERMATA

Petrology of the Swope and Dennis Formations (Pennsylvanian):

Payton, 1.

FORAMINIFERA

Petrology of the Swope and Dennis Formations (Pennsylvanian):

Payton, 1.

Facies study of the Leavenworth Limestone (Pennsylvanian): Toomey, 1.

FUSULINIDAE

Facies study of the Leavenworth Limestone (Pennsylvanian): Toomey, 1.

GENERAL

Sole marks in Atoka rocks: Branson, 1.

Application of the biomere concept to faunas of the Elvins Group

(Cambrian): Kurtz, 1.

MOLLUSCA

Petrology of the Swope and Dennis Formations (Pennsylvanian):

Payton, 1.

Missouri Upper Cambrian Monoplacophora: Stinchcomb, 1.

RHIZOPODA

Ordovician chitinozoa from Missouri: Echols, 1.

VERTEBRATA

Notes on Missouri Pleistocene peccaries: Mehl, 1.

The Grundel mastodon: Mehl, 2.

Caves of Shannon County: Missouri Speleological Survey, 2.

PETROLOGY AND PETROGRAPHY

IGNEOUS ROCKS

Cryptoexplosive structures: Bucher, 1.

Basement rocks in Missouri: Denison, 1.

Magnetic investigation of ore, host-rock, and basic dike specimens

from the Precambrian Iron Mountain deposit: Erlich, 1.

- Alkali syenite near Johnson Shut-ins State Park: Kisvarsanyi, E. B., 3.
 Geochemical and petrological study of the Precambrian iron metallo-
 genic province of southeast Missouri: Kisvarsanyi, Geza, 1.
 Petrographic and modal analysis of the andesite of Marble Creek, south-
 east Missouri: Satterfield, 1.

SEDIMENTARY ROCKS

- The Englevale channel sandstone: Howard, 1.
 Petrology of the Swope and Dennis Formations (Pennsylvanian):
 Payton, 1.

PHYSIOGRAPHY

CAVES

- Comparison of cave regions in Missouri and Indiana: Knotts, 1.
 Notes on Missouri Pleistocene peccaries: Mehl, 1.
 Caves of St. Louis County: Missouri Speleological Survey, 1.
 Caves of Shannon County: Missouri Speleological Survey, 2.
 Geology, soils, and materials in the Meramec River basin: U. S. Army
 Engineers, 1.

GENERAL

- St. Louis ... its geologic aspect: Brill, 1.
 The Englevale channel sandstone: Howard, 1.
 Pleistocene and Recent geology of the southwest Ozark plateaus:
 Knox, 1.
 Terrain study of the Bloodland Quadrangle, central Missouri:
 Mullins, 1.
 Geologic characteristics of Precambrian hills of southeast Missouri:
 Palmer, 1.
 Drainage patterns controlled by joints in glacial drift: Stone, 1.

KARST TERRAIN

- Effect of carbonate karst terrain on water quality: Kilgo, 1.
 Availability, distribution, quality and quantity of water resources in
 karst terrain: Maxwell, 1.

PRAIRIE MOUNDS

- Patterns of Oklahoma prairie mounds: Branson, 1.

SHORE LINES

Emerged Quaternary shore lines in the Mississippi embayment: Cooke, 1.

SOILS

GENERAL

Soils of Kansas City North: Anonymous, 1.

Yields of water from different land areas: Beasley, 1.

Availability of subsurface water for plants: Decker, 1.

Soil moisture of a northwest Missouri landscape: Gilbert, 1.

Pleistocene and surficial geology of St. Louis City and County:

Goodfield, 1.

Soil survey laboratory data and soil descriptions: Soil Conservation Service, 1.

STRATIGRAPHY

APPLETON CITY FORMATION

A new middle Pennsylvanian fossil fungus: Batra, 1.

ATOKAN SERIES

Sole marks in Atoka rocks: Branson, 1.

Paleozoic rocks in northern Missouri: Koenig, 1.

BACHELOR FORMATION

Devonian and lower Mississippian charophytes of North America:

Peck, 1.

BETHANY FALLS LIMESTONE MEMBER

Petrology of the Swope and Dennis Formations (Pennsylvanian):

Payton, 1.

BLUEJACKET FORMATION

Origin and factors affecting the distribution of solid oil in

Missouri: Jasim, 1.

BONNETERRE FORMATION

Cambrian and Ordovician digitate algal stromatolites: Howe, W. B., 1.

Paleozoic rocks in northern Missouri: Koenig, 1.

Geological characteristics of Precambrian hills of southeastern

Missouri: Palmer, 1.

BORDEN FORMATION

Borden Formation (Mississippian) in Kentucky: Weir, 1.

BRONSON SUBGROUP

Petrology of the Swope and Dennis Formations (Pennsylvanian):

Payton, 1.

BURLINGTON LIMESTONE

Deep-water sediments adjacent to the Borden Siltstone (Mississippian) delta in Illinois: Lineback, 1.

Ontogeny of the Mississippian blastoid genus Orphocrinus: Macurda, 1.

Geology of the Festus and Selma Quadrangles: Schmitz, 1.

BUSHBERG SANDSTONE

Geology of the Festus and Selma Quadrangles: Schmitz, 1.

CABANISS SUBGROUP

A new Middle Pennsylvanian fossil fungus: Batra, 1.

CALLAWAY LIMESTONE

Middle Devonian of central and northeastern Missouri: Fraunfelter, 1.

Paleozoic rocks in northern Missouri: Koenig, 1.

Devonian and Lower Mississippian charophytes of North America:

Peck, 1.

CAMBRIAN SYSTEM

Cambrian and Ordovician digitate algal stromatolites: Howe, W. B., 1.

Review of the Cambrian algae: Johnson, 1.

Paleozoic rocks in northern Missouri: Koenig, 1.

Application of the bioturbation concept to faunas of the Upper Cambrian

Elvins Group: Kurtz, 1.

Structural features of St. Louis County and vicinity: McCracken, 1.

Caves of Shannon County: Missouri Speleological Survey, 2.

Geological characteristics of Precambrian hills of southeastern

Missouri: Palmer, 1.

Missouri Upper Cambrian Monoplacophora: Stinchcomb, 1.

CANADIAN SERIES

Paleozoic rocks in northern Missouri: Koenig, 1.

CANVILLE LIMESTONE

Petrology of the Swope and Dennis Formations (Pennsylvanian):

Payton, 1.

CAPE LIMESTONE

The brachiopod genus Lepidocyclus from the Cape (Fernvale) Limestone:

Howe, H. J., 1.

CEDAR CITY FORMATION

Middle Devonian of central and northeastern Missouri: Fraunfelter, 1.

CHAMPLAINIAN SERIES

Paleozoic rocks in northern Missouri: Koenig, 1.

CHANUTE FORMATION

Geology of the Lees Summit Quadrangle: Lohrengel, 1.

CHATTANOOGA SHALE

Paleozoic rocks in northern Missouri: Koenig, 1.

CHEROKEE GROUP

Paleozoic rocks in northern Missouri: Koenig, 1.

CHERRYVALE FORMATION

Geology of the Lees Summit Quadrangle: Lohrengel, 1.

CHESTERIAN SERIES

Conodont faunas from quarries in St. Louis County: Thompson, 1.

CHOUTEAU GROUP

Paleozoic rocks in northern Missouri: Koenig, 1.

CINCINNATIAN SERIES

Paleozoic rocks in northern Missouri: Koenig, 1.

COTTER DOLOMITE

Paleozoic rocks in northern Missouri: Koenig, 1.

Geology of the Festus and Selma Quadrangles: Schmitz, 1.

CRETACEOUS SYSTEM

Emerged Quaternary shore lines in the Mississippi embayment:

Cooke, 1.

DAVIS FORMATION

Geological characteristics of Precambrian hills of southeastern

Missouri: Palmer, 1.

DECORAH FORMATION

Ordovician chitinozoa from Missouri: Echols, 1.

Paleozoic rocks in northern Missouri: Koenig, 1.

Geology of the Festus and Selma Quadrangles: Schmitz, 1.

DENNIS FORMATION

Geology of the Lees Summit Quadrangle: Lohrengel, 1.

Petrology of the Swope and Dennis Formations (Pennsylvanian):

Payton, 1.

DERBY-DOERUN FORMATION

Paleozoic rocks in northern Missouri: Koenig, 1.

Geologic characteristics of Precambrian hills of southeastern

Missouri: Palmer, 1.

DESMOINESIAN SERIES

Origin and distribution of solid oil in western Missouri: Jasim, 1.

Paleozoic rocks in northern Missouri: Koenig, 1.

DEVONIAN SYSTEM

Hexagonaria in the Grand Tower Limestone: Fraunfelter, 1.

Middle Devonian of central and northeastern Missouri: Fraunfelter, 2.

Paleozoic rocks in northern Missouri: Koenig, 1.

Devonian and Lower Mississippian charophytes of North America:

Peck, 1.

DEVONIAN OR MISSISSIPPIAN SYSTEM

Paleozoic rocks of northern Missouri: Koenig, 1.

DRUM FORMATION

Geology of the Lees Summit Quadrangle: Lohrengel, 1.

DRYWOOD FORMATION

Fossil flora of the Drywood Formation of southwestern Missouri:

Basson, 1.

Origin and distribution of solid oil in western Missouri: Jasim, 1.

EDGEWOOD FORMATION

Paleozoic rocks in northern Missouri: Koenig, 1.

ELVINS GROUP

Application of the bioterm concept to faunas of the Elvins Group:

Kurtz, 1.

Geological characteristics of Precambrian hills of southeastern

Missouri: Palmer, 1.

EMINENCE DOLOMITE

Paleozoic rocks in northern Missouri: Koenig, 1.

Caves of Shannon County: Missouri Speleological Survey, 2.

Geological characteristics of Precambrian hills of southeastern Missouri: Palmer, 1.

Missouri Upper Cambrian Monoplacophora: Stinchcomb, 1.

EVERTON FORMATION

Paleozoic rocks in northern Missouri: Koenig, 1.

Geology of the Festus and Selma Quadrangles: Schmitz, 1.

FERN GLEN FORMATION

Deep-water sediments adjacent to the Borden Siltstone (Mississippian) delta in southern Illinois: Lineback, 1.

Geology of the Festus and Selma Quadrangles, Schmitz, 1.

GALESBURG FORMATION

Geology of the Lees Summit Quadrangle: Lohrengel, 1.

GASCONADE DOLOMITE

Ordovician digitate algal stromatolites: Howe, W. B., 1.

Paleozoic rocks in northern Missouri: Koenig, 1.

Caves of Shannon County: Missouri Speleological Survey, 2.

Geological characteristics of Precambrian hills of southeastern Missouri: Palmer, 1.

GENERAL

Geologic map of part of Marion County: Aaronson, 1.

Nickel deposits of Missouri: Cornwall, 1.

Engineering geology of Kaysinger Bluff and Stockton Dams, west-central Missouri: Loepp, 1.

Geology, soils and materials in the Meramec River basin: U. S. Army Engineers, 1.

GILMORE CITY FORMATION

Paleozoic rocks in northern Missouri: Koenig, 1.

GRAND FALLS FORMATION

Solution thinning of host-rock limestone in the Tri-State district: Hagni, 1.

Hexagonaria in the Grand Tower Formation: Fraunfelter, 1.

GUNTER SANDSTONE MEMBER

Caves of Shannon County: Missouri Speleological Survey, 2.

HANNIBAL SHALE

Paleozoic rocks in northern Missouri: Koenig, 1.

HERTHA FORMATION

Geology of the Lees Summit Quadrangle: Lohrengel, 1.

HUNTON GROUP

Paleozoic rocks in northern Missouri: Koenig, 1.

IOLA FORMATION

Geology of the Lees Summit Quadrangle: Lohrengel, 1.

JEFFERSON CITY DOLOMITE

Paleozoic rocks in northern Missouri: Koenig, 1.

Geology of the Festus and Selma Quadrangles: Schmitz, 1.

JOACHIM FORMATION

Conodonts from the Joachim Formation (Ordovician) of eastern Missouri: Andrews, 1.

Paleozoic rocks in northern Missouri: Koenig, 1.

Geology of the Festus and Selma Quadrangles: Schmitz, 1.

KANSAS CITY GROUP

Paleozoic rocks in northern Missouri: Koenig, 1.

Geology of the Lees Summit Quadrangle: Lohrengel, 1.

Petrology of the Swope and Dennis Formations (Pennsylvanian): Payton, 1.

KEOKUK FORMATION

Solution thinning of the host-rock limestone in the Tri-State district: Hagni, 1.

Paleozoic rocks in northern Missouri: Koenig, 1.

Deep-water sediments adjacent to the Borden Siltstone (Mississippian) delta in southern Illinois: Lineback, 1.

Analyses of chert-free limestone in Cherokee County, Kansas: Waugh, 1.

KIMMSWICK FORMATION

Ordovician chitinozoa from Missouri: Echols, 1.

Paleozoic rocks in northern Missouri: Koenig, 1.

Geology of the Festus and Selma Quadrangles: Schmitz, 1.

KINDERHOOKIAN SERIES

Paleozoic rocks in northern Missouri: Koenig, 1.

LADORE FORMATION

Geology of the Lees Summit Quadrangle: Lohrengel, 1.

LAMOTTE SANDSTONE

Paleozoic rocks in northern Missouri: Koenig, 1.

Geologic characteristics of Precambrian hills in southeastern Missouri: Palmer, 1.

LANE SHALE

Geology of the Lees Summit Quadrangle: Lohrengel, 1.

LANSING GROUP

Paleozoic rocks in northern Missouri: Koenig, 1.

LEAVENWORTH LIMESTONE MEMBER

Application of factor analysis to a facies study of the Leavenworth Limestone (Pennsylvanian): Toomey, 1.

LOUISIANA LIMESTONE

Paleozoic rocks in northern Missouri: Koenig, 1.

MAQUOKETA FORMATION

Ordovician chitinozoa from Missouri: Echols, 1.

Paleozoic rocks in northern Missouri: Koenig, 1.

Geology of the Festus and Selma Quadrangles: Schmitz, 1.

MARMATON GROUP

Paleozoic rocks in northern Missouri: Koenig, 1.

MERAMECIAN SERIES

New spinose Mississippian productid brachiopods: Gordon, 1.

Paleozoic rocks of northern Missouri: Koenig, 1.

Meramecian conodont faunas from quarries in St. Louis County: Thompson, 1.

MISSISSIPPIAN SYSTEM

Sole marks in Atoka rocks: Branson, 1.

St. Louis ... its geologic aspect: Brill, 1.

Geology of the M Bed limestone in the Tri-State district: Desai, 1.

New spinose early Meramec productid brachiopods: Gordon, 1.

Solution thinning of the host-rock limestone in the Tri-State district: Hagni, 1.

Paleozoic rocks of northern Missouri: Koenig, 1.

Deep-water sediments adjacent to the Borden Siltstone delta in southern Illinois: Lineback, 1.

Structural features of St. Louis County: McCracken, 1.

Ontogeny of the Mississippian blastoid genus Orphocrinus: Macurda, 1.
 Guidebook to Ordovician and Mississippian strata in St. Louis and

St. Charles Counties: Martin, J. A., 1.

Banded agate found at St. Louis: Ozment, 1.

Caves of St. Louis County: Missouri Speleological Survey, 1.

Devonian and Lower Mississippian charophytes of North America:

Peck, 1.

Geology of the Festus and Selma Quadrangles: Schmitz, 1.

Paleocurrent study of rocks in the frontal Ouachita Mountains and

Arkansas Valley: Sullivan, 1.

Meramecian conodont faunas from quarries in St. Louis County:

Thompson, 1.

Analyses of chert-free beds in the Keokuk Limestone, Cherokee County,

Kansas: Waugh, 1.

Borden Formation in southern Kentucky: Weir, 1.

MISSOURIAN SERIES

Geology of the Lees Summit Quadrangle: Lohrengel, 1.

Paleozoic rocks in northern Missouri: Koenig, 1.

Petrology of the Swope and Dennis Formations (Pennsylvanian):

Payton, 1.

NORTHVIEW FORMATION

Sole marks in Atoka rocks: Branson, 1.

ORDOVICIAN SYSTEM

Conodonts from the Joachim Formation of eastern Missouri: Andrews, 1.

St. Louis ... its geologic aspect: Brill, 1.

Algal stromatolites in the Willow River Dolomite: Davis, 1.

Ordovician chitinozoa from Missouri: Echols, 1.

Paleozoic rocks in northern Missouri: Koenig, 1.

Brachiopod genus Lepidocyclus from the Cape (Fernvale) Limestone:

Howe, H. J., 1.

Ordovician digitate algal stromatolites: Howe, W. B., 1.

Structural features of St. Louis County: McCracken, 1.

Guidebook to Middle Ordovician and Mississippian strata of St. Louis

and St. Charles Counties: Martin, J. A., 1.

Caves of St. Louis County: Missouri Speleological Survey, 1.

- Caves of Shannon County: Missouri Speleological Survey, 2.
 Geological characteristics of Precambrian hills of southeastern Missouri, Palmer, 1.
 Geology of the Festus and Selma Quadrangles: Schmitz, 1.
 Agstone firm operates versatile plant: Trauffer, 1.

OREAD LIMESTONE

- Application of factor analysis to a facies study of the Leavenworth Limestone (Pennsylvanian): Toomey, 1.

OSAGEAN SERIES

- Paleozoic rocks in northern Missouri: Koenig, 1.
 Analyses of chert-free beds in the Keokuk Limestone, Cherokee County, Kansas: Waugh, 1.

PENNSYLVANIAN SYSTEM

- Fossil flora of the Drywood Formation of southwestern Missouri: Basson, 1.
 A new middle Pennsylvanian fossil fungus: Batra, 1.
 St. Louis ... its geologic aspect: Brill, 1.
 Twelve maps summarizing the geologic framework of southeastern Nebraska: Burchett, 1.
 Quartz pebbles and feldspar crystals in Pennsylvanian channel-fill deposits: Gentile, 1.
 The Englevale channel sandstone: Howard, 1.
 Origin and distribution of solid oil in western Missouri: Jasim, 1.
 Paleozoic rocks in northern Missouri: Koenig, 1.
 Geology of the Lees Summit Quadrangle: Lohrengel, 1.
 Structural features of St. Louis County: McCracken, 1.
 Petrology of the Swope and Dennis Formations (Pennsylvanian): Payton, 1.
 Geology of the Festus and Selma Quadrangles: Schmitz, 1.
 Paleocurrent study of rocks in the frontal Ouachita Mountains and Arkansas Valley: Sullivan, 1.
 Application of factor analysis to a facies study of the Leavenworth Limestone: Toomey, 1.
 Deerfield pilot test of oil recovery by steam drive: Valleroy, 1.

PLATTIN LIMESTONE

- Ordovician chitinozoa from Missouri: Echols, 1.
- Paleozoic rocks in northern Missouri: Koenig, 1.
- Geology of the Festus and Selma Quadrangles: Schmitz, 1.
- Agstone firm operates versatile plant: Trauffer, 1.

PLEASANTON GROUP

- Paleozoic rocks in northern Missouri: Koenig, 1.
- Geology of the Lees Summit Quadrangle: Lohrengel, 1.

PLEISTOCENE SERIES

- Soil moisture of a northwest Missouri landscape: Gilbert, 1.
- Pleistocene and surficial geology of the St. Louis area: Goodfield, 2.
- Geomorphology and glacial history of the St. Louis area: Goodfield, 1.
- Pleistocene and Recent geology of the southwest Ozark plateaus:
Knox, 1.
- Notes on Missouri Pleistocene peccaries: Mehl, 1.
- Grundel mastodon: Mehl, 2.

POTOSI DOLOMITE

- Cambrian and Ordovician digitate algal stromatolites: Howe, W. B., 1.
- Paleozoic rocks in northern Missouri: Koenig, 1.
- Caves of Shannon County: Missouri Speleological Survey, 2.
- Geologic characteristics of Precambrian hills of southeastern
Missouri: Palmer, 1.
- Missouri Upper Cambrian Monoplacophora: Stinchcomb, 1.

POWELL FORMATION

- Geology of the Festus and Selma Quadrangles: Schmitz, 1.

PRECAMBRIAN SYSTEM

- Basement rocks in Missouri: Denison, 1.
- Magnetic investigation of ore, host-rock and basic dike specimens
from the Precambrian Iron Mountain deposit: Erlich, 1.
- Paleomagnetic investigation of Precambrian igneous rocks of south-
east Missouri: Hays, 1.
- Paleomagnetic properties of some Precambrian rocks in Missouri: Hsu, 1.
- Alkali syenite near Johnson Shut-ins State Park: Kisvarsanyi, E. B., 3.
- Geochemical and petrological study of the Precambrian iron metallo-
genic province of southeast Missouri: Kisvarsanyi, Geza, 1.

- Structural features of St. Louis County: McCracken, 1.
 Caves of Shannon County: Missouri Speleological Survey, 2.
 Geochronology of the Midcontinent region: Muehlberger, 1.
 Geological characteristics of Precambrian hills of southeastern Missouri: Palmer, 1.
 Petrographic and modal analysis of the andesite of Marble Creek in southeastern Missouri: Satterfield, 1.
 Precambrian iron deposits in Missouri: Snyder, 1.
 Heat flow in the Boss deposit of Missouri: Stainbrook, 1.
 Thermal demagnetization of some Precambrian igneous rocks of Missouri: Vincenz, 1.

QUATERNARY SYSTEM

- Emerged Quaternary shore lines in the Mississippi embayment: Cooke, 1.
 Geomorphology and glacial history of the St. Louis area: Goodfield, 1.
 Pleistocene and surficial geology of the St. Louis area: Goodfield, 2.
 Pleistocene and Recent geology of the southwest Ozark plateaus: Knox, 1.
 Stratigraphic section (Pleistocene): Martin, J. A., 2.
 Notes on Missouri Pleistocene peccaries: Mehl, 1.
 Grundel mastodon: Mehl, 2.
 Geology of the Festus and Selma Quadrangles: Schmitz, 1.

RIVERTON FORMATION

- Origin and distribution of solid oil in mid-western Missouri: Jasim, 1.

ROUBIDOUX FORMATION

- Cambrian and Ordovician digitate algal stromatolites: Howe, W. B., 1.
 Paleozoic rocks in northern Missouri: Koenig, 1.
 Caves of Shannon County: Missouri Speleological Survey, 1.
 Geological characteristics of Precambrian hills of southeastern Missouri: Palmer, 1.

STE. GENEVIEVE FORMATION

- Late Meramecian conodont faunas from quarries in St. Louis County: Thompson, 1.

ST. LOUIS FORMATION

- Banded agate found at St. Louis: Ozment, 1.

Late Meramecian conodont faunas from quarries in St. Louis County:

Thompson, 1.

ST. PETER SANDSTONE

Paleozoic rocks in northern Missouri: Koenig, 1.

Geology of the Festus and Selma Quadrangles: Schmitz, 1.

SALEM FORMATION

New spinose early Meramec productid brachiopods: Gordon, 1.

Paleozoic rocks in northern Missouri: Koenig, 1.

Deep-water sediments adjacent to the Borden Siltstone (Mississippian)
delta in southern Illinois: Lineback, 1.

Late Meramecian conodont faunas from quarries in St. Louis County,
Thompson, 1.

SAVERTON-GRASSY CREEK FORMATION

Paleozoic rocks in northern Missouri: Koenig, 1.

SEVILLE FORMATION

Origin and distribution of solid oil in western Missouri: Jasim, 1.

SILURIAN SYSTEM

Stromatoporoidea of Missouri: Birkhead, 1.

Paleozoic rocks in northern Missouri: Koenig, 1.

SNYDER CREEK SHALE

Devonian and Lower Mississippian charophytes of North America:
Peck, 1.

SWOPE FORMATION

Geology of the Lees Summit Quadrangle: Lohrengel, 1.

Petrology of the Swope and Dennis Formations (Pennsylvanian):
Payton, 1.

TERTIARY SYSTEM

Emerged Quaternary shore lines in the Mississippi embayment: Cooke, 1.
Pleistocene and Recent geology of the southwest Ozark plateaus:
Knox, 1.

VALMEYERAN SERIES

Deep-water sediments adjacent to the Borden Siltstone (Mississippian)
delta: Lineback, 1.

VIRGILIAN SERIES

Application of factor analysis to a facies study of the Leavenworth
Limestone: Toomey, 1.

WARNER FORMATION

Origin and distribution of solid oil in western Missouri: Jasim, 1.
Deerfield pilot test of oil recovery by steam drive: Valleroy, 1.

WARRENSBURG SANDSTONE MEMBER

Quartz pebbles and feldspar crystals in Pennsylvanian channel-fill
deposits: Gentile, 1.
Origin and distribution of solid oil in western Missouri: Jasim, 1.

WARSAW FORMATION

New spinose Mississippian productid brachiopods: Gordon, 1.
Solution thinning of the M Bed host-rock in the Tri-State district:
Hagni, 1.
Paleozoic rocks in northern Missouri: Koenig, 1.
Late Meramecian conodont faunas from quarries in St. Louis County:
Thompson, 1.

WYANDOTTE FORMATION

Geology of the Lees Summit Quadrangle: Lohrengel, 1.

STRUCTURE

CRYPTOEXPLOSIVE STRUCTURES

Causes of cryptoexplosive structures: Bucher, 1.

FAULTS

Geophysical evidence for a northeast-trending structural lineament
near St. Louis: Mateker, 1.
Geological characteristics of Precambrian hills of southeastern
Missouri: Palmer, 1.
Geology, soils and materials in the Meramec River basin: U. S. Army
Engineers, 1.

GENERAL

Geology of the M Bed limestone in the Tri-State district: Desai, 1.
Ozark "overthrusts" vs. Ozark "onlappers": Forgotson, 1.
Paleozoic rocks in northern Missouri: Koenig, 1.
Structural features of St. Louis County: McCracken, 1.

- Geology of the Festus and Selma Quadrangles: Schmitz, 1.
Heat flow in the Boss deposit of Missouri: Stainbrook, 1.

MISCELLANEOUS

BIBLIOGRAPHIES

- Bibliography of terrestrial impact structures: Freeburg, 1.
Bibliography of hydrology of the United States, 1963: Randolph, 1.
Geologic literature of the lower Mississippi Valley: Saucier, 1.

BOUNDARIES

- Boundaries of the United States and the several states: Van Zandt, 1.

DIRECTORY

- Directory of Missouri geologists and geophysicists: Fitzgerald, 1.

HEAT FLOW

- Heat flow in the Boss deposit of Missouri: Stainbrook, 1.

HISTORY

- Early lime industry: Bray, 1.
Speleology in Missouri - 1966: Brod, 1.
Archaeological investigations: Marshall, 1.
The New Madrid earthquake land claims: Saalberg, 1.
History of the Missouri Speleological Survey: Vineyard, 1.

MEMORIALS

- Memorials to Maurice Goldsmith Mehl: Branson, 2; Ellison, 1;
Vineyard, 2.

METEORITES

- Meteorite collections of Yale University: Turekian, 1.
The Butler meteorite: Goldstein, 1; Wasson, 1.

REPORT, STATE GEOLOGIST

- Biennial report of the State Geologist to the 74th General Assembly,
1964-1966: Hayes, 1.

SCENIC HIGHWAY

- Geology and road log along Highway 21 in Jefferson and Washington
Counties: Fellows, 1, 2.

URBAN DEVELOPMENT

- Geology, land use and urban development: Fellows, 2.

MAPS

AEROMAGNETIC

Mapping programs of the Missouri Geological Survey: Hayes, 2.

GEOLOGIC

Geologic map of a part of Marion County: Aaronson, 1.

Geological highway map of the Midcontinent region: Am. Assoc.

Petroleum Geologists, 1.

Twelve maps summarizing the geologic framework of Nebraska:

Burchett, 1.

Structural map of the M Bed limestone in the Tri-State district:

Desai, 1.

Mapping programs of the Missouri Geological Survey: Hayes, 2.

Geology of the Lees Summit Quadrangle: Lohrengel, 1.

Geology of the Festus and Selma Quadrangles: Schmitz, 1.

HYDROLOGIC

Temperature of surface waters in the conterminous United States:

Blakey, 1.

Annual runoff in the conterminous United States: Busby, 1.

MINERAL RESOURCES

Mineral resources and mineral industry of the Meramec River basin,

Missouri: U. S. Bureau of Mines, 1.

TOPOGRAPHIC

Mapping programs of the Missouri Geological Survey: Hayes, 2.