

STATE OF OHIO
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL SURVEY
Horace R. Collins, Chief

Information Circular No. 37

BIBLIOGRAPHY OF OHIO GEOLOGY
1966 - 1970

compiled by
Pauline Smyth

Columbus
1972

SCIENTIFIC AND TECHNICAL STAFF
OF THE
OHIO DIVISION OF GEOLOGICAL SURVEY

ADMINISTRATIVE SECTION

Horace R. Collins, MS, *State Geologist and Division Chief*
David K. Webb, Jr., PhD, *Geologist and Assistant Chief*

Jean Simmons Brown, MS, *Geologist and Editor*
William J. Buschman, Jr., BS, *Administrative Geologist*
Michael C. Hansen, BS, *Geologist*
Karen M. Harper, BS, *Geologist*
Pauline Smyth, MS, *Geologist*
Eleanor J. Hyle, *Secretary*
W. Alfredia Moore, *Clerk-Typist*

REGIONAL GEOLOGY SECTION

Richard A. Struble, PhD, *Geologist and Section Head*
Richard W. Carlton, PhD, *Geologist*
Michael L. Couchot, MS, *Geologist*
Richard M. DeLong, MS, *Geologist*
David S. Fullerton, PhD, *Geologist*
Gerald H. Groenewold, PhD, *Geologist*
Norman F. Knapp, MS, *Chemist*
Arthur H. Morth, PhD, *Chemical Engineer*
Donald L. Streib, PhD, *Geochemist*
David A. Stith, MS, *Geologist*
Joel D. Vormelker, MS, *Geologist*
Frederick L. Rice, *Laboratory Technician*

SUBSURFACE GEOLOGY SECTION

Adriaan Janssens, PhD, *Geologist and Section Head*
Michael J. Clifford, BS, *Geologist*
Jeffrey B. Hermann, BS, *Geologist*
Barbara J. Adams, *Clerk-Typist*
B. Margalene Crammer, *Clerk*
James Wooten, *Geologist Aide*

LAKE ERIE SECTION

David K. Webb, Jr., PhD, *Geologist and Acting Section Head*
Lawrence L. Braidech, BS, *Geologist*
Charles H. Carter, PhD, *Geologist*
Walter R. Lemke, *Boat Captain*
Dale L. Liebenthal, *Geologist Aide*
Lynn M. Gerold, *Clerk-Typist*

PUBLICATIONS SECTION

Harold J. Flint, *Cartographer and Section Head*
James A. Brown, *Cartographer*
Donald R. Camburn, *Cartographer*
Phillip J. Celnar, BFA, *Cartographer*
James E. Hairston, *Cartographer*
Leslie R. Lewis, BFA, *Cartographer*
Jean J. Miller, *Photocopy Composer*

STATE OF OHIO
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL SURVEY
Horace R. Collins, Chief

Information Circular No. 37

BIBLIOGRAPHY OF OHIO GEOLOGY
1966 - 1970

compiled by
Pauline Smyth

Columbus
1972



BIBLIOGRAPHY OF OHIO GEOLOGY 1966-1970

compiled by
Pauline Smyth

INTRODUCTION

This bibliography brings up to December 1970 the Ohio Division of Geological Survey bibliographies of publications on Ohio geology. These bibliographies and the years they cover are as follows:

Bulletin 52: Bibliography of Ohio Geology, 1819-1950
Information Circular 32: Bibliography of Ohio Geology, 1951-1960
Information Circular 36: Bibliography of Ohio Geology, 1961-1965
Information Circular 37: Bibliography of Ohio Geology, 1966-1970

These publications list and index articles and books about the geology of Ohio. Abstracts of articles are included as well as unpublished theses and dissertations. Authors' usage is followed in capitalization of stratigraphic names.

Only the publications of the Ohio Division of Geological Survey are available at the Survey office. Other publications may be seen in libraries - especially The Ohio State University Library, other university libraries, and many public libraries.

Articles are indexed by the principal subject matter and by the area of the state covered. The county is the basic unit of area used in the index.

ABBREVIATIONS

abs.	abstract(s)	fig(s).	figure(s)	Ph. D.	Doctor of Philosophy
acad.	academy	geochim.	geochemical	pl(s).	plate(s)
adv.	advancement	geog.	geographic(al)	proc.	proceedings
agr.	agricultural	geol.	geologic(al), géologique	prof.	professional
Am.	American	geophys.	geophysical	prog.	progress
ann.	annual	geosci.	geoscience	pt(s).	part(s)
app.	appendix	hydrol.	hydrologic(al)	pub.	publication
art.	article	illus.	illustrated	rec.	record
assoc.	association	indus.	industrial	rept.	report
bull(s).	bulletin(s)	inf.	information	sci.	scientific
bur.	bureau	inst.	institute, institution	sec.	section
circ.	circular	internat.	international	sed.	sedimentary
comm.	commission	inv.	investigation(s)	seismol.	seismological
conf.	conference	jour.	journal	ser.	series
cong.	Congress, congrès	kgl.	königlich	sess.	session(s)
conserv.	conservation	mem.	memoir	soc.	society
cosmochim.	cosmochemical	misc.	miscellaneous	spec.	special
contr.	contribution(s)	mon.	monograph	sta.	station
dept.	department	M. S.	Master of Science	strat.	stratigraphic
dissert.	dissertation	mtg.	meeting	tech.	technical
distrib.	distribution	mus.	museum	trans.	transactions
div.	division	nat.	natural	univ.	university
econ.	economic	natl.	national	unpub.	unpublished
ed(s).	editor(s)	no.	number	v.	volume
educ.	educational	p.	page(s)	vetanskapsakad.	vetenskapsakademi
eng.	engineering	paleont.	paleontological	volcanol.	volcanologique
expt.	experiment				



County map of Ohio

BIBLIOGRAPHY

- ABBOTT, MAXINE L.**
1968. Lycopoid stems and roots and sphenopsis fructifications and stems from the Upper Freeport coal of southeastern Ohio: *Palaeontographica Americana*, v. 6, no. 38, p. 5-49, 19 pls.; *Abs. North Am. Geology*, Mar. 1969, p. 335.
- ABBOTT, WILLIAM L.** See Risley, C., 1966
- ABRUSCATO, JOSEPH.** See Hassard, J. R., 1969
- ACKROYD, EARL A.** See Walton, W. C., 1966
- AHMAD, MOID UDDIN**
1970. A hydrological approach to control acid mine pollution for Lake Hope: *Ground Water*, v. 8, no. 6, p. 19-24, 14 figs.; *Abs. North Am. Geology*, June 1971, p. 889.
- ALDRICH, MERRITT J., JR.**
1969. Pore pressure effects on Berea Sandstone subjected to experimental deformation: *Geol. Soc. America Bull.*, v. 80, no. 8, p. 1577-1586, 10 figs.; *Abs. North Am. Geology*, Dec. 1969, p. 1784.
- ALI, SYED AFAQ**
1967. Kope and Fairview sedimentary structures: Brown and Adams Counties, Ohio: The Ohio State Univ., M. S. thesis (unpub.), 130 p., 46 figs.
- ALKIRE, ROBERT L.** See Norling, D. L., 1966, 1967
- ALLEN, DAVID.** See Norton, N. J., 1970
- AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS**
1967 (and U. S. Geological Survey). Basement map of North America between latitudes 24° and 60° N.: U. S. Geol. Survey, scale 1:5,000,000.
- AMERMAN, C. R.** See Jamieson, D. G., 1969
- ANDELFINGER, GEORGE F.**
1966 (and Fiedelman, Howard W.). Properties of the impurities in northern rock salt, in *Symposium on salt, 2nd - v. 1, Geology, geochemistry, mining*: Cleveland, Ohio, Northern Ohio Geol. Soc., p. 365-368, 7 figs.; *Abs. North Am. Geology*, Jan. 1967, p. 3.
- ANDERSON, B. A.**
1968a (and Ham, C. B.). Index of surface-water records to September 30, 1967 - pt. 3, Ohio River basin: U. S. Geol. Survey Circ. 573, 66 p., 1 fig.
1968b (and Ham, C. B.). Index of surface-water records to September 30, 1967 - pt. 4, St. Lawrence River basin: U. S. Geol. Survey Circ. 574, 39 p., 1 fig.
- ANDERSON, R. J.** See Weibel, S. R., 1964
- ANDERSON, T. W.** See Lewis, C. F. M., 1966
- ANSTEY, ROBERT L.**
1969a (and Perry, T. G.). Redescription of cotypes of *Peronopora vera* Ulrich, a Cincinnati (Late Ordovician) ectoproct species: *Jour. Paleontology*, v. 43, no. 2, p. 245-251, 1 fig., 2 pls.; *Abs. North Am. Geology*, Jan. 1970, p. 3.
1969b (and Fowler, Michael L.). Lithostratigraphy and depositional environment of the Eden Shale (Ordovician) in the tri-state area of Indiana, Kentucky, and Ohio: *Jour. Geology*, v. 77, no. 6, p. 668-682, 5 figs.; *Abs. North Am. Geology*, May 1970, p. 658-659.
1970. The trepostome bryozoan fauna of the Eden Shale (Ordovician) in southeastern Indiana and adjacent areas in Kentucky and Ohio: Indiana Univ., Ph. D. dissert. (unpub.); *Dissert. Abs. Internat.*, sec. B, *Sci. and Eng.*, v. 31, no. 4, p. 2157B.
- ANTTILA, PETER W.**
1970. A proposed streamflow data program for Ohio: U. S. Geol. Survey Open-File Rept. 10, 62 p., 3 figs.
- AULT, CURTIS H.** See Rooney, L. F., 1970
- AVERITT, PAUL**
1968. Stripping-coal resources of the United States: U. S. Geol. Survey Bull. 1252-C, 20 p.; *Abs. North Am. Geology*, Sept. 1968, p. 1278-1279.
1969. Coal resources of the United States, January 1, 1967: U. S. Geol. Survey Bull. 1275, 116 p.; *Abs. North Am. Geology*, June 1969, p. 855.
1970. Stripping-coal resources of the United States, January 1, 1970: U. S. Geol. Survey Bull. 1322, 34 p., 1 fig.; *Abs. North Am. Geology*, Mar. 1971, p. 369.
- BAILEY, NORMAN G.** See Hassemer, J. H., 1966
- BAILEY, THOMAS C., III**
1968. A geochemical and petrologic study of Core MQ-63-1 penetrating the Columbus Limestone and Detroit River Group at Marblehead, Ohio: Bowling Green State Univ., M. S. thesis (unpub.), 147 p., 4 figs., 1 pl. (Copy in files of Ohio Geol. Survey.)
- BAIRD, DONALD.** See Carroll, R. L., 1968a, b
- BAKER, HERBERT**
1967. The geology of the Gaysport and Skelley Limestones in Athens, Meigs, Morgan, and Perry Counties, Ohio: Ohio Univ., M. S. thesis (unpub.), 147 p., 36 figs. (including 2 geol. maps), 2 pls.
- BAKER, N. M.** See Randolph, J. R., 1969
- BANKS, PHILIP O.**
1970a. General geology of northeastern Ohio, in Banks, P. O., and Feldmann, Rodney M., eds., *Guide to the geology of northeastern Ohio*: Northern Ohio Geol. Soc., p. 1-8, 3 figs.
1970b (and Feldmann, Rodney M., eds.). *Guide to the geology of northeastern Ohio*: Northern Ohio Geol. Soc., 168 p., illus.
- BAPTISTA, BRAULIO M.**
1969. Petrology of the limestones of the Arnheim Formation (Cincinnati Series) from western Butler County, Ohio: Miami Univ., M. S. thesis (unpub.).
- BARCLAY, CRAIG C.**
1968. Sedimentary structures and depositional history of the coarse clastics of the Cuyahoga Formation in northern Ohio: Kent State Univ., M. S. thesis (unpub.).
- BARLOW, JAMES**
1969 (and Donaldson, Alan C.). The field trip, in *Some Appalachian coals and carbonates: models of ancient shallow-water deposition* - Geological Society America Coal Division field trip, Nov. 1969: Morgantown, West Virginia Geol. and Econ. Survey, p. 5-53, 15 figs.

- BARNES, CHRISTOPHER R. See Sweet, W. C., 1970c
- BARNES, HARRY H., JR.
1967. Roughness characteristics of natural channels: U. S. Geol. Survey Water-Supply Paper 1849, 213 p., illus.
- BAROFFIO, JAMES R. See also Wanless, H. R., 1969
1966 (and Wanless, Harold R.). Pennsylvanian environments of the lower Allegheny Series in the Appalachian coal basin, in Abstracts for 1965: Geol. Soc. America Spec. Paper 87, p. 9-10.
- BARR, JIM L. See Pryor, Wayne A., 1968
- BARTON, WILLIAM R.
1968. Dimension stone: U. S. Bur. Mines Inf. Circ. 8391, 147 p., 26 figs.; Abs. North Am. Geology, Mar. 1969, p. 340.
- BASHE, ROBERT W.
1967. Trempealeau remnants defined by dipmeter surveys, in Kentucky Oil and Gas Assoc., 29th ann. mtg., 1965, Proc. tech. sess.: Kentucky Geol. Survey, ser. 10, Spec. Pub. 14, p. 56-62, 6 figs.
- BASSARAB, DENNIS R.
1968 (and Huff, Warren D.). Clay mineralogy of Kope and Fairview Formations (Cincinnatian) in Cincinnati area (abs.): Am. Assoc. Petroleum Geologists Bull., v. 52, no. 3, p. 520.
1969 (and Huff, W. D.). Clay mineralogy of Kope and Fairview Formations (Cincinnatian) in the Cincinnati area: Jour. Sed. Petrology, v. 39, no. 3, p. 1014-1022, 11 figs.; Abs. North Am. Geology, Apr. 1970, p. 507.
- BATES, ROBERT G. See also Cohee, G. V., 1970
1966a. Aeroradioactivity survey and areal geology of the Pittsburgh area, Pennsylvania, Ohio, West Virginia, and Maryland (ARMS-I): U. S. Atomic Energy Comm. Civil Effects Study CEX-59. 4. 12, 19 p., 5 figs.; Abs. North Am. Geology, Feb. 1967, p. 162; Geophys. Abs., no. 243, p. 380, 1967.
1966b. Aeroradioactivity survey and areal geology of parts of Ohio and Indiana (ARMS-I): U. S. Atomic Energy Comm. Civil Effects Study CEX-59. 4. 23, 19 p., 5 figs.; Abs. North Am. Geology, Oct. 1966, p. 1035; Geophys. Abs., no. 238, p. 1009-1010.
1966c. Natural gamma aeroradioactivity map of the Pittsburgh area, Pennsylvania, Ohio, West Virginia, and Maryland: U. S. Geol. Survey, Geophys. Inv. Map GP-555, 1 sheet with text; Abs. North Am. Geology, Nov. 1966, p. 1149; Geophys. Abs., no. 240, p. 61, 1967.
- BATES, ROBERT L. See also Spieker, E. M., 1969
1966. Geology of cement raw materials in Ohio - a summary, in Symposium on geology of industrial minerals, 2nd, 1966, Proc.: Bloomington, Ind., Indiana Geol. Survey and Indiana Univ., p. 23-29, 1 fig.; Abs. North Am. Geology, Dec. 1967, p. 1637.
1969. Abraded ripple-marked surface in Columbus limestone, central Ohio: Geol. Soc. America Abs. with Programs 1969, pt. 6, North-Central Sec., p. 2.
- BATES, THOMAS F.
1958 (and Strahl, Erwin O.). Mineralogy and chemistry of uranium-bearing black shales: United Nations Internat. Conf. Peaceful Uses Atomic Energy, 2nd, Geneva, 1958, Proc., v. 2, p. 407-411; University Park, Pa., Pennsylvania Univ. Dept. Mineralogy and Petrology, 7 p. (Tech. Rept. NYO-7909, prepared for U. S. Atomic Energy Comm.).
- BATORY, DANA
1969. Pugh Quarry, Custar, Ohio: Rocks and Minerals, whole no. 353, v. 44, no. 2, p. 101.
- BAUDER, J. R. See Christman, R. L., 1968
- BAUER, DANIEL P.
1968. Time of travel of water in the Great Miami River, Dayton to Cleves, Ohio: U. S. Geol. Survey Circ. 546, 15 p., 8 figs.
- BAY, CHARLES A., JR.
1968. Hydrology, in Manual of color aerial photography: Falls Church, Va., Am. Soc. Photogrammetry, p. 404-405, illus.; Abs. North Am. Geology, Dec. 1968, p. 1774.
- BEABER, H. C.
1965 (and Rostvedt, J. O.). Floods of March 1964 along the Ohio River: U. S. Geol. Survey Water-Supply Paper 1840-A, 158 p.
- BEBOUT, D. G.
1966. Upper Pennsylvanian Conemaugh corals from Ohio: Kansas Univ. Paleont. Contr., Paper 6, 7 p., 2 figs., 4 pls.; Abs. North Am. Geology, May 1967, p. 573.
- BECKER, LEROY E.
1968 (and Patton, John B.). World occurrence of petroleum in pre-Silurian rocks: Am. Assoc. Petroleum Geologists Bull., v. 52, no. 2, p. 224-245, 13 figs.; Abs. North Am. Geology, July 1968, p. 934.
- BEDNAR, GENE A.
1968 (and Collier, Charles R., and Cross, William P.). Analysis of water quality of the Mahoning River in Ohio: U. S. Geol. Survey Water-Supply Paper 1859-C, 32 p., 21 figs., 1 pl.
- BEETON, ALFRED M.
1969 (and Moffett, James W., and Parker, Dana C.). Comparison of thermal data from airborne and vessel surveys of Lake Erie, in Conf. on Great Lakes research, 12th, Ann Arbor, Mich., 1969, Proc.: Ann Arbor, Mich., Internat. Assoc. Great Lakes Research, p. 513-528, 11 figs.
- BELL, BRUCE M.
1966. An introduction to the Cincinnatian edriasteroids (Echinodermata): Univ. Cincinnati, M. S. thesis (unpub.).
- BENDLER, E. PERRY. See Connor, W. T., 1969, 1970; Norling, D. L., 1968
- BENNINGHOFF, WILLIAM S. See Stevenson, A. L., 1969
- BERGSTROM, JOHN H.
1963. Space age technology highlights Ohio cement plant: Rock Products, v. 66, no. 4, p. 65-72, 12 figs.
1965a. Columbia Cement completes Zanesville modernization: Rock Products, v. 68, no. 8, p. 50-52, 10 figs.
1965b. Going underground for limestone: Rock Products, v. 68, no. 8, p. 53-55, 8 figs.
- BERGSTRÖM, STIG M. See also Sweet, W. C., 1970a, b
1966 (and Sweet, Walter C.). Conodonts from the Lexington limestone (Middle Ordovician) of Kentucky and its lateral equivalents in Ohio and Indiana: Bulls. Am. Paleontology, v. 50, no. 229, p. 271-441, 13 figs., 8 pls.; GeoSci. Abs., v. 8, no. 11, p. 33; Abs. North Am. Geology, Feb. 1967, p. 163.
1969 (and Sweet, Walter C.). Ordovician conodont localities, southwestern Ohio, in Third annual meeting

- of the North-Central Section, Geological Society of America, Field trip guidebook: Columbus, Ohio Geol. Survey, p. 3-1 - 3-13, 5 figs.
- BERNHAGEN, RALPH J.** See Calvert, W. L., 1968a, b
- BERRY, W. B. N.**
1970 (and Boucot, A. J., eds.). Correlation of the North American Silurian rocks: Geol. Soc. America Spec. Paper 102, 289 p., 13 figs., 2 pls.; Abs. North Am. Geology, Dec. 1971, p. 1984.
- BERRYHILL, HENRY L., JR.**
1967a. Late Paleozoic tectonism in eastern United States as indicated by Lower Permian rocks in the Allegheny region; base and age of the Dunkard Group; and special features of the Dunkard Group, Allegheny Plateau, in Paleotectonic maps of the Permian System: U.S. Geol. Survey Misc. Geol. Inv. Map I-450, text p. 33-36, pl. 12; Abs. North Am. Geology, Mar. 1968, p. 315.
1967b. Allegheny region, Chap. A in Paleotectonic investigations of the Permian System in the United States: U.S. Geol. Survey Prof. Paper 515, p. 1-7, 2 figs., 1 pl.; Abs. North Am. Geology, Mar. 1968, p. 315.
1970. Lithofacies patterns of Upper Pennsylvanian and Lower Permian strata, Appalachian basin, and application to exploration for coal: Cong. Internat. Strat. Geol. Carbonifère (6th), Comptes rendus, v. 2, p. 487-498, 9 figs.
- BERTI, A. A.** See Lewis, C. F. M., 1966
- BIESECKER, J. E.**
1966 (and George, J. R.). Stream quality in Appalachia as related to coal-mine drainage, 1965: U.S. Geol. Survey Circ. 526, 27 p.
- BLAKELY, ROBERT F.** See Carr, D. D., 1970
- BLAKEY, J. F.**
1966. Temperature of surface waters in the conterminous United States: U.S. Geol. Survey Hydrol. Inv. Atlas HA-235, 8 p., 8 figs., 3 sheets.
- BLANKENSHIP, TERRY L.** See Neff, J. R., 1970
- BLEIMEISTER, W. C.**
1961. Rock salt mining operations in Michigan, Ohio, and Ontario: Mining Eng., May 1961, p. 467-471, 3 figs.
- BOARDMAN, RICHARD S.**
1966 (and Utgaard, John). A revision of the Ordovician bryozoan genera *Monticulipora*, *Peronopora*, *Heterotrypa*, and *Dekayia*: Jour. Paleontology, v. 40, no. 5, p. 1082-1108, 9 figs., 10 pls.
- BOLEY, DEAN W.** See Johnson, H. R., 1963
- BONEHAM, ROGER F.** See also Kesling, R. V., 1966a
1965. Occurrence of *Tasmanites*, plant spores, and Chitinozoa in Middle and Upper Devonian formations of Michigan, Ohio, and Ontario: Wayne State Univ., M. S. thesis (unpub.).
1967. Devonian *Tasmanites* from Michigan, Ontario, and northern Ohio: Michigan Acad. Sci., Arts, and Letters Papers, v. 52, p. 163-173, 2 figs., 1 pl.; Abs. North Am. Geology, April 1968, p. 476-477.
1969. Middle Devonian (Erian) chitinozoan casts from Silica, Lucas County, Ohio: Jour. Paleontology, v. 43, no. 2, p. 527-528, 6 figs.; Abs. North Am. Geology, Jan. 1970, p. 11.
- BONNETT, RICHARD B.** See Neff, J. R., 1970
- BORESKE, JOHN R., JR.**
1968. Study of the association of some Pennsylvanian age invertebrates: Earth Sci., v. 21, no. 6, p. 255-258, illus.
- BORK, KENNARD B.**
1970. Use of textural parameters in evaluating the genesis of the Berne Conglomerate (Mississippian) in central Ohio: Jour. Sed. Petrology, v. 40, no. 3, p. 1007-1017, 10 figs.; Abs. North Am. Geology, May 1971, p. 729.
- BOSTER, RONALD STEPHEN**
1967. A study of ground-water contamination due to oil-field brines in Morrow and Delaware Counties, Ohio, with emphasis on detection utilizing electrical resistivity techniques: The Ohio State Univ., Ph. D. dissert. (unpub.), 191 p., 21 figs., 11 pls.
- BOUCOT, A. J.** See also Berry, W. B. N., 1970; Gauri, K. L., 1970; Ziegler, A. M., 1970
1966 (and Johnson, J. G.). *Lissocoelina* and its homeomorph *Plicocoelina* n. gen. (Silurian, Pentameracea): Jour. Paleontology, v. 40, no. 5, p. 1037-1042, 4 pls.
1968 (and Johnson, J. G.). Brachiopods of the Bois Blanc Formation in New York: U.S. Geol. Survey Prof. Paper 584-B, 27 p., 2 figs., 8 pls.
- BOWMAN, RICHARD S.** See Calvert, W. L., 1968b
- BRACE, BENJAMIN R.**
1968. Pleistocene stratigraphy of the Hamilton quadrangle: Miami Univ., M. S. thesis (unpub.).
1969a. Till identification methods recently used in Butler and Preble Counties, Ohio: Geol. Soc. America Abs. with Programs 1969, pt. 6, North-Central Sec., p. 4.
1969b. Tests for montmorillonite and goethite in southwestern Ohio Pleistocene deposits: Compass, v. 46, no. 2, p. 109-117, 6 figs.; Abs. North Am. Geology, Dec. 1970, p. 1832.
1969c (and Coppinger, Walter W.). Fossil collecting localities visited at the 1968 Sigma Gamma Epsilon convention, Cincinnati, Ohio: Compass, v. 46, no. 2, p. 122-129, 3 figs.; Abs. North Am. Geology, Dec. 1970, p. 1833.
- BRADECH, LAWRENCE L.** See Herdendorf, C. E., 1970c
- BRANSON, CARL C.**
1962. Pennsylvanian System of central Appalachians, in Pennsylvanian System in the United States, a symposium: Tulsa, Okla., Am. Assoc. Petroleum Geologists, p. 97-116, 11 figs.
1967. Geographic and stratigraphic distribution of *Oklahomacrinus*: Oklahoma Geology Notes, v. 27, no. 4, p. 86; Abs. North Am. Geology, Oct. 1967, p. 1352.
- BRANSTRATOR, JON W.**
1969. A redescription of Hudsonasterid (Asterozoa) types: Univ. Cincinnati, M. S. thesis (unpub.).
- BRANT, RUSSELL A.**
1966. Acid mine drainage, discussion, in Water quality and recreation in Ohio, Symposium on water resources research, 2nd ann., Proc.: Columbus, The Ohio State Univ. Water Resources Center, p. 205-207.
- BREUER, JOSEPH W.** See Huff, W. D., 1968
- BRITT, N. WILSON.** See also Skoch, E. J., 1969
1968 (and Skoch, Edwin J., and Smith, Kenneth R.). Record low dissolved oxygen in the island area of Lake Erie: Jour. Sci., v. 68, no. 3, p. 175-179, 1 fig.
- BROCK, A. R.**
1970a (and Cunningham, F. L.). An inventory of Ohio

- soils, Putnam County, Ohio: Ohio Div. Lands and Soil Prog. Rept. 33, 56 p., illus., general soil map of Putnam County in pocket.
- 1970b. A general soil map of Putnam County, Ohio, including text by A. R. Brock and F. L. Cunningham: Ohio Div. Lands and Soil, map and text on one sheet; distributed with Ohio Div. Lands and Soil Prog. Rept. 33.
- BROHM, IRENE**
1969. A study of variables of crinoid columnals of Silurian and Mississippian outcrops: Geol. Soc. America Abs. with Programs 1969, pt. 6, North-Central Sec., p. 5.
- BROWN, L. F., JR.** See Fisher, W. L., 1969
- BULL, C.**
1967 (and Corbató, C. E., and Zahn, J. C.). Gravity survey of the Serpent Mound area, southern Ohio: Ohio Jour. Sci., v. 67, no. 6, p. 359-371, 5 figs.; Abs. North Am. Geology, May 1968, p. 627; Geophys. Abs., no. 256, p. 602, 1968.
- BUNCH, T. E.** See Short, N. M., 1968
- BURFORD, JAMES B.** See Hobbs, H. W., 1970
- BURGER, ANN M.**
1970a. Belfast Member, Brassfield Limestone, Silurian System, in Shaver, R. H., and others, Compendium of rock-unit stratigraphy in Indiana: Indiana Geol. Survey Bull. 43, p. 12.
1970b. Kope Formation, Cincinnati and Champlain Series, in Shaver, R. H., and others, Compendium of rock-unit stratigraphy in Indiana: Indiana Geol. Survey Bull. 43, p. 85-86.
- BURGESS AND NIPLE, LIMITED, ENGINEERS**
1967. The northwest Ohio water development plan: Ohio Water Comm., Dept. Nat. Resources, 299 p., 57 pls., photographs.
- BURKE, EMILY G.**
1970. Toward a better environment: Explorer, v. 12, no. 2, p. 8-11, illus.
- BURKE, J. J.**
1966a. *Edelocrinus kieri*, a new crinoid from the Ames Limestone: Ohio Jour. Sci., v. 66, no. 5, p. 459-464, 12 figs.
1966b. On the occurrence of *Oklahomacrinus* in Ohio and Timor: Ohio Jour. Sci., v. 66, no. 5, p. 464-468, 6 figs.
1967. Tegmen roof of *Plaxocrinus mooresi* (Whitfield): Ohio Jour. Sci., v. 67, no. 5, p. 298-300, 3 figs.; Abs. North Am. Geology, Mar. 1968, p. 320.
1968. Pachylocrinids from the Conemaugh Group, Pennsylvanian: Kirtlandia, no. 3, 18 p., 4 figs.; Abs. North Am. Geology, Mar. 1969, p. 350.
1970. Observations on the Pennsylvanian crinoid *Endelocrinus armatura* (Strimple): Kirtlandia, no. 11, 10 p., 1 pl.
- BURKETT, WILLIAM C.**
1969. Morphology and taxonomy of the Eichwaldiid brachiopods: Miami Univ., M. S. thesis (unpub.).
- BUSBY, MARK W.**
1966. Annual runoff in the conterminous United States: U. S. Geol. Survey Hydrol. Inv. Atlas HA-212, 1 sheet, maps and text.
- BUSCHMAN, WILLIAM J., JR.** See Connor, W. T., 1969, 1970; Norling, D. L., 1968
- BUSH, EDWARD A.**
1966. Drift thickness and bedrock topography of the Toledo area, Ohio: Bowling Green State Univ., M. S. thesis (unpub.), 24 p.
- CALLAHAN, ROBERT L.**
1966. Lateral distribution of clay minerals in the Harlem Coal Underclay (Ohio): West Virginia Univ., M. S. thesis (unpub.).
- CALVERT, WARREN L.**
1968a (and Bernhagen, Ralph J.). Itinerary, in Geological aspects of the Maysville-Portsmouth region, southern Ohio and northeastern Kentucky - Joint field conf., Ohio Geol. Soc. - Geol. Soc. Kentucky, 1968: Lexington, Kentucky Geol. Survey, p. 11-20, illus.
1968b (and Bernhagen, Ralph J., and Bowman, Richard S.). Detailed discussion of outcrops observed at Ohio field stops, Friday, May 17, 1968, in Geological aspects of the Maysville-Portsmouth region, southern Ohio and northeastern Kentucky - Joint field conf., Ohio Geol. Soc. - Geol. Soc. Kentucky, 1968: Lexington, Kentucky Geol. Survey, p. 21-37, illus.; Abs. North Am. Geology, Oct. 1968, p. 1448.
1968c. Surface and subsurface stratigraphy of Adams and Scioto Counties, Ohio, in Geological aspects of the Maysville-Portsmouth region, southern Ohio and northeastern Kentucky - Joint field conf., Ohio Geol. Soc. - Geol. Soc. Kentucky, 1968: Lexington, Kentucky Geol. Survey, p. 63-87, illus.; Abs. North Am. Geology, Oct. 1968, p. 1449.
- CAMP, THOMAS A.**
1968. A lithofacies and paleocurrent direction study of the Dunkard Group (Pennsylvanian-Permian) in central Dunkard Basin, West Virginia and Ohio: Miami Univ., M. S. thesis (unpub.).
- CAMPBELL, GUY**
1946. New Albany shale: Geol. Soc. America Bull., v. 57, no. 9, p. 829-903, 7 figs., 3 pls.
- CAREY, WALTER E.** See Zubkoff, P. L., 1970
- CARLSON, JOHN E.** See Willden, R., 1968
- CAROZZI, ALBERT V.** See also Textoris, D. A., 1966a, b
1967 (and Textoris, Daniel A.). Paleozoic carbonate microfacies of the Eastern Stable Interior (U. S. A.): Leiden, E. J. Brill, 41 p., 13 figs., 50 pls.
- CARPENTER, G. C., AND ASSOCIATES.** See H. C. Nutting Co., 1967
- CARR, DONALD D.**
1970 (and French, Robert R., and Blakely, Robert F.). Relationships between physical and chemical properties of the Brassfield Limestone (Silurian) in Indiana, Ohio, and Kentucky, in Forum on geology of industrial minerals, 6th, Ann Arbor, Mich., 1970, Proc.: Mich. Geol. Survey Miscellany 1, p. 127-137, 5 figs., Abs. North Am. Geology, Aug. 1971, p. 1263.
- CARROLL, ROBERT L.**
1968a (and Baird, Donald). The Carboniferous amphibian *Tuditanus (Eosaurus)* and the distinction between microsaur and reptiles: American Mus. Novitates, no. 2337, 50 p., 20 figs.; Abs. North Am. Geology, May 1969, p. 672.
1968b (and Baird, Donald). *Tuditanus (Eosaurus)* and the distinction between microsaur and reptiles: in Abstracts for 1967, Geol. Soc. America Spec. Paper 115, p. 34.
- CARSKADDEN, JEFF**

1969. A petrographic study of flint from aboriginal quarrying sites in southeastern Ohio: Denison Univ., Jour. Sci. Laboratories, v. 50, Art. 1-4, p. 22-23.
- CARTER, JOHN L.
1970 (and Carter, Ruth C.). Bibliography and index of North American Carboniferous brachiopods (1898-1968): Geol. Soc. America Mem. 128, 382 p.; Abs. North Am. Geology, July 1971, p. 1091.
- CARTER, RUTH C. See Carter, J. L., 1970
- CASTER, K. E.
1970 (and Durrell, R. H., and Jenks, W. F.). Cincinnati strata from Oregonia to the Ohio River, with notes on Pleistocene geology along the route (Warren and Clermont Counties) - Guide to the Forty-fifth annual field conference of the Section of Geology: Ohio Acad. Sci., 19 p., 9 figs.
- CASWELL, WILLIAM BRADFORD, JR.
1969. The hydrogeology of thin-limestone layers in east-central Ohio: The Ohio State Univ., Ph. D. dissert. (unpub.), 195 p., 84 figs., 6 pls.; Dissert. Abs. Internat., sec. B, Sci. and Eng., v. 30, no. 7, p. 3260B-3261B, 1970.
- CAVAROC, V. V., JR. See also Ferm, J. C., 1968
1968 (and Ferm, J. C.). Siliceous spiculites as shoreline indicators in deltaic sequences: Geol. Soc. America Bull., v. 79, no. 2, p. 263-372, 5 figs., 2 pls.
- CHALONER, W. G.
1958. *Polysporia mirabilis* Newberry, a fossil lycopod cone: Jour. Paleontology, v. 32, no. 1, p. 199-209, 3 figs., 2 pls.
- CHANNAS, JOHN
1970. Silurian producing zones of Ohio; in Silurian stratigraphy central Appalachian basin - Appalachian Geol. Soc. field conf.: Appalachian Geol. Soc., p. 99-107, 5 figs.
- CHASE, E. B. See Curtis, W. F., 1969; Rapp, J. R., 1969
- CHAU, Y. K. See Chawla, V. K., 1969
- CHAWLA, V. K.
1969 (and Chau, Y. K.). Trace elements in Lake Erie, in Conference on Great Lakes research, 12th, Ann Arbor, Mich., 1969, Proc.: Ann Arbor, Mich., Internat. Assoc. Great Lakes Research, p. 760-765, 4 figs.; Abs. North Am. Geology, Dec. 1970, p. 1841.
- CHILMAN, RUTH B. See Stumm, E. C., 1967d, 1969b
- CHRISTMAN, R. L. See also Ohio Div. Lands and Soil, 1968a
1968 (and Bauder, J. R., and Waters, D. D.). An inventory of Ohio soils, Stark County: Ohio Div. Lands and Soil Prog. Rept. 29, 29 p., illus., general soil map of Stark County in pocket.
- CISSELL, JAMES C.
1965. Oil and gas law in Ohio: Ohio Legislative Service Comm. Staff Research Rept. 63, 89 p., app., 16 figs.
- CLARKE, MURRAY K. See Moore, B. R., 1970
- CLENDENING, JOHN A. See also Jones, M. L., 1969
1969. The base of the Permian in the Appalachians; ninety years of controversy; in Some Appalachian coals and carbonates: models of ancient shallow-water deposition - Geological Society America Coal Division field trip, Nov. 1969: Morgantown, West Virginia Geol. and Econ. Survey, p. 229-233.
1970. Historical review of the age designations of the Dunkard strata in West Virginia: West Virginia Geol. Survey Newsletter, issue 14, p. 3-5, 1 fig.; Abs. North Am. Geology, July 1971, p. 1093.
- COASH, JOHN R. See Strickland, K. E., 1966
- COHEE, GEORGE V.
1970 (and Bates, Robert G., and Wright, Wilna B.). Changes in stratigraphic nomenclature by the U. S. Geological Survey, 1968: U. S. Geol. Survey Bull. 1294-A, 55 p., 4 figs.
- COLE, ALAN L.
1969. Wave forces in Lake Erie, in Conference on Great Lakes research, 12th, Ann Arbor, Mich., 1969, Proc.: Ann Arbor, Mich., Internat. Assoc. Great Lakes Research, p. 540-552, 11 figs.
- COLE, FRANK
1968. Ohio's iron kettles: Earth Science, v. 21, no. 2, p. 68.
- COLLIER, CHARLES R. See Bednar, G. A., 1968; Schroeder, M. E., 1966
- COLLINS, HORACE R. See DeBrosse, T. A., 1967; Webb, D. K., 1967
- COLSON, CALVIN T. See also Hoare, R. D., 1966
1967. The occurrence of the coral genera *Pseudozaphrentoides* and *Lophamplexus* in the Pennsylvanian of Ohio: Ohio Jour. Sci., v. 67, no. 4, p. 232-237, 1 fig., 1 pl.; Abs. North Am. Geology, Feb. 1968, p. 179.
- CONKIN, BARBARA M. See Conkin, J. E., 1968, 1970
- CONKIN, JAMES E.
1968 (and Conkin, Barbara M.). *Scalarituba missouriensis* and its stratigraphic distribution: Kansas Univ. Paleont. Contr. Paper 31, 7 p., 4 pls.
1969. Bone beds in the Middle Devonian Delaware Formation of central Ohio: Geol. Soc. America Abs. with Programs 1969, pt. 6, North-Central Sec., p. 7.
- 1970 (and Conkin, Barbara M., Sawa, Takashi, and Kern, John M.). Middle Devonian *Moellerina greenei* zone and suppression of the genus *Weikkoella* Summerson, 1958: Micropaleontology, v. 16, no. 4, p. 399-406, 1 fig., 1 pl.; Abs. North Am. Geology, Apr. 1971, p. 569-570.
- CONNOR, WAYNE T.
1969 (and DeBrosse, Theodore A., Bendler, E. Perry, Buschman, William J., and Johnson, Allan W.). Ohio, in Oil and gas developments in Maryland, Ohio, Pennsylvania, Virginia, and West Virginia: Am. Assoc. Petroleum Geologists Bull., v. 53, no. 6, p. 1203-1209, 1 fig.
- 1970 (and DeBrosse, Theodore A., Bendler, E. Perry, Buschman, William J., and Johnson, Allan W.). Ohio, in Oil and gas developments in Maryland, Ohio, Pennsylvania, Virginia, and West Virginia: Am. Assoc. Petroleum Geologists Bull., v. 54, no. 6, p. 947-950, 1 fig.
- COOGAN, ALAN H.
1970. Characteristics of a Pennsylvanian channel sandstone, southeastern Stark County, Ohio, in Banks, P. O., and Feldmann, R. M., eds., Guide to the geology of northeastern Ohio: Northern Ohio Geol. Soc., p. 139-148, 10 figs.
- COOPE, G. R.
1968. Insect remains from silts below till at Garfield Heights, Ohio: Geol. Soc. America Bull., v. 79,

- no. 6, p. 753-755; Abs. North Am. Geology, Nov. 1968, p. 1620.
- COOPER, MARGARET**
1958. Bibliography and index of literature on uranium and thorium and radioactive occurrences in the United States - pt. 5, Connecticut, Delaware, Illinois, Indiana, Maine, Maryland, Massachusetts, Michigan, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont, and Wisconsin: Geol. Soc. America Spec. Paper 67, 472 p.
- COPPINGER, WALTER W.** See also Brace, B. R., 1969c
1968. The distribution and petrology of the surficial Wisconsin loess in portions of Preble and Butler Counties, southwestern Ohio: Miami Univ., M. S. thesis (unpub.).
- CORBATO, C. E.** See Bull, C., 1967
- CRAMER, FRITZ H.**
1968 (1969) Considérations paléogéographiques à propos d'une association de microplanctontes de la série gothlandienne de Birmingham (Alabama, U. S. A.): Soc. Géol. France Bull., ser. 7, v. 10, no. 1, p. 126-131, 1 fig.; Abs. North Am. Geology, Nov. 1969, p. 1641.
- CRAWFORD, BETTY J.**
1967. Famous Flint Ridge flint: Earth Science, v. 20, no. 3, p. 118-119, 1 fig.
- CROPP, F. W.**
1969. Ohio and the Congressional System of Land Survey: Geol. Soc. America Abs. with Programs 1969, pt. 6, North-Central Sec., p. 8.
- CROSS, WILLIAM P.** See also Bednar, G. A., 1968
1966. Flood of July 23, 1965, in the vicinity of Hillsboro: Ohio Div. Water Misc. Rept. 16, 10 p., 4 pls.
1967a. Drainage areas of Ohio streams, supplement to Gazetteer of Ohio streams: Ohio Div. Water, Ohio Water Plan Inventory Rept. 12a, 61 p.
1967b. Flood of July 12, 1966, in the vicinity of Sandusky, Ohio: U. S. Geol. Survey Open-File Rept., 14 p., 2 figs.
1968. Flow duration of Ohio streams, based on gaging-station records through 1965: Ohio Div. Water Bull. 42, 68 p., 1 pl.
1969 (and Mayo, Ronald I.). Floods in Ohio, magnitude and frequency, a supplement to Bulletin 32: Ohio Div. Water Bull. 43, 230 p., 372 figs., 5 pls.
1970. Floods of July 23 in the vicinity of Hillsboro, Ohio, in Summary of floods in the United States during 1965: U. S. Geol. Survey Water-Supply Paper 1850-E, p. E81-E84, 3 figs.
- CROWL, G. H.**
1969. Guide to the Devonian stratigraphy of central Ohio - Forty-fourth annual field conference of the Section of Geology of the Ohio Academy of Science: Ohio Acad. Sci., (5) p.
- CUNNINGHAM, F. L.** See Brock, A. R., 1970a, b
- CURRENT, GEORGE T.**
1967. An investigation of the hydrology and geology of the Hocking River valley fill in Athens and Hocking Counties, Ohio: Ohio Univ., M. S. thesis (unpub.), 97 p., 9 figs., 3 pls.
- CURTIS, W. F.**
1969 (and Harris, K. F., and Chase, E. B., compilers). Edition of 1968, Catalog of information on water data, index to surface water stations: U. S. Geol. Survey, Office Water Data Coordination, 641 p., 2 figs.
- DAMBACH, CHARLES A.**
1966. Acid mine drainage control, the key to recreational development in southeastern Ohio, in Water quality and recreation in Ohio, Symposium on water resources research, 2nd ann., Proc.: Columbus, The Ohio State Univ. Water Resources Center, p. 165-186.
- DAMBERGER, HEINZ H.**
1970. Coalification patterns of Pennsylvanian coal basins of the U. S. A.: Geol. Soc. America Abs. with Programs 1970, v. 2, no. 7, Ann. mtg., p. 532.
- DANA, E. S.**
1932. The celestite locality near Clay Center, Ohio: Am. Jour. Sci., ser. 5, v. 23, p. 383.
- DAVIS, PAUL E.** See Lerch, N. K., 1969
- DAWSON, J. WILLIAM**
1862. On the flora of the Devonian Period in northeastern America: Quarterly Jour. Geol. Soc. London, v. 18, p. 296-330, 6 pls.
- DAWSON, T. A.** See also Patton, J. B., 1969
1967. Knox oil may revive Hoosier hunt: Oil and Gas Jour., v. 65, no. 51, p. 126-130, 3 figs.
- DEBROSSE, T. A.** See also Connor, W. T., 1969, 1970
1967 (and Collins, H. R.). Guide to the annual field conference of the Ohio Geological Society, April 29, 1967: Columbus, Ohio Geol. Survey, 12 p., 5 figs.
- DEIKE, R. G.** See Randolph, J. R., 1966, 1969
- DELLWIG, LOUIS F.**
1969 (and Evans, Robert). Depositional processes in Salina salt of Michigan, Ohio, and New York: Am. Assoc. Petroleum Geologists Bull., v. 53, no. 4, p. 949-956, 13 figs.; Abs. North Am. Geology, Oct. 1969, p. 1514.
- DELONG, RICHARD M.**
1967a. Bedrock geology of the South Bloomingville quadrangle, Hocking and Vinton Counties, Ohio: Ohio Geol. Survey Rept. Inv. 63, 1 sheet with text; Abs. North Am. Geology, Jan. 1968, p. 26.
1967b. Bedrock geology of the Minerva quadrangle, Stark, Columbiana, and Carroll Counties, Ohio: Ohio Geol. Survey Rept. Inv. 65, 1 sheet with text; Abs. North Am. Geology, Mar. 1968, p. 331.
1968. Bedrock geology of the Dellroy quadrangle, Carroll County, Ohio: Ohio Geol. Survey Rept. Inv. 68, 1 sheet with text; Abs. North Am. Geology, Jan. 1969, p. 30-31.
1969. Bedrock geology of the Carrollton quadrangle, Carroll County, Ohio: Ohio Geol. Survey Rept. Inv. 71, 1 sheet with text; Abs. North Am. Geology, Dec. 1969, p. 1809.
- DENISON, ROBERT H.** See Rolfe, W. D. I., 1966
- DENNISON, JOHN M.** See also Oliver, W. A., Jr., 1968b, 1969
1968 (and Textoris, Daniel A.). Stratigraphy and petrology of Devonian Tioga Ash fall in northeastern United States: in Abstracts for 1966: Geol. Soc. America Spec. Paper 101, p. 52.
1970 (and Textoris, D. A.). Devonian Tioga tuff in northeastern United States: Bull. Volcanol., v. 34, no. 1, p. 289-294, 2 figs.; Abs. North Am. Geology, July 1971, p. 1098.
- DE WITT, WALLACE, JR.** See also Oliver, W. A., Jr.,

- 1968b, 1969
1970. Age of the Bedford Shale, Berea Sandstone, and Sunbury Shale in the Appalachian and Michigan basins, Pennsylvania, Ohio, and Michigan: U. S. Geol. Survey Bull. 1294-G, p. G1-G11, 4 figs.; Abs. North Am. Geology, July 1970, p. 1033.
- DIETZ, ROBERT S.**
1968. Shatter cones in cryptoexplosion structures, in Shock metamorphism of natural materials, 1st conf., Greenbelt, Md., 1966, Proc.: Baltimore, Md., Mono Book Corp., p. 267-285, 6 pls.
- DISTLER, GEORGE E.**
1967. The morphology and taxonomy of *Zygospira* Hall (Brachiopoda): Miami Univ., M. S. thesis (unpub.).
- DOLLY, EDWARD DAWSON**
1969. Stratigraphic, structural, and geomorphological factors controlling oil accumulation in Upper Cambrian strata of central Ohio: Univ. Oklahoma, Ph. D. dissert. (unpub.); Dissert. Abs. Internat., sec. B., Sci. and Eng., v. 30, no. 7, p. 3238B-3239B, 1970.
- DONALDSON, ALAN C.** See also Barlow, J., 1969; Hoover, J. R., 1969; Streib, D. L., 1969
- 1969a (ed.). Some Appalachian coals and carbonates: models of ancient shallow-water deposition - Geological Society America Coal Division field trip, Nov. 1969: Morgantown, West Virginia Geol. and Econ. Survey, 384 p., 166 figs.
- 1969b. Ancient deltaic sedimentation (Pennsylvanian) and its control on the distribution, thickness and quality of coals, in Some Appalachian coals and carbonates: models of ancient shallow-water deposition - Geological Society America Coal Division field trip, Nov. 1969: Morgantown, West Virginia Geol. and Econ. Survey, p. 93-121, 15 figs.
- 1969c. Paleostream analysis, in Some Appalachian coals and carbonates: models of ancient shallow-water deposition - Geological Society America Coal Division field trip, Nov. 1969: Morgantown, West Virginia Geol. and Econ. Survey, p. 265-277, 3 figs.
- DOUGLAS, DALE**
- 1969a. Midwest fossils - pt. IV, Conclusion of colonial corals and notes on the little known stromatopora: Earth Science, v. 22, no. 4, p. 175-179, illus.
- 1969b. Midwest fossils - pt. VI, Brachiopods and bryozoans: Earth Science, v. 22, no. 6, p. 263-267, illus.
- 1970a. Midwest fossils - pt. VII, Mollusks: Earth Science, v. 23, no. 1, p. 23, illus.
- 1970b. Midwest fossils - pt. VIII, Worm fossils, conodonts: Earth Science, v. 23, no. 3, p. 127-134, illus.
- 1970c. Midwest fossils - pt. IX, Foraminifera, sponges: Earth Science, v. 23, no. 4, p. 191-194, illus.
- 1970d. Midwest fossils - pt. X, Trilobites: Earth Science, v. 23, no. 5, p. 250-253, illus.
- 1970e. Midwest fossils - pt. XI, Ostracodes, graptolites: Earth Science, v. 23, no. 6, p. 297-299, illus.
- DOYEL, W. W.** See Rapp, J. R., 1969
- DREES, L. R.** See Hall, G. F., 1969; Khangarot, A. S., 1969a; Wilding, L. P., 1968, 1969.
- DREIMANIS, A.**
1966. Lake Arkona-Whittlesey and post-Warren radiocarbon dates from "Ridgetown Island" in southwestern Ontario: Ohio Jour. Sci., v. 66, no. 6, p. 582-586, 1 fig.; Geophys. Abs., no. 251, p. 1287, 1967.
1968. Extinction of mastodons in eastern North America: Testing a new climatic-environmental hypothesis: Ohio Jour. Sci., v. 68, no. 6, p. 257-272 (corrected to p. 337-352), 2 figs.
1969. Late-Pleistocene lakes in the Ontario and the Erie basins, in Conference on Great Lakes research, 12th, Ann Arbor, Mich., 1969, Proc.: Ann Arbor, Mich., Internat. Assoc. Great Lakes Research, p. 170-180, 5 figs.; Abs. North Am. Geology, Dec. 1970, p. 1853.
- 1970 (and Goldthwait, Richard P.). Wisconsin glaciation in the Huron, Erie and Ontario lobal areas: Geol. Soc. America Abs. with Programs 1970, v. 2, no. 7, Ann. mtg., p. 541-542.
- DURRELL, RICHARD H.** See also Caster, K. E., 1970; Latham, H., 1969
1967. Invasion by sea and ice: Explorer, v. 9, no. 3, p. 12-16, illus.; Abs. North Am. Geology, Feb. 1968, p. 186.
1968. The Pleistocene geology of the Cincinnati area, reprinted in Sigma Gamma Epsilon, 1968 national convention, Cincinnati, Ohio - Handbook and guidebook: Cincinnati, Ohio, Sigma Gamma Epsilon, Alpha Delta Chapter, p. (42-56), illus.; originally published 1961.
- EARTH SCIENCE**
1966. Michigan, Illinois and Ohio now have state stones: Earth Science, v. 19, no. 1, p. 9-10.
- EASTIN, RENÉ**
- 1967a. Geochemical aspects of the Scioto and Olentangy Rivers at Columbus: The Ohio State Univ., M. S. thesis (unpub.), 105 p., 16 figs.
- 1967b. Geochemical aspects of the Scioto and Olentangy Rivers at Columbus, in Rept. 2, Laboratory for Isotope Geology and Geochemistry: Columbus, Dept. Geology, The Ohio State Univ., p. 90-109.
- 1970 (and Faure, G.). Seasonal variation of the solute content and the Sr⁸⁷/Sr⁸⁶ ratio of the Olentangy and Scioto Rivers at Columbus, Ohio: Ohio Jour. Sci., v. 70, no. 3, p. 170-179, 4 figs.
- EBRIGHT, J. R.**
1970. Ohio wells head for the cellar: Oil and Gas Jour., v. 68, no. 21, p. 108-109, 112-114, 5 figs.; Abs. North Am. Geology, Jan. 1971, p. 33.
- EDDY, GREG.** See Hoover, J. R., 1969
- EL BAKHBKHI, MOHAMED A.**
1970. Hydrological study of the Hocking River valley between Enterprise and Athens, Ohio: Ohio Univ., M. S. thesis (unpub.).
- ELENBAAS, J. R.** See Vary, J. A., 1968
- EMERY, C. L.**
1966. An experiment to define the strain redistribution at surface caused by a growing cavity at depth (abs.), in Symposium on salt, 2nd, v. 2, Rock mechanics, geophysics, evaporated salt, solution mining, underground storage: Cleveland, Ohio, Northern Ohio Geol. Soc., p. 103.
- ENGLAND, C. B.** See Holtan, H. N., 1968
- ERIE REGIONAL PLANNING COMMISSION**
1967. Land capability: Sandusky, Ohio, Erie Regional

- Planning Comm., 158 p., illus.
- ERNST, J. E. See Ohio Div. Lands and Soil, 1969b
- ETHINGTON, RAYMOND L. See Sweet, W. C., 1970c
- ETTENSCH, FRANK R.
1969. The influence of ground water access routes on concretionary development in proglacial lake sediments: Geol. Soc. America Abs. with Programs 1969, pt. 7, p. 59-60.
1970. The pre-Illinoian lake clays of the Cincinnati region: Univ. Cincinnati, M. S. thesis (unpub.).
- EVANS, DONALD M. See Whieldon, C. E., Jr., 1966a
- EVANS, R. D. See Swain, F. M., 1967
- EVANS, ROBERT See Dellwig, L. F., 1969
- FAGERSTROM, J. A.
1966. Biostratigraphic significance of rhipidomellid brachiopods in the Detroit River Group (Devonian): Jour. Paleontology, v. 40, no. 5, p. 1236-1238.
1967. Stratigraphic and paleogeographic significance of the Holland Quarry Shale (Lower Devonian), northwestern Ohio: Geol. Soc. America Bull., v. 78, no. 9, p. 1185-1190, 2 figs.; Abs. North Am. Geology, May 1968, p. 642.
1969. Brachiopod-based regional correlations of the Detroit River Group (Devonian), in Abstracts for 1968: Geol. Soc. America Spec. Paper 121, p. 655.
- FANAFF, ALLAN S. See Fisher, S. P., 1968
- FARBER, STEVE L.
1968. The limestone petrography of the Southgate and McMicken Members, Latonia Formation, Cincinnati Series, in southern Hamilton County, Ohio: Miami Univ., M. S. thesis (unpub.).
- FAURE, G. See Eastin, R., 1970
- FAVEDE, FRANÇOISE
1969. Differentiation of ice deposits of Wisconsin age in Portage County, Ohio: Geol. Soc. America Abs. with Programs 1969, pt. 6, North-Central Sec., p. 15.
- FELDMANN, RODNEY M. See also Banks, P. O., 1970b
- 1969 (and Frank, Glenn W.). Geology and Sigma Gamma Epsilon of Kent State University: Compass, v. 46, no. 3, p. 140-141.
- FENSTERMAKER, CHARLES D.
1969. Résumé of current activity of the oil industry northeast of the Mississippi River - geographic, geologic - and magnitude of recent years' discoveries, in Kentucky Oil and Gas Assoc., 32nd ann. mtg., 1968, Proc. tech. sess.: Kentucky Geol. Survey, ser. 10, Spec. Pub. 17, p. 50-77, 18 figs.
- FERGUSON, WILLIAM B.
- 1968 (and Prather, Bruce A.). Salt deposits in the Salina Group in Pennsylvania: Pennsylvania Geol. Survey Bull. M58 (Mineral Resources Rept.), 41 p., 29 figs., 1 pl.; Abs. North Am. Geology, July 1969, p. 1054.
- FERM, JOHN C. See also Cavaroc, V. V., Jr., 1968; Zimmerman, R. K., 1966b
- 1968 (and Cavaroc, Victor V., Jr.). A nonmarine sedimentary model for the Allegheny rocks of West Virginia, in Late Paleozoic and Mesozoic continental sedimentation, northeastern North America: Geol. Soc. America Spec. Paper 106, p. 1-19, 10 figs.
1970. Allegheny deltaic deposits, in Deltaic sedimentation, modern and ancient: Soc. Econ. Paleontologists and Mineralogists Spec. Pub. 15, p. 246-255, 9 figs.; Abs. North Am. Geology, July 1971, p. 1107.
- FETH, J. H.
- 1965 (and others). Preliminary map of the conterminous United States showing depth to and quality of shallowest ground water containing more than 1,000 parts per million dissolved solids: U. S. Geol. Survey Hydrol. Inv. Atlas HA-199, 31 p., 2 maps.
1970. Saline groundwater resources of the conterminous United States, in Saline water symposium: Water Resources Research, v. 6, no. 5, p. 1454-1457; Abs. North Am. Geology, Apr. 1971, p. 582-583.
- FIDLER, RICHARD E. See also Norris, S. E., 1966b, c, 1969a, b
1970. Potential development and recharge of ground water in Mill Creek valley, Butler and Hamilton Counties, Ohio, based on analog model analysis: U. S. Geol. Survey Water-Supply Paper 1893, 37 p., 12 figs., 4 pls.; Abs. North Am. Geology, Aug. 1971, p. 1278.
- FIEDELMAN, HOWARD W. See Andelfinger, G. F., 1966
- FISHER, JAMES H.
1969. Early Paleozoic history of the Michigan basin, in Studies of the Precambrian of the Michigan basin: (East Lansing), Mich. Basin Geol. Society, p. 89-93, 5 figs.
- FISHER, STANLEY P.
- 1968 (and Fanaff, Allan S., and Picking, Larry W.). Landslides of southeastern Ohio: Ohio Jour. Sci., v. 68, no. 2, p. 65-80, 5 figs.
- FISHER, W. L.
- 1969 (and Brown, L. F., Jr., Scott, Alan J., and McGowen, J. H.). Delta systems in the exploration for oil and gas: Bur. Econ. Geology, Univ. Texas at Austin, 78 p., 168 figs.
- FLESHER, E. CECIL, JR. See also Ohio Div. Lands and Soil, 1968d
1969. An inventory of Ohio soils, Henry County: Ohio Div. Lands and Soil Prog. Rept. 30, 30 p., illus., general soil map of Henry County in pocket.
- FLORES, ROMEO M.
1966. Middle Allegheny paleogeography in eastern Ohio: Louisiana State Univ., Ph. D. dissert. (unpub.), 136 p., 27 figs.; Dissert. Abs., sec. B, Sci. and Eng., v. 27, no. 5, p. 1512B, 1967.
- 1967a. Variations in mineral composition during transport: Jour. Sed. Petrology, v. 37, no. 1, p. 235-239, 4 figs.; Abs. North Am. Geology, July 1967, p. 886.
- 1967b. Relationship of geometry to the origin of the Lower Freeport sandstone (middle Allegheny) of eastern Ohio: Jour. Sed. Petrology, v. 37, no. 2, p. 624-632, 10 figs.; Abs. North Am. Geology, Dec. 1967, p. 1661-1662.
1968. Simple linear regression as a means of predicting the thickness of Middle Allegheny stratigraphical interval in eastern Ohio: Jour. Sed. Petrology, v. 38, no. 2, p. 400-410, 7 figs.
- FLOYD, JACK C. See also Hatfield, C. B., 1968a; Kahle, C. F., 1968b
- FORD, J. P.
1967. Cincinnati geology in southwest Hamilton

- County, Ohio: Am. Assoc. Petroleum Geologists Bull., v. 51, no. 6, p. 918-936, 14 figs.; Abs. North Am. Geology, Nov. 1967, p. 1509.
- 1968a. Cincinnatian geology in southwest Hamilton County, Ohio (abs.): Geol. Soc. America Spec. Paper 101, p. 357.
- 1968b. Upper Ordovician stratigraphic relations between Covington and Clays Ferry, Kentucky: Am. Assoc. Petroleum Geologists Bull., v. 52, no. 9, p. 1779-1791, 3 figs.
- FORSYTH, JANE L. See also Goldthwait, R. P., 1967; Urban, D. R., 1970
- 1966a. Glacial map of Licking County, Ohio: Ohio Geol. Survey Rept. Inv. 59, 1 sheet with text; Abs. North Am. Geology, Dec. 1966, p. 1307-1308.
- 1966b. The geology of the Bowling Green area, Wood County, Ohio: Compass, v. 43, no. 4, p. 202-214, 3 figs., 3 pls.; GeoSci. Abs., v. 8, no. 10, p. 9-10; Geog. Abs. A, Geomorphology, 1967/2, p. 136.
1967. Glacial geology of the East Liberty quadrangle, Logan and Union Counties, Ohio: Ohio Geol. Survey Rept. Inv. 66, 1 sheet with text; Abs. North Am. Geology, Mar. 1968, p. 338.
- 1968a. Glacial geology of the West Mansfield quadrangle, Ohio Geol. Survey Rept. Inv. 69, 1 sheet with text; Abs. North Am. Geology, June 1969, p. 888.
- 1968b. Soils and vegetation as tools in the mapping of the glacial deposits of eastern Logan County, Ohio, in Abstracts for 1967: Geol. Soc. America Spec. Paper 115, p. 386.
1970. A geologist looks at the natural vegetation map of Ohio: Ohio Jour. Sci., v. 70, no. 3, p. 180-191, 1 fig.
- FOWLER, MICHAEL L. See also Anstey, R. L., 1969b
- FRANK, GLENN W. See also Feldmann, R. M., 1969; Heimlich, R. A., 1970
- 1970a (ed.). Ohio intercollegiate field trip guides, 1950-51 - 1969-70: Kent, Ohio, Kent State Univ. Printing Service, (255) p., illus.
- 1970b. The development of coal, in Banks, P. O., and Feldmann, Rodney M., eds., Guide to the geology of northeastern Ohio: Northern Ohio Geol. Soc., p. 135-137, 3 figs.
- FREAS, ROBERT C.
1968. The faunal distribution of the Blanchester Member of the Waynesville Formation in Indiana, Ohio, and Kentucky: Miami Univ., M. S. thesis (unpub.).
- FREEBURG, JACQUELYN H.
1966. Terrestrial impact structures - a bibliography: U. S. Geol. Survey Bull. 1220, 91 p., 1 pl.
- FRENCH, ROBERT R. See also Carr, D. D., 1970
- FRONTZ, HAROLD O.
1966. New *Solenochilus* species from the Conemaugh series of eastern Ohio: Ohio Jour. Sci., v. 66, no. 4, p. 433-436, 3 figs.; GeoSci. Abs., v. 8, no. 9, p. 34.
- GALBRAITH, ROBERT M., IV
1968. Peripheral deformation of the Serpent Mound cryptoexplosion structure in Adams County, Ohio: Univ. Cincinnati, M. S. thesis (unpub.).
- 1969 (and Koucky, Frank L.). Peripheral deformation of the Serpent Mound cryptoexplosion structure in Adams County, Ohio: Geol. Soc. America Abs. with Programs 1969, pt. 6, North-Central Sec., p. 17.
- GARRISON, GAIL C.
1967. Pollen stratigraphy and age of a postglacial beaver site near Columbus, Ohio: Ohio Jour. Sci., v. 67, no. 2, p. 96-105, 5 figs.; Abs. North Am. Geology, Feb. 1968, p. 195.
- GAURI, K. L.
- 1970 (and Boucot, A. J.). *Cryptothyrella* (Brachiopoda) from the Brassfield Limestone (Lower Silurian) of Ohio and Kentucky: Jour. Paleontology, v. 44, no. 1, p. 125-132, 2 figs., 3 pls.; Abs. North Am. Geology, Sept. 1970, p. 1367.
- GEDDES, WILBURT. See also Zietz, I., 1966a
- GEORGE, J. R. See Biesecker, J. E., 1966
- GEOSCIENCE INFORMATION SOCIETY, GUIDEBOOK AND EPHEMERAL MATERIALS COMMITTEE (compiler)
1968. Geologic field trip guidebooks of North America: Houston, Phil Wilson, 97 p.
- GERSPER, P. L.
- 1970 (and Holowaychuk, N.). Effects of stemflow water on a Miami soil under a beech tree - 1, Morphological and physical properties; 2, Chemical properties: Soil Sci. Soc. America Proc., v. 34, no. 5, p. 779-794, 19 figs.: Abs. North Am. Geology, Aug. 1971, p. 1283.
- GLAENZER, J. See Walters, J. G., 1967
- GLEN, WILLIAM
1967. In quest of a multiple first: Jour. Paleontology, v. 41, no. 5, p. 1281, 1 fig.; Abs. North Am. Geology, Apr. 1968, p. 506.
- GOLDSTEIN, FREDRIC R.
1968. The Pleistocene geology of a portion of Butler County, southwestern Ohio: Miami Univ., M. S. thesis (unpub.).
- GOLDTHWAIT, RICHARD P. See also Dreimanis, A., 1970
- 1967 (and White, George W., and Forsyth, Jane L.). Glacial map of Ohio: U. S. Geol. Survey Misc. Geol. Inv. Map I-316, scale 1:500,000, revised 1967; originally published 1961.
1968. Two loesses in central southwest Ohio, in The Quaternary of Illinois: Univ. Illinois Spec. Pub. 14, p. 41-47.
1969. Till stratigraphy from Columbus southwest to Highland County, Ohio, in Third annual meeting of the North-Central Section, Geological Society of America, Field trip guidebook: Columbus, Ohio Geol. Survey, p. 2-1 - 2-17, 4 figs.
- GOODING, ANSEL. See Kapp, R. O., 1966
- GRABAU, A. W.
- 1910 (and Sherzer, W. H.). The Monroe formation of southern Michigan and adjoining regions: Michigan Geol. and Biol. Survey Pub. 2, Geol. Ser. 1, 248 p., 9 figs., 32 pls.
- GRAHAM, CHARLES E.
1969. Mississippian strata of the Granville-Newark area, Ohio, in Third annual meeting of the North-Central Section, Geological Society of America, Field trip guidebook: Ohio Geol. Survey, p. 4-1 - 4-24, 3 figs.
- GRAY, LEWIS RICHARD
1966. Palynology of the Middle Kittanning coal in Ohio (abs.): Am. Jour. Botany, v. 53, no. 6, pt. 2, p. 630.
1967. Palynology of four Allegheny coals, northern Appalachian coal field: Palaeontographica, ser. B,

- v. 121, nos. 1-3, p. 65-86, 6 figs., 5 pls.; Abs. North Am. Geology, Aug. 1968, p. 1146.
- GRAZULIS, ARTHUR**
1966. Instrumentation for brine flow measurement, in Symposium on salt, 2nd, v. 2, Rock mechanics, geophysics, evaporated salt, solution mining, underground storage: Cleveland, Ohio, Northern Ohio Geol. Soc., p. 321-325, 4 figs.
- GREEN, RICHARD**
1970. Celestite: Rocks and Minerals, whole no. 374, v. 45, no. 11, p. 676-678, 687, illus.
- GROSS, DAVID L.** See also Totten, S. M., 1968, 1969c
1969 (and Moran, Stephen R.). Textural and mineralogical gradations within tills of the Allegheny Plateau: Geol. Soc. America Abs. with Programs 1969, pt. 6, North-Central Sec., p. 18-19.
- GUILDAY, JOHN E.**
1966. Rangifer antler from an Ohio bog: Jour. Mammalogy, v. 47, no. 2, p. 325-326.
- GUILLOU, R. B.**
1966. Cincinnati area (ARMS-II): U. S. Atomic Energy Comm. Civil Effects Study CEX-62.6.5, 19 p., illus.: Abs. North Am. Geology, Sept. 1966, p. 949; Geophys. Abs., no. 237, p. 930.
- GURLEY, JACK**
1963. A productivity and economic projection method - Ohio Clinton sand gas wells: Jour. Petroleum Technology, Nov. 1963, p. 1183-1188, 10 figs.
- GUTSCHICK, R. C.**
1967 (and Moreman, W. L.). Devonian-Mississippian boundary relations along the cratonic margin of the United States, in Internat. symposium on the Devonian System, Calgary, Alberta, 1967 (Proc.), v. 2: Calgary, Alberta, Alberta Soc. Petroleum Geologists, p. 1009-1023, 6 figs.
- HALBOUTY, MICHEL T.**
1968. Giant oil and gas fields in United States: Am. Assoc. Petroleum Geologists Bull., v. 52, no. 7, p. 1115-1151, 26 figs.
- HALE, WILLIAM F.** See Lessig, H. D., 1968
- HALL, G. F.** See also Khangarot, A. S., 1969a; Wilding, L. P., 1969
1969 (and Wilding, L. P., and Drees, L. R.). Some physical, chemical and mineralogical properties of a loess-covered Illinoian terrace along the Hocking River, Ohio: Geol. Soc. America Abs. with Programs 1969, pt. 6, North-Central Sec., p. 20.
- HALL, JOHN F.**
1970. Early geologic investigations in northeastern Ohio, in Banks, P. O., and Feldmann, Rodney M., eds., Guide to the geology of northeastern Ohio: Northern Ohio Geol. Soc., p. 165-167.
- HAM, C. B.** See Anderson, B. A., 1968a,b
- HAM, WILLIAM E.**
1967 (and Wilson, James L.). Paleozoic epirogeny and orogeny in the central United States, in Symposium on the chronology of tectonic movements in the United States: Am. Jour. Sci., v. 265, no. 5, p. 332-407, 12 figs.; Abs. North Am. Geology, May 1968, p. 654.
- HANSEN, RUSSELL F.**
1967. Fern Lake, in A study of two bogs: Explorer, v. 9, no. 1, p. 9-12, illus.
- HANSON, RONALD L.** See Martin, R. O. R., 1966
- HARIHARAN, GANESAN**
1970. Lithostratigraphy of subsurface Cincinnati strata in western and southern Ohio and adjacent areas: The Ohio State Univ., M. S. thesis (unpub.), 46 p., 14 figs.
- HARRIS, K. F.** See Curtis, W. F., 1969
- HARSTINE, LEONARD J.** See Kaser, P., 1965
- HARTENSTEIN, W. G.**
1967. Hydrocarbon whys and wherefores: Oil and Gas Jour., v. 65, no. 52, p. 200-206, 208, 6 figs.
- HARTLEY, ROBERT P.**
1966a (and Herdendorf, Charles E., and Keller, Myrl). Synoptic survey of water properties in the western basin of Lake Erie: Ohio Geol. Survey Rept. Inv. 58, 19 p., 14 figs.
1966b (and Herdendorf, C. E., and Keller, M.). Synoptic water sampling survey in the western basin of Lake Erie: Michigan Univ. Inst. Science and Technology, Great Lakes Research Div. Pub. 15, p. 301-322, 14 figs.
- HARTMAN, WILBUR L.**
1970. Resource crises in Lake Erie: Explorer, v. 12, no. 1, p. 6-11, illus.
- HARTNER, F. E.** See Walker, F. E., 1966
- HASSARD, JOHN R.**
1969 (and Abruscato, Joseph). Sensitizing potential ESCP teachers to classroom behavior and inquiry techniques of teaching - a workshop: Geol. Soc. America Abs. with Programs 1969, pt. 7, Ann. mtg., p. 92.
- HASSEMER, JERRY H.**
1966 (and Watkins, Joel S., and Bailey, Norman G.). Seismic refraction surveys in the vicinity of Eagle City, Clark County, Ohio: U. S. Geol. Survey Repts., Open-File Ser., no. 839, 7 p., 3 figs.; GeoSci. Abs., v. 8, no. 7, p. 43.
- HATFIELD, CRAIG B.**
1966 (and Rohrbacher, Timothy J.). Dolomite-insoluble residue relationships in the Ten Mile Creek Dolomite (Middle Devonian) near Toledo, Ohio: Jour. Sed. Petrology, v. 36, no. 3, p. 828-831; GeoSci. Abs., v. 8, no. 11, p. 71-72; Abs. North Am. Geology, May 1967, p. 609-610.
1968a (and Rohrbacher, Timothy J., and Floyd, Jack C.). Directional properties, paleoslope, and source of the Sylvania Sandstone (Middle Devonian) of southeastern Michigan and northwestern Ohio: Jour. Sed. Petrology, v. 38, no. 1, p. 224-228, 1 fig.; Abs. North Am. Geology, Oct. 1968, p. 1481.
1968b. Stratigraphy and paleoecology of the Saluda Formation (Cincinnati) in Indiana, Ohio and Kentucky: Geol. Soc. America Spec. Paper 95, 34 p., 1 fig., 4 pls.
- HAY, RUTH J.** See Ogden, J. G., 3rd, 1967a, 1969
- HAYES, PAMELA DEE**
1969. Minerals of Ohio: Univ. Virginia, M.S. thesis (unpub.), 71 p. (Copy in files of Ohio Geol. Survey.)
- HAYHURST, ERNEST N.** See Lerch, N. K., 1969
- HEIMLICH, R. A.**
1970 (and Mrakovich, J. V., and Frank, G. W.). The Sharon Conglomerate, in Banks, P. O., and Feldmann, Rodney M., eds., Guide to the geology of northeastern Ohio: Northern Ohio Geol. Soc., p. 125-133, 4 figs.
- HEINTZ, ANATOL**
1968. The spinal plate in Homostius and Dunkleosteus, in Current problems of lower vertebrate phylogeny - Nobel symposium, 4th, Stockholm, 1967, Proc.: New York and London, Interscience Publishers;

- Stockholm, Almquist and Wiksell, p. 145-148, 2 figs.
- HEISE, HORST**
1967. International gas play in Lake Erie shapes up: *Oilweek*, v. 18, no. 45, p. 10-13, 26, illus.
- HELWIG, PATRICIA A.**
1970. Drilling in Lake Erie: The question before us: *Explorer*, v. 12, no. 1, p. 12-17, illus.
- HENNINGER, BERNARD R.** See Martin, W. D., 1969
- HERDENDORF, CHARLES E.** See also Hartley, R. P., 1966a, b; Hobson, G. D., 1969
1966. Geology of the Vermilion West and Berlin Heights quadrangles, Erie and Huron Counties, Ohio: *Ohio Geol. Survey Rept. Inv.* 60, 1 sheet with text; *Abs. North Am. Geology*, July 1967, p. 896.
1967. Lake Erie bathythermograph recordings, 1952-1966: *Ohio Geol. Survey Inf. Circ.* 34, 36 p., 1 fig., 1 pl.
1968. Sedimentation studies in the south shore reef area of western Lake Erie, in *Conference on Great Lakes research*, 11th, Milwaukee, Wis., 1968, *Proc.: Ann Arbor, Mich., Internat. Assoc. Great Lakes Research*, p. 188-205, 9 figs.; *Abs. North Am. Geology*, Aug. 1969, p. 1225.
1969. Water masses and their movements in western Lake Erie: *Ohio Geol. Survey Rept. Inv.* 74, 7 p., 4 figs.
- 1970a. Sand and gravel resources of the Maumee River estuary, Toledo to Perrysburg, Ohio: *Ohio Geol. Survey Rept. Inv.* 76, 19 p., 7 figs.; *Abs. North Am. Geology*, Jan. 1971, p. 52.
- 1970b. Lake Erie physical limnology cruise, mid-summer 1967: *Ohio Geol. Survey Rept. Inv.* 79, 77 p., 33 figs.; *Abs. North Am. Geology*, June 1971, p. 942-943.
- 1970c (and Braidech, Lawrence L.). A study of the sand and gravel deposits of the Maumee River estuary, Ohio, in *Forum on geology of industrial minerals*, 6th, Ann Arbor, Mich., 1970, *Proc.: Mich. Geol. Survey Miscellany* 1, p. 103-116, 10 figs.; *Abs. North Am. Geology*, Aug. 1971, p. 1293.
- C. L. HERRICK GEOLOGY SOCIETY**
1969 (compiler). 19th annual Ohio intercollegiate geology field conference, October 12, 1968: Granville, Ohio, Denison Univ., 55 p., illus., also in Frank, G. W., ed., *Ohio intercollegiate field trip guides 1950-51 - 1969-70: Kent, Ohio, Kent State Univ., Dept. Geology*, p. 19-1 - 19-33; *Abs. North Am. Geology*, Oct. 1969, p. 1504-1505.
- HERRMANN, ROBERT B.**
1969. The structure of the Cincinnati arch determined by short period Rayleigh waves: *Seismol. Soc. America Bull.*, v. 59, no. 1, p. 399-407, 3 figs.; *Geophys. Abs.*, no. 272, p. 1265; *Abs. North Am. Geology*, Sept. 1969, p. 1385.
- HEYL, ALLEN V.** See Jolly, J. L., 1968
- HIESTAND, THOMAS C.**
1966. Petroleum migration, accumulation - a paleo-hydrogeologic concept: *Oil and Gas Jour.*, v. 64, no. 29, p. 130-135, illus.; *Abs. North Am. Geology*, Dec. 1966, p. 1316.
- HLAVIN, W. J.**
1966. A preliminary note on some significant fossil finds from the Interstate Route 71 paleontological salvage operation: *Soc. Vertebrate Paleontology News Bull.* no. 76, p. 49-50; *Abs. North Am. Geology*, Oct. 1966, p. 1065.
1968. Ohio's Permian formations - their history and fauna: *Explorer*, v. 10, no. 4, p. 22-25, illus.
1970. General stratigraphic outline of Paleozoic vertebrate occurrences in Ohio: *Earth Sci.*, v. 23, no. 1, p. 12.
- HOARE, RICHARD D.** See also Sturgeon, M. T., 1968
- 1966 (and Sturgeon, Myron T., and Colson, Calvin T.). Pennsylvanian Strophomenida from Ohio, in *Abstracts for 1965: Geol. Soc. America Spec. Paper* 87, p. 78.
- 1967 (and Steller, D. L.). A Devonian brachiopod with epifauna: *Ohio Jour. Sci.*, v. 67, no. 5, p. 291-297, 2 pls.; *Abs. North Am. Geology*, Mar. 1968, p. 348.
- 1968a (and Sturgeon, M. T.). The genus *Wewokella* (Porifera) in the Pennsylvanian of Ohio: *Jour. Paleontology*, v. 42, no. 1, p. 81-83, 1 pl.; *Abs. North Am. Geology*, Aug. 1968, p. 1155.
- 1968b. Pennsylvanian geology - fossils from Ohio's coal beds: *Explorer*, v. 10, no. 3, p. 18-24, illus.
- 1969 (and Steller, D. L.). Inarticulate brachiopods of the Silica Formation (Devonian), Ohio and Michigan: *Michigan Univ. Mus. Paleontology Contr.*, v. 22, no. 20, p. 263-272, 2 pls.; *Abs. North Am. Geology*, Sept. 1969, p. 1387.
- HOBSBS, HAROLD W.**
1968 (compiler). Hydrologic data for experimental agricultural watersheds in the United States, 1962: U. S. Dept. Agriculture Agr. Research Service Misc. Pub. 1164, 465 p.
- 1970 (and Burford, James B., compilers). Hydrologic data for experimental agricultural watersheds in the United States, 1963: U. S. Dept. Agriculture Agr. Research Service Misc. Pub. 1164, 465 p.
- HOBSON, GEORGE D.**
1969 (and Herdendorf, C. E., and Lewis, C. F. M.). High resolution reflection seismic survey in western Lake Erie, in *Conference on Great Lakes research*, 12th, Ann Arbor, Mich., 1969, *Proc.: Ann Arbor, Mich., Internat. Assoc. Great Lakes Research*, p. 210-224, 9 figs.; *Abs. North Am. Geology*, Dec. 1970, p. 1877.
- HOEFS, J.**
1969. Natural calcium oxalate with heavy carbon: *Nature*, v. 223, no. 5204, p. 396.
- HOFMANN, HANS J.**
1966a. Deformational structures near Cincinnati, Ohio: *Geol. Soc. America Bull.*, v. 77, no. 5, p. 533-548, 10 figs., 3 pls.; *GeoSci. Abs.*, v. 8, no. 9, p. 23-24; *Abs. North Am. Geology*, Dec. 1966, p. 1317.
- 1966b. Ordovician paleocurrents near Cincinnati, Ohio: *Jour. Geology*, v. 74, no. 6, p. 868-890, 11 figs.; *Abs. North Am. Geology*, Apr. 1967, p. 475.
- HOLE, THORNTON J. F.** See also Ohio Div. Lands and Soil, 1968c
- 1970 (and Redmond, Charles E.). Florence Valley: an abandoned stream valley, Florence Township, Erie County, Ohio: *Ohio Jour. Sci.*, v. 70, no. 6, p. 341-346, 4 figs.; *Abs. North Am. Geology*, July 1971, p. 1130.
- HOLLOWAYCHUK, N.** See Gersper, P. L., 1970; Smeck, N. E., 1968; Steiger, J. R., 1969
- HOLTAN, H. N.**
1968 (and England, C. B., Lawless, G. P., and

- Schumaker, G. A.). Moisture-tension data for selected soils on experimental watersheds: U. S. Dept. Agriculture ARS 41-144, 608 p., 1 fig.
- HOOVER, JOHN R.**
1969 (and Malone, Rodney, Eddy, Greg, and Donaldson, Alan). Regional position, trend, and geometry of coals and sandstones of the Monongahela Group and Waynesburg Formation in the central Appalachians, in *Some Appalachian coals and carbonates - models of ancient shallow-water deposition: Geological Society America Coal Division field trip*, Nov. 1969, Morgantown, West Virginia Geol. and Econ. Survey, p. 157-192, 16 figs.
- HOROWITZ, ALAN STANLEY**
1969. Some Chester correlations in the Appalachian region, in *Abstracts for 1968: Geol. Soc. America Spec. Paper 121*, p. 662.
- HORVATH, ALLAN L.**
1967a (and Sparling, Dale). Silurian geology of western Ohio - guide to the forty-second annual field conference of the Section of Geology: *Ohio Acad. Sci.*, 25 p., illus.
- 1967b. Relationships of Lower Silurian strata in Ohio, West Virginia, and northern Kentucky: *Ohio Jour. Sci.*, v. 67, no. 6, p. 341-359, 5 figs.; *Abs. North Am. Geology*, May 1968, p. 660.
- 1967c. A teacher's legacy - Dr. August F. Foerste, geologist: *Explorer*, v. 9, no. 4, p. 20-22, illus.
1969. Relationships of Middle Silurian strata in Ohio and West Virginia: *Ohio Jour. Sci.*, v. 69, no. 6, p. 321-342, 7 figs.; *Abs. North Am. Geology*, Aug. 1970, p. 1227-1228.
- 1970a. The Silurian of southern Ohio: in *Silurian stratigraphy, central Appalachian basin, Appalachian Geol. Society field conference: Appalachian Geol. Society*, p. 34-41, 2 figs.
- 1970b (and O'Brien, M. H., and Pryce, R. A.). Generalized cross section, stratigraphic correlations, Silurian strata from Highland Co., Ohio to Montgomery Co., Virginia, in *Silurian stratigraphy, central Appalachian basin, Appalachian Geol. Society field conference: Appalachian Geol. Society*, in pocket.
- HOSKINS, DONALD M.** See Oliver, W. A., Jr., 1968b, 1969
- HOUGH, JACK L.**
1966. The physical basis of Lake Erie water quality, in *Water quality and recreation in Ohio, Symposium on water resources research, 2nd ann., Proc.: Columbus, The Ohio State Univ. Water Resources Center*, p. 115-128.
- HOUGH, VAN NESS D.** See Nickelsen, R. P., 1967
- HOWE, HERBERT J.**
1970. American Upper and Middle Ordovician brachiopods: *Geol. Soc. America Abs. with Programs* 1970, v. 2, no. 3, Southeastern Sec., p. 217-218.
- HU, CHUNG-HUNG**
1968. The ontogeny and sexual dimorphism of lower Paleozoic trilobites: *Univ. Cincinnati, Ph. D. dissert. (unpub.)*; *Dissert. Abs., sec. B, Sci. and Eng.*, v. 29, no. 5, p. 1730B.
- HUBBERT, M. KING**
1966. History of petroleum geology and its bearing upon present and future exploration: *Am. Assoc. Petroleum Geologists Bull.*, v. 50, no. 12, p. 2504-2518, 6 figs.; *Abs. North Am. Geology*, May 1967, p. 615.
- HUDDLE, JOHN W.** See Oliver, W. A., Jr., 1968b, 1969
- HUFF, WARREN D.** See also Bassarab, D. R., 1968, 1969
1968 (and Breuer, Joseph W.). Mineralogy and distribution of clay sediments in Great Miami River basin (Ohio-Indiana) (abs.): *Am. Assoc. Petroleum Geologists Bull.*, v. 52, no. 3, p. 533.
- HYDE, C.**
1966 (and Landy, R. A.). Whewellite from septarian concretions near Milan, Ohio: *Am. Mineralogist*, v. 51, no. 1-2, p. 228-229; *Abs. North Am. Geology*, Aug. 1966, p. 848.
- INGAMELLS, C. O.**
1967 (and Suhr, N. H.). Chemical and spectrochemical analysis of standard carbonate rocks: *Geochim. et Cosmochim. Acta*, v. 31, no. 8, p. 1347-1350; *Abs. North Am. Geology*, Jan. 1968, p. 55.
- INNIS, C. H.** See Ohio Div. Lands and Soil, 1968c
- JACKSON, JAMES**
1968. An electron microscope study of dolostones: *Bowling Green State Univ., M. S. thesis (unpub.)*.
- JACOBY, CHARLES H.**
1969. Correlation, faulting, and metamorphism of Michigan and Appalachian basin salt: *Am. Assoc. Petroleum Geologists Bull.*, v. 53, no. 1, p. 136-154, 20 figs.; *Abs. North Am. Geology*, June 1969, p. 904-905.
- 1970a. Faults in salt mines - their impact on operations, in *Symposium on salt, 3rd, v. 2 (J. L. Rau and L. F. Dellwig, eds.)*: Cleveland, Ohio, *Northern Ohio Geol. Soc.*, p. 447-452, 5 figs.; *Abs. North Am. Geology*, Apr. 1971, p. 604.
- 1970b. Storage of hydrocarbons in cavities in bedded salt deposits formed by hydraulic fracturing, in *Symposium on salt, 3rd, v. 1 (J. L. Rau and L. F. Dellwig, eds.)*: Cleveland, Ohio, *Northern Ohio Geol. Soc.*, p. 463-469, 4 figs.
- JAMIESON, D. G.**
1969 (and Amerman, C. R.). Quick-return subsurface flow: *Jour. Hydrology*, v. 8, no. 2, p. 122-136, 9 figs.
- JANSSENS, A.**
1967. Analysis of the Paleozoic movements of the Cincinnati arch: *The Ohio State Univ., Ph. D. dissert. (unpub.)*, 142 p., 15 figs., 2 pls.; *Dissert. abs., sec. B, Sci. and Eng.*, v. 28, no. 6, p. 2481B-2482B.
1968. Stratigraphy of Silurian and pre-Olenangy Devonian rocks of the South Birmingham Pool area, Erie and Lorain Counties, Ohio: *Ohio Geol. Survey Rept. Inv. 70*, 20 p., 8 figs.; *Abs. North Am. Geology*, May 1969, p. 715.
- 1969a. Middle Devonian rocks in the subsurface of northwestern Ohio: *Geol. Soc. America Abs. with Programs* 1969, pt. 6, North-Central Sec., p. 23.
- 1969b. Devonian outcrops in Columbus, Ohio, and vicinity, in *Third Annual Meeting of the North-Central Section, Geological Society of America, Field trip guidebook: Ohio Geol. Survey*, p. 1-1 - 1-22, 13 figs.
- 1970a. Guidebook to the Middle Devonian rocks of north-central Ohio: *Ohio Geol. Soc.*, 30 p., 7 figs.; *Abs. North Am. Geology*, Jan. 1971, p. 59, and Oct. 1971, p. 1660.

- 1970b. Middle Devonian formations in the subsurface of northwestern Ohio: Ohio Geol. Survey Rept. Inv. 78, 22 p., 10 figs.; Abs. North Am. Geology, Apr. 1971, p. 604.
- 1970c. Preliminary report on the Sauk sequence in Ohio: Geol. Soc. America Abs. with Programs 1970, v. 2, no. 6, p. 391.
- JENKS, W. F. See Caster, K. E., 1970
- JOHNSON, ALLAN W. See Connor, W. T., 1969, 1970; Norling, D. L., 1966, 1967, 1968
- JOHNSON, HARRY R.
1963 (and Boley, Dean W.). Waterflooding possibilities of the Clinton sand, Logan oilfield, Hocking County, Ohio: Producers Monthly, Dec. 1963, p. 22-26, 7 figs.
- JOHNSON, J. G. See Boucot, A. J., 1966, 1968
- JOHNSON, M. A. See Vary, J. A., 1968
- JOLLY, JANICE L.
1968 (and Heyl, Allen V.). Mercury and other trace elements in sphalerite and wallrocks from central Kentucky, Tennessee and Appalachian zinc districts: U. S. Geol. Survey Bull. 1252-F, 29 p., 3 figs.
- JONES, MICHAEL L.
1969 (and Clendening, John A.). Directional orientation of ostracodes — its use as a paleocurrent indicator in the Dunkard basin, in Some Appalachian coals and carbonates: models of ancient shallow-water deposition—Geological Society America Coal Division field trip, Nov. 1969: Morgantown, West Virginia Geol. and Econ. Survey, p. 235-241, 5 figs.
- KAHLE, CHARLES F.
1968a. Petrology and structure of a Salina (Silurian) dolomitized algal stromatolite complex, northwestern Ohio (abs.): Am. Assoc. Petroleum Geologists Bull., v. 52, no. 3, p. 534-535.
1968b (and Floyd, Jack C.). Structures and fabrics in some middle and upper Silurian dolostones, northwestern Ohio: — Guide to the forty-third annual field conference of the Section of Geology: Ohio Acad. Sci., 40 p., 11 figs.
- KALB, G. WILLIAM
1970. The determination of mercury in water and sediment samples by flameless atomic absorption: Atomic Absorption Newsletter, v. 9, no. 4, p. 84-87, 5 figs.
- KAPP, RONALD O.
1966 (and Gooding, Ansel). Revision [of 1964 paper] — Sunbeam Prairie pollen profile: Am. Jour. Sci., v. 264, no. 9, p. 743-744; Abs. North Am. Geology, Aug. 1967, p. 1066; Geophys. Abs., no. 249, p. 1019, 1967.
- KASER, PAUL. See also Schaefer, E. J., 1965
1965 (and Harstine, Leonard J.). Ground-water levels in Ohio, October 1959-September 1964: Ohio Div. Water Bull. 41, 133 p., 159 figs.
- KAZMANN, RAPHAEL G.
1958. Problems encountered in the utilization of ground-water reservoirs: Am. Geophys. Union Trans., v. 39, no. 1, p. 94-99, 4 figs.
- KELLER, MYRL. See Hartley, R. P., 1966a, b
- KEMP, A. L. W.
1969. Organic matter in the sediments of Lakes Ontario and Erie, in Conference on Great Lakes research, 12th, Ann Arbor, Mich., 1969, Proc.: Ann Arbor, Mich., Internat. Assoc. Great Lakes Research, p. 237-249, 4 figs.; Abs. North Am. Geology, Dec. 1970, p. 1888.
- KENTUCKY, GEOLOGICAL SOCIETY OF. See Ohio Geol. Soc., 1968
- KERN, JOHN M. See Conkin, J. E., 1970
- KEROHER, GRACE C.
1966 (and others). Lexicon of geologic names of the United States for 1936-1960 — pt. 1, A-F; pt. 2, G-O; pt. 3, P-Z: U. S. Geol. Survey Bull. 1200, 4341 p.
1970. Lexicon of geologic names of the United States for 1961-1967: U. S. Geol. Survey Bull. 1350, 848 p.
- KESLING, ROBERT V.
1966a (and Boneham, Roger F.). Trochiliscus bellatulus Peck from the Middle Devonian Dundee Limestone of northwestern Ohio: Michigan Univ. Mus. Paleontology Contr., v. 20, no. 7, p. 179-194, 1 fig., 3 pls.; GeoSci. Abs., v. 8, no. 9, p. 35; Abs. North Am. Geology, Apr. 1967, p. 481.
1966b. Botryocrinus niemani, a new crinoid from the Middle Devonian Silica Formation of Ohio: Michigan Univ. Mus. Paleontology Contr., v. 20, no. 9, p. 271-276, 1 fig., 1 pl.; GeoSci. Abs., v. 8, no. 9, p. 33; Abs. North Am. Geology, Aug. 1967, p. 1068.
1968a. Note on ontogeny of the Middle Devonian crinoid Proctothylacocrinus esseri Kesling: Michigan Univ. Mus. Paleontology Contr., v. 22, no. 9, p. 133-138, 4 figs., 2 pls.; Abs. North Am. Geology, Aug. 1969, p. 1234.
1968b. Ameliacrinus benderi, a new dicyclic camerate crinoid from the Middle Devonian Silica Formation in northwestern Ohio: Michigan Univ. Mus. Paleontology Contr., v. 22, no. 11, p. 155-162, 2 figs., 3 pls.; Abs. North Am. Geology, Aug. 1969, p. 1234.
1969a. Two new crinoids from the Middle Devonian Silica Formation: Michigan Univ. Mus. Paleontology Contr., v. 22, no. 15, p. 199-206, 2 pls.; Abs. North Am. Geology, Sept. 1969, p. 1392.
1969b. Silicaster, a new genus of Devonian starfish: Michigan Univ. Mus. Paleontology Contr., v. 22, no. 19, p. 249-261, 2 figs., 4 pls.; Abs. North Am. Geology, Sept. 1969, p. 1391.
1969c (and Sigler, James P.). Cunctocrinus, a new Middle Devonian calceocrinid crinoid from the Silica Shale of Ohio: Michigan Univ. Mus. Paleontology Contr., v. 22, no. 24, p. 339-360, 13 figs., 1 pl.; Abs. North Am. Geology, Apr. 1970, p. 553.
- KHANGAROT, A. S.
1969a (and Wilding, L. P., Hall, G. F., and Drees, L. R.). Weathering indices in loess-covered Wisconsin and Illinoian terraces of central Ohio: Geol. Soc. America Abs. with Programs 1969, pt. 6, North-Central Sec., p. 26.
1969b. Relative intensity of soil weathering of Wisconsin and Illinoian-age terraces near Newark, Ohio: The Ohio State Univ., Ph. D. dissert. (unpub.); Dissert. Abs. Internat., sec. B, Sci. and Eng., v. 30, no. 7, p. 2991B, 1970.
- KING, ELIZABETH R. See Zietz, L., 1966a, b
- KINZELMAN, DAVID JOEL
1968. The pre-Upper Ordovician geology of the Birmingham-Erie field, Florence Township, Erie County, Ohio: The Ohio State Univ., Ph. D. dissert. (unpub.), 53 p., 13 figs.

- KIRBY, JOHN R. See Zietz, I., 1968
- KISSLING, DON L.
1969. Ecology of Silurian crinoid-root bioherms: Geol. Soc. America Abs. with Programs 1969, pt. 7, Ann. mtg., p. 126.
1970. Recent and Silurian circumrotatory corals: Geol. Soc. America Abs. with Programs 1970, v. 2, no. 2, Southeastern Sec., p. 225.
- KNELLER, WILLIAM A.
1966. Significance of chert in limestone and dolomite used as concrete aggregate, in A symposium on the geology of industrial limestone and dolomite: Ohio Jour. Sci., v. 66, no. 2, p. 191.
1967. Aggregate solubility related to chert petrographic textures and electron surface morphologies (abs.), in A symposium on industrial mineral exploration and development - Forum on geology of industrial minerals, 3rd, Univ. Kansas, 1967, Proc.: Kansas Geol. Survey Spec. Distrib. Pub. 34, p. 110.
1968a. Aggregate solubility related to chert petrographic textures and electron surface morphologies, in Abstracts for 1967: Geol. Soc. America Spec. Paper 115, p. 122.
1968b (and Wilband, John T.). Relationships between α -quartz cell parameters and some physical-chemical properties of chert aggregates, in Abstracts for 1967: Geol. Soc. America Spec. Paper 115, p. 122-123.
1968c. A study of chert aggregate reactivity based on observations of chert morphologies using electron optical techniques, in Highway geology symposium, 17th ann., Iowa State Univ., 1966, Proc.: Iowa State Univ. Dept. Earth Sci. Pub. 1, p. 73-83, 12 figs.
- KNIGHT, WILLIAM V.
1968. Historical and economic geology of Lower Silurian Clinton sandstone of northeastern Ohio: Univ. Tulsa, M. S. thesis (unpub.).
1969. Historical and economic geology of Lower Silurian Clinton sandstone of northeastern Ohio: Am. Assoc. Petroleum Geologists Bull., v. 53, no. 7, p. 1421-1452, 17 figs.; Abs. North Am. Geology, Jan. 1970, p. 60.
- KOHOUT, DOUGLAS L.
1969 (and Malcuit, Robert J.). Environmental analysis of the Bedford Formation and associated strata in the vicinity of Cleveland, Ohio: Compass, v. 46, no. 4, p. 192-206, 7 figs.; Abs. North Am. Geology, Dec. 1970, p. 1891.
- KOHUT, JOSEPH JAMES
1967. Quantitative analysis, taxonomy and distribution of Middle and Upper Ordovician conodonts from the Cincinnati region of Ohio, Kentucky, and Indiana: The Ohio State Univ., Ph. D. dissert. (unpub.), 152 p., 8 figs., 2 pls.; Dissert. Abs., sec. B, Sci. and Eng., v. 28, no. 9, p. 3752B, 1968.
1968 (and Sweet, Walter C.). The American Upper Ordovician standard—X. Upper Maysville and Richmond conodonts from the Cincinnati region of Ohio, Indiana and Kentucky: Jour. Paleontology, v. 42, no. 6, p. 1456-1477, 3 figs., 2 pls.; Abs. North Am. Geology, June 1969, p. 911.
1969a. Determination, statistical analysis, and interpretation of recurrent conodont groups in Middle and Upper Ordovician strata of the Cincinnati region (Ohio, Kentucky, and Indiana): Jour. Paleontology, v. 43, no. 2, p. 392-412, 6 figs.; Abs. North Am. Geology, Jan. 1970, p. 60.
1969b (and Sweet, Walter C.). Determination and statistical evaluation of recurrent element-groups: a quantitative approach to conodont taxonomy, in Abstracts for 1968: Geol. Soc. America Spec. Paper 121, p. 677.
- KOUCKY, FRANK L. See Galbraith, R. M., IV, 1969
- KOZUSKO, RAYMOND G.
1968. The petrology of the Cambridge Limestone in Athens, Morgan, and Perry Counties, Ohio: Ohio Univ., M. S. thesis (unpub.), 138 p., 34 figs. (including 2 geol. maps), 1 pl.
- KUNKLE, GEORGE R. See Rowland, M. R., 1970
- LAMBERT, ROBERT A.
1969. Petrography of the upper Carboniferous-Permian sandstones of the northern half of the Dunkard basin, Pennsylvania, West Virginia, and Ohio: Miami Univ., M. S. thesis (unpub.).
- LANDES, KENNETH K.
1970. Ohio, in Petroleum geology of the United States: New York, Wiley Interscience, Chap. 8, p. 44-51.
- LANDY, R. A. See Hyde, C., 1966
- LANE, K. S.
1969. Pore pressure effects on Berea Sandstone subjected to experimental deformation: discussion: Geol. Soc. America Bull., v. 80, no. 8, p. 1587-1589, 3 figs.; Abs. North Am. Geology, Dec. 1969, p. 1844.
- LA ROCQUE, AURELE
1966. Pleistocene Mollusca of Ohio: Ohio Geol. Survey Bull. 62, pt. 1, 111 p., 2 figs.; Abs. North Am. Geology, Aug. 1967, p. 1071.
1967. Pleistocene Mollusca of Ohio: Ohio Geol. Survey Bull. 62, pt. 2, p. 113-356, figs. 3-208, 8 pls.; Abs. North Am. Geology, June 1968, p. 825-826.
1968. Pleistocene Mollusca of Ohio: Ohio Geol. Survey Bull. 62, pt. 3, p. 357-553, figs. 209-408, pl. 9-14; Abs. North Am. Geology, May 1969, p. 726.
1970. Pleistocene Mollusca of Ohio: Ohio Geol. Survey Bull. 62, pt. 4, p. 555-800, figs. 409-624, pls. 15-18; Abs. North Am. Geology, Jan. 1971, p. 67-68.
- LATHAM, HERALD
1969 (and Durrell, Richard H.). Genesis of a city: Cincinnati, v. 2, no. 6, p. 42-45, 56-57, illus.
- LAWLESS, G. P. See Holtan, H. N., 1968
- LEAVENS, PETER B.
1968. New data on whewellite: Am. Mineralogist, v. 53, nos. 3-4, p. 455-463, 1 fig.; Abs. North Am. Geology, July 1969, p. 1082-1083.
- LEFOND, STANLEY J.
1969. Ohio, in Handbook of world salt resources: New York, Plenum Press, p. 54-58, 1 map, 1 chart.
- LENÉ, GENE W.
1966. Petrographic and paleocurrent analysis of the Berea Sandstone at South Amherst, Ohio: Bowling Green State Univ., M. S. thesis (unpub.), 73 p.
1969a (and Owen, Donald E.). Grain orientation in a Berea Sandstone channel at South Amherst, Ohio: Geol. Soc. America Abs. with Programs 1969, pt. 6, North-Central Sec., p. 30.
1969b (and Owen, Donald E.). Grain orientation in a Berea Sandstone channel at South Amherst, Ohio: Jour. Sed. Petrology, v. 39, no. 2, p. 737-743, 6 figs.; Abs. North Am. Geology, Feb. 1970, p. 223.

- LERCH, NORBERT K.
1969 (and Davis, Paul E., Tornes, Lawrence A., Hayhurst, Ernest N., and McLoda, Niles A.) Soil survey of Preble County, Ohio: U. S. Dept. Agriculture, Soil Conserv. Service, 101 p., 7 figs., 72 map sheets.
- LESQUEREUX, LEO
1879-1884. Description of the coal flora of the Carboniferous formation in Pennsylvania and throughout the United States: Pennsylvania Geol. Survey 2nd Rept. P, v. 1, 2, 3, and atlas, 977 p., illus.
1890. Remarks on some fossil remains considered as peculiar kinds of marine plants: U. S. Natl. Mus. Proc., v. 13, p. 5-12, 1 pl.
- LESSIG, HEBER D.
1966. Landslide along highway in Vinton County, Ohio: Jour. Soil and Water Conserv., v. 21, no. 6, p. 234-236, 4 figs.
- 1968 (and Hale, William F., and Yohn, J. Leslie). Soil survey of Columbiana County, Ohio: U. S. Dept. Agriculture, Soil Conserv. Service, 132 p., 10 figs., 93 map sheets.
- LEWIS, C. F. M. See also Hobson, G. D., 1969
1966 (and Anderson, T. W., and Berti, A. A.). Geological and palynological studies of Early Lake Erie deposits, in Great Lakes research, 9th conf., Chicago, 1966, Proc.: Michigan Univ. Great Lakes Research Div. Pub. 15, p. 176-191, 5 figs.; Abs. North Am. Geology, July 1967, p. 915.
1969. Late Quaternary history of lake levels in the Huron and Erie basins, in Conference on Great Lakes research, 12th, Ann Arbor, Mich., 1969, Proc.: Ann Arbor, Mich., Internat. Assoc. Great Lakes Research, p. 250-270, 12 figs.; Abs. North Am. Geology, Dec. 1970, p. 1900.
- LEWIS, THOMAS L.
1968. Paleocurrent analysis of the Chagrin, Cleveland, Bedford, and Berea Formations of northern Ohio, in Abstracts for 1967: Geol. Soc. America Spec. Paper 115, p. 130-131.
- LIDIAK, EDWARD G. See Zietz, I., 1966a
- LINEBACK, JERRY A.
1970. Stratigraphy of the New Albany Shale in Indiana: Indiana Geol. Survey Bull. 44, 73 p., 18 figs., 1 pl.; Abs. North Am. Geology, July 1971, p. 1146.
- LINSLEY, ROBERT M.
1968. Gastropods of the Middle Devonian Anderdon Limestone: Bulls. Am. Paleontology, v. 54, no. 244, p. 333-465, 15 pls.; Abs. North Am. Geology, Jan. 1969, p. 66.
- LLOYD, ORVILLE, B., JR. See Wyrick, G. G., 1968
- LOCKE, C. DAVID
1967. Appalachian region oilfield reservoir investigations, Clinton sand, S. S. Fry South Oilfield, Rose Township, Carroll County, Ohio: Producers Monthly, v. 31, no. 10, p. 11-13, 4 figs.
- LOCKETT, ROBERT
1968. Production of gas in northern Cincinnati arch province, in Natural gases of North America - pt. 3, Natural gases in rocks of Paleozoic age: Am. Assoc. Petroleum Geologists Mem. 9, v. 2, p. 1716-1745, 3 figs.
- LOUGHEED, M. S.
1966. A classification of extraterrestrial spherules found in sedimentary rocks and till: Ohio Jour. Sci., v. 66, no. 3, p. 274-283, 2 pls.
- MCCASLIN, JOHN C.
1966. Ohio's Huron County: an exploratory gem in the east: Oil and Gas Jour., v. 64, no. 4, p. 125, 1 fig.
- MCCORMACK, D. E.
1969 (and Wilding, L. P.). Variation of soil properties within mapping units of soils with contrasting substrata in northwestern Ohio: Soil Sci. Soc. America Proc., v. 33, no. 4, p. 587-593, 3 figs.; Abs. North Am. Geology, Apr. 1970, p. 564.
- MCGOWEN, J. H. See Fisher, W. L., 1969
- MCINTOSH, WILLARD L.
1970 (and Morgan, Ida M.). Geologic map index of Ohio: U. S. Geol. Survey, 1 sheet, scale 1:1,000,000.
- MCLODA, NILES A. See Lerch, N. K., 1969
- MALCUI, ROBERT J. See Kohout, D. L., 1969
- MALONE, RODNEY. See Hoover, John R., 1969
- MAMAY, SERGIUS H. See Read, C. B., 1964
- MANGER, WALTER L.
1969. The stratigraphy of the Logan and adjacent formations (Mississippian) of Ohio: Univ. of Iowa, M. S. thesis (unpub.).
- MARTIN, R. O. R.
1966 (and Hanson, Ronald L.). Ohio, in Reservoirs in the United States: U. S. Geol. Survey Water-Supply Paper 1838, p. 78-80.
- MARTIN, WAYNE D.
1969 (and Henninger, Bernard R.). Mather and Hockingport Sandstone lentils (Pennsylvanian and Permian) of Dunkard basin, Pennsylvania, West Virginia, and Ohio: Am. Assoc. Petroleum Geologists Bull., v. 53, no. 2, p. 279-298, 13 figs.; Abs. North Am. Geology, July 1969, p. 1088.
- MASSMAN, THOMAS ANTHONY
1968. The theory of earth tides and the application of their measurement in Ohio: The Ohio State Univ., M. S. thesis (unpub.), 114 p., 9 figs.
- MAYER, VICTOR J.
1970. The undergraduate preparation of earth science teachers at The Ohio State University: Geol. Soc. America Abs. with Programs 1970, v. 2, no. 6, p. 394.
- MAYHEW, GEORGE HERBERT
1969. Seismic reflection study of the subsurface structure in western and central Ohio: The Ohio State Univ., Ph. D. dissert. (unpub.), 77 p., 15 figs., 10 pls.; Dissert. Abs. Internat., sec. B., Sci. and Eng., v. 30, no. 4, p. 1765B.
- MAYO, RONALD I. See also Cross, W. P., 1969; Webber, E. E., 1970
1969 (and Webber, Earl E.). Floods at Amesville, Ohio: U. S. Geol. Survey Hydrol. Inv. Atlas HA-324, one sheet with text.
- MECKEL, LAWRENCE D.
1967. Origin of Pottsville conglomerates (Pennsylvanian) in the central Appalachians: Geol. Soc. America Bull., v. 78, no. 2, p. 223-257, 13 figs., 2 pls.; Abs. North Am. Geology, July 1967, p. 922.
- MEEKER, R. L. See Powell, K. L., 1970
- MELVIN, RUTH W.
1970. A guide to Ohio outdoor education areas: Columbus, Ohio Dept. Nat. Resources and Ohio Acad. Science, 143 p., illus.
- MERRILL, GLEN K.
1968a. Pennsylvanian platform-type conodonts from the Appalachian Conemaugh (abs.), in Abstracts for 1966: Geol. Soc. America Spec. Paper 101, p. 139.

- 1968b. Allegheny (Pennsylvanian) platform conodonts, in Abstracts for 1967: Geol. Soc. America Spec. Paper 115, p. 147-148.
- 1968c. Allegheny (Pennsylvanian) conodonts: Louisiana State Univ., Ph. D. dissert. (unpub.), 184 p., 10 figs., 13 pls.; Dissert. Abs., sec. B, Sci. and Eng., v. 29, no. 9, p. 3365B, 1969.
1969. Pottsville (Pennsylvanian) platform conodonts from Ohio: Geol. Soc. America Abs. with Programs 1969, pt. 7, Ann. mtg., p. 149.
- METZLER, J. M.**
1967. Bedrock and glacial geology of Bath Township, Summit County, Ohio: Kent State Univ., M. S. thesis (unpub.).
- MILES, ROGER S.**
1966. *Protitanichthys* and some other coccosteomorph arthrodires from the Devonian of North America: Kgl. Svenska Vetenskapsakad. Handlingar, 4th ser., v. 10, no. 3, 49 p., illus.; Abs. North Am. Geology, May 1967, p. 631.
- MILLER, BARRY B.**
1970a. The Quaternary period, in Banks, P. O., and Feldmann, R. M., eds., Guide to the geology of northeastern Ohio: Northern Ohio Geol. Soc., p. 149-164, 9 figs.
1970b (and Wittine, Arthur H.). Depositional environment of Late Pleistocene deposits at Garfield Heights (Cleveland), Ohio: Geol. Soc. America Abs. with Programs 1970, v. 2, no. 6, p. 396.
- MILLER, FREDERICK POWELL**
1965. Physical, chemical, and mineralogical properties related to the micromorphology of the Canfield silt loam - a Fragiudalf: The Ohio State Univ., Ph. D. dissert. (unpub.); Dissert. Abs., v. 26, no. 11, p. 6273, 1966.
- MINNING, ROBERT C.**
1970. A ground-water pollution study of the Silurian aquifer at Millbury, Ohio: Univ. Toledo, M. S. thesis (unpub.).
- MINTZER, OLIN W.** See also Struble, R. A., 1967
1967 (and Struble, Richard A.). Combined techniques for terrain investigations: Highway Research Rec., no. 156, Highway Research Board Pub. 1433, p. 33-61, 17 figs.
- MICHELL, ROBERT H.**
1943. An aborigine's flint quarry: Rocks and Minerals, v. 18, p. 363.
- MITCHELL, STEVEN W.**
1967. Stratigraphy of the Silica Formation of Ohio and the Hungry Hollow Formation of Ontario, with paleogeographic interpretations: Michigan Acad. Sci., Arts and Letters, v. 52, p. 175-196, 1 fig., 5 pls.; Abs. North Am. Geology, Apr. 1968, p. 533-534.
- MOFFETT, JAMES W.** See Beeton, A. M., 1969
- MOORE, B. J.**
1967 (Shrewsbury, R. D.). Analyses of natural gases, 1966: U. S. Bur. Mines Inf. Circ. 8356, 130 p.
- MOORE, BRUCE R.**
1970 (and Clarke, Murray K.). The significance of a turbidite sequence in the Bordon Formation (Mississippian) of eastern Kentucky and southern Ohio (with French abs.), in Flysch sedimentology in North America: Geol. Assoc. Canada Spec. Paper 7, p. 211-218, 4 figs., 1 pl.; Abs. North Am. Geology, May 1971, p. 804.
- MOOS, MILTON HERMAN**
1970. The age and significance of a paleosol in Fayette County, Ohio: The Ohio State Univ., M. S. thesis (unpub.), 88 p., 28 figs., 2 pls.
- MORALES, GUSTAVO A.** See Peck, R. E., 1966
- MORAN, STEPHEN R.** See also Gross, D. L., 1969; Totten, S. M., 1968, 1969c
1967. Stratigraphy of Titusville Till in the Youngstown region, eastern Ohio: Univ. Illinois, M. S. thesis (unpub.).
1968. Stratigraphic divisions of the Titusville Till near Youngstown, Ohio, in Abstracts for 1967: Geol. Soc. America Spec. Paper 115, p. 393-394.
- MOREMAN, W. L.** See Gutschick, R. C., 1967
- MOREY, E. D.** See Morey, P. R., 1968
- MOREY, P. R.**
1968 (and Morey, E. D.). Observations on epon-embedded Griffin Hill Peat, Two Creeks *Picea*, *Cedrus penhallowii*, and *Callixylon* (abs.): Am. Jour. Botany, v. 55, no. 6, pt. 2, p. 722; Abs. North Am. Geology, Dec. 1968, p. 1840.
- MORGAN, IDA M.** See McIntosh, W. L., 1970
- MORRIS, DAVID ALBERT**
1967. Lower Conemaugh (Pennsylvanian) depositional environments and paleogeography in the Appalachian coal basin [with] v. 2, Plates: Univ. Kansas, Ph. D. dissert. (unpub.); Dissert. Abs., sec. B, Sci. and Eng., v. 28, no. 9, p. 3754B, 1968.
1968. Lower Conemaugh (Pennsylvanian) depositional environments and paleogeography in the Appalachian Coal Basin (abs.): Geol. Soc. America Spec. Paper 101, p. 144-145.
- MORRIS, ROBERT H.**
1967 (and Pierce, Kenneth L.). Geologic map of the Vanceburg quadrangle, Kentucky-Ohio: U. S. Geological Survey, Map GQ-598, one sheet; Abs. North Am. Geology, Mar. 1968, p. 375.
- MRAKOVICH, JOHN V.** See also Heimlich, R. A., 1970
1969a. The Sharon Conglomerate of northeastern Ohio: Compass, v. 46, no. 3, p. 150-158, 4 figs.; Abs. North Am. Geology, Dec. 1970, p. 1915.
1969b. Sedimentary structures and depositional environment of the Sharon Conglomerate in western Summit, eastern Medina, and northeastern Wayne Counties (Pennsylvanian): Kent State Univ., M. S. thesis (unpub.).
- MULTER, H. GRAY**
1967. Bedrock geology of Wayne County, Ohio: Ohio Geol. Survey Rept. Inv. 61, 1 sheet, map with text; Abs. North Am. Geology, Jan. 1968, p. 77.
- MURPHY, JAMES L.**
1966a. The Pennsylvanian pelecypod genus *Palaeoneilo* Hall & Whitfield: Jour. Paleontology, v. 40, no. 4, p. 867-876, 1 fig., 1 pl.; GeoSci. Abs., v. 8, no. 10, p. 39.
1966b. The Pennsylvanian nautiloid *Kionoceras ungeri* (Sturgeon & Miller): Jour. Paleontology, v. 40, no. 6, p. 1388-1390, 3 figs.; Abs. North Am. Geology, Mar. 1967, p. 359.
1967a (and Picking, Larry). A new marine member in the Conemaugh Group of Ohio: Kirtlandia, no. 1, 7 p.; Abs. North Am. Geology, Aug. 1968, p. 1185.
1967b. R. P. Stevens' pelecypod species from the Brush Creek Shale Member (Conemaugh) of Ohio: Jour. Paleontology, v. 41, no. 6, p. 1498-1504, 1 pl.; Abs. North Am. Geology, May 1968, p. 681.

- 1970a. Coiled nautiloid cephalopods from the Brush Creek Limestone (Conemaugh) of eastern Ohio and western Pennsylvania: *Jour. Paleontology*, v. 44, no. 2, p. 195-205, 1 fig., 2 pls.; *Abs. North Am. Geology*, Oct. 1970, p. 1562.
- 1970b. Euproops from the "Uffington shale" of Columbiana County, Ohio: *Annals Carnegie Mus.*, v. 41, art. 10, p. 281-286, 1 pl.
- MURRAY, MARIAN**
1967. Hunting for fossils - a guide to finding and collecting fossils in all fifty states: New York, Macmillan Co., 348 p., illus.; *Abs. North Am. Geology*, June 1968, p. 840.
- MUSGRAVE, D. K.** See Ohio Div. Lands and Soil, 1969b
- NAVE, FLOYD ROGER**
1968. Pleistocene Mollusca of southwestern Ohio and southeastern Indiana: The Ohio State Univ., Ph. D. dissert. (unpub.), 157 p., 9 figs., 11 pls.; *Dissert. Abs. Internat.*, v. 30, no. 1, p. 314B-315B, 1969.
1969. Pleistocene Mollusca of southwestern Ohio: *Sterkiana*, no. 34, 48 p., 6 figs., 9 pls.; *Abs. North Am. Geology*, Jan. 1970, p. 76.
- NEFF, JAMES R.**
1970 (and Blankenship, Terry L., Bonnett, Richard B., and Scrudato, Ronald J.). Teays River and Lake deposits: *Geol. Soc. America Abs. with Programs* 1970, v. 2, no. 3, Southeastern Sec., p. 233-234.
- NELSON, RONALD**
1967. Mineralogy of the solution cavities in selected Devonian limestone areas of Ohio: Ohio Univ., M. S. thesis (unpub.), 91 p., 3 figs., 50 pls.
- NEWS IN ENGINEERING**
1969. New slant on acid mine drainage: *News in Eng.*, v. XLI, no. 1, p. 6-7, 12, illus.
- NICKELSEN, RICHARD P.**
1967 (and Hough, Van Ness D.). Jointing in the Appalachian Plateau of Pennsylvania: *Geol. Soc. America Bull.*, v. 78, no. 5, p. 609-629, 4 figs., 6 pls.; *Abs. North Am. Geology*, Nov. 1967, p. 1547.
- NICOLL, ROBERT S.** See Rexroad, C. B., 1970a
- NORELL, WAYLAND F.**
1966. Coal outcrop and overburden mapping with Kelch plotter, in *Photogrammetry and aerial surveys: Highway Research Rec. 109 (Natl. Acad. Sci. - Natl. Research Council Pub. 1327)*, p. 39-48, 5 figs.
- NORLING, DONALD L.**
1966 (and Johnson, Allan W., and Alkire, Robert L.). Ohio, in *Oil and gas developments in northeastern states in 1965*: *Am. Assoc. Petroleum Geologists Bull.*, v. 50, no. 6, p. 1157-1161, 1 fig.
- 1967 (and Johnson, Allan W., and Alkire, Robert L.). Ohio, in *Oil and gas developments in northeastern states in 1966*: *Am. Assoc. Petroleum Geologists Bull.*, v. 51, no. 6, p. 1017-1022, 1 fig.
- 1968 (and Bendler, E. Perry, Buschman, William J., Jr., and Johnson, Allan W.). Ohio, in *Oil and gas developments in North Carolina, Maryland, Virginia, Pennsylvania, West Virginia, and Ohio*: *Am. Assoc. Petroleum Geologists Bull.*, v. 52, no. 6, p. 959-964, 1 fig.
1970. Ohio - 110 years of oil and gas: *Interstate Oil Compact Comm. Committee Bull.*, v. 12, no. 1, p. 47-63, 4 figs.; *Abs. North Am. Geology*, April 1971, p. 630.
- NORRIS, STANLEY E.**
1966a (and Spieker, Andrew M.). Ground-water resources of the Dayton area, Ohio: U. S. Geol. Survey Water-Supply Paper 1808, 167 p., 24 figs., 9 pls.; *Abs. North Am. Geology*, Sept. 1966, p. 971-972; *GeoSci. Abs.*, v. 8, no. 10, p. 87.
- 1966b (and Fidler, Richard E.). Use of type curves developed from electric analog studies of unconfined flow to determine the vertical permeability of an aquifer at Piketon, Ohio: *Ground Water*, v. 4, no. 3, p. 43-48, 4 figs.; *GeoSci. Abs.*, v. 8, no. 10, p. 85; *Abs. North Am. Geology*, Jan. 1967, p. 72-73.
- 1966c (and Fidler, Richard E.). Effect of sampling and testing methods on computed hydraulic properties of glacial outwash at Piketon, Ohio, in *Geological Survey research 1966*: U. S. Geol. Survey Prof. Paper 550-D, p. D228-D230; *Abs. North Am. Geology*, Apr. 1967, p. 499.
1967. Effects on ground-water quality and induced infiltration of wastes disposed into the Hocking River at Lancaster, Ohio: *Ground Water*, v. 5, no. 3, p. 15-19, 3 figs.; *Abs. North Am. Geology*, Dec. 1967, p. 1707-1708.
- 1969a (and Fidler, Richard E.). Correlation of carbonate rock units in northwest Ohio by natural gamma logging, in *Geological Survey research 1969*: U. S. Geol. Survey Prof. Paper 650-B, p. B158-B161, 3 figs.; *Geophys. Abs.*, no. 272, p. 1335; *Abs. North Am. Geology*, Sept. 1969, p. 1412.
- 1969b (and Fidler, Richard E.). Hydrogeology of the Scioto River valley near Piketon, south-central Ohio: U. S. Geol. Survey Water-Supply Paper 1872, 70 p., 19 figs., 4 pls.; *Abs. North Am. Geology*, Feb. 1970, p. 240.
- 1969c. The ground-water situation in Ohio: *Ground Water*, v. 7, no. 5, p. 25-33, 6 figs.; *Abs. North Am. Geology*, May 1970, p. 747.
1970. The effect of stream discharge on streambed leakage to a glacial outwash aquifer, in *Geological Survey research 1970*: U. S. Geol. Survey Prof. Paper 700-D, p. D262-D265, 3 figs.; *Abs. North Am. Geology*, June 1971, p. 981.
- NORTON, NORMAN J.**
1970 (and Allen, David). Analyses of palynomorph assemblages from Midcontinent and eastern Devonian formations: *Geol. Soc. America Abs. with Programs* 1970, v. 2, no. 6, p. 399-400.
- H. C. NUTTING COMPANY**
1967 (and G. C. Carpenter and Associates). A report on the physical features of the Ohio-Indiana area, a part of the Ohio-Kentucky-Indiana Regional Transportation and Development Plan: Hamilton County Regional Planning Comm., 24 p., app., 12 figs.
- O'BRIEN, M. H.** See Horvath, A. L., 1970b
- O'CALLAGHAN, T. C.** See Ward, D. C., 1969
- O'DONNELL, EDWARD**
1967. The lithostratigraphy of the Brassfield Formation (Lower Silurian) in the Cincinnati Arch area: Univ. Cincinnati, Ph. D. dissert. (unpub.); *Dissert. Abs.*, sec. B, Sci. and Eng., v. 28, no. 6, p. 2484B-2485B.
1969. The stratigraphy of the Brassfield Formation (Lower Silurian) in the Cincinnati Arch area, in *Abstracts for 1968*: *Geol. Soc. America Spec. Paper* 121, p. 222.
1970. The petrology of the Brassfield Formation (Lower

- Silurian) in the Cincinnati Arch area: Geol. Soc. America Abs. with Programs, v. 2, no. 1, p. 29-30.
- OFFUTT, TOM**
1967. The Black Swamp of Ohio: Explorer, v. 9, no. 2, p. 21-23, illus.
- OGDEN, J. GORDON, 3RD**
1966. Forest history of Ohio. I. Radiocarbon dates and pollen stratigraphy of Silver Lake, Logan County, Ohio: Ohio Jour. Sci., v. 66, no. 4, p. 387-400, 2 figs., 1 pl.; GeoSci. Abs. v. 8, no. 9, p. 30; Geophys. Abs., no. 251, p. 1287, 1967.
1967a (and Hay, Ruth J.). Ohio Wesleyan University natural radiocarbon measurements III: Radiocarbon, v. 9, p. 316-332; Geophys. Abs., no. 253, p. 148, 1968.
1967b. Radiocarbon and pollen evidence for a sudden change in climate in the Great Lakes region approximately 10,000 years ago, in Quaternary paleoecology - Internat. Assoc. Quaternary Research, 7th Cong., 1965, Proc., v. 7: New Haven, Conn., Yale Univ. Press, p. 117-127, 1 fig.; Abs. North Am. Geology, Sept. 1968, p. 1349-1350.
1967c. Radiocarbon determinations of sedimentation rates from hard and soft-water lakes in northeastern North America, in Quaternary paleoecology - Internat. Assoc. Quaternary Research, 7th Cong., 1965, Proc., v. 7: New Haven, Conn., Yale Univ. Press, p. 175-183, 2 figs.; Geophys. Abs., no. 261, p. 1405, 1968; Abs. North Am. Geology, Sept. 1968, p. 1349.
1969 (and Hay, Ruth J.). Ohio Wesleyan University natural radiocarbon measurements IV: Radiocarbon, v. 11, no. 1, p. 137-149; Geophys. Abs., no. 271, p. 1102.
- OHIO DEPARTMENT OF DEVELOPMENT**
1968. Mining in Ohio: Ohio Dept. Development Socio-Economic Profile Tech. Rept. 13, 75 p., illus.
- OHIO DEPARTMENT OF INDUSTRIAL RELATIONS**
Annual report of Division of Mines with coal and industrial mineral directories of reporting firms. Published annually: Columbus, Ohio Dept. Indus. Relations.
- OHIO DEPARTMENT OF NATURAL RESOURCES**
1968. "Flint" - Ohio's official gemstone: Rocks and Minerals, whole no. 343, v. 43, no. 4, p. 274-275.
- OHIO DIVISION OF GEOLOGICAL SURVEY**
1966. Development, utilization, and stratigraphy of industrial minerals in northeastern Perry and southwestern Muskingum Counties - Guide to the forty-first annual field conference of Section of Geology of the Ohio Academy of Science: Ohio Geol. Survey, 17 p., 5 figs., 1 map; GeoSci. Abs., v. 8, no. 8, p. 8; Abs. North Am. Geology, May 1967, p. 638.
(1967). Flint, Ohio's official gemstone: Ohio Geol. Survey Educ. Leaflet 6, 1 sheet, illus.
1968. Oil and gas pipe lines in Ohio: Ohio Geol. Survey map, scale 1 inch to 8 miles.
- OHIO DIVISION OF LANDS AND SOIL**
1966a. General soil map of Union County, including Soil associations of Union County, by K. L. Powell: Ohio Div. Lands and Soil, map and text on one sheet; distributed with Ohio Div. Lands and Soil Prog. Rept. 27.
1966b. General soil map of Hamilton County, including Soil associations of Hamilton County, by T. R. Smith: Ohio Div. Lands and Soil, map and text on one sheet.
1966c. General soil map of Knox County including Soil associations of Knox County, by T. R. Smith: Ohio Div. Lands and Soil, map and text on one sheet.
1967a. General soil map of Erie County, including Soil associations of Erie County, by C. E. Redmond and A. Ritchie, Jr.: Ohio Div. Lands and Soil, map and text on one sheet.
1967b. General soil map of Logan County, including Soil associations of Logan County, by K. L. Powell and V. L. Siegenthaler: Ohio Div. Lands and Soil, map and text on one sheet.
1967c. General soil map of Miami County, including Soil associations of Miami County, by K. L. Powell: Ohio Div. Lands and Soil, map and text on one sheet.
1968a. General soil map of Stark County, including Soil associations of Stark County, by R. L. Christman and D. D. Waters: Ohio Div. Lands and Soil, map and text on one sheet; distributed with Ohio Div. Lands and Soil Prog. Rept. 29.
1968b. General soil map of Summit County, including Soil associations of Summit County, by R. C. Roseler, A. Ritchie, Jr., and J. R. Steiger: Ohio Div. Lands and Soil, map and text on one sheet; distributed with Ohio Div. Lands and Soil Prog. Rept. 31.
1968c. General soil map of Seneca County, including Soil associations of Seneca County, by K. L. Powell, T. J. F. Hole, and C. H. Innis: Ohio Div. Lands and Soil, map and text on one sheet.
1968d. General soil map of Henry County, including Soil associations of Henry County, by E. C. Flesher, Jr.: Ohio Div. Lands and Soil, map and text on one sheet; distributed with Ohio Div. Lands and Soil Prog. Rept. 30.
1969a. General soil map of Montgomery County, Ohio, including Soil associations of Montgomery County, by Soil Survey Staff, U. S. Dept. Agriculture: Ohio Div. Lands and Soil Prog. Rept. 32.
1969b. General soil map of Lorain County including Soil associations of Lorain County, by J. E. Ernst and D. K. Musgrave: Ohio Div. Lands and Soil, map and text on one sheet.
- OHIO DIVISION OF PARKS AND RECREATION**
(1967). The fossils of Hueston Woods State Park: Ohio Div. Parks and Recreation, 16 p., illus.
- OHIO DIVISION OF WATER**
1966a. Water inventory of the Hocking River basin, Shade River and Leading Creek basins and adjacent Ohio River tributary areas: Ohio Div. Water, Ohio Water Plan Inventory Rept. 19, 96 p., 37 pls.
1966b. Water inventory of the Portage River and Sandusky River basins and adjacent Lake Erie tributary areas: Ohio Div. Water, Ohio Water Plan Inventory Rept. 20, 131 p., 38 pls.
1968. Water inventory of the Muskingum River basin and adjacent Ohio River tributary areas: Ohio Div. Water, Ohio Water Plan Inventory Rept. 21, 201 p., 44 pls.
1970. Ground water for planning in northwest Ohio, a study of the carbonate rock aquifers: Ohio Div. Water, Ohio Water Plan Inventory Rept. 22, 63 p., 13 figs., 15 pls., tables and photos.
- OHIO GEOLOGICAL SOCIETY**

- 1968 (and Geological Society of Kentucky). Geological aspects of the Maysville-Portsmouth region, southern Ohio and northeastern Kentucky - Joint field conf., Ohio Geol. Soc.-Geol. Soc. Kentucky, 1968: Lexington, Kentucky Geol. Survey, 86 p., 39 figs., 1 pl.; Abs. North Am. Geology, Oct. 1968, p. 1510.
- OIL AND GAS JOURNAL**
1969. Deep well activity in Ohio: Oil and Gas Jour., v. 67, no. 32, p. 120-121, 1 fig.
- OLIVER, WILLIAM A., JR.**
- 1968a. Succession of rugose coral faunas in the Lower and Middle Devonian of eastern North America, in Internat. symposium on the Devonian System: Calgary, Alberta, Canada, Alberta Soc. Petroleum Geologists, v. 2, p. 733-744, 3 figs.
- 1968b (and de Witt, Wallace, Jr., Dennison, John M., Hoskins, Donald M., and Huddle, John W.). Devonian of the Appalachian basin, United States, in Internat. symposium on the Devonian System: Calgary, Alberta, Canada, Alberta Soc. Petroleum Geologists, v. 1, p. 1001-1040, 18 figs.
- 1969 (and de Witt, Wallace, Jr., Dennison, John M., Hoskins, Donald M., and Huddle, John W.). Correlation of Devonian rock units in the Appalachian Basin: U. S. Geol. Survey Oil and Gas Inv. Chart OC-64, 1 sheet, text; Abs. North Am. Geology, Dec. 1969, p. 1966.
- OLSON, EVERETT C.**
1970. *Trematops stonei* sp. nov. (Temnospondyli: Amphibia) from the Washington Formation, Dunkard Group, Ohio: Kirtlandia, no. 8, 12 p., 2 figs.; Abs. North Am. Geology, Oct. 1970, p. 1565.
- ORTUGLIO, C.** See Walters, J. G., 1967
- OSBORNE, ROBERT HOWARD**
1966. Bedrock geology and limestone petrology of eastern Hamilton County, Ohio: The Ohio State Univ., Ph. D. dissert. (unpub.), 143 p., 20 figs., 2 pls.; Dissert Abs., sec. B, Sci. and Eng., v. 27, no. 7, p. 2415B-2416B, 1967.
1967. The American Upper Ordovician standard—VIII. R-mode factor analysis of Cincinnati limestones: Jour. Sed. Petrology, v. 37, no. 2, p. 649-657; Abs. North Am. Geology, Dec. 1967, p. 1709.
- 1968a. Standard Cincinnati Series, eastern Hamilton County, Ohio, in Abstracts for 1967: Geol. Soc. America Spec. Paper 115, p. 169.
- 1968b. American Upper Ordovician standard—IX. Bedrock geology of eastern Hamilton County, Ohio: Am. Assoc. Petroleum Geologists Bull., v. 52, no. 11, pt. 1, p. 2137-2152, 10 figs.; Abs. North Am. Geology, May 1969, p. 751.
- 1969a. The American Upper Ordovician standard—XI. Multivariate classification of typical Cincinnati calcarenites: Jour. Sed. Petrology, v. 39, no. 2, p. 769-776, 3 figs.
- 1969b. Multivariate classification of Cincinnati (Upper Ordovician) calcarenites, Hamilton County, Ohio, in Abstracts for 1968: Geol. Soc. America Spec. Paper 121, p. 227.
- 1970a. The American Upper Ordovician standard—XII. Time-trend analysis of Cincinnati calcarenites, Hamilton County, Ohio: Jour. Geology, v. 78, no. 3, p. 363-371, 1 fig.; Abs. North Am. Geology, Dec. 1970, p. 1922.
- 1970b. Bedrock geology of the Madeira quadrangle, Hamilton and Clermont Counties, Ohio: Ohio Geol. Survey Rept. Inv. 77, one sheet, map with text; Abs. North Am. Geology, Mar. 1971, p. 456.
- OSGOOD, RICHARD G., JR.**
1969. Late Ordovician U-shaped borrows of southeastern Ohio: Geol. Soc. America Abs. with Programs 1969, pt. 6, North-Central Sec., p. 35-36.
1970. Trace fossils of the Cincinnati area: Palaeontographica Americana, v. 6, no. 41, p. 281-444, 29 figs., pls. 57-83.
- OTTUM, MARGARET G.**
1969. Paleogeology of the Brush Creek (Pennsylvanian), of Columbiana County, Ohio: Bowling Green State Univ., M. S. thesis (unpub.), 86 p.
- OVERBEY, W. K., JR.** See Rough, R. L., 1970; Whieldon, C. E., Jr., 1965
- OWEN, DONALD E.** See Lené, G. W., 1969a, b
- OWENS, GORDON L.**
1967. The Precambrian surface of Ohio: Ohio Geol. Survey Rept. Inv. 64, 8 p., 1 pl.; Abs. North Am. Geology, Nov. 1967, p. 1548-1549; Geophys. Abs., no. 252, p. 47, 1968.
1970. The subsurface Silurian-Devonian "Big Lime" of Ohio: Ohio Geol. Survey Rept. Inv. 75, 17 p., 2 pls.
- PARKER, DANA C.** See Beeton, A. M., 1969
- PARSLEY, RONALD L.**
1969. Studies in Middle Ordovician primitive Echinodermata: Univ. Cincinnati, Ph. D. dissert. (unpub.).
- PATTON, JOHN B.** See also Becker, L. E., 1968
- 1969 (and Dawson, T. A.). Some petroleum prospects of the Cincinnati Arch province, in Proceedings of the technical sessions, Kentucky Oil and Gas Assoc. 33rd ann. mtg., June 5-6, 1969: Kentucky Geol. Survey Spec. Pub. 18, p. 32-39, 9 figs.; Abs. North Am. Geology, July 1970, p. 1092.
- PAUKEN, ROBERT J.**
1966. New species of ostracodes from the Silica Formation (Middle Devonian) in northwestern Ohio: Ohio Jour. Sci., v. 66, no. 5, p. 536-547, 16 figs.
- PECK, JOHN H.**
1966. Upper Ordovician formations in the Maysville area, Kentucky: U. S. Geol. Survey Bull. 1244-B, p. B1-B30, 8 figs.; Abs. North Am. Geology, May 1967, p. 641.
- PECK, RAYMOND E.**
- 1966 (and Morales, Gustavo A.). The Devonian and Lower Mississippian charophytes of North America: Micropaleontology, v. 12, no. 3, p. 303-324, 2 figs., 4 pls.; Abs. North Am. Geology, Apr. 1967, p. 503.
- PERRY, T. G.** See Anstey, R. L., 1969a
- PETERS, LEROY R.**
1966. Evolutionary trends of the *Muscrospirifer*: Wisconsin Acad. Sci., Arts and Letters Trans., v. 55, p. 139-143, 4 figs.; Abs. North Am. Geology, Dec. 1967, p. 1712.
- PETERSON, REX M.**
1966. Ostracodes of genera *Bufina* and *Euglyphella* from the Middle Devonian of New York, Ohio, Michigan, and Ontario: Jour. Paleontology, v. 40, no. 1, p. 1-20, 2 figs., 4 pls.; GeoSci. Abs., v. 8, no. 3, p. 47; Abs. North Am. Geology, July 1966, p. 759.
- PETRO, JAMES H.**
- 1967 (and Shumate, William H., and Tabb, Marion F.). Soil Survey of Ross County, Ohio: U. S. Dept. Agriculture Soil Conserv. Service, 168 p., 11 figs.,

- 1 county map and 88 map sheets.
- PICKING, LARRY W. See Fisher, S. P., 1968; Murphy, J. L., 1967a
- PIERCE, KENNETH L. See Morris, R. H., 1967
- PINKER, ROBERT WARREN
1970. The sedimentary petrology of the Logan Formation in Licking County, Ohio: The Ohio State Univ., M. S. thesis (unpub.), 95 p., 9 figs., 14 pls.
- POHOWSKY, ROBERT A.
1969. An introduction to the paleontology of shell penetrating Ctenostomata (Ectoprocta): Univ. Cincinnati, M. S. thesis (unpub.).
- POJETA, JOHN, JR.
1966. North American Ambonychiidae (Pelecypoda): *Palaeontographica Americana*, v. 5, no. 36, p. 131-241, 1 fig., pls. 19-47; Abs. North Am. Geology, Feb. 1967, p. 225.
1968. Additional data on the Paleozoic pelecypod family Ambonychiidae: *Jour. Paleontology*, v. 42, no. 5, p. 1255-1257, 2 pls.; Abs. North Am. Geology, May 1969, p. 758.
- POPE, JOHN K.
1966. Comparative morphology and shell histology of the Ordovician *Strophomena* (Brachiopoda): Univ. Cincinnati, Ph. D. dissert. (unpub.); Dissert. Abs., sec. B, Sci. and Eng., v. 27, no. 9, p. 3152B-3153B, 1967.
- POWELL, K. L. See also Ohio Div. Lands and Soil, 1966a, 1967b, c, 1968c
1966 (and Ritchie, A.). An inventory of Ohio soils, Union County: Ohio Div. Lands and Soil Prog. Rept. 27, 36 p., illus., general soil map of Union County in pocket.
1970 (and Meeker, R. L.). Montgomery County, Ohio, soil inventory: Ohio Div. Lands and Soil Prog. Rept. 32, 55 p., illus., general soil map of Montgomery County in pocket.
- PRATHER, BRUCE A. See Fergusson, W. B., 1968
- PRÉE, HENRY L., JR.
1962a. Upper Raccoon Creek basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index N-1, map with text.
1962b. Lower Raccoon Creek basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index N-2, map with text.
1962c. Symmes Creek, Ice Creek and Indian Guyan Creek basins, and adjacent Ohio River tributaries underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index N-3 and 5, map with text.
1962d. Little Scioto River and Pine Creek basins and adjacent Ohio River tributaries underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index N-4, map with text.
1962e. Black and Clear Fork basins underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index P-1, map with text.
1962f. Lower Mohican River basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index P-2, map with text.
1962g. Upper Killbuck Creek basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index P-3, map with text.
1962h. A part of the Walhonding River basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index P-4, map and text.
- 1962i. Sandy Creek basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index P-7, map with text.
1962j. Kokosing River basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index P-12, map with text.
- PRYCE, ROBERT A. See also Horvath, A. L., 1970b
1970. The Silurian System in western West Virginia and southeastern Ohio, in Silurian stratigraphy, central Appalachian basin, Appalachian Geological Society field conference: *Appalachian Geol. Soc.*, p. 42-46, 1 fig.
- PRYOR, WAYNE A.
1967. Biogenic directional features on several Recent point-bars: *Sed. Geology*, v. 1, no. 3, p. 235-245, 8 figs.; Abs. North Am. Geology, July 1968, p. 1026.
1968 (and Barr, Jim L.). Sole marks in siltstone of nonturbidite origin (abs.): *Am. Assoc. Petroleum Geologists Bull.*, v. 52, no. 3, p. 546.
- RAMSEY, NANCY JO
1969a. Upper Emsian-Upper Givetian conodonts from the Columbus and Delaware Limestones and lower Olenangy Shale of central Ohio: The Ohio State Univ., M. S. thesis (unpub.), 78 p., 1 fig., 2 pls.
1969b. Conodonts from the Columbus and Delaware Limestones (Middle Devonian) of central Ohio: *Geol. Soc. America Abs. with Programs 1969*, pt. 6, North-Central Sec., p. 39.
- RANDOLPH, J. R.
1966 (and Deike, R. G.). Bibliography of hydrology of the United States, 1963: U. S. Geol. Survey Water-Supply Paper 1863, 166 p.; *GeoSci. Abs.*, v. 8, no. 10, p. 83.
1969 (and Baker, N. M., and Deike, R. G.). Bibliography of hydrology of the United States and Canada, 1964: U. S. Geol. Survey Water-Supply Paper 1864, 232 p.
- RAPP, J. R.
1969 (and Doyel, W. W., and Chase, E. B., compilers). Edition 1968, Catalog of information on water data, Index to ground water stations: U. S. Geol. Survey, Office Water Data Coordination, 657 p.
- RAPPARLIE, DONALD F.
1966 (and Urban, Donald R.). Soil survey of Wood County, Ohio: U. S. Dept. Agriculture Soil Conserv. Service, 96 p., 9 figs., 1 county map and 106 map sheets.
- RAU, JON L.
1969. Hydrogeology of the Berea and Cussewago Sandstones in northeastern Ohio: U. S. Geol. Survey Hydrol. Inv. Atlas HA-341, 2 sheets, scale 1:250,000; Abs. North Am. Geology, Sept. 1970, p. 1413.
1970a. Pennsylvanian System of northeast Ohio, in Banks, P. O., and Feldmann, Rodney M., eds., Guide to the geology of northeastern Ohio: *Northern Ohio Geol. Soc.*, p. 69-124, 38 figs.
1970b. Environmental hydrology of the Akron metropolitan area, Ohio: *Geol. Soc. America Abs. with Programs*, v. 2, no. 6, p. 402-403.
- RAY, LOUIS L.
1966. Pre-Wisconsin glacial deposits in northern Kentucky, in *Geological Survey research 1966*: U. S. Geol. Survey Prof. Paper 550-B, p. B91-B94,

- 1 fig.; Abs. North Am. Geology, Nov. 1966, p. 1216.
1969. Glacial erratics and the problem of glaciation in northeast Kentucky and southeast Ohio - a review and suggestion, in Geological Survey research 1969: U. S. Geol. Survey Prof. Paper 650-D, p. D195-D199, 1 fig.; Abs. North Am. Geology, July 1970, p. 1098.
- READ, CHARLES B.
1946. A Pennsylvanian florule from the Forkston coal in the Dutch Mountain outlier, northeastern Pennsylvania: U. S. Geol. Survey Prof. Paper 210-B, p. 17-23, 2 pls.
- 1964 (and Mamay, Sergius H.). Upper Paleozoic floral zones and floral provinces of the United States: U. S. Geol. Survey Prof. Paper 454-K, 35 p., 19 pls.
- REDMOND, CHARLES E. See also Hole, T. J. F., 1970; Ohio Div. Lands and Soil, 1967a
- 1967 (and Ritchie, A.). An inventory of Ohio soils, Erie County: Ohio Div. Lands and Soil Prog. Rept. 28, 50 p., illus., general soil map of Erie County in pocket.
- REED, JOHN C., JR. See Willden, R., 1968
- REEVES, THOMAS LESLIE
1966. The Fairmount Formation (Upper Ordovician) on the eastern flank of the Cincinnati Arch and its Bryozoa fauna: Univ. Kentucky, M. S. thesis (unpub.).
- RENICK, HOWARD, JR.
1969. Magnetotelluric investigations in the area of the Tobacco Root mountains, southwestern Montana; southeastern Montana; and southern Illinois, Indiana, and Ohio: Indiana Univ., Ph. D. dissert. (unpub.); Dissert. Abs. Internat., sec. B, Sci. and Eng., v. 30, no. 5, p. 2263B.
- REXROAD, CARL B.
1967. Stratigraphy and conodont paleontology of the Brassfield (Silurian) in the Cincinnati Arch area: Indiana Geol. Survey Bull. 36, 64 p., 4 figs., 4 pls.; Abs. North Am. Geology, Dec. 1967, p. 1718.
- 1970a (and Nicoll, Robert S.). Summary of conodont biostratigraphy of the Silurian System of North America: Geol. Soc. America Mem. 127, p. 207-225, 2 figs., 2 pls. [1971].
- 1970b. An outline of Silurian conodont zones in the Illinois Basin and the Cincinnati Arch area, in Correlation of the North American Silurian rocks: Geol. Soc. America Spec. Paper 102, p. 91-94; Abs. North Am. Geology, Dec. 1971, p. 2099.
- RICHARD, BENJAMIN H.
1969. Gravity anomalies in parts of Clark and Champaign Counties, Ohio: Geol. Soc. America Abs. with Programs 1969, pt. 6, North-Central Sec., p. 41.
- RICHTMYER, ALLAN G.
1965. A subsurface study of the Middle Ordovician sequence in Morrow County, Ohio: Michigan State Univ., M. S. thesis (unpub.).
- RICKARD, LAWRENCE V.
- 1969a. Stratigraphy of the Salina Group and origin of its salt beds: Geol. Soc. America Abs. with Programs 1969, pt. 1, Northeastern Sec., p. 49-50.
- 1969b. Stratigraphy of the upper Silurian Salina Group, New York, Pennsylvania, Ohio, Ontario: New York State Mus. and Sci. Service, Map and Chart Ser. 12, 57 p., 7 figs., 14 pls.
1970. Gamma-ray logs and the origin of salt, in Symposium on salt, 3rd, v. 1 (J. L. Rau and L. F. Dellwig, eds.): Cleveland, Ohio, Northern Ohio Geol. Soc., p. 34-39, 6 figs.; Abs. North Am. Geology, Apr. 1971, p. 644.
- RIFE, DAVID L.
1967. Stonelick Creek - rocks and trilobites: Rocks and Minerals, whole no. 329, v. 42, no. 2, p. 113-115, 1 fig.
- RIGBY, J. KEITH
1966. Spicule structure of *Dystactospongia madisonensis* Foerste from the Ohio Ordovician, in Abstracts for 1965: Geol. Soc. America Spec. Paper 87, p. 261.
- RISLEY, CLIFFORD, JR.
- 1966 (and Abbott, William L.). Radioactivity in Lake Erie and its tributaries, in Great Lakes research, 9th Conf., Chicago, 1966, Proc.: Michigan Univ. Great Lakes Research Div. Pub. 15, p. 416-422, 5 figs.; Abs. North Am. Geology, July 1967, p. 935.
- RITCHIE, A., JR. See also Ohio Div. Lands and Soil, 1967a, 1968b; Powell, K. L., 1966; Redmond, C. E., 1967
1969. An inventory of Ohio soils, Summit County: Ohio Div. Lands and Soil Prog. Rept. 31, 41 p., illus., general soil map of Summit County in pocket.
- ROBERTS, HARRY H.
1966. A paleoecological study of a lower Allegheny shale (Pennsylvanian) in eastern Ohio: Louisiana State Univ., M. S. thesis (unpub.).
- ROBERTSON, JAMES F.
1967. Drive for Lake Erie gas mushrooming: Oil and Gas Jour., v. 65, no. 23, p. 59-60, 1 fig.
- ROCKS AND MINERALS
1968. Some rocks and minerals found in Ohio: Rocks and Minerals, whole no. 340, v. 43, no. 1, p. 16.
- ROEDDER, EDWIN
1969. Varve-like banding of possible annual origin in celestite crystals from Clay Center, Ohio, and in other minerals: Am. Mineralogist, v. 54, nos. 5-6, p. 796-810, 2 figs.; Abs. North Am. Geology, May 1970, p. 762.
- ROEN, JOHN B.
1969. Stratigraphic subdivision and nomenclature of the coal-bearing rocks of the Monongahela and Dunkard groups of the northern part of the Dunkard basin, Ohio, Pennsylvania, and West Virginia, in Some Appalachian coals and carbonates: models of ancient shallow-water deposition-Geological Society America Coal Division field trip, Nov. 1969: Morgantown, West Virginia Geol. and Econ. Survey, p. 89-91, 1 fig.
- ROGERS, M. A. See Swain, F. M., 1967
- ROHRBACHER, TIMOTHY J. See Hatfield, C. B., 1966, 1968a
- ROLFE, W. D. IAN
- 1966 (and Denison, Robert H.). The supposed fish *Pseudodontichthys* Skeels, 1962, is the phyllocarid crustacean *Dithyrocaris*: Jour. Paleontology, v. 40, no. 1, p. 214-215; GeoSci. Abs., v. 8, no. 3, p. 47.
- ROONEY, LAWRENCE F.
1966. Evidence of unconformity at top of Trenton

- Limestone in Indiana and adjacent states: *Am. Assoc. Petroleum Geologists Bull.*, v. 50, no. 3, p. 533-546, 9 figs.; *GeoSci. Abs.*, v. 8, no. 6, p. 21; *Abs. North Am. Geology*, Aug. 1966, p. 871.
- 1970 (and Ault, Curtis H.). Patterns of Devonian sand on the North American craton and their interpretation: Discussion [of paper by C. H. Summer-son and D. H. Swann, 1970]: *Geol. Soc. America Bull.*, v. 81, no. 8, p. 2519-2520, 1 fig.
- ROSELER, R. C. See Ohio Div. Lands and Soil, 1968b
- ROSENGREEN, THEODORE ERNEST
1970. The glacial geology of Highland County, Ohio: The Ohio State Univ., Ph. D. dissert. (unpub.), 163 p., 36 figs., 1 pl.
- ROSS, JUNE PHILLIPS
1967. Fossil problematica from Upper Ordovician, Ohio: *Jour. Paleontology*, v. 41, no. 1, p. 37-42, 2 figs., 5 pls.; *Abs. North Am. Geology*, Aug. 1967, p. 1102.
- ROSS, REUBEN JAMES, JR.
1967. Calymenid and other Ordovician trilobites from Kentucky and Ohio: *U. S. Geol. Survey Prof. Paper* 583-B, 19 p., 3 figs., 5 pls.; *Abs. North Am. Geology*, Feb. 1968, p. 240.
- ROSTVEDT, J. O. See also Beaber, H. C., 1965
1968 (and others). Summary of floods in the United States during 1963: *U. S. Geol. Survey Water-Supply Paper* 1830-B, 120 p., 40 figs.
- ROTH, ERNEST E.
1968. Natural gases of Appalachian basin, in *Natural gases of North America - pt. 3, Natural gases in rocks of Paleozoic age*: *Am. Assoc. Petroleum Geologists Mem.* 9, v. 2, p. 1702-1715, 4 figs.
- ROTH, ROBERT A.
1969. Earth science and Ohio: *Jour. Geol. Education*, v. 17, no. 5, p. 185-187; *Abs. North Am. Geology*, July 1970, p. 1104.
- ROUGH, R. L.
1970 (and Overbey, W. K., Jr.). Lithologic descriptions of Appalachian area oil-producing formations: *U. S. Bur. Mines Inf. Circ.* 8473, 133 p., 24 figs.; *Abs. North Am. Geology*, Jan. 1971, p. 102.
- ROWLAND, MARK R.
1969. Hydrogeologic study of the Silurian-Devonian aquifer of the upper Auglaize River basin, Ohio: Univ. Toledo, M. S. thesis (unpub.), 106 p.
1970 (and Kunkle, George R.). Cones of influence developed in the Silurian-Devonian aquifer, Maumee River basin, Ohio: *Ground Water*, v. 8, no. 3, p. 37-43, 2 figs.; *Abs. North Am. Geology*, Jan. 1971, p. 102.
- RUCH-HIRZEL, MARY LOU
1970. General geology and log of the western half of the Ohio Turnpike: Bowling Green State Univ., M. S. thesis (unpub.), 79 p.
- RUTLEDGE, ELLIOTT MOYE
1969. Loess in Ohio - Composition in relation to several local rivers: The Ohio State Univ., Ph. D. dissert. (unpub.); *Dissert. Abs. Internat.*, sec. B, *Sci. and Eng.*, v. 30, no. 4, p. 1464B.
- SABLE, EDWARD G.
1970. Source areas of Lower Mississippian red beds in eastern midcontinent, in *Geological Survey research 1970*: *U. S. Geol. Survey Prof. Paper* 700-D, p. D88-D91, 1 fig.
- SAFFORD, FREDERICK B.
1969 (compiler). Subsurface information catalog, 1963-1967: *Ohio Geol. Survey Inf. Circ.* 35, 58 p.; *Abs. North Am. Geology*, July 1970, p. 1105.
- SAINES, MARVIN
1966. Geology of the College Corner, Ohio-Indiana area with a chapter on ground-water resources: Miami Univ., M. S. thesis (unpub.).
1968. Map interpretation and classification of buried valleys: *Ground Water*, v. 6, no. 4, p. 32-37, 5 figs.
- SANFORD, B. V.
1968. Devonian of Ontario and Michigan, in *Internat. symposium on the Devonian System*: Calgary, Alberta, Canada, *Alberta Soc. Petroleum Geologists*, v. 1, p. 973-999, 12 figs.
- SAUNDERS, BURNETT W. See Yochelson, E. L., 1967
- SAWA, TAKASHI. See Conkin, J. E., 1970
- SAYLOR, TIMOTHY E.
1968. The Precambrian in the subsurface of north-western Pennsylvania and adjoining areas: *Pennsylvania Geol. Survey Inf. Circ.* 62, 25 p., 6 figs., 2 pls.
- SCHAEFER, EDWARD J.
1965 (and Kaser, Paul). Graphical aids for the solution of formulas used in analyzing induced infiltration aquifer tests: *Ohio Div. Water Tech. Rept.* 6, 5 p., 12 pls.
- SCHEELE, WILLIAM E.
1966. Post-glacial Ohio: *Explorer*, v. 8, no. 3, p. 10-11, 2 figs.; *Abs. North Am. Geology*, Mar. 1967, p. 375.
1967. Summer, the time for rock hounds: *Explorer*, v. 9, no. 2, p. 4-7, illus.
- SCHMIDT, JAMES J.
1961a. Deer Creek basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index M-7, map with text.
1961b. Scioto River basin (middle portion) underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index M-8, map with text.
1961c. Walnut Creek basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index M-9, map with text.
1961d. Salt Creek basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index M-10, map with text.
1961e. Scioto River basin (part lower portion) underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index M-11, map with text.
1962a. Scioto River basin (lower portion) underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index M-15, map with text.
1962b. Little Salt Creek basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index M-16, map with text.
1962c. Scioto Brush Creek basin and adjacent Ohio River tributaries underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index M-17, map with text.
1962d. Middle Tuscarawas River and Sugar Creek basins underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index P-5, map with text.
1962e. Conotton Creek basin underground water resources: Ohio Div. Water, Ohio Water Plan Inven-

- tory, File Index P-8, map with text.
- 1962f. Part of upper portion of the Muskingum River basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index P-11, map with text.
- 1962g. A portion of the Licking River basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index P-13, map with text.
- 1962h. South Fork of Licking River basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index P-14, map with text.
- SCHNEIDER, W. J.
1968 (compiler). Ohio, in Water data metropolitan areas — a summary of data from 222 areas in the United States: U. S. Geol. Survey Water-Supply Paper 1871, p. 258-280.
- SCHOPF, J. M.
1969 (and Schwietering, J. E.). Littoral control of the Foerstia zone in Upper Devonian Ohio Shale: Geol. Soc. America Abs. with Programs 1969, pt. 6, North-Central Sec., p. 42-43.
1970 (and Schwietering, J. F.). The Foerstia zone of the Ohio and Chattanooga Shales: U. S. Geol. Survey Bull. 1294-H, 15 p., 2 figs., 2 pls.; Abs. North Am. Geology, Mar. 1971, p. 474-475.
- SCHOPF, THOMAS J. M. See Webers, G. F., 1966
- SCHRIDER, LEO A.
1968. Clinton sand reservoir study - a progress report: Producers Monthly, v. 32, no. 7, p. 10, 12-14, 9 figs.
- SCHROEDER, M. E.
1966 (and Collier, C. R.). Water-quality variations in the Cuyahoga River at Cleveland, Ohio, in Geological Survey research 1966: U. S. Geol. Survey Prof. Paper 550-C, p. C251-C255, 4 figs.
- SCHUMAKER, G. A. See Holtan, H. N., 1968
- SCHWALB, HOWARD R.
1970 (and Smith, Juanita G.). Catalog of well samples and cores on file at Kentucky Geological Survey: Kentucky Geol. Survey Inf. Circ. 19, 182 p., 1 fig.
- SCHWIETERING, JOSEPH FRANCIS. See also Schopf, J. M., 1969, 1970
1970. Devonian shales of Ohio and their eastern equivalents: The Ohio State Univ., Ph. D. dissert. (unpub.), 79 p., 9 figs., 8 pls.; Dissert. Abs. Internat., sec. B, Sci. and Eng., v. 31, no. 4, p. 2067B.
- SCOTT, ALAN J. See Fisher, W. L., 1969
- SCOTT, RALPH D.
1967. Cedar Swamp, in A study of two bogs: Explorer, v. 9, no. 1, p. 6-8, illus.
- SCRUDATO, RONALD J. See Neff, J. R., 1970
- SEAGRAN, HARRY L.
1970. Mercury in Great Lakes fish: Explorer, v. 12, no. 3, p. 14-20, illus.
- SEARS, PAUL B.
1967. The Castalia Prairie: Ohio Jour. Sci., v. 67, no. 2, p. 78-88, 5 figs.; Abs. North Am. Geology, Feb. 1968, p. 243.
- SEDAM, A. C.
1970 (and Stein, R. B.). Saline ground-water resources of Ohio: U. S. Geol. Survey Hydrol. Inv. Atlas HA-366, 2 sheets, scale 1:500,000; Abs. North Am. Geology, June 1971, p. 1000.
- SEDWICK, S. P. See Wasson, J. T., 1969
- SEIBERT, HENRI C.
1966. The cause of fish kills in the Hocking River: Ohio Div. Wildlife, Ohio Fish Mons., no. 1, 25 p., 14 figs.
- SHAVER, ROBERT H.
1970. Sunbury Shale, Kinderhookian Series, Mississippian System, in Shaver, R. H., and others, Compendium of rock-unit stratigraphy in Indiana: Indiana Geol. Survey Bull. 43, p. 173-174.
- SHAW, JIMMY E.
1966. An investigation of ground-water contamination by oil-field brine disposal in Morrow and Delaware Counties, Ohio: The Ohio State Univ., M. S. thesis (unpub.), 127 p., 21 figs., 19 pls.
- SHEARROW, GEORGE G.
1966. Paleozoic rocks in Ohio, in Stratigraphic cross section of Paleozoic rocks - Colorado to New York: Am. Assoc. Petroleum Geologists Cross Section Pub. 4, p. 41-45, 1 pl.; Abs. North Am. Geology, July 1967, p. 941.
- SHEFFEY, NOLA B. See Zubovic, P., 1966
- SHERZER, W. H. See Grabau, A. W., 1910
- SHORT, N. M.
1968 (and Bunch, T. E.). A worldwide inventory of features characteristic of rocks associated with presumed meteorite impact structures, in Shock metamorphism of natural materials, 1st Conf., Greenbelt, Md., 1966, Proc.: Baltimore, Md., Mono Book Corp., p. 255-266, 24 figs.
- SHREWSBURY, R. D. See Moore, B. J., 1967
- SHRODE, RAYMOND S.
1966. A railroad geologist looks at limestone and dolomite, in A symposium on the geology of industrial limestone and dolomite: Ohio Jour. Sci., v. 66, no. 2, p. 110-115.
- SHUMATE, WILLIAM H. See Petro, J. H., 1967
- SIEGENTHALER, V. L. See Ohio Div. Lands and Soil, 1967b
- SIGLER, JAMES P. See Kesling, R. V., 1969c
- SIGMA GAMMA EPSILON
1968. 1968 national convention, Cincinnati, Ohio - Handbook and guidebook: Cincinnati, Ohio, Sigma Gamma Epsilon, Alpha Delta Chapter, (79) p., illus.; Abs. North Am. Geology, July 1969, p. 1116.
- SINGH, RAMAN J.
1966. Conodonts from the Bellevue Limestone Member of the McMillan Formation (Upper Ordovician) of Cincinnati, Ohio: Univ. Cincinnati, M. S. thesis (unpub.).
- SITLER, ROBERT F.
1968. Glacial till in oriented thin section, in International Geological Congress, 23d, Prague, 1968, Proc., sec. 8: Prague, Academia, p. 283-295, 9 figs.
1969. Weathering in glacial till: Geol. Soc. America Abs. with Programs 1969, pt. 6, North-Central Sec., p. 43.
- SKINNER, RAY, JR.
1967. Earth science in Ohio's secondary schools: Ohio Jour. Sci., v. 67, no. 2, p. 113-120, 2 figs.; Abs. North Am. Geology, Feb. 1968, p. 246.
1969. Growth of earth science in the secondary schools in Ohio: Ohio Jour. Sci., v. 69, no. 6, p. 371-375; Abs. North Am. Geology, Aug. 1970, p. 1278.
- SKOCH, EDWIN J. See also Britt, N. W., 1968
1969 (and Britt, N. Wilson). Monthly variation in phosphate and related chemicals found in the sedi-

- ment in the island area of Lake Erie, 1967-68, with reference to samples collected in 1964, 1965, and 1966, in Conference on Great Lakes research, 12th, Ann Arbor, Mich., 1969, Proc.: Ann Arbor, Mich., Internat. Assoc. Great Lakes Research, p. 325-340, 6 figs.; Abs. North Am. Geology, Dec. 1970, p. 1943.
- SLIDER, H. C.**
1964. Effects of produced gas-oil ratios on oil recovery from the Trempealeau reservoirs: *Producers Monthly*, v. 28, no. 11, p. 12-15, 3 figs.
- SMECK, N. E.** See also Wilding, L. P., 1969
1968 (and Wilding, L. P., and Holowaychuk, N.). Genesis of argillic horizons in Celina and Morley soils of western Ohio: *Soil Sci. Soc. America Proc.*, v. 32, no. 4, p. 550-556, 4 figs.; Abs. North Am. Geology, Mar. 1969, p. 435.
- SMITH, BRADLEY E.**
1969. Bedrock geology of the Caldwell North quadrangle, Guernsey and Noble Counties, Ohio: *Ohio Geol. Survey Rept. Inv. 72*, map with text, one sheet; Abs. North Am. Geology, Dec. 1969, p. 1888.
- SMITH, EDWIN E.**
1966. Engineering aspects of acid mine drainage, in *Water quality and recreation in Ohio*, symposium on water resources research, 2nd ann., Proc.: Columbus, The Ohio State Univ., Water Resources Center, p. 187-203, 1 fig.
- SMITH, JAMES MITCHELL**
1966. Ohio landscape puzzle: *Indiana Acad. Sci. Proc.*, v. 75, 1965, p. 202-205, 1966; Abs. North Am. Geology, Mar. 1967, p. 381.
1967. Soils portion of geology course (abs.): *Indiana Acad. Sci. Proc.*, 1966, v. 76, p. 371.
- SMITH, JOHN D.**
1966. The use of rock mechanics in mine design at the Fairport Mine, Morton Salt Company, in *Symposium on salt*, 2nd - v. 2, Rock mechanics, geophysics, evaporated salt, solution mining, underground storage: *Cleveland, Ohio, Northern Ohio Geol. Soc.*, p. 34-45, 5 figs.; Abs. North Am. Geology, Jan. 1967, p. 94-95.
- SMITH, JUANITA G.** See Schwalb, H. R., 1970
- SMITH, KENNETH R.** See Britt, N. W., 1968
- SMITH, T. R.** See Ohio Div. Lands and Soil, 1966b, c
- SMYTH, PAULINE**
1969 (compiler). *Bibliography of Ohio geology, 1961-1965*: *Ohio Geol. Survey Inf. Circ. 36*, 46 p., 1 fig.
- SNOWDEN, ARNOLD E.**
1967. Mining activities in brief, in 1966 *Division of Mines Report*: Columbus, Ohio Div. Mines, Dept. Indus. Relations, p. 1-5.
1968. Mining activities in brief, in 1967 *Division of Mines Report*: Columbus, Ohio Div. Mines, Dept. Indus. Relations, p. 1-6.
1969. Mining activities in brief, in 1968 *Division of Mines Report*: Columbus, Ohio Div. Mines, Dept. Indus. Relations, p. 1-5.
1970. Mining activities in brief, in 1969 *Division of Mines Report*: Columbus, Ohio Div. Mines, Dept. Indus. Relations, p. 1-5.
- SPARLING, DALE.** See also Horvath, A. L., 1967a
1967. Anomalous drainage pattern and crustal tilting in Ottawa County and vicinity, Ohio: *Ohio Jour. Sci.*, v. 67, no. 6, p. 378-381, 3 figs.; Abs. North Am. Geology, May 1968, p. 708.
1970. The Bass Islands Formation in its type region: *Ohio Jour. Sci.*, v. 70, no. 1, p. 1-33, 58 figs.; Abs. North Am. Geology, Oct. 1970, p. 1590.
- SPIEKER, ANDREW M.** See also Norris, S. E., 1966
1965. Hydrogeologic aspects of an analog model study of the Fairfield-New Baltimore area, Ohio: *Stanford Univ.*, Ph. D. dissert. (unpub.); *Dissert. Abs.*, v. 26, no. 7, p. 3871, 1966.
1968a. Ground-water hydrology and geology of the lower Great Miami River valley, Ohio: *U. S. Geol. Survey Prof. Paper 605-A*, 37 p., 8 figs., 2 pls.; Abs. North Am. Geology, May 1969, p. 779.
1968b. Effect of increased pumping of ground water in the Fairfield-New Baltimore area, Ohio - a prediction by analog-model study: *U. S. Geol. Survey Prof. Paper 605-C*, 34 p.; Abs. North Am. Geology, Jan. 1969, p. 105.
1968c. Future development of the ground-water resource in the lower Great Miami River valley, Ohio - problems and alternative solutions: *U. S. Geol. Survey Prof. Paper 605-D*, 15 p., 5 figs.; Abs. North Am. Geology, Oct. 1968, p. 1531.
1969. Hydrogeologic maps for urban planning (abs.): *Eos (Am. Geophys. Union Trans.)*, v. 50, no. 11, p. 613.
- SPIEKER, EDMUND M.**
1969 (and Bates, Robert L.). *History of the Department of Geology at The Ohio State University: bound with The Ohio State Univ. Dept. Geology Newsletter*, 1969, 28 p.
- SPOLEY, ROBERT J.**
1967. The bedrock geology of the Oxford quadrangle, Butler-Preble Counties, Ohio: *Miami Univ.*, M. A. thesis (unpub.).
- STADNICHENKO, TAISIA.** See Zubovic, P., 1966
- STANTON, E. C., JR.**
1966. Morrow County, Ohio - case history of exploration and production (abs.): *Am. Assoc. Petroleum Geologists Bull.*, v. 50, no. 3, p. 636.
- STEELE, JOHN**
1969. Statistical correlation study of the Upper Richmond Group: *Geol. Soc. America Abs. with Programs 1969*, pt. 6, North-Central Sec., p. 44.
- STEIGER, JOSEPH R.** See also Ohio Div. Lands and Soil, 1968b
1969 (and Holowaychuk, N.). Particle size and carbonate analysis of glacial till and lacustrine deposits in western Ohio: *Geol. Soc. America Abs. with Programs 1969*, pt. 6, North-Central Sec., p. 44-45.
- STEIN, R. B.** See Sedam, A. C., 1970
- STELLER, D. L.** See Hoare, R. D., 1967, 1969
- STENSIÖ, E. A.**
1968. The spinal plate in *Homostius* and *Dunkleosteus* - Discussion [of paper by A. Heintz, 1968], in *Current problems of lower vertebrate phylogeny - Nobel symposium, 4th, Stockholm, 1967*, Proc.: New York and London, Interscience Publishers; Stockholm, Almqvist and Wiksell, p. 148-151.
- STEPHENS, MICHAEL A.**
1966. Brachiopod genus *Lepidocyclus* Wang and its discrimination from *Rhynchotrema* Hall: *Univ. Cincinnati*, M. S. thesis (unpub.).
- STEVENSON, ANNE L.**
1969 (and Benninghoff, William S.). Late post-glacial

- rise of Lake Erie and changes in vegetation on the Maumee Lake Plain, in Conference on Great Lakes research, 12th, Ann Arbor, Mich., 1969, Proc.: Ann Arbor, Mich., Internat. Assoc. Great Lakes Research, p. 347-350, 1 fig.; Abs. North Am. Geology, Dec. 1970, p. 1947-1948.
- STIBBE, EHUD**
1965. A field method for the determination of the hydraulic conductivity of various soil layers in a profile with the aid of isolated undisturbed monoliths: The Ohio State Univ., Ph. D. dissert. (unpub.), 128 p., 15 figs., 5 photographs; Dissert. Abs., v. 26, no. 3, p. 1595.
- STITH, DAVID A.**
1969. Potential use of Ohio limestones and dolomites for architectural aggregate: Ohio Geol. Survey Rept. Inv. 73, 14 p., 1 fig.; Abs. North Am. Geology, July 1970, p. 115.
1970. Potential use of Ohio limestones and dolomites for architectural aggregate, in Forum on geology of industrial minerals, 6th, Ann Arbor, Mich., 1970, Proc.: Michigan Geol. Survey Miscellany 1, p. 81-86; Abs. North Am. Geology, Aug. 1971, p. 1353.
- STOCKARD, H. P.** See Zietz, I., 1968
- STRAHL, E. O.** See Bates, T. F., 1958
- STREIB, DONALD L.**
1969 (and Donaldson, Alan C.). Stratigraphy of the Monongahela Group in the Wheeling, West Virginia-Ohio 15-minute quadrangle, in Some Appalachian coals and carbonates: models of ancient shallow-water deposition - Geological Society America Coal Division field trip, Nov. 1969: Morgantown, West Virginia Geol. and Econ. Survey, p. 123-156, 26 figs.
- STRICKLAND, KENTON E.**
1966 (and Coash, John R.). The Department of Geology and Beta Upsilon Chapter, Sigma Gamma Epsilon, Bowling Green State University: Compass, v. 43, no. 4, p. 242-244, 1 pl.
- STRIMPLE, HARRELL L.**
1969. Pennsylvanian crinoids from Ohio and Oklahoma, in Fossil crinoid studies: Kansas Univ. Paleont. Contr., Paper 42, pt. 3, p. 11-17, 2 figs.; Abs. North Am. Geology, Apr. 1970, p. 598.
- STROGONOFF, ROBERT**
1966. Common minerals in northwestern Ohio and their geologic occurrence: Bowling Green State Univ., M. S. thesis (unpub.), 70 p.
- STRUBLE, RICHARD A.** See also Mintzer, O. W., 1967
1965. Shallow subsurface exploration utilizing air-photo interpretation and geophysical techniques, in Highway geology symposium, 16th ann., Univ. Kentucky, 1965, Proc.: Kentucky Univ. Eng. Expt. Sta. Bull. Ser., v. 20, no. 2 (Bull. 76), p. 67-75, 5 figs.
1966. Soil mapping and subsurface profiling for highway design utilizing geological, geophysical, air-photo and direct subsurface exploration techniques: The Ohio State Univ., Ph. D. dissert. (unpub.), 241 p., 109 figs., 10 pls.; Dissert. Abs., sec. B, Sci. and Eng., v. 27, no. 12, pt. 1, p. 4452B, 1967.
1967 (and Mintzer, Olin W.). Combined investigation techniques for procuring highway design data, in Highway geology symposium, 18th ann., 1967, Proc.: Purdue Univ. Eng. Bull., v. 51, no. 4 (Eng. Ext. Ser. 127), p. 27-43, 9 figs.
- STUMM, ERWIN C.**
1967a. *Planalveolitella*, a new genus of Devonian tabulate corals, with a redescription of *Planalveolites foughti* (Edwards and Haime): Michigan Univ. Mus. Paleontology Contr., v. 21, no. 2, p. 67-72, 1 pl.
1967b. Tabulate corals of the Silica Shale (Middle Devonian) of northwestern Ohio and southeastern Michigan: Michigan Univ. Mus. Paleontology Contr., v. 21, no. 4, p. 86-104, 5 pls.; Abs. North Am. Geology, Nov. 1967, p. 1572.
1967c. Devonian trilobites from northwestern Ohio, northern Michigan, and western New York: Michigan Univ. Mus. Paleontology Contr., v. 21, no. 6, p. 109-122, 3 pls.; Abs. North Am. Geology, Nov. 1967, p. 1571-1572.
1967d (and Chilman, Ruth B.). Check list of fossil invertebrates described from the Middle Devonian Silica Formation of northwestern Ohio and southeastern Michigan: Michigan Univ. Mus. Paleontology Contr., v. 21, no. 7, p. 123-237; Abs. North Am. Geology, Dec. 1967, p. 1732.
1968a. Two unusually well-preserved trilobites from the Middle Devonian of Michigan and Ohio: Michigan Univ. Mus. Paleontology Contr., v. 22, no. 2, p. 33-35, 1 pl.; Abs. North Am. Geology, Mar. 1969, p. 439.
1968b. The corals of the Middle Devonian Tenmile Creek Dolomite of northwestern Ohio: Michigan Univ. Mus. Paleontology Contr., v. 22, no. 3, p. 37-44, 3 pls.; Abs. North Am. Geology, Mar. 1969, p. 439.
1968c. Rugose corals of the Silica Formation (Middle Devonian) of northwestern Ohio and southeastern Michigan: Michigan Univ. Mus. Paleontology Contr., v. 22, no. 5, p. 61-70, 4 pls.; Abs. North Am. Geology, Aug. 1969, p. 1275.
1969a. Devonian bioherms of the Michigan basin: Michigan Univ. Mus. Paleontology Contr., v. 22, no. 18, p. 241-247, 4 figs., 2 pls.; Abs. North Am. Geology, Sept. 1969, p. 1435.
1969b (and Chilman, Ruth B.). Phyllocarid crustaceans from the Middle Devonian Silica Shale of northwestern Ohio and southeastern Michigan: Michigan Univ. Mus. Paleontology Contr., v. 23, no. 3, p. 53-71, 4 figs., 7 pls.
- STURGEON, MYRON T.** See also Hoare, R. D., 1966, 1968a
1968 (and Hoare, Richard D.). Pennsylvanian brachiopods of Ohio: Ohio Geol. Survey Bull. 63, 95 p., 14 figs., 22 pls.; Abs. North Am. Geology, May 1969, p. 781-782.
- SUHR, N. H.** See Ingamells, C. O., 1967
- SUMMERSON, CHARLES H.**
1966. Crystal molds in dolomite: their origin and environmental interpretation: Jour. Sed. Petrology, v. 36, no. 1, p. 221-224, 2 figs.; Abs. North Am. Geology, Sept. 1966, p. 988.
1970a (and Swann, D. H.). Patterns of Devonian sand on the North American craton and their interpretation: Geol. Soc. America Bull., v. 81, no. 2, p. 469-490, 5 figs.; Abs. North Am. Geology, July 1970, p. 1116.
1970b. Patterns of Devonian sand on the North American craton and their interpretation: reply [to discussion

- of 1970 paper by L. F. Rooney and C. H. Ault, 1970]: *Geol. Soc. America Bull.*, v. 81, no. 8, p. 2521-2522.
- SWAIN, F. M.**
1967 (and Rogers, M. A., Evans, R. D., and Wolfe, R. W.). Distribution of carbohydrate residues in some fossil specimens and associated sedimentary matrix and other geologic samples: *Jour. Sed. Petrology*, v. 37, no. 1, p. 12-24, 3 figs.; *Abs. North Am. Geology*, July 1967, p. 950.
- SWANN, D. H.** See Summerson, C. H., 1970a
- SWEET, WALTER C.** See also Bergström, S. M., 1966, 1969; Kohut, J. J., 1968, 1969; Webers, G. F., 1966
- 1970a (and Bergström, Stig M.). Stratigraphic significance of conodonts from the Lexington Limestone and Kope Formation in the Cincinnati region: *Geol. Soc. America Abs. with Programs*, v. 2, no. 3, Southeastern Sec., p. 242-243.
- 1970b (and Bergström, Stig M.). A revised time-stratigraphic classification of the North American Upper Middle and Upper Ordovician (abs.): *Geol. Soc. America Abs. with Programs 1970*, v. 2, no. 7, Ann. mtg., p. 698.
- 1970c (and Ethington, Raymond L., and Barnes, Christopher R.). North American Middle and Upper Ordovician conodont faunas: *Geol. Soc. America Mem.* 127, p. 163-193, 3 figs., 2 pls. (1971).
- SWINEHART, THOMAS W.**
1969. The Leith Sandstone lentil (Dunkard Group, Pennsylvanian-Permian) of Washington County, Ohio and Pleasant County, West Virginia: *Miami Univ., M. S. thesis* (unpub.).
- SZMUC, EUGENE J.**
1970a. The Devonian System, in Banks, P. O., and Feldmann, Rodney M., eds., *Guide to the geology of northeastern Ohio: Northern Ohio Geol. Soc.*, p. 9-21, 8 figs., 1 pl.
- 1970b. The Mississippian System, in Banks, P. O., and Feldmann, Rodney M., eds., *Guide to the geology of northeastern Ohio: Northern Ohio Geol. Soc.*, p. 23-67, 31 figs., 3 pls.
- TABB, MARION F.** See Petro, J. H., 1967
- TEETER, JAMES W.**
1970a. Paleogeology of a Pleistocene microfossil assemblage at the Fairlawn, Ohio, mastodon site: *Am. Midland Naturalist*, v. 83, no. 2, p. 583-594, 18 figs.; *Abs. North Am. Geology*, Mar. 1971, p. 486.
- 1970b. Paleogeology of a Pleistocene microfossil assemblage at the Fairlawn, Ohio mastodon site: *Geol. Soc. America Abs. with Programs 1970*, v. 2, no. 6, p. 407.
- TELLER, JAMES T.**
1967. Glacial geology of Clinton County, Ohio: *Ohio Geol. Survey Rept. Inv.* 67, one sheet, map with text; *Abs. North Am. Geology*, June 1968, p. 865.
- 1970a. Early Pleistocene glaciation and drainage of southwest Ohio, southeast Indiana and northern Kentucky: *Univ. Cincinnati, Ph.D. dissert.* (unpub.).
- 1970b. Nebraskan glaciation and associated drainage changes in southeastern Indiana and southwestern Ohio: *Geol. Soc. America Abs. with Programs 1970*, v. 2, no. 7, Ann. mtg., p. 702.
- TEXTORIS, DANIEL A.** See also Carozzi, A. V., 1967; Dennison, J. M., 1968, 1970
- 1966a (and Carozzi, Albert V.). Petrography of a Cayugan (Silurian) stromatolite mound and associated facies, Ohio: *Am. Assoc. Petroleum Geologists Bull.*, v. 50, no. 7, p. 1375-1388, 4 figs., 1 pl.; *GeoSci. Abs.*, v. 8, no. 10, p. 80; *Abs. North Am. Geology*, Jan. 1967, p. 101.
- 1966b (and Carozzi, Albert V.). Petrography of an upper Silurian (Cayugan) dolomitized algal stromatolite mound and associated facies, Ohio, in *Abstracts for 1965: Geol. Soc. America Spec. Paper* 87, p. 175.
- THOMAS, BILL**
1966. The Hillsboro crater: *The Cincinnati Pictorial Enquirer*, Aug. 21, 1966, p. 8-10, 12, illus.
- THOMAS, JOHN B.**
1966. A detailed study of the Pleistocene geology of a portion of Preble County, southwestern Ohio: *Miami Univ., M. S. thesis* (unpub.).
1970. Illinoian-Wisconsinan Pleistocene deposits at Eaton, Ohio: *Geol. Soc. America Bull.*, v. 81, no. 11, p. 3433-3436, 2 figs.; *Abs. North Am. Geology*, May 1971, p. 840.
- THOMAS, R. L.**
1969. A note on the relationship of grain size, clay content, quartz and organic carbon in some Lake Erie and Lake Ontario sediments: *Jour. Sed. Petrology*, v. 39, no. 2, p. 803-809, 5 figs.
- THOMPSON, ESTHER H.**
1969. Morphology and taxonomy of *Cyclonema* Hall (Gastropoda), Upper Ordovician, Cincinnati Province: *Miami Univ., M. S. thesis* (unpub.).
1970. Morphology and taxonomy of *Cyclonema* Hall (Gastropoda), Upper Ordovician, Cincinnati province: *Bulls. Am. Paleontology*, v. 58, no. 261, p. 219-284, 5 figs., 5 pls.; *Abs. North Am. Geology*, July 1971, p. 1187.
- THOMPSON, M. L.**
1960. Stratigraphic distribution of American Pennsylvanian fusulinid Foraminifera: *Tohoku Univ., Sci. Rept.*, ser. 2 (Geology), spec. v. 4, p. 109-116, 2 figs. (reprinted as *Illinois Geol. Survey Reprint Ser.* 1961-D, 1961).
- TILLMAN, JOHN R.**
1969. On the age of the Olentangy shale of central Ohio: *Geol. Soc. America Abs. with Programs 1969*, pt. 6, North-Central Sec., p. 49.
1970. The age, stratigraphic relationships, and correlation of the lower part of the Olentangy Shale of central Ohio: *Ohio Jour. Sci.*, v. 70, no. 4, p. 202-217, 6 figs.
- TILTON, J. G.**
1967. Channel sandstones of the Pittsburgh coal horizon: *Soc. Mining Engineers Trans.*, v. 238, no. 4, p. 403-408, illus.; *Abs. North Am. Geology*, May 1968, p. 713.
- TILTON, TERRY L.**
1969. Middle Devonian scolecodonts of the Silica Formation: *Bowling Green State Univ., M. S. thesis* (unpub.), 57 p.
- TORNES, LAWRENCE A.** See Lerch, N. K., 1969
- TOTTEN, STANLEY M.** See also White, G. W., 1968d, e
1968 (and Moran, Stephen R., Gross, David L., and White, George W.). Greatly altered drift near Youngstown, Ohio, in *Abstracts for 1967: Geol.*

- Soc. America Spec. Paper 115, p. 399-400.
- 1969a. Overridden recessional moraines of north-central Ohio: *Geol. Soc. America Bull.*, v. 80, no. 10, p. 1931-1946, 8 figs., 1 pl.; *Abs. North Am. Geology*, Mar. 1970, p. 448.
- 1969b. Overridden recessional moraines of north central Ohio, in *Abstracts for 1968: Geol. Soc. America Spec. Paper 121*, p. 671-672.
- 1969c (and Moran, S. R., and Gross, D. L.). Greatly altered drift near Youngstown, Ohio: *Ohio Jour. Sci.*, v. 69, no. 4, p. 213-225, 5 figs.; *Abs. North Am. Geology*, April 1970, p. 601-602.
- TOURTELOT, ELIZABETH B.
1970. Selected annotated bibliography of minor-element content of marine black shales and related sedimentary rocks, 1930-65: *U. S. Geol. Survey Bull.* 1293, 118 p.
- TRESCOTT, PETER C. See Wanless, H. R., 1969
- TUCKER, M. MELINDA
1968. Morphology and taxonomy of the class Cyclo-cystoidea (Echinodermata): Miami Univ., M. S. thesis (unpub.).
- U. S. AIR FORCE AERONAUTICAL CHART AND INFORMATION CENTER
1968. Transcontinental geophysical survey (35°-39°N), Bouguer gravity map from 74° to 87°W longitude: *U. S. Geol. Survey Map I-535-B*, one sheet.
- U. S. ARMY CORPS OF ENGINEERS
1967. Survey report on Licking River Basin, Ohio - v. 3, app. E, Geology and soils: Huntington, W. Va., U. S. Army Corps Engineers, Huntington District, p. E1-E5, illus.; *Abs. North Am. Geology*, July 1968, p. 1052.
- U. S. ATOMIC ENERGY COMMISSION
1968 (and U. S. Geological Survey). Preliminary reconnaissance for uranium in Arkansas, Illinois, Kentucky, Michigan, Minnesota, Missouri, Ohio and Wisconsin, 1952 to 1956: *U. S. Atomic Energy Comm. RME-150*, 89 p., 1 fig.
- U. S. BUREAU OF MINES. See U. S. Geological Survey, 1968
- U. S. DEPARTMENT OF AGRICULTURE, SOIL SURVEY STAFF. See also Ohio Div. Lands and Soil, 1969a
1969. Supplement to the soil survey of Fairfield County, Ohio, Series 1951, no. 7: *U. S. Dept. Agriculture Soil Conserv. Service*, 23 p.
- U. S. GEOLOGICAL SURVEY. See also Am. Assoc. Petroleum Geologists, 1967; *U. S. Atomic Energy Comm.*, 1968
- 1964a. Bibliography of North American geology, 1960: *U. S. Geol. Survey Bull.* 1196, 777 p.
- 1964b. Quality of surface waters of the United States, 1962 - pts. 3 and 4, Ohio River basin and St. Lawrence River basin: *U. S. Geol. Survey Water-Supply Paper 1942*, 322 p., 1 fig.
- 1966a. Bibliography of North American geology, 1962: *U. S. Geol. Survey Bull.* 1232, 834 p.
- 1966b. Bibliography of North American geology, 1964: *U. S. Geol. Survey Bull.* 1234, 944 p.
1967. Regional geology, in *Geological Survey research 1967: U. S. Geol. Survey Prof. Paper 575-A*, p. A61-A98, 5 figs.
- 1968a. Bibliography of North American geology, 1963: *U. S. Geol. Survey Bull.* 1233, 1105 p.
- 1968b (and U. S. Bureau of Mines). Mineral resources of the Appalachian Region: *U. S. Geol. Survey Prof. Paper 580*, 492 p., 115 figs., 3 pls.; *Abs. North Am. Geology*, Oct. 1968, p. 1540-1541.
- 1968c. Water resources, Ohio, in *Geological Survey research 1968: U. S. Geol. Survey Prof. Paper 600-A*, p. A58.
- 1968d. Relation between surface water and ground water, in *Geological Survey research 1968: U. S. Geol. Survey Prof. Paper 600-A*, p. A130-A132.
- 1968e. Quality of surface waters of the United States, 1960 - pts. 3 and 4, Ohio River basin and St. Lawrence River basin: *U. S. Geol. Survey Water-Supply Paper 1742*, 309 p., 1 fig.
- 1968f. Quality of surface waters of the United States, 1961 - pts. 3 and 4, Ohio River basin and St. Lawrence River basin: *U. S. Geol. Survey Water-Supply Paper 1882*, 312 p., 1 fig.
- 1969a. Bibliography of North American geology, 1965: *U. S. Geol. Survey Bull.* 1235, 1144 p.
- 1969b. Silurian-Devonian stratigraphy and corals, in *Geological Survey research 1969: U. S. Geol. Survey Prof. Paper 650-A*, p. A33-A34.
- 1969c. Correlation of carbonate rocks by natural gamma ray logging, in *Geological Survey research 1969: U. S. Geol. Survey Prof. Paper 650-A*, p. A69.
- 1969d. Cincinnati arch Ordovician pelecypods, in *Geological Survey research 1969: U. S. Geol. Survey Prof. Paper 650-A*, p. A132.
- 1969e. Quality of surface waters of the United States, 1964 - pts. 3 and 4, Ohio River basin and St. Lawrence River basin: *U. S. Geol. Survey Water-Supply Paper 1955*, 440 p., 1 fig.
- 1970a. Bibliography of North American geology, 1966: *U. S. Geol. Survey Bull.* 1266, 1069 p.
- 1970b. Bibliography of North American geology, 1967: *U. S. Geol. Survey Bull.* 1267, 1029 p.
- 1970c. Surface waters of the United States, 1965 - pts. 3 and 4, Ohio River basin and St. Lawrence River basin: *U. S. Geol. Survey Water-Supply Paper 1962*, 480 p., 1 fig.
- 1970d. Ohio, in *Ground-water levels in the United States, 1963-67, northeastern states: U. S. Geol. Survey Water-Supply Paper 1977*, p. 163-194, 1 fig.
- U. S. GEOLOGICAL SURVEY, OFFICE OF WATER DATA COORDINATION
1970. Edition of 1970, Catalogue of information on water data, index to surface water section: *U. S. Geol. Survey, Office Water Data Coordination*, 677 p.
- UPDEGRAFF, NANCY A.
1969. Pelecypoda of the Brush Creek (Pennsylvanian), Ohio: Bowling Green State Univ., M. S. thesis (unpub.), 101 p.
- URBAN, DONALD R. See also Rappaport, D. F., 1966
1970 (and Forsyth, Jane L.). Early postglacial environment of a small kettle in Mercer County, Ohio: *Ohio Jour. Sci.*, v. 70, no. 5, p. 310-314, 1 fig.
- UTGAARD, JOHN. See also Boardman, R. S., 1966
1968. A revision of North America genera of ceramoporoid bryozoans (Ectoprocta) - pt. 2, *Crepipora*, *Ceramoporella*, *Acanthoceramoporella*, and *Ceramophylla*: *Jour. Paleontology*, v. 42, no. 6, p. 1444-1455, 4 pls.; *Abs. North Am. Geology*, June 1969, p. 962.
- VANHART, DIRK
1966. The physical stratigraphy of the Saluda and

- Whitewater formations (Cincinnatian Series) (Upper Ordovician) southeastern Indiana: Miami Univ., M. S. thesis.
- VARY, J. A.
1968 (and Elenbaas, J. R., and Johnson, M. A.). Gas in Michigan basin, in Natural gases of North America - pt. 3, Natural gases in rocks of Paleozoic age: Am. Assoc. Petroleum Geologists Mem. 9, v. 2, p. 1761-1797, 19 figs.
- VERDUIN, JACOB
1969. Man's influence on Lake Erie: Ohio Jour. Sci., v. 69, no. 2, p. 65-70, 1 fig.
- WALKER, ALFRED C.
1960. Stillwater River basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index H-6 and 7, map with text.
1961a. Wabash River basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index G, map with text.
1961b. Twin Creek basin and Ohio portion of East Fork of Whitewater River basin: Ohio Div. Water, Ohio Water Plan Inventory, File Index H-8 and 11a, map with text.
1961c. Fourmile Creek basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index H-10, map with text.
1962a. Upper Cuyahoga River basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index E-1, map with text.
1962b. Lower Cuyahoga River basin and adjacent Lake Erie tributaries underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index E-2, map with text.
1962c. Chagrin River basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index E-3, map with text.
1962d. Stillwater Creek basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index P-9, map with text.
1962e. A part of the lower portion, Tuscarawas River basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index P-10, map with text.
1962f. Moxahala Creek basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index P-15, map with text.
1962g. A portion of the middle of Muskingum River basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index P-16, map with text.
1962h. Lower Wills Creek basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index P-17, map with text.
1962i. Upper Wills Creek basin underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index P-18, map with text.
1962j. Lower portion of the Muskingum River basin and adjacent Ohio River tributaries underground water resources: Ohio Div. Water, Ohio Water Plan Inventory, File Index P-19, map with text.
- WALKER, F. E.
1966 (and Hartner, F. E.). Forms of sulfur in U. S. coals: U. S. Bur. Mines Inf. Circ. 8301, 51 p.
- WALL, ROBERT E.
1968. A sub-bottom reflection survey on the central basin of Lake Erie: Geol. Soc. America Bull., v. 79, no. 1, p. 91-106, 8 figs.; Abs. North Am. Geology, Aug. 1968, p. 1223.
- WALTERS, J. G.
1967 (and Ortuglio, C., and Glaenger, J.). Yields and analyses of tars and light oils from carbonization of U. S. coals: U. S. Bur. Mines Bull. 643, 91 p.
- WALTON, WILLIAM C.
1966 (and Ackroyd, Earl A.). Effects of induced stream-bed infiltration on water levels in wells during aquifer tests: Minnesota Univ. Water Resources Research Center Bull. 2, 43 p., 21 figs.
- WANLESS, HAROLD R. See also Baroffio, J. R., 1966
1969 (and Baroffio, James R., and Trescott, Peter C.). Conditions of deposition of Pennsylvanian coal beds, in Environments of coal deposition: Geol. Soc. America Spec. Paper 114, p. 105-142, 22 figs.
1970 (and others). Late Paleozoic deltas in the central and eastern United States, in Deltaic sedimentation, modern and ancient: Soc. Econ. Paleontologists and Mineralogists Spec. Pub. 15, p. 215-245, 24 figs.; Abs. North Am. Geology, July 1971, p. 1196.
- WARD, DEDERICK C.
1969 (and O'Callaghan, T. C.). Bibliography of theses in geology—1965-1966: American Geol. Inst., 255 p.
- WARD, RONALD A.
1966. A study of the limestone nodules in the Eden Shales: Univ. Cincinnati, M. S. thesis (unpub.).
- WARSHAUER, STEVEN M.
1969. A preliminary investigation of Ostracoda from the Kope Formation (Upper Ordovician): Univ. Cincinnati, M. S. thesis (unpub.).
- WASSON, J. T.
1969 (and Sedwick, S. P.). Possible sources of meteoric material from Hopewell Indian burial mounds: Nature, v. 222, no. 5188, p. 22-24, 2 figs.
- WATERS, D. D. See Christman, R. L., 1968; Ohio Div. Lands and Soil, 1968a
- WATKINS, JOEL S. See Hassemer, J. H., 1966
- WAYNE, WILLIAM J.
1967. Periglacial features and climatic gradient in Illinois, Indiana, and western Ohio, east-central United States, in Quaternary paleoecology - International Association Quaternary Research, 7th Cong., 1965, Proc., v. 7: New Haven, Conn., Yale Univ. Press, p. 393-414, 6 figs.; Abs. North Am. Geology, Sept. 1968, p. 1378.
- WEBB, DAVID K., JR.
1967 (and Collins, Horace R.). Geologic aspects of a recent landslide in Vinton County, Ohio: Ohio Jour. Sci., v. 67, no. 2, p. 65-74, 5 figs.; Abs. North Am. Geology, Feb. 1968, p. 259-260.
- WEBB, E. J.
1969a. Geologic history of the Cambrian System in the Appalachian basin, in Kentucky Oil and Gas Assoc., 33d ann. mtg., 1969, Proc. tech. sess.: Kentucky Geol. Survey, ser. 10, spec. pub. 18, p. 7-15, 7 figs.; Abs. North Am. Geology, July 1970, p. 1128.
1969b. Cambrian exploration in Appalachia - pt. 1: Oil and Gas Jour., v. 67, no. 44, p. 100-101, 3 figs.; pt. 2, Oil and Gas Jour., v. 67, no. 45, p. 266-268, 4 figs.; Abs. North Am. Geology, Apr. 1970, p. 608.
- WEBBER, EARL E. See also Mayo, R. I., 1969
1970 (and Mayo, Ronald I.). Flood of July 5, 1969, in the vicinity of Wooster, Ohio: U. S. Geol. Survey Open-File Report 361, 15 p., 5 figs.
- WEBERS, GERALD F.

- 1966 (and Schopf, Thomas J. M., and Sweet, Walter C.). Multi-element Ordovician conodont species, in Abstracts for 1955: Geol. Soc. America Spec. Paper 87, p. 183-184.
- WEIBEL, S. R.
1964 (and Anderson, R. J., and Woodward, R. L.). Urban land runoff as a factor in stream pollution; Water Pollution Control Federation Jour., v. 36, no. 7, p. 914-924.
- WEISS, MALCOLM P.
1966. X-radiography of rocks with I-125 source: Am. Assoc. Petroleum Geologists Bull., v. 50, no. 7, p. 1507-1510, 8 figs.; Abs. North Am. Geology, Jan. 1967, p. 108.
- WELLS, TERRY L.
1970. The hydrogeology of the Sharon Conglomerate in Geauga County, Ohio (Pennsylvanian): Kent State Univ., M. S. thesis (unpub.).
- WETZEL, JOHN M.
1968. Petrography of selected limestones of the Fairview Formation and Bellevue Member, McMillan Formation, (Cincinnati Series) from southwestern Hamilton County, Ohio: Miami Univ., M. S. thesis (unpub.).
- WHALEY, PETER WALTER
1969. A litho-genetic model for rocks of a lower deltaic plain sequence: Louisiana State Univ., Ph. D. dissert. (unpub.), 135 p., 10 figs., 5 pls.; Dissert. Abs. Internat., sec. B, Sci. and Eng., v. 30, no. 5, p. 2260B.
- WHIELDON, CHARLES E., JR.
1965 (and Overbey, William K., Jr.). Appalachian region oilfield reservoir investigations, Mitchell and Berea sands, Lower Newport field, Newport Township, Washington County, Ohio: Producers Monthly, v. 29, no. 11, p. 8-11, 5 figs.
1966a (and Evans, Donald M.). Appalachian region oilfield reservoir investigations, Keener and Big Injun sands, Wingett Run field, Ludlow Township, Washington County, Ohio: Producers Monthly, v. 30, no. 8, p. 10-12, 5 figs.
1966b. Appalachian region oilfield reservoir investigations, Clinton sandstone, Carbon Hill West Pool, Green Township, Hocking County, Ohio: Producers Monthly, v. 30, no. 12, p. 6-7, 26, 5 figs.
- WHITE, DAVID
1943. Lower Pennsylvanian species of *Mariopteris*, *Eremopteris*, *Diplothnema*, and *Aneimites* from the Appalachian region: U. S. Geol. Survey Prof. Paper 197-C, p. 85-140, pls. 8-39.
- WHITE, GEORGE W. See also Goldthwait, R. P., 1967; Totten, S. M., 1968; Winslow, J. D., 1966
1967a. Glacial geology of Wayne County, Ohio: Ohio Geol. Survey Rept. Inv. 62, 39 p., 15 figs., with glacial deposits map, 1:62,500; Abs. North Am. Geology, Oct. 1967, p. 1436.
1967b. The first appearance in Ohio of the theory of continental glaciation: Ohio Jour. Sci., v. 67, no. 4, p. 210-217, 3 figs.; Abs. North Am. Geology, Feb. 1968, p. 261.
1968a. Pleistocene deposits of the north-west Allegheny Plateau, U. S. A. (abstract and discussion): Geol. Soc. London Proc., no. 1648, p. 67-70.
1968b. Memorial to J. Ernest Carman (1882-1966): Geol. Soc. America Proc. for 1966, p. 205-210, portrait.
- 1968c. Age and correlation of Pleistocene deposits at Garfield Heights (Cleveland), Ohio: Geol. Soc. America Bull., v. 79, p. 749-752, 1 fig.; Abs. North Am. Geology, Nov. 1968, p. 1712; Geophys. Abs., no. 263, p. 1708.
1968d (and Totten, Stanley M.). Pre-Late Wisconsin drifts in northwestern Pennsylvania (abs.): Geol. Soc. America Spec. Paper 101, p. 282.
1968e (and Totten, Stanley M.). Loess deposits in northeastern Ohio (abs.), in Abstracts for 1967: Geol. Soc. America Spec. Paper 115, p. 400.
1969a. Pleistocene deposits of the north-western Allegheny Plateau, U. S. A.: Quarterly Jour., Geol. Soc. London, no. 494, v. 124, pt. 2, p. 131-151, 7 figs.; Abs. North Am. Geology, Feb. 1970, p. 286-287.
1969b. Thickness of Wisconsinan tills in Grand River and Killbuck lobes: Geol. Soc. America Abs. with Programs 1969, pt. 6, North-Central Sec., p. 51.
1969c. Early geological observations in the American Midwest, in Toward a history of geology (C. J. Schneer, ed.) - New Hampshire inter-disciplinary conference, history of geology, 1967, Proc.: Cambridge, Mass., and London, M. I. T. Press, p. 415-425; Abs. North Am. Geology, Oct. 1970, p. 1603-1604.
- WHITE, J. F.
1966. Convex-concave landslopes: a geometrical study: Ohio Jour. Sci., v. 66, no. 6, p. 592-608, 11 figs.
- WHITING, WILLIAM MARTIN
1965. A subsurface study of the post-Knox unconformity and related rock units in Morrow County, Ohio: Michigan State Univ., M. S. thesis (unpub.).
- WIETHE, JOHN D.
1970. Textural parameters of a modern point bar: Compass, v. 47, no. 2, p. 110-118, 2 figs., 1 pl.; Abs. North Am. Geology, Mar. 1971, p. 497.
- WILBAND, JOHN T. See Kneller, W. A., 1968b
- WILDING, L. P. See also Hall, G. F., 1969; Khangarot, A. S., 1969a; McCormack, D. E., 1969; Smeck, N. E., 1968
1967. Radiocarbon dating of biogenetic opal: Science, v. 156, no. 3771, p. 66-67; Abs. North Am. Geology, Oct. 1967, p. 1437; Geophys. Abs., no. 250, p. 1149.
1968 (and Drees, L. R.). Distribution and implications of sponge spicules in surficial deposits in Ohio: Ohio Jour. Sci., v. 68, no. 2, p. 92-99, 2 figs.
1969 (and Drees, L. R., Smeck, N. E., and Hall, G. F.). Clay mineral and elemental composition of Wisconsin-age till deposits in west-central Ohio: Geol. Soc. America Abs. with Programs 1969, pt. 6, North-Central Sec., p. 52.
- WILLDEN, RONALD
1968 (and Reed, John C., Jr., and Carlson, John E.). Transcontinental geophysical survey (35°-39°N), geologic map from the east coast of the United States to 87°W longitude: U. S. Geol. Survey Map I-535-C, one sheet.
- WILLIS, DAVID E.
1970 (and Wilson, James T.). A note on the Anna, Ohio, earthquake of July 26, 1968: Earthquake Notes, v. 41, no. 3, p. 21-25, illus.; Abs. North Am. Geology, July 1971, p. 1199.
- WILSON, JAMES L. See Ham, W. E., 1967
WILSON, JAMES T. See Willis, D. E., 1970

- WINDLE, DELBERT L., JR.
1970. Conemaugh cephalopods of Ohio: Ohio Univ., M. S. thesis (unpub.).
- WINSLOW, JOHN D.
1966 (and White, George W.). Geology and ground-water resources of Portage County, Ohio: U. S. Geol. Survey Prof. Paper 511, 80 p., 24 figs., 5 pls.; Abs. North Am. Geology, Sept. 1967, p. 1295.
- WITTENBERG UNIVERSITY GEOLOGY CLUB
1966. 17th Annual Ohio intercollegiate geology field conference, 15 October 1966: Springfield, Ohio, Geology Club of Wittenberg Univ., 52 p., illus.
- WITTINE, ARTHUR H. See also Miller, B. B., 1970b
1969. Distribution of unionids in Hinkley Creek, Portage County, Ohio: Compass, v. 46, no. 3, p. 142-149, 4 figs.
1970. A study of a Late-Pleistocene lake in the Cuyahoga River valley, Summit County, Ohio: Kent State Univ., M. S. thesis (unpub.).
- WOLFE, R. W. See Swain, F. M., 1967
- WONDERFUL WORLD OF OHIO
1966. Cavern tour: Wonderful World of Ohio, v. 30, no. 7, p. 10-11, illus., July 1966.
- WOOD, KENNETH G.
1970. Carbonate equilibria in Lake Erie, in Conference on Great Lakes research, 13th, Buffalo, N. Y., 1970, Proc., pt. 2: Ann Arbor, Mich., Internat. Assoc. Great Lakes Research, p. 744-750, 3 figs.
- WOODWARD, R. L. See Weibel, S. R., 1964
- WRIGHT, FRANK M.
1970. The Pleistocene stratigraphy of the Farmersville and northern Middletown quadrangles, southwestern Ohio: Miami Univ., M. S. thesis (unpub.).
- WRIGHT, WILNA B. See Cohee, G. V., 1970
- WYRICK, GRANVILLE G.
1968 (and Lloyd, Orville B., Jr.). Ground water resources, app. H., of Development of water resources in Appalachia: Cincinnati, Ohio, U. S. Army Corps of Engineers, Office Appalachian Studies, p. H1-H122, 21 figs., 1968 (1969); Abs. North Am. Geology, Oct. 1970, p. 1607.
- YACUZZO, RAYMOND E.
1969. A reconnaissance of the ground-water geology of Montville Township, Medina County, Ohio: Compass, v. 46, no. 4, p. 207-216, 6 figs.; Abs. North Am. Geology, Dec. 1970, p. 1973.
- YOCHELSON, ELLIS L.
1967 (and Saunders, Burnett W.). A bibliographic index of North American late Paleozoic Hyolitha, Amphineura, Scaphopoda, and Gastropoda: U. S. Geol. Survey Bull. 1210, 271 p.; Abs. North Am. Geology, June 1968, p. 878.
- YOHN, J. LESLIE. See Lessig, H. D., 1968
- ZAHN, J. C. See Bull, C., 1967
- ZIEGLER, A. M.
1970 (and Boucot, A. J.). North American Silurian animal communities, in Correlation of the North American Silurian rocks: Geol. Soc. America Spec. Paper 102, p. 95-106, 13 figs.; Abs. North Am. Geology, Dec. 1971, p. 2143.
- ZIETZ, ISIDORE
1966a (and King, Elizabeth R., Geddes, Wilburt, and Lidiak, Edward G.). Crustal study of a continental strip from the Atlantic Ocean to the Rocky Mountains: Geol. Soc. America Bull., v. 77, no. 12, p. 1427-1447, 6 figs., 2 pls.; Geophys. Abs., no. 246, p. 709, 1967; Abs. North Am. Geology, June 1967, p. 813.
1966b (and King, Elizabeth R.). Crustal study along a transcontinental great circle from Washington, D. C., to San Francisco, Calif., in Continental margins and island arcs - International Upper Mantle Commission, Symposium, Ottawa, 1965: Canada Geol. Survey Paper 66-15, p. 445-452, 3 figs.; Abs. North Am. Geology, Sept. 1967, p. 1298.
1968 (and Stockard, H. P., and Kirby, John R.). Transcontinental geophysical survey (35°-39°N) magnetic and bathymetric map from 74° to 87°W longitude: U. S. Geol. Survey Map I-535-A, one sheet.
1969. Aeromagnetic investigations of the earth's crust in the United States, in The earth's crust and upper mantle: Am. Geophys. Union Geophys. Mon. 13, p. 404-415, 6 figs.; Geophys. Abs., no. 282, p. 795, 1970.
- ZIMMERMAN, J. LESTER
1966. Mining activities in brief, in 1965 annual report: Columbus, Ohio Div. Mines, Dept. Indus. Relations, p. 1-4.
- ZIMMERMAN, RONALD K.
1966a. Aspects of early Allegheny depositional environments in eastern Ohio; Louisiana State Univ., Ph. D. dissert. (unpub.), 124 p., 21 figs., 6 pls.; Dissert. Abs., sec. B, Sci. and Eng., v. 27, no. 5, p. 1523B.
1966b (and Ferm, J. C.). Early Allegheny paralic rocks of eastern Ohio, in Abstracts for 1965: Geol. Soc. America Spec. Paper 87, p. 267.
- ZUBKOFF, PAUL L.
1970 (and Carey, Walter E.). Neutron activation analysis of sediments in western Lake Erie, in Conference on Great Lakes research, 13th, Buffalo, N. Y., 1970, Proc., pt. 1: Ann Arbor, Mich., Internat. Assoc. Great Lakes Research, p. 319-325, 2 figs.
- ZUBOVIC, PETER
1966 (and Stadnichenko, Taisia, and Sheffey, Nola B.). Distribution of minor elements in coals of the Appalachian region: U. S. Geol. Survey Bull. 1117-C, 37 p., 1 fig.

INDEX

- Acid mine drainage: Ahmad, 1970; Biesecker, 1966; Brant, 1966; Dambach, 1966; News in Eng., 1969; Seibert, 1966; Smith, E. E., 1966
- Adams County
- Brassfield Limestone: Carr, 1970; Rexroad, 1967
 - Cryptovolcanic structure: Bull, 1967; Dietz, 1968; Galbraith, 1968, 1969; Short, 1968; Thomas, B., 1966
 - Devonian sand: Summerson, 1970a
 - Field guide: Calvert, 1968a, b; Ohio Geol. Soc., 1968
 - Ground-water resources, Scioto Brush Creek basin: Schmidt, 1962c
 - Mercury in sphalerite: Jolly, 1968
 - Ordovician, sedimentary structures: Ali, 1967
 - Strata: Hariharan, 1970
 - Paleontology, Brachiopoda: Gauri, 1970
 - Conodonts: Kohut, 1967, 1968, 1969a; Rexroad, 1967
 - Stratigraphy: Calvert, 1968c
- Aerial photography
- Coal seam mapping: Norell, 1966
 - Subsurface exploration, shallow: Struble, 1965
 - Water-pollution detection: Bay, 1968
- Aeromagnetic survey: Zietz, 1966b, 1969
- Aeroradioactivity survey
- Eastern Ohio: Bates, R. G., 1966a, c
 - Southwestern Ohio: Guillou, 1966
 - West-central Ohio: Bates, R. G., 1966b
- Aggregate, architectural: Stith, 1969, 1970
- Chert: Kneller, 1966, 1967, 1968a, b, c
- Akron area, hydrology: Rau, 1970b
- Allen County
- Ground water, carbonate aquifers: Ohio Div. Water, 1970
- Analog-model study, effect of pumping on ground water: Spieker, A. M., 1968b
- Anna, Ohio, earthquake: Willis, 1970
- Archeology
- Flint, petrography: Carskadden, 1969
 - Quarry: Mitchell, R. H., 1943
 - Meteoritic material: Wasson, 1969
- Ashland County
- Ground water, Black and Clear Fork basins: Prée, 1962e
 - Lower Mohican River basin: Prée, 1962f
 - Paleozoic rocks, cross section: Shearrow, 1966
 - Water resources, Muskingum River basin: Ohio Div. Water, 1968
- Ashtabula County
- Ohio Shale *Foerstia* zone: Schopf, J. M., 1970
- Athens County
- Cambridge Limestone petrology: Kozusko, 1968
 - Cephalopods from Brush Creek Limestone: Murphy, 1970a
 - Coal, sulfur in: Walker, F. E., 1966
 - Conemaugh corals: Bebout, 1966
 - Field guide: Frank, 1970a
 - Floods at Amesville: Mayo, 1969
 - Gaysport and Skelley Limestones: Baker, H., 1967
 - Ground water, Upper Raccoon Creek basin: Prée, 1962a
 - Hockingport Sandstone: Martin, W. D., 1969
 - Hydrology, Hocking River valley: Current, 1967; El Bakhbkh, 1970
 - Landslides: Fisher, S. P., 1968
 - Paleobotany: Abbott, M. L., 1968
 - Paleoecology: Boreske, 1968
 - Paleogeography, Middle Allegheny: Flores, 1966
 - Paleontology, cephalopods from Brush Creek Limestone: Murphy, 1970a
 - Conemaugh corals: Bebout, 1966
 - Pelecypod from Brush Creek Shale: Murphy, 1967b
 - Radiocarbon measurements: Ogden, 1967a, 1969
 - Water resources, Hocking River basin: Ohio Div. Water, 1966a
- Auglaize County, ground water, carbonate aquifers: Ohio Div. Water, 1970
- Auglaize River basin, hydrology: Rowland, 1969
- Basement map: Am. Assoc. Petroleum Geologists, 1967
- Bathythermograph recordings in Lake Erie: Herdendorf, 1967
- Beach ridges in Vermilion West and Berlin Heights quadrangles: Herdendorf, 1966
- Bedrock topography in Toledo area: Bush, 1966
- Belmont County
- Aeroradioactivity map: Bates, R. G., 1966c
 - Coal, lithofacies patterns: Berryhill, 1970
 - Sulfur in: Walker, F. E., 1966
 - Ground water, Stillwater Creek basin: Walker, A. C., 1962d
 - Wills Creek basin: Walker, A. C., 1962i
 - Mapping coal seams with aerial photography: Norell, 1966
 - Monongahela Group, stratigraphy: Streib, 1969
 - Water resources, Muskingum River basin: Ohio Div. Water, 1968
- Berlin Heights quadrangle, geology: Herdendorf, 1966
- Bibliography
- Black shales: Tourtelot, 1970
 - Carboniferous brachiopods: Carter, J. L., 1970
 - Field trip guidebooks: Geoscience Inf. Soc., 1968
 - General geology: U. S. Geol. Survey, 1964a, 1966a, b, 1968a, 1969a, 1970a, b
 - Hydrology: Randolph, 1966, 1969
 - Mollusca: Yockelson, 1967
 - Ohio geology: Smyth, 1969
 - Terrestrial impact structures: Freeburg, 1966
 - Theses: Ward, D. C., 1969
 - Uranium: Cooper, 1958
 - "Big Lime": Owens, 1970
 - Biogenetic opal: Wilding, 1967
- Biography
- Carman, J. Ernest: White, G. W., 1968b
 - Foerste, August F.: Horvath, 1967c
- Black Hand narrows: Graham, 1969; C. L. Herrick Geology Soc., 1969

- Black shales, bibliography: Tourtelot, 1970
 Black Swamp: Offutt, 1967
 Bogs: Hansen, 1967
 Bone beds: Conkin, J. E., 1969
 Bouguer gravity map, southern Ohio: U. S. Air Force Aeronautical Chart and Inf. Center, 1968
 Bowling Green area, general geology: Forsyth, 1966b
 Bowling Green State Univ., Dept. Geology: Strickland, 1966
 Brines, flow measurement: Grazulis, 1966
 Resources: Sedam, 1970
 Brown County
 Ordovician sedimentary structures: Ali, 1967
 Paleontology, conodonts: Bergström, S. M., 1969; Kohut, 1967, 1968, 1969a
 Stratigraphy, Ordovician: Peck, J. H., 1966
 Buried valleys: See also drainage changes
 Classification: Saines, 1968
 Butler County
 Arnheim Formation, petrology: Baptista, 1969
 Buried valleys, classification: Saines, 1968
 Field guide: Frank, 1970a; Sigma Gamma Epsilon, 1968
 General geology: H. C. Nutting Co., 1967
 College Corner area: Saines, 1966
 Oxford quadrangle: Spoley, 1967
 Geomorphology: Smith, J. M., 1966
 Great Miami River, time of travel of water: Bauer, 1968
 Ground water, analog-model study: Spieker, A. M., 1965, 1968b
 Fourmile Creek basin: Walker, A. C., 1961c
 Great Miami River valley: Spieker, A. M., 1968a, c
 Mill Creek valley, development: Fidler, 1970
 Loess distribution and petrology: Coppinger, 1968
 Ordovician strata: Hariharan, 1970
 Paleontology, conodonts: Bergström, S. M., 1966; Kohut, 1969a; Sweet, 1970c
 Fossil collection: Brace, 1969c; Ohio Div. Parks and Recreation, 1967
 Pleistocene Mollusca: Nave, 1968
 Pleistocene deposits, tests for montmorillonite and goethite: Brace, 1969b
 Pleistocene geology: Durrell, 1968; Goldstein, 1968
 Hamilton quadrangle: Brace, 1968
 Radiocarbon measurements: Ogden, 1969
 Saluda Formation: Hatfield, 1968b
 Till identification methods: Brace, 1969a
 Calcarenites, Cincinnati: Osborne, 1969a
 Caldwell North quadrangle, bedrock geology: Smith, B. E., 1969
 Cambrian
 Geologic history: Webb, E. J., 1969a
 Geology of Birmingham-Erie field, Erie County: Kinzelman, 1968
 Northwestern Ohio: Fisher, J. H., 1969
 Oil and gas, Cincinnati Arch province: Patton, 1969
 Denmark Pool, Morrow County: Hiestand, 1966
 Erie and Huron Counties: Fenstermaker, 1969
 Exploration: Bashe, 1967; Webb, E. J., 1969b
 Huron County: McCaslin, 1966
 Knox dolomite: Dawson, T. A., 1967
 Morrow County: Dolly, 1969
 Sauk sequence: Janssens, 1970c
 Subsurface geology: Whiting, 1965
 Carbohydrate residues in fossil specimens: Swain, 1967
 Carboniferous: See Mississippian; Pennsylvanian; Permian
 Carman, J. Ernest, biography: White, G. W., 1968b
 Carroll County
 Aeroradioactivity map: Bates, R. G., 1966c
 Bedrock geology, Carrollton quadrangle: DeLong, 1969
 Dellroy quadrangle: DeLong, 1968
 Minerva quadrangle: DeLong, 1967b
 Clinton sandstone: Knight, 1969
 S. S. Fry South oilfield: Locke, 1967
 Coal, minor elements in: Zubovic, 1966
 Sulfur in: Walker, F. E., 1966
 Ground-water resources, Conotton Creek basin: Schmidt, 1962e
 Sandy Creek basin: Prée, 1962i
 Paleogeography, Middle Allegheny: Flores, 1966
 Paleontology, crinoids: Burke, J. J., 1968
 Water resources: Ohio Div. Water, 1968
 Carrollton quadrangle, bedrock geology: DeLong, 1969
 Castalia Prairie: Sears, 1967
 Caves: Wonderful World of Ohio, 1966
 Cedar Swamp: Scott, R. D., 1967
 Celestite: Dana, 1932; Green, 1970; Roedder, 1969
 Cement plant: Bergstrom, J. H., 1963
 Cement production: Ohio Dept. Indus. Relations
 Cement raw materials: Bates, R. L., 1966; Bergstrom, J. H., 1965a, b
 Central Ohio: See also the counties in central Ohio
 Conodonts from Columbus and Delaware Limestones: Ramsey, 1969a, b
 Devonian Charophyta: Conkin, J. E., 1970
 Devonian shales: Schwietering, 1970
 Surface-water records: Anderson, B. A., 1968a, b
 Champaign County
 Cedar Swamp: Scott, R. D., 1967
 Devonian sand: Summerson, 1970a
 Field guide: Frank, 1970a; Wittenberg Univ. Geology Club, 1966
 Gravity anomalies: Richard, 1969
 Paleontology, Pleistocene Mollusca: Nave, 1968, 1969
 Chert in aggregate: Kneller, 1966, 1967, 1968a, b, c
 Cincinnati Arch area
 Brassfield Formation: O'Donnell, 1970
 Silurian conodont zones: Rexroad, 1970b
 Cincinnati Arch province, oil and gas: Patton, 1969
 Cincinnati Arch structure: Herrmann, 1969; Janssens, 1967
 Cincinnati area: See also Hamilton County; Southwestern Ohio
 Aeroradioactivity: Guillou, 1966
 Conodonts: Singh, 1966
 Geologic history: Latham, 1969
 Pleistocene geology: Durrell, 1968
 Pre-Illinoian lake clays: Ettensoh, 1970
 Trace fossils: Osgood, 1970
 Clark County
 Field guide: Frank, 1970a; Horvath, 1967a; Wittenberg Univ. Geology Club, 1966
 Gravity anomalies: Richard, 1969
 Ground water: Walton, 1966
 Landslopes: White, J. F., 1966
 Ordovician strata: Hariharan, 1970
 Paleontology, Pleistocene Mollusca: Nave, 1968, 1969
 Seismic reflection study, subsurface structure: Mayhew, 1969
 Seismic refraction survey: Hassemer, 1966

- Clay Center
 Celestite locality: Dana, 1932
 Celestite crystals: Roedder, 1969
 Clay mineralogy, Kope and Fairview Formations:
 Bassarab, 1968, 1969
 Clay minerals, in Harlem Coal Underclay: Callahan,
 1966
 In till: Wilding, 1969
 Clay production: Ohio Dept. Development, 1968; Ohio
 Dept. Indus. Relations
 Clay sediments in Great Miami River basin: Huff, 1968
 Clermont County
 Field guide: Caster, 1970
 General geology: H. C. Nutting Co., 1967; Osborne,
 1966
 Madeira quadrangle: Osborne, 1970b
 Ordovician strata: Hariharan, 1970
 Paleontology, conodonts: Bergström, S. M., 1966,
 1969; Kohut, 1969a; Sweet, 1970c
 Trilobites: Rife, 1967
 Pleistocene geology: Durrell, 1968
 Rock and fossil collecting: Rife, 1967
 Stratigraphy, Ordovician: Peck, J. H., 1966
 Climate, Pleistocene: Wayne, 1967
 Clinton County
 Brassfield Limestone: Carr, 1970; Rexroad, 1967
 Glacial geology: Teller, 1967
 Ordovician strata: Hariharan, 1970
 Paleontology, conodonts: Bergström, S. M., 1969;
 Rexroad, 1967
 Pelecypods: Pojeta, 1968
 Problematica: Ross, J. P., 1967
 Radiocarbon measurements: Ogden, 1967a
 Till stratigraphy: Goldthwait, 1969
 Coal
 Acid mine drainage: Biesecker, 1966; News in Eng.,
 1969
 Coalification patterns: Damberger, 1970
 Conemaugh deposition: Morris, D. A., 1967, 1968
 Deposition conditions: Wanless, 1969
 Fossils from coal beds: Hoare, 1968b
 Lithofacies patterns applied to coal exploration: Berry-
 hill, 1970
 Mapping coal outcrop with aerial photography: Norell,
 1966
 Minor elements: Zubovic, 1966
 Monongahela Group and Waynesburg Formation:
 Hoover, 1969
 Origin: Frank, 1970b
 Production: Ohio Dept. Development, 1968; Ohio Dept.
 Indus. Relations
 Resources: Averitt, 1969
 Sandstone cutouts: Tilton, J. G., 1967
 Sedimentation: Donaldson, 1969b
 Stripping-coal resources: Averitt, 1968, 1970
 Sulfur in coal: Walker, F. E., 1966
 Tar and oil from carbonization of coal: Walters, 1967
 College Corner area, general geology: Saines, 1966
 Columbiana County
 Aeroradioactivity map: Bates, R. G., 1966c
 Bedrock geology, Minerva quadrangle: DeLong, 1967b
 Clinton sandstone: Knight, 1969
 Coal, minor elements in: Zubovic, 1966
 Field guide: Frank, 1970a
 Ground water, Sandy Creek basin: Prée, 1962i
 Oil and gas deep drilling: Ebright, 1970
 Paleocology, Brush Creek Limestone: Ottum, 1969
 Paleontology, Arachnida: Murphy, 1970b
 Cephalopods from Brush Creek Limestone: Murphy,
 1970a
 Pelecypods: Murphy, 1966a, 1967b
 Soil: Lessig, 1968
 Concretions
 Development: Ettonsoh, 1969
 Erie and Ross Counties: Cole, F., 1968
 Conservation, oil and gas: Cissell, 1965
 Coshocton County
 Coal, minor elements in: Zubovic, 1966
 Sulfur in: Walker, F. E., 1966
 Ground water, Kokosing River basin, Prée, 1962j
 Muskingum River basin: Schmidt, 1962f
 Subsurface flow: Jamieson, 1969
 Tuscarawas River basin: Walker, A. C., 1962e
 Walhonding River basin: Prée, 1962h
 Wills Creek basin, lower part: Walker, A. C.,
 1962h
 Hydrologic data: Hobbs, 1968, 1970
 Hydrology of thin-limestone layers: Caswell, 1969
 Ohio Shale Foerstia zone: Schopf, J. M., 1970
 Paleogeography, Middle Allegheny: Flores, 1966
 Soil moisture-tension data: Holtan, 1968
 Water resources, Muskingum River basin: Ohio Div.
 Water, 1968
 Crawford County
 Devonian rocks: Janssens, 1970a
 Ground water, carbonate aquifers: Ohio Div. Water,
 1970
 Water resources, Muskingum River basin: Ohio Div.
 Water, 1968
 Portage River basin: Ohio Div. Water, 1966b
 Sandusky River basin: Ohio Div. Water, 1966b
 Crustal study: Zietz, 1966a, b
 Cryptoexplosive structure: See Cryptovolcanic structure
 Cryptovolcanic structure: Thomas, B., 1966
 Bibliography: Freeburg, 1966
 Characteristic features: Short, 1968
 Gravity survey: Bull, 1967
 Peripheral deformation: Galbraith, 1968, 1969
 Shatter cones: Dietz, 1968
 Crystal molds in dolomite: Summerson, 1966
 Cuyahoga County
 Bedford Formation in Cleveland vicinity: Kohout, 1969
 Cuyahoga River water-quality variations: Schroeder,
 1966
 Field guide: DeBrosse, 1967; Frank, 1970a
 Gas analyses: Moore, B. J., 1967
 Ground-water resources, Chagrin River basin: Walker,
 A. C., 1962c
 Cuyahoga River basin (lower part): Walker, A. C.,
 1962b
 Paleobotany, Problematica: Lesquereux, 1890
 Tasmanites: Boneham, 1967
 Paleontology, Devonian fish: Hlavin, 1966
 Problematica: Lesquereux, 1890
 Quaternary insects: Coope, 1968
 Pleistocene deposits, age and correlation: White, G. W.,
 1968c
 Depositional environment: Miller, B. B., 1970b
 Salt, faults in salt mines: Jacoby, 1970a
 Mining operations: Bleimeister, 1961
 Salina salt deposition: Dellwig, 1969
 Storage of hydrocarbons in salt cavities: Jacoby,

- 1970b
 Uranium reconnaissance: U. S. Atomic Energy Comm., 1968
 Water-pollution detection: Bay, 1968
- Darke County**
 Ground-water resources, Deer Creek basin: Schmidt, 1961a
 Stillwater River basin: Walker, A. C., 1960
 Twin Creek basin: Walker, A. C., 1961b
 Wabash River basin: Walker, A. C., 1961a
 Pleistocene pollen, Sunbeam Prairie: Kapp, 1966
- Defiance County, subsurface Devonian formations:**
 Janssens, 1970b
- Delaware County**
 Columbus Limestone, abraded ripple-marked surface: Bates, R. L., 1969
 Devonian rocks: Janssens, 1970a
 Devonian sand: Summerson, 1970a
 Field guide: Crawl, 1969; Frank, 1970a; Janssens, 1969b
 Ground-water contamination by oil-field brine: Boster, 1967; Shaw, 1966
 Ohio Shale *Foerstia* zone: Schopf, J. M., 1970
 Olentangy Shale, age: Tillman, 1969, 1970
 Paleobotany, peat: Morey, P. R., 1968
 Tasmanites: Boneham, 1967
 Paleontology, bone beds: Conkin, J. E., 1969
 Conodonts: Ramsey, 1969a
Foerstia zone in Ohio Shale: Schopf, J. M., 1970
 Scioto and Olentangy Rivers geochemistry: Eastin, 1967a
 Sunbury Shale: Shaver, 1970
- Dellroy quadrangle, bedrock geology:** DeLong, 1968
- Deltaic sedimentation, Late Paleozoic:** Wanless, 1970
- Devonian (stratigraphic geology)**
 Bedford Shale: deWitt, 1970; Kohout, 1969
 "Big Lime": Owens, 1970
 Bois Blanc Formation correlations: Boucot, 1968
 Central Ohio: Crawl, 1969
 Chagrin and Cleveland Shales, paleocurrent analysis: Lewis, T. L., 1968
 Columbus Limestone and Detroit River Group core study: Bailey, T. C., 1968
 Columbus Limestone abraded ripple-marked surface: Bates, R. L., 1969
 Columbus Limestone, cement raw material: Bates, R. L., 1966
 Columbus-Delaware contact: U. S. Geol. Survey, 1967
 Correlation: Oliver, 1968b, 1969
 Deltas: Wanless, 1970
 Detroit River Group: Fagerstrom, 1966
 Erie County: Herdendorf, 1966
 Holland Quarry Shale: Fagerstrom, 1967
 Middle Devonian rocks: Janssens, 1970a, b
 Mississippian boundary: Gutschick, 1967
 Monroe Formation: Grabau, 1910
 New Albany Shale: Lineback, 1970
 Northeastern Ohio: Szmuc, 1970a
 Northwestern Ohio: Janssens, 1969a; Sanford, 1968
 Ohio Shale: Campbell, 1946
Foerstia zone: Schopf, J. M., 1969
 Olentangy Shale: Tillman, 1969, 1970
 Outcrops in Columbus and vicinity: Janssens, 1969b
 Paleobotany, Charophyta: Conkin, J. E., 1970
Foerstia zone: Schopf, J. M., 1970
- Paleontology, invertebrate, Brachiopoda: Fagerstrom, 1966, 1969
 Corals: Oliver, 1968a; U. S. Geol. Survey, 1969b
 Pre-Olentangy rocks: Janssens, 1968
 Sand patterns: Rooney, 1970; Summerson, 1970a, b
 Shales: Schwietering, 1970
 Silica Formation: Mitchell, S. W., 1967
 Cement raw material: Bates, R. L., 1966
 Subsurface rocks in northwestern Ohio: Janssens, 1969a
 Sylvania Sandstone: Hatfield, 1968a
 Tioga Bentonite: Dennison, 1968, 1970
 Vermilion West and Berlin Heights quadrangles: Herdendorf, 1966
- Dolomite**
 Aggregate: Stith, 1969, 1970
 Crystal molds in dolomite: Summerson, 1966
 Used by railroads: Shrode, 1966
- Dolostone**
 Electron microscope study: Jackson, 1968
 Structures and fabrics: Kahle, 1968b
- Drainage changes**
 Cincinnati area: Durrell, 1968
 Florence valley: Hole, 1970
 Southwestern Ohio: Teller, 1970a, b
 Teays River: Neff, 1970
- Drainage patterns, Ottawa County: Sparling, 1967
 Drift thickness, Toledo area: Bush, 1966
 Dunkard basin, Dunkard Group: Camp, 1968
- Earthquake, Anna: Willis, 1970
 Earth science education: Hassard, 1969; Mayer, 1970; Roth, R. A., 1969; Skinner, 1967, 1969
 Earth tides measurement: Massman, 1968
 Eastern Ohio: See also the counties in eastern Ohio
 Aeroradioactivity survey: Bates, R. G., 1966a
 Devonian shales: Schwietering, 1970
 Devonian Tioga Bentonite: Dennison, 1970
 Mineral resources: U. S. Geol. Survey, 1968b
 Oil and gas: Roth, E. E., 1968
 Paleocurrents indicated by ostracod orientation: Jones, 1969
 Paleontology, conodonts: Merrill, 1968a, b, c, 1969
 Palynology, four Allegheny coals: Gray, 1967
 Middle Kittanning coal: Gray, 1966
 Pennsylvanian, Allegheny Series: Baroffio, 1966; Roberts, 1966; Zimmerman, R. K., 1966a, b
 Clay minerals in Harlem Coal Underclay: Callahan, 1966
 Deltaic deposits: Ferm, 1970
 Fossils from coal beds: Hoare, 1968b
 Lower Freeport Sandstone: Flores, 1967b
 Paleostream analysis: Donaldson, 1969c
 Pottsville conglomerates: Meckel, 1967
 Salt: Lefond, 1969
 Thickness of Middle Allegheny stratigraphic intervals: Flores, 1968
- East Liberty quadrangle, glacial geology: Forsyth, 1967
 Economic geology: See also names of industrial minerals
 Clinton sandstone, northeastern Ohio: Knight, 1968, 1969
 Mississippian System: Szmuc, 1970b
- Engineering geology**
 Acid mine drainage: Smith, E. E., 1966
 Highways: Mintzer, 1967; Struble, 1967
 Utica dam site, Licking County: U. S. Army Corps

- Engineers, 1967
 Environmental geology, Lake Erie shore: Burke, E. G., 1970
- Erie County
 Castalia Prairie: Sears, 1967
 Concretions: Cole, F., 1968
 Field guide: Frank, 1970a
 Field guide, Devonian rocks: Janssens, 1970a
 Floods in Sandusky area: Cross, 1967b
 Florence valley, abandoned stream: Hole, 1970
 General geology: Erie Regional Planning Comm., 1967
 Geology of Birmingham-Erie field: Kinzelman, 1968
 Geology of Vermilion West and Berlin Heights quadrangles: Herdendorf, 1966
 Ground-water percolation: Stibbe, 1965
 Mineralogy, whewellite: Hyde, 1966; Leavens, 1968
 Oil and gas, Cambrian pool: Fenstermaker, 1969
 Paleobotany, *Problematica*: Lesquereux, 1890
Tasmanites: Boneham, 1967
 Paleontology, ostracods: Peterson, 1966
 Radiocarbon measurements: Ogden, 1967a, 1969
 Silurian, Bass Islands Formation: Sparling, 1970
 Soil: Redmond, 1967
 Soil map: Ohio Div. Lands and Soil, 1967a
 South Birmingham Pool area stratigraphy: Janssens, 1968
 Water resources, Portage River basin: Ohio Div. Water, 1966b
 Sandusky River basin: Ohio Div. Water, 1966b
 Extraterrestrial spherules: Lougheed, 1966
- Fairfield County
 Ground-water quality: Norris, 1967
 Ground-water resources, South Fork, Licking River basin: Schmidt, 1962h
 Walnut Creek basin: Schmidt, 1961c
 Soil: U. S. Dept. Agriculture, 1969
 Water resources, Hocking River basin: Ohio Div. Water, 1966a
- Farmersville quadrangle, Pleistocene geology: Wright, F. M., 1970
- Fayette County
 Ordovician strata: Hariharan, 1970
 Radiocarbon measurements: Ogden, 1969
 Seismic reflection study, subsurface structure: Mayhew, 1969
 Soil: Moos, 1970
 Till stratigraphy: Goldthwait, 1969
- Field guides
 Adams County: Calvert, 1968a, b; Ohio Geol. Soc., 1968
 Bibliography: Geoscience Inf. Soc., 1968
 Brown County: Bergström, S. M., 1969
 Butler County: Sigma Gamma Epsilon, 1968
 Champaign County: Wittenberg Univ. Geology Club, 1966
 Clark County: Wittenberg Univ. Geology Club, 1966
 Clermont County: Bergström, S. M., 1969; Caster, 1970
 Clinton County: Bergström, S. M., 1969
 Cuyahoga County: DeBrosse, 1967
 Delaware County: Janssens, 1969b
 Erie County: Janssens, 1970a
 Franklin County: Janssens, 1969b, 1970a
 General: Melvin, 1970
 Green County: Wittenberg Univ. Geology Club, 1966
 Hamilton County: Sigma Gamma Epsilon, 1968
 Intercollegiate field trips: Frank, 1970a
 Jefferson County: Barlow, 1969; Donaldson, 1969a
 Licking County: Graham, 1969; C. L. Herrick Geology Soc., 1969
 Lorain County: DeBrosse, 1967
 Lucas County: Kahle, 1968b
 Madison County: Janssens, 1969b
 Marion County: Janssens, 1970a
 Medina County: DeBrosse, 1967
 Muskingum County: Graham, 1969; C. L. Herrick Geology Soc., 1969; Ohio Div. Geol. Survey, 1966
 Perry County: Ohio Div. Geol. Survey, 1966
 Sandusky County: Kahle, 1968b
 Scioto County: Calvert, 1968a, b; Ohio Geol. Soc., 1968
 Union County: Janssens, 1969b
 Warren County: Caster, 1970
 Western Ohio Silurian rocks: Horvath, 1967a
 Wood County: Kahle, 1968b
- Flint, Ohio's official gemstone: Earth Science, 1966; Ohio Dept. Nat. Resources, 1968; Ohio Div. Geol. Survey, 1967
 Petrography: Carskadden, 1969
 Flint Ridge: Crawford, 1967; Graham, 1969; C. L. Herrick Geology Soc., 1969; Mitchell, R. H., 1943; Ohio Dept. Nat. Resources, 1968; Ohio Div. Geol. Survey, 1967
- Floods
 Amesville, Athens County: Mayo, 1969
 Guernsey County: Rostvedt, 1968
 Hillsboro area: Cross, 1966, 1970
 Killbuck Creek: Webber, 1970
 Magnitude and frequency: Cross, 1969
 Ohio River basin: Beaber, 1965
 Sandusky area: Cross, 1967b
 Southern Ohio: Rostvedt, 1968
 Wooster area: Webber, 1970
 Foerste, August F., biography: Horvath, 1967c
- Fossil collecting
 General: Murray, 1967
 Hueston Woods State Park: Ohio Div. Parks and Recreation, 1967
 Southwestern Ohio: Brace, 1969c
- Franklin County
 Devonian sand: Summerson, 1970a
 Field guide, Devonian rocks: Janssens, 1969b, 1970a
 Ground-water percolation: Stibbe, 1965
 Ground-water resources, Scioto River basin: Schmidt, 1961b
 Limestone analysis: Ingamells, 1967
 Ohio Shale Foerstia zone: Schopf, J. M., 1970
 Paleobotany, pollen stratigraphy: Garrison, 1967
 Paleontology, bone beds: Conkin, J. E., 1969
 Conodonts: Ramsey, 1969a
 Radiocarbon measurements: Ogden, 1967a
 Scioto and Olentangy Rivers geochemistry: Eastin, 1967a
 Seismic reflection study, subsurface structure: Mayhew, 1969
 Soil: Gersper, 1970
 Till stratigraphy: Goldthwait, 1969
- Fulton County
 Subsurface Devonian formations: Janssens, 1970b

Gallia County

- Coal, sulfur in: Walker, F. E., 1966
- Ground-water resources, Indian Guyan Creek basin: Prée, 1962c
- Ohio River tributaries: Prée, 1962c
- Raccoon Creek basin (lower part): Prée, 1962b
- Raccoon Creek basin (upper part): Prée, 1962a
- Symmes Creek basin: Prée, 1962c
- Landslides: Fisher, S. P., 1968
- Water resources, Hocking River basin: Ohio Div. Water, 1966a

Gas analyses: Moore, B. J., 1967

Gas in northern Cincinnati arch province: Lockett, 1968

Gas in northwestern Ohio: Vary, 1968

Geauga County

Devonian limestone in subsurface: U. S. Geol. Survey, 1967

Fern Lake: Hansen, 1967

Field guide: Frank, 1970a

Ground-water resources, Chagrin River basin: Walker, A. C., 1962c

Cuyahoga River basin (upper part): Walker, A. C., 1962a

Sharon Conglomerate hydrology: Wells, 1970

General geology

Bibliography: U. S. Geol. Survey, 1964a, 1966a, b, 1968a, 1969a, 1970a, b

Bowling Green area: Forsyth, 1966b

Caldwell North quadrangle: Smith, B. E., 1969

Carrollton quadrangle: DeLong, 1969

College Corner area, Butler and Preble Counties: Saines, 1966

Dayton area: Norris, 1966a

Dellroy quadrangle: DeLong, 1968

Madeira quadrangle: Osborne, 1970b

Minerva quadrangle: DeLong, 1967b

Northeastern Ohio: Banks, 1970a, b

Northwestern Ohio: Burgess and Niple, 1967

Ohio Turnpike, western half: Ruch-Hirzel, 1970

Oxford quadrangle: Spoley, 1967

Portage County: Winslow, 1966

Sandusky area: Erie Regional Planning Comm., 1967

South Bloomingville quadrangle: DeLong, 1967a

Southwestern Ohio: H. C. Nutting Co., 1967

Summit County, Bath Township: Metzler, 1967

Utica dam site, Licking County: U. S. Army Corps Engineers, 1967

Vanceburg quadrangle: Morris, R. H., 1967

Vermilion West and Berlin Heights quadrangles: Herdendorf, 1966

Wayne County: Multer, 1967

Geochemistry

Columbus Limestone and Detroit River Group: Bailey, T. C., 1968

Limestone: Ingamells, 1967

Scioto and Olentangy Rivers: Eastin, 1967a, b, 1970

Geologic history, Cambrian System: Webb, E. J., 1969a

Geologic maps

Berlin Heights quadrangle: Herdendorf, 1966

Caldwell North quadrangle: Smith, B. E., 1969

Carrollton quadrangle: DeLong, 1969

Dellroy quadrangle: DeLong, 1968

Hamilton County, eastern part: Osborne, 1966

Index: McIntosh, 1970

Madeira quadrangle: Osborne, 1970b

Minerva quadrangle: DeLong, 1967b

Portage County: Winslow, 1966

South Bloomingville quadrangle: DeLong, 1967a

Southern Ohio: U. S. Geol. Survey, 1968b; Willden, 1968

Vanceburg quadrangle: Morris, R. H., 1967

Vermilion West quadrangle: Herdendorf, 1966

Wayne County: Multer, 1967

Geologic names: Keroher, 1966, 1970

Geology teaching, for earth science teachers: Mayer, 1970

Soils information: Smith, J. M., 1967

Geomorphology, Butler County: Smith, J. M., 1966

Geophysics

Aeromagnetic survey: Zietz, 1966a, b, 1969

Earth tides measurement: Massman, 1968

Magnetic map, southern Ohio: Zietz, 1968

Magnetotelluric investigation: Renick, 1969

Natural gamma logging: Norris, 1969a; U. S. Geol. Survey, 1969c

Pore pressure effects, Berea Sandstone: Lane, 1969

Sub-bottom reflection survey, Lake Erie: Wall, 1968

Survey, southern Ohio: Willden, 1968

Glacial deposits

Age and correlation at Garfield Heights: White, G. W., 1968c

Altered drift: Totten, 1968, 1969c

Clay mineralogy: Wilding, 1969

Dayton area: Norris, 1966a

Differentiation, Portage County: Favède, 1969

Eaton area: Thomas, J. B., 1970

Erratics: Ray, 1969

Loess in southwest Ohio: Goldthwait, 1968

Mapping: Forsyth, 1968b

Northeastern Ohio: White, G. W., 1968d, 1969a

Ohio: Goldthwait, 1967

Particle size and carbonate analysis: Steiger, 1969

Portage County: Winslow, 1966

Pre-Illinoian lake clays, Cincinnati region: Ettensoh, 1970

Pre-Wisconsin: Ray, 1966

Till analysis: Gross, 1969

Till in oriented thin sections: Sitler, 1968

Till stratigraphy, from Columbus to Highland County: Goldthwait, 1969

Till thickness: White, G. W., 1969b

Till weathering: Sitler, 1969

Titusville till near Youngstown: Moran, 1967, 1968

Glacial geology

Cedar Swamp, Champaign County: Scott, R. D., 1967

Clermont County: Caster, 1970

Clinton County: Teller, 1967

East Liberty quadrangle: Forsyth, 1967

Highland County: Rosengreen, 1970

Licking County: Forsyth, 1966a

Lobal advances: Dreimanis, 1970

Nebraskan, southwestern Ohio: Teller, 1970b

North-central Ohio: Totten, 1969a, b

Northeastern Ohio: Miller, B. B., 1970a; White, G. W., 1968a

Preble County: Thomas, J. B., 1966

Southeastern Ohio: Ray, 1969

Southern Ohio: Durrell, 1967

Southwestern Ohio: Nave, 1969; Teller, 1970a

Summit County, Bath Township: Metzler, 1967

Warren County: Caster, 1970

Wayne County: White, G. W., 1967a

West Mansfield quadrangle: Forsyth, 1968a

- Glacial lake stages: Dreimanis, 1966
- Glacial maps
- Clinton County: Teller, 1967
 - Dayton area: Norris, 1966a
 - East Liberty quadrangle: Forsyth, 1967
 - Highland County: Rosengreen, 1970
 - Licking County: Forsyth, 1966a
 - Ohio: Goldthwait, 1967
 - Wayne County: White, G. W., 1967a
 - West Mansfield quadrangle: Forsyth, 1968a
- Glaciation, theory: White, G. W., 1967b
- Gravity anomalies, parts of Champaign and Clark Counties: Richard, 1969
- Gravity data: Zietz, 1966a
- Gravity map, southern Ohio: U. S. Air Force Aeronautical Chart and Inf. Center, 1968
- Gravity survey, Serpent Mound area: Bull, 1967
- Great Miami River basin, clay sediments: Huff, 1968
- Great Miami River, time of travel of water: Bauer, 1968
- Great Miami River valley
- Ground-water hydrology: Spieker, A. M., 1968a, b
 - Ground-water resources: Spieker, A. M., 1968c
- Greene County
- Brassfield Limestone: Carr, 1970; Rexroad, 1967
 - Cement raw material: Bates, R. L., 1966
 - Field guide: Frank, 1970a; Horvath, 1967a; Wittenberg Univ. Geology Club, 1966
 - Ground-water resources, Dayton area: Norris, 1966a
 - Landslopes: White, J. F., 1966
 - Paleontology, conodonts: Kohut, 1967, 1968; Rexroad, 1967
 - Pleistocene Mollusca: Nave, 1968, 1969
 - Seismic reflection study, subsurface structure: Mayhew, 1969
 - Soil: Moos, 1970
 - Surface water relation with ground water: U. S. Geol. Survey, 1968d
- Ground water
- Analog-model study: Spieker, A. M., 1965, 1968b
 - Aquifer tests: Schaefer, 1965
 - Carbonate aquifers in northwest Ohio: Ohio Div. Water, 1970
 - College Corner area, Butler and Preble Counties: Saines, 1966
 - Computed drawdown from electric analog simulation: Norris, 1966b
 - Contamination, at Millbury, Wood County: Minning, 1970
 - By oil-field brine: Boster, 1967; Shaw, 1966
 - By waste disposal: Norris, 1967 - General: Norris, 1969c
 - Geology, Great Miami River valley, lower part: Spieker, A. M., 1968a
 - Montville Township, Medina County: Yacuzzo, 1969
 - Hydrogeology, Silurian-Devonian aquifer, upper Auglaize River basin: Rowland, 1969
 - Induced streambed infiltration effects on water levels: Walton, 1966
 - Influence on concretion development: Ettensoh, 1969
 - Levels: Kaser, 1965; U. S. Geol. Survey, 1970d
 - Mill Creek valley, Butler and Hamilton Counties, development in: Fidler, 1970
 - Mineralized: Feth, 1965
 - Percolation: Stibbe, 1965
 - Relation with surface water: U. S. Geol. Survey, 1968d
- Reservoir near Canton: Kazmann, 1958
- Resources, Black and Clear Fork basins: Prée, 1962e
- Chagrin River basin: Walker, A. C., 1962c
 - Conotton Creek basin: Schmidt, 1962e
 - Cuyahoga River basin (lower part): Walker, A. C., 1962b
 - Cuyahoga River basin (upper part): Walker, A. C., 1962a
 - Dayton area: Norris, 1966a
 - Deer Creek basin: Schmidt, 1961a
 - Fourmile Creek basin: Walker, A. C., 1961c
 - Great Miami River valley: Spieker, A. M., 1968c
 - Hocking River basin: Ohio Div. Water, 1966a
 - Ice Creek, Indian Guyan Creek, and Symmes Creek basins: Prée, 1962c
 - Killbuck Creek basin (upper part): Prée, 1962g
 - Kokosing River basin: Prée, 1962j
 - Licking River basin: Schmidt, 1962g
 - Little Salt Creek basin: Schmidt, 1962b
 - Little Scioto River and Pine Creek basins: Prée, 1962d
 - Mohican River basin (lower part): Prée, 1962f
 - Moxahala Creek basin: Walker, A. C., 1962f
 - Muskingum River basin: Ohio Div. Water, 1968
 - Muskingum River basin (lower portion): Walker, A. C., 1962j
 - Muskingum River basin (part of middle portion): Walker, A. C., 1962g
 - Muskingum River basin (part of upper portion): Schmidt, 1962f
 - Ohio River tributaries basins: Prée, 1962c, d
 - Portage County: Winslow, 1966
 - Portage River basin: Ohio Div. Water, 1966b
 - Raccoon Creek basin (lower part): Prée, 1962b
 - Raccoon Creek basin (upper part): Prée, 1962a
 - Salt Creek basin: Schmidt, 1961d
 - Sandusky River basin: Ohio Div. Water, 1966b
 - Sandy Creek basin: Prée, 1962i
 - Scioto Brush Creek basin: Schmidt, 1962c
 - Scioto River basin (lower part): Schmidt, 1962a
 - Scioto River basin (middle part): Schmidt, 1961b
 - Scioto River basin (part of lower portion): Schmidt, 1961e
 - Southeastern Ohio: Wyrick, 1968
 - South Fork of Licking River basin: Schmidt, 1962h
 - Stillwater Creek basin: Walker, A. C., 1962d
 - Stillwater River basin: Walker, A. C., 1960
 - Sugar Creek Basin: Schmidt, 1962d
 - Tuscarawas River basin (lower part): Walker, A. C., 1962e
 - Tuscarawas River basin (middle part): Schmidt, 1962d
 - Twin Creek basin: Walker, A. C., 1961b
 - Wabash River basin (middle part): Walker, A. C., 1961a
 - Walhonding River basin: Prée, 1962h
 - Walnut Creek basin: Schmidt, 1961c
 - Wills Creek basin (lower part): Walker, A. C., 1962h
 - Wills Creek basin (upper part): Walker, A. C., 1962i
- Saline ground-water resources: Feth, 1970, Sedam, 1970
- Silurian-Devonian aquifer, Maumee River basin: Rowland, 1970
- Stations, index: Rapp, 1969

- Streambed leakage in glacial outwash: Norris, 1970
 Subsurface flow: Jamieson, 1969
 Testing methods effects on computed hydraulic properties: Norris, 1966c
- Guernsey County**
 Airphoto interpretation for shallow subsurface exploration: Struble, 1965
 Bedrock geology, Caldwell North quadrangle: Smith, B. E., 1969
 Coal, sulfur in: Walker, F. E., 1966
 Floods: Rostvedt, 1968
 Ground-water resources, Stillwater Creek basin: Walker, A. C., 1962d
 Wills Creek basin (lower part): Walker, A. C., 1962h
 Wills Creek basin (upper part): Walker, A. C., 1962i
 Highway engineering: Mintzer, 1967
 Paleogeography, Middle Allegheny: Flores, 1966
 Paleontology, Cephalopoda: Frontz, 1966
 Crinoids: Branson, 1967; Burke, J. J., 1966a, b
 Precambrian: Saylor, 1968
 Water resources, Muskingum River basin: Ohio Div. Water, 1968
- Gypsum, production: Ohio Dept. Indus. Relations**
- Hamilton County: See also southwestern Ohio**
 Aeroradioactivity: Guillou, 1966
 Bedrock geology, eastern part: Osborne, 1966, 1968a, b
 Madeira quadrangle: Osborne, 1970b
 Southwestern part: Ford, 1967, 1968a
 Calcarenites, analysis: Osborne, 1970a
 Classification: Osborne, 1969a, b
 Carbonate microfacies: Carozzi, 1967
 Clay mineralogy, Kope and Fairview Formations: Bassarab, 1968, 1969
 Field guide: Sigma Gamma Epsilon, 1968
 General geology: H. C. Nutting Co., 1967
 Geologic history: Latham, 1969
 Glacial deposits, pre-Wisconsin: Ray, 1966
 Great Miami River, time of travel of water: Bauer, 1968
 Ground water, analog-model study: Spieker, A. M., 1965, 1968b
 Concretion development, influence in: Ettensoh, 1969
 Great Miami River valley: Spieker, A. M., 1968a, c
 Mill Creek valley, development: Fidler, 1970
 Ordovician strata: Hariharan, 1970
 Paleontology, Bryozoa: Anstey, 1969a; Utgaard, 1968
 Conodonts: Douglas, 1970c; Kohut, 1969a; Singh, 1966; Sweet, 1970c
 Trace fossils: Osgood, 1969, 1970
 Trilobites: Ross, R. J., 1967
 Petrography, Latonia Formation: Farber, 1968
 Limestones: Osborne, 1967
 McMillan Formation: Wetzel, 1968
 Pleistocene geology: Durrell, 1968
 Radiocarbon measurements: Ogden, 1967a
 Sedimentation, Eden Shale: Anstey, 1969b
 Paleocurrents, Ordovician: Hofmann, 1966b
 Point bars, Recent: Pryor, 1967; Wiethe, 1970
 Soil map: Ohio Div. Lands and Soil, 1966b
 Soil mapping: Struble, 1966
 Stratigraphy, Upper Ordovician: Ford, 1968b; Peck, J. H., 1966
- Stream pollution: Weibel, 1964
 Structure: Hofmann, 1966a
- Hamilton quadrangle, Pleistocene stratigraphy: Brace, 1968**
- Hancock County**
 Field guide: Frank, 1970a
 Water resources, Portage River basin: Ohio Div. Water, 1966b
 Sandusky River basin: Ohio Div. Water, 1966b
- Hardin County**
 Gas analyses: Moore, B. J., 1967
 Ground water, carbonate aquifers: Ohio Div. Water, 1970
 Scioto and Olentangy Rivers geochemistry: Eastin, 1967a
 Water resources, Portage River basin: Ohio Div. Water, 1966b
 Sandusky River basin: Ohio Div. Water, 1966b
- Harrison County**
 Aeroradioactivity map: Bates, R. G., 1966c
 Coal, sulfur in: Walker, F. E., 1966
 Ground-water resources, Conotton Creek basin: Schmidt, 1962e
 Stillwater Creek basin: Walker, A. C., 1962d
 Uranium reconnaissance: U. S. Atomic Energy Comm., 1968
 Water resources, Muskingum River basin: Ohio Div. Water, 1968
- Henry County**
 Devonian formations, subsurface: Janssens, 1970b
 Field guide: Frank, 1970a
 Gas analyses: Moore, B. J., 1967
 Ground water, carbonate aquifers: Ohio Div. Water, 1970
 Soil: Flesher, 1969; Ohio Div. Lands and Soil, 1968d
- Highland County**
 Brassfield Limestone: Burger, 1970a; Carr, 1970; Rexroad, 1967
 Cryptovolcanic structure: Bull, 1967; Thomas, B., 1966
 Devonian sand: Summerson, 1970a
 Floods in Hillsboro vicinity: Cross, 1966, 1970
 Glacial geology: Rosengreen, 1970
 Mercury in sphalerite: Jolly, 1968
 Paleontology, conodonts: Rexroad, 1967
 Radiocarbon measurements: Ogden, 1969
 Silurian cross section: Horvath, 1970b
 Till stratigraphy: Goldthwait, 1969
 Highway engineering: Struble, 1965, 1966, 1967
 Hillsboro area floods: Cross, 1966, 1970
 History, Department of Geology, Ohio State University: Spieker, E. M., 1969
- History of geology**
 American midwest: White, G. W., 1969c
 Northeastern Ohio: Hall, J. F., 1970
 Theory of continental glaciation: White, G. W., 1967b
 History of oil and gas production: Cissell, 1965; Hubbert, 1966; Norling, 1970
- Hocking County**
 Bedrock geology, South Bloomingville quadrangle: DeLong, 1967a
 Coal, sulfur in: Walker, F. E., 1966
 Ground-water resources, Salt Creek basin: Schmidt, 1961d
 Hydrology, Hocking River valley: Current, 1967; El Bakhbkh, 1970
 Landslides: Fisher, S. P., 1968

- Ohio Shale *Foerstia* zone: Schopf, J. M., 1970
 Oil and gas, Carbon Hill West Pool: Whieldon, 1966b
 Logan field, water-flooding possibilities: Johnson, H. R., 1963
 Oil-producing formations: Rough, 1970
 Reservoir study, Clinton sand: Schrider, 1968
 Paleogeography, Middle Allegheny: Flores, 1966
 Paleontology, crinoids: Burke, J. J., 1967; Strimple, 1969
 Radiocarbon measurements: Ogden, 1967a
 Water resources, Hocking River basin: Ohio Div. Water, 1966a
 Muskingum River basin: Ohio Div. Water, 1968
 Hocking Hills State Park, bedrock geology: DeLong, 1967a
 Hocking River, fish kills: Seibert, 1966
 Hocking River valley terraces: Hall, G. F., 1969
 Holmes County
 Field guide: Frank, 1970a
 Ground-water resources, Killbuck Creek basin (upper part): Prée, 1962g
 Mohican River basin (lower part): Prée, 1962f
 Sugar Creek basin: Schmidt, 1962d
 Tuscarawas River basin (middle part): Schmidt, 1962d
 Walhonding River basin: Prée, 1962h
 Oil and gas, deep drilling: Ebright, 1970
 Paleogeography, Middle Allegheny: Flores, 1966
 Paleontology, pelecypod: Murphy, 1966a
 Water resources, Muskingum River basin: Ohio Div. Water, 1968
 Huron County
 Devonian rocks: Janssens, 1970a
 Geology of Vermilion West and Berlin Heights quadrangles: Herdendorf, 1966
 Mineralogy, whewellite: Hoefs, 1969
 Ohio Shale *Foerstia* zone: Schopf, J. M., 1970
 Oil and gas, Cambrian pool: Fenstermaker, 1969; McCaslin, 1966
 Hydrogeologic data, Coshocton County: Hobbs, 1968, 1970
 Hydrogeologic map, Great Miami River valley: Spieker, A. M., 1969
 Hydrogeology
 Berea and Cussewago Sandstones: Rau, 1969
 Thin limestone layers: Caswell, 1969
 Hydrology
 Akron area: Rau, 1970b
 Analog-model study: Spieker, A. M., 1965
 Bibliography: Randolph, 1966, 1969
 Great Miami River valley, Fairfield-New Baltimore area: Spieker, A. M., 1968b
 Lower part: Spieker, A. M., 1968a
 Hocking River valley: Current, 1967; El Bakhbkh, 1970
 Scioto River valley near Piketon: Norris, 1969b
 Silurian-Devonian aquifer, Auglaize River basin: Rowland, 1969
 Water-pollution detection by aerial photography: Bay, 1968
 Industrial minerals, cement raw materials: Bates, R. L., 1966
 Index to geologic maps: McIntosh, 1970
 Jackson County
 Coal, minor elements in: Zubovic, 1966
 Tar and oil from carbonization of: Walters, 1967
 Ground-water resources, Little Salt Creek basin: Schmidt, 1962b
 Little Scioto River: Prée, 1962d
 Pine Creek basin: Prée, 1962d
 Raccoon Creek basin (lower part): Prée, 1962b
 Symmes Creek basin: Prée, 1962c
 Paleontology, Porifera: Hoare, 1968a
 Radiocarbon measurements: Ogden, 1969
 Silurian cross section: Horvath, 1970b
 Jefferson County
 Aeroradioactivity map: Bates, R. G., 1966c
 Coal, sulfur in: Walker, F. E., 1966
 Field guide: Barlow, 1969; Donaldson, 1969a
 Paleontology, amphibian: Carroll, 1968a, b
 Cephalopods from Brush Creek Limestone: Murphy, 1970a
 Microsaurs: Carroll, 1968b
 Stratigraphy, Monongahela Group: Streib, 1969
 Jointing in Pennsylvanian-age rocks: Nickelsen, 1967
 Kent State University, Geology Department: Feldmann, 1969
 Knox County
 Gas analyses: Moore, B. J., 1967
 Ground-water resources, Kokosing River basin: Prée, 1962j
 Licking River basin: Schmidt, 1962g
 Muskingum River basin (part of upper part): Schmidt, 1962f
 Soil map: Ohio Div. Lands and Soil, 1966c
 Water resources, Muskingum River basin: Ohio Div. Water, 1968
 Lacustrine deposits, particle size and carbonate analysis: Steiger, 1969
 Lake County
 Brine flow measurements: Grazulis, 1966
 Devonian limestone in subsurface: U. S. Geol. Survey, 1967
 Field guide: Frank, 1970a
 Ground-water resources, Chagrin River basin: Walker, A. C., 1962c
 Salt cavity: Emery, 1966
 Salt impurities: Andelfinger, 1966
 Salt mining: Bleimeister, 1961; Smith, J. D., 1966
 Salt, Salina deposition: Dellwig, 1969
 Lake Erie
 Bathythermograph recordings: Herdendorf, 1967
 Dissolved oxygen in island area: Britt, 1968
 Man's influence: Verduin, 1969
 Mercury: Seagran, 1970
 Oil and gas development: Fenstermaker, 1969; Heise, 1967; Helwig, 1970, Robertson, 1967
 Organic matter in sediments: Kemp, 1969
 Physical limnology cruise: Herdendorf, 1970b
 Pleistocene lakes: Dreimanis, 1966, 1969; Lewis, C. F. M., 1969; Stevenson, 1969
 Palynological studies: Lewis, C. F. M., 1966
 Radioactivity: Risley, 1966
 Sediments, content: Thomas, R. L., 1969
 Island area: Skoch, 1969
 Neutron activation analysis: Zubkoff, 1970
 Western basin: Herdendorf, 1968
 Seismic survey: Hobson, 1969

- Shore erosion: Burke, E. G., 1970
 Sub-bottom reflection survey: Wall, 1968
 Thermal data: Beeton, 1969
 Water analysis for inorganic constituents: Wood, 1970
 Water masses and movements: Herdendorf, 1969
 Water properties: Hartley, 1966a
 Water quality: Hartman, 1970; Hough, J. L., 1966
 Water sampling: Hartley, 1966b
 Water, trace elements in: Chawla, 1969
 Wave forces: Cole, A. L., 1969
 Lake Hope, acid mine pollution: Ahmad, 1970
 Landslides: Fisher, S. P., 1968; Lessig, 1966; Webb, D. K., Jr., 1967
 Land survey: Cropp, 1969
 Land use, Sandusky area: Erie Regional Planning Comm., 1967
- Lawrence County**
 Cement plant: Bergstrom, J. H., 1963
 Coal, sulfur in: Walker, F. E., 1966
 Tar and oil from carbonization of: Walters, 1967
 Ground-water resources, Ice Creek, Indian Guyan Creek, Ohio River tributaries and Symmes Creek basins: Prée, 1962c
 Ohio River tributaries and Pine Creek basin: Prée, 1962d
 Vanport Limestone, cement raw material: Bates, R. L., 1966
- Licking County**
 Black Hand narrows: Graham, 1969, C. L. Herrick Geology Soc., 1969
 Field guide: Frank, 1970a; Graham, 1969; C. L. Herrick Geology Soc., 1969
 Flint Ridge: Crawford, 1967
 General geology, Utica dam site: U. S. Army Corps Engineers, 1967
 Glacial map: Forsyth, 1966a
 Ground-water resources, Licking River basin: Schmidt, 1962g
 Moxahala Creek basin: Walker, A. C., 1962f
 Muskingum River basin (part of the upper portion): Schmidt, 1962f
 South Fork Licking River basin: Schmidt, 1962h
 Mississippian strata: Graham, 1969
 Paleontology, mollusks: Douglas, 1970a
 Pelecypod from Brush Creek Shale: Murphy, 1967b
 Petrology, Logan Formation: Pinker, 1970
 Radiocarbon measurements: Ogden, 1967a
 Soil weathering: Khangarot, 1969a, b
 Water resources, Muskingum River basin: Ohio Div. Water, 1968
 Limestone aggregate: Stith, 1969, 1970
 Limestone analysis: Ingamells, 1967
 Limestone, cement raw material: Bates, R. L., 1966
 Limestone dimension stone: Barton, 1968
 Limestone mine: Bergstrom, J. H., 1965b
 Limestone production: Ohio Dept. Indus. Relations
 Limestone used by railroads: Shrode, 1966
 Loess deposits: Goldthwait, 1968; Rutledge, 1969; White, G. W., 1968e
- Logan County**
 Devonian sand: Summerson, 1970a
 Field guide: Crowl, 1969
 Glacial map, East Liberty quadrangle: Forsyth, 1967
 West Mansfield quadrangle: Forsyth, 1968a
 Glacial mapping: Forsyth, 1968b
 Ohio Shale *Foerstia* zone: Schopf, J. M., 1970
- Paleozoic rocks, cross section: Shearrow, 1966
 Radiocarbon dates: Ogden, 1966
 Scioto and Olentangy Rivers geochemistry: Eastin, 1967a
 Soil map: Ohio Div. Lands and Soil, 1967b
 Soil mapping: Struble, 1966
- Lorain County**
 Berea Sandstone: Lené, 1966, 1969a, b
 Quarry: DeBrosse, 1967
 Devonian rocks: Janssens, 1970a
 Field guide: DeBrosse, 1967; Frank, 1970a
 Radiocarbon measurements: Ogden, 1967a, 1969
 Soil map: Ohio Div. Lands and Soil, 1969b
 South Birmingham Pool area: Janssens, 1968
- Lucas County**
 Carbohydrate residues in fossil specimens: Swain, 1967
 Carbonate microfacies: Carozzi, 1967
 Crystal molds in dolomite: Summerson, 1966
 Devonian, Bois Blanc Formation correlations: Boucot, 1968
 Holland Quarry Shale: Fagerstrom, 1967
 Sand: Summerson, 1970a
 Silica Formation: Mitchell, S. W., 1967
 Silica Formation, cement raw material: Bates, R. L., 1966
 Subsurface: Janssens, 1970b
 Sylvania Sandstone: Hatfield, 1968a
 Ten Mile Creek Dolomite: Hatfield, 1966
 Drift thickness: Bush, 1966
 Field guide: Frank, 1970a; Kahle, 1968b
 Ground-water resources, carbonate aquifers: Ohio Div. Water, 1970
 Paleobotany, algal stromatolite complex: Kahle, 1968a; Textoris, 1966a, b
 Charophytes: Kesling, 1966a
 Palynomorph assemblage in Silica Shale: Norton, 1970
 Tasmanites: Boneham, 1967
 Paleontology, Asteroidea: Kesling, 1969b
 Bioherms: Stumm, 1969a
 Brachiopods: Douglas, 1969b; Hoare, 1967, 1969; Peters, 1966
 Bryozoa: Douglas, 1969b
 Chitinozoa: Boneham, 1969
 Conodonts: Douglas, 1970c
 Corals: Douglas, 1969a; Stumm, 1967a, b, 1968b, c
 Crinoids: Kesling, 1966b, 1968a, b, 1969a, c
 Crustacea: Rolfe, 1966; Stumm, 1969b
 Foraminifera: Douglas, 1970e
 Mollusks: Douglas, 1970a
 Ostracods: Douglas, 1970e; Pauken, 1966; Peterson, 1966
 Porifera: Douglas, 1970e
 Silica Formation, check list from: Stumm, 1967d
 Trilobites: Douglas, 1970d; Stumm, 1967c; 1968a
 Petrology, stromatolite mound: Textoris, 1966a, b
 Sand and gravel in Maumee River: Herdendorf, 1970a, c
 Silurian, Bass Islands Formation: Sparling, 1970
 Water resources, Portage River basin: Ohio Div. Water, 1966b
 Sandusky River basin: Ohio Div. Water, 1966b
- Madeira quadrangle, bedrock geology: Osborne, 1970b**
- Madison County**
 Devonian rocks: Janssens, 1970a
 Devonian sand: Summerson, 1970a

- Field guide: Janssens, 1969b
 Ground-water resources, Deer Creek basin: Schmidt, 1961a
 Radiocarbon measurements: Ogden, 1967a
 Seismic reflection study, subsurface strata: Mayhew, 1969
 Till stratigraphy: Goldthwait, 1969
 Mad River valley aquifer tests: Walton, 1966
 Magnetic data: Zietz, 1966a, 1968, 1969
 Magnetotelluric investigation: Renick, 1969
Mahoning County
 Aeroradioactivity map: Bates, R. G., 1966c
 Clinton sandstone: Knight, 1969
 Coal, sulfur in: Walker, F. E., 1966
 Tar and oil from carbonization of: Walters, 1967
 Glacial deposits, altered drift near Youngstown: Totten, 1968, 1969c
 Titusville Till near Youngstown: Moran, 1967, 1968
 Paleobotany: Read, 1946
 Paleontology, corals: Colson, 1967
 Cephalopods from Brush Creek Limestone: Murphy, 1970a
 Nautiloid: Murphy, 1966b
 Pelecypod: Murphy, 1966a
 Paleozoic rocks, cross section: Shearrow, 1966
 Water, quality analysis: Bednar, 1968
 Surface-water temperatures: Blakey, 1966
Mahoning River
 Temperature: Blakey, 1966
 Water-quality analysis: Bednar, 1968
 Mahoning River basin, water resources: U. S. Geol. Survey, 1968c
 Mapping glacial deposits: Forsyth, 1968b
Marion County
 Devonian rocks: Janssens, 1970a
 Field guide: Janssens, 1970a
 Ground water, carbonate aquifers: Ohio Div. Water, 1970
 Scioto and Olentangy Rivers geochemistry: Eastin, 1967a
 Water resources, Portage River basin: Ohio Div. Water, 1966b
 Sandusky River basin: Ohio Div. Water, 1966b
 Maumee River sand and gravel resources: Herdendorf, 1970a, c
Medina County
 Field guide: DeBrosse, 1967
 Ground-water geology, Montville Township: Yacuzzo, 1969
 Ground-water resources, Cuyahoga River basin (lower part): Walker, A. C., 1962b
 Killbuck Creek basin (upper part): Prée, 1962g
 Paleozoic rocks, cross section: Shearrow, 1966
 Precambrian: Saylor, 1968
 Sharon Conglomerate: Mrakovich, 1969b
 Water resources, Muskingum River basin: Ohio Div. Water, 1968
Meigs County
 Coal, sulfur in: Walker, F. E., 1966
 Gaysport and Skelley limestones: Baker, H., 1967
 Ground-water resources, Raccoon Creek basin (lower part): Prée, 1962b
 Raccoon Creek Basin (upper part): Prée, 1962a
 Hockingport Sandstone: Martin, W. D., 1969
 Landslides: Fisher, S. P., 1968
 Silurian cross section: Horvath, 1970b
 Water resources, Hocking River basin: Ohio Div. Water, 1966a
Mercer County
 Ground-water resources, carbonate rock aquifers: Ohio Div. Water, 1970
 Wabash River basin: Walker, A. C., 1961a
 Postglacial environment of a small kettle: Urban, 1970
 Mercury determination: Kalb, 1970
 Mercury in Lake Erie: Seagran, 1970
 Mercury in sphalerite: Jolly, 1968
 Meteoric materials: Wasson, 1969
 Meteorite impact structures: Short, 1968
Miami County
 Brassfield Limestone: Carr, 1970; Rexroad, 1967
 Ground-water resources, Stillwater River basin: Walker, A. C., 1960
 Ordovician strata: Hariharan, 1970
 Paleontology, conodonts: Rexroad, 1967
 Paleozoic rocks, cross section: Shearrow, 1966
 Soil map: Ohio Div. Lands and Soil, 1967c
 Middletown quadrangle, northern part, Pleistocene geology: Wright, F. M., 1970
Mineral collecting
 Celestite: Green, 1970
 General: Scheele, 1967
Mineralogy
 Celestite, Clay Center: Dana, 1932; Roedder, 1969
 Montmorillonite and goethite tests: Brace, 1969b
 Ohio Shale: Bates, T. F., 1958
 Solution cavities in Devonian limestones: Nelson, 1967
 Whewellite: Hoefs, 1969; Hyde, 1966; Leavens, 1968
 Mineral resources: See also Economic geology; Names of industrial minerals
 Appalachian region: U. S. Geol. Survey, 1968b
 Production statistics: Ohio Dept. Development, 1968; Ohio Dept. Indus. Relations
 Minerals: Hayes, 1969; Strogonoff, 1966
 Minerva quadrangle, bedrock geology: DeLong, 1967b
 Mining activities: Snowden, 1967, 1968, 1969, 1970; Zimmerman, J. L., 1966
Mississippian (stratigraphic geology)
 Adams County: Calvert, 1968c
 Ages of Bedford Shale, Berea Sandstone, and Sunbury Shale: DeWitt, 1970
 Bedford and Berea Formations, paleocurrent analysis: Lewis, T. L., 1968
 Bedford Formation, Cleveland area: Kohout, 1969
 Berea Sandstone: Lené, 1966, 1969a, b
 Pore pressure: Aldrich, 1969; Lane, 1969
 Berne Conglomerate: Bork, 1970
 Borden Formation: Moore, B. R., 1970
 Cuyahoga Formation: Barclay, 1968
 Devonian boundary: Gutschick, 1967
 Erie County: Herdendorf, 1966
 Granville-Newark area: Graham, 1969
 Huron County: Herdendorf, 1966
 Keener and Big Injun sands, Wingett Run field: Whieldon, 1966a
 Logan Formation: Manger, 1969; Pinker, 1970
 Maxville Limestone: Horowitz, 1969
 Cement raw material: Bates, R. L., 1966
 Northeastern Ohio: Szmuc, 1970b
 Red beds source areas: Sable, 1970
 Scioto County: Calvert, 1968c
 South Bloomingville quadrangle: DeLong, 1967a
 Sunbury Shale: Shaver, 1970

- Vermilion West and Berlin Heights quadrangles: Herdendorf, 1966
- Mohican River basin (lower part), ground-water resources: Prée, 1962f
- Monroe County
- Ground-water resources, Wills Creek basin (upper part): Walker, A. C., 1962i
- Landslides: Fisher, S. P., 1968
- Oil and gas production from Ohio Shale: Fenstermaker, 1969
- Montgomery County
- Brassfield Limestone: Rexroad, 1967
- Field guide: Horvath, 1967a
- Great Miami River, time of travel of water: Bauer, 1968
- Ground-water hydrology, Great Miami River valley: Spieker, A. M., 1968a
- Ground-water resources, Dayton area: Norris, 1966a
- Great Miami River valley: Spieker, A. M., 1968c
- Twin Creek basin: Walker, A. C., 1961b
- Landslides: White, J. F., 1966
- Paleontology, brachiopods: Steele, 1969
- Conodonts: Rexroad, 1967
- Pleistocene geology: Durrell, 1968
- Farmersville and northern Middletown quadrangles: Wright, F. M., 1970
- Soil: Ohio Div. Lands and Soil, 1969a; Powell, 1970
- Morgan County
- Cambridge Limestone petrology: Kozusko, 1968
- Gaysport and Skelley Limestones: Baker, H., 1967
- Ground-water resources, Moxahala Creek basin: Walker, A. C., 1962f
- Muskingum River basin (lower portion): Walker, A. C., 1962j
- Muskingum River basin (part of middle portion): Walker, A. C., 1962g
- Paleogeography, Middle Allegheny: Flores, 1966
- Water resources, Hocking River basin: Ohio Div. Water, 1966a
- Muskingum River basin: Ohio Div. Water, 1968
- Morrow County
- Ground-water contamination by oil-field brine: Boster, 1967; Shaw, 1966
- Ground-water resources, Kokosing River basin: Prée, 1962j
- Oil accumulation in Upper Cambrian strata: Dolly, 1969
- Oil and gas, Denmark Pool: Hiestand, 1966
- Development: Fenstermaker, 1969; Stanton, 1966
- In pre-Silurian rocks: Becker, 1968
- Scioto and Olentangy Rivers geochemistry: Eastin, 1967a
- Subsurface geology: Richtmyer, 1965; Whiting, 1965
- Water resources, Muskingum River basin: Ohio Div. Water, 1968
- Municipal water supplies: Schneider, 1968
- Muskingum County
- Cement plant: Bergstrom, J. H., 1965a
- Coal, sulfur in: Walker, F. E., 1966
- Field guide: Frank, 1970a; Graham, 1969; C. L. Herrick Geology Soc., 1969; Ohio Div. Geol. Survey, 1966
- Flint Ridge: Crawford, 1967
- Ground-water resources, Licking River basin: Schmidt, 1962g
- Moxahala Creek basin: Walker, A. C., 1962f
- Muskingum River basin (part of middle portion): Walker, A. C., 1962g
- Muskingum River basin (part of upper portion): Schmidt, 1962f
- Wills Creek basin (lower part): Walker, A. C., 1962h
- Wills Creek basin (upper part): Walker, A. C., 1962i
- Limestone mine: Bergstrom, J. H., 1965b
- Mississippian strata: Graham, 1969
- Maxville Formation, cement raw material: Bates, R. L., 1966
- Paleogeography, Middle Allegheny: Flores, 1966
- Paleontology, crinoids: Burke, J. J., 1970
- Water resources, Muskingum River basin: Ohio Div. Water, 1968
- Noble County
- Bedrock geology, Caldwell North quadrangle: Smith, B. E., 1969
- Ground-water resources, Muskingum River basin (lower portion): Walker, A. C., 1962j
- Muskingum River basin (part of middle portion): Walker, A. C., 1962g
- Wills Creek basin (upper part): Walker, A. C., 1962i
- Noble Limestone member, Conemaugh Formation: Murphy, 1967a
- Oil and gas production from Ohio Shale: Fenstermaker, 1969
- Paleontology, cephalopods from Brush Creek Limestone: Murphy, 1970a
- Permian System: Berryhill, 1967b
- Water resources, Muskingum River basin: Ohio Div. Water, 1968
- North American geology, bibliography: U. S. Geol. Survey, 1964a, 1966a, b, 1968a, 1969a, 1970a, b
- North-central Ohio, recessional moraines: Totten, 1969a, b
- Northeastern Ohio: See also the counties in northeastern Ohio
- Clinton sandstone, economic geology: Knight, 1968, 1969
- Devonian System: Szmuc, 1970a
- General geology: Banks, 1970a, b
- Glacial deposits: White, G. W., 1968a, 1969a
- Pre-late Wisconsin drifts: White, G. W., 1968d
- Till in oriented thin sections: Sitler, 1968
- Till, weathering in: Sitler, 1969
- Wisconsin tills, thickness of: White, G. W., 1969b
- Glacial geology: Miller, B. B., 1970a
- History of geology: Hall, J. F., 1970
- Hydrogeology, Berea and Cussewago Sandstones: Rau, 1969
- Loess deposits: White, G. W., 1968e
- Mississippian System: Szmuc, 1970b
- Oil and gas, Clinton sand: Gurley, 1963
- Paleocurrent analysis, Chagrin, Cleveland, Bedford and Berea Formations: Lewis, T. L., 1968
- Pennsylvanian System: Rau, 1970a
- Salina salt deposits: Fergusson, 1968
- Salina stratigraphy: Rickard, 1969b
- Sharon Conglomerate: Heimlich, 1970; Mrakovich, 1969a
- Soil, Canfield silt loam: Miller, F. P., 1965
- Water resources, Mahoning River basin: U. S. Geol. Survey, 1968c
- Northern Ohio: See also the counties in northern Ohio
- Cuyahoga Formation: Barclay, 1968

- Surface-water records: Anderson, B. A., 1968b
 Northwestern Ohio: See also the counties in northwestern Ohio
 Black Swamp: Offutt, 1967
 Carbonate rocks, correlation of: Norris, 1969a; U. S. Geol. Survey, 1969c
 Devonian rocks: Sanford, 1968
 In subsurface: Janssens, 1969a, 1970b
 Early Paleozoic history: Fisher, J. H., 1969
 Gas: Vary, 1968
 Field guide: Kahle, 1968b
 Ground water, Silurian-Devonian aquifer: Rowland, 1969, 1970
 Minerals: Strogonoff, 1966
 Paleontology, corals: Stumm, 1967b
 Gastropods: Linsley, 1968
 Trilobites, Devonian: Stumm, 1967c
 Soil: McCormack, 1969
 Water-development plan: Burgess and Niple, 1967
- Ohio Division of Geological Survey, subsurface data in files: Safford, 1969
 Ohio gemstone, flint: Earth Science, 1966
 Ohio geology, bibliography: Smyth, 1969
 Ohio River basin floods: Beaber, 1965
 Ohio State University
 History of Department of Geology: Spieker, E. M., 1969
 Teaching earth science: Hassard, 1969; Mayer, 1970
 Ohio Turnpike, geology of western half: Ruch-Hirzel, 1970
- Oil and gas
 Accumulation of oil in Upper Cambrian strata: Dolly, 1969
 Appalachian area oil-producing formations, lithology of: Rough, 1970
 Berea sand: Whieldon, 1965
 Big Injun sand: Whieldon, 1966a
 Cincinnati Arch province: Patton, 1969
 Clinton sand, Carbon Hill West Pool: Whieldon, 1966b
 Gas wells, northeastern Ohio: Gurley, 1963
 Northeastern Ohio: Knight, 1968, 1969
 Reservoir study, Hocking County: Schrider, 1968
 S. S. Fry South oilfield: Locke, 1967
 Water flooding in Logan field: Johnson, H. R., 1963
 Deep drilling: Ebright, 1970; Oil and Gas Journal, 1969; Owens, 1967
 Exploration and delta systems: Fisher, W. L., 1969
 Exploration in Trempealeau: Bashe, 1967; Webb, E. J., 1969b
 Fields and pools: See also the various counties under Oil and gas
 Birmingham-Erie field: Kinzelman, 1968
 Carbon Hill West Pool: Whieldon, 1966b
 Chatham Pool: DeBrosse, 1967
 Denmark Pool: Hiestand, 1966
 Lima-Trenton field: Halbouty, 1968
 Logan field: Johnson, H. R., 1963
 Lower Newport field: Whieldon, 1965
 S. S. Fry South oilfield: Locke, 1967
 Wingett Run field: Whieldon, 1966a
 Gas, analyses: Moore, B. J., 1967
 Appalachian basin: Roth, E. E., 1968
 Cincinnati Arch province: Lockett, 1968
 Michigan basin: Vary, 1968
- General: Landes, 1970
 History: Cissell, 1965; Hubbert, 1966; Norling, 1970
 Huron County: McCaslin, 1966
 Keener sand: Whieldon, 1966a
 Knox dolomite: Dawson, T. A., 1967
 Lake Erie: Heise, 1967; Helwig, 1970; Robertson, 1967
 Law: Cissell, 1965
 Mitchell sand: Whieldon, 1965
 Morrow County: Becker, 1968; Stanton, 1966
 Origin: Hartenstein, 1967
 Pipelines map: Ohio Div. Geol. Survey, 1968
 Production: Connor, 1969, 1970; Fenstermaker, 1969; Norling, 1966, 1967, 1968; Ohio Dept. Development, 1968
 Silurian, producing zones: Channas, 1970
 Silurian, southeast Ohio: Pryce, 1970
 Trempealeau reservoirs: Slider, 1964
- Olentangy River, geochemistry: Eastin, 1967a, b, 1970
 Ordovician (stratigraphic geology): See also Paleontology
 Adams County: Calvert, 1968c
 Eden Shale: Anstey, 1969b
 Eden shales, limestone nodules: Ward, R. A., 1966
 Fairmount Formation: Reeves, 1966
 Fairview sedimentary structures: Ali, 1967
 Field guide: Caster, 1970; Sigma Gamma Epsilon, 1968; Wittenberg Univ. Geol. Club, 1966
 Geology of Birmingham-Erie field area, Erie County: Kinzelman, 1968
 Hamilton County, eastern part: Osborne, 1966, 1968a, b
 Southwestern: Ford, 1967, 1968a, b
 Kope formation: Burger, 1970b
 Sedimentary structures: Ali, 1967
 Lexington Limestone and Kope Formation conodonts: Sweet, 1970a
 Lithostratigraphy of subsurface strata: Hariharan, 1970
 Madeira quadrangle: Osborne, 1970b
 Maysville area: Peck, J. H., 1966
 McMillan Formation: Wetzel, 1968
 Northwestern Ohio: Fisher, J. H., 1969
 Paleocurrents: Hofmann, 1966b
 Petrology: Baptista, 1969; Osborne, 1966, 1967, 1968b, 1969a, b, 1970a
 Saluda Formation: Hatfield, 1968b; VanHart, 1966
 Scioto County: Calvert, 1968c
 Southern Ohio: Durrell, 1967
 Structures: Hofmann, 1966a
 Subsurface, Morrow County: Richtmyer, 1965; Whiting, 1965
 Time-stratigraphic classification: Sweet, 1970b
 Trenton Limestone, unconformity at top of: Rooney, 1966
- Ottawa County
 Celestite, Clay Center: Dana, 1932; Green, 1970; Roedder, 1969
 Columbus Limestone and Detroit River group core study: Bailey, T. C., 1968
 Devonian rocks: Janssens, 1970a
 Devonian sand: Summerson, 1970a
 Drainage patterns: Sparling, 1967
 Ground-water resources, carbonate rock aquifers: Ohio Div. Water, 1970
 Lake Erie, sedimentation studies: Herdendorf, 1968
 Paleontology, mollusks: Douglas, 1970a
 Radiocarbon measurements: Ogden, 1969
 Silurian, Bass Islands Formation: Sparling, 1970
 Water resources, Portage River basin: Ohio Div.

- Water, 1966b
 Sandusky River basin: Ohio Div. Water, 1966b
 Oxford quadrangle, general geology: Spoley, 1967
- Paleobotany**
 Devonian, Charophyta: Conkin, J. E., 1970; Kesling, 1966a; Peck, R. E., 1966
 Chitinozoa: Boneham, 1969
 Foerstia zone in Ohio Shale: Schopf, J. M., 1969, 1970
 General: Dawson, J. W., 1862
 Problematica, fucoids: Lesquereux, 1890
 Silica Shale palynomorph assemblage: Norton, 1970
 Tasmanites: Boneham, 1965, 1967
 Dunkard: Clendening, 1970
 Mississippian, Charophyta: Peck, R. E., 1966
 Pennsylvanian: Lesquereux, 1884; Read, 1946, 1964; White, D., 1943
 Fossils from coal beds: Hoare, 1968b
 Leaf: Glen, 1967
 Lycopod cone: Chaloner, 1958
 Palynology, coals: Gray, 1966, 1967
 Upper Freeport coal: Abbott, M. L., 1968
 Permian: Clendening, 1969
 Pleistocene palynology: Garrison, 1967; Kapp, 1966; Lewis, C. F. M., 1966; Ogden, 1966, 1967b
 Pleistocene peat: Morey, P. R., 1968
 Silurian algal stromatolite complex: Kahle, 1968a; Textoris, 1966a, b
 Silurian microplanktons: Cramer, 1968
Paleoecology: See also Paleontology
 Ordovician, Saluda Formation: Hatfield, 1968b
 Pennsylvanian, Brush Creek Limestone: Boreske, 1968; Ottum, 1969
 Pleistocene, at Fairlawn mastodon site: Teeter, 1970a, b
 Silurian: Ziegler, 1970
- Paleogeography**
 Devonian Silica Formation: Mitchell, S. W., 1967
 Pennsylvanian, Middle Allegheny: Flores, 1966
- Paleontology, invertebrate:** See also Paleobotany; Paleocology; Paleontology, vertebrate
- Arachnida, Pennsylvanian: Murphy, 1970b
 Bioherms, Devonian: Stumm, 1969a
 Brachiopods, Carboniferous, bibliography: Carter, J. L., 1970
 Devonian: Douglas, 1969b; Fagerstrom, 1966, 1969; Hoare, 1967, 1969; Peters, 1966
 Ordovician: Burkett, 1969; Distler, 1967; Howe, 1970; Pope, 1966; Steele, 1969; Stephens, 1966
 Pennsylvanian: Hoare, 1966; Sturgeon, 1968
 Silurian: Boucot, 1966; Gauri, 1970
- Bryozoa, Ordovician: Anstey, 1969a, 1970; Boardman, 1966; Pohowsky, 1969; Reeves, 1966; Utgaard, 1968
- Cephalopods, Pennsylvanian: Frontz, 1966; Murphy, 1970a; Windle, 1970
- Conodonts, Devonian: Ramsey, 1969a, b; Douglas, 1970c
 Ordovician: Bergström, S. M., 1966, 1969; Douglas, 1970c; Kohut, 1967, 1968, 1969a, b; Singh, 1966; Sweet, 1970a, c; Webers, 1966
 Pennsylvanian: Merrill, 1968a, b, c, 1969
 Silurian: Rexroad, 1967, 1970a, b
- Corals, Devonian: Douglas, 1969a; Oliver, 1968a; Stumm, 1967a, b, 1968b, c; U. S. Geol. Survey, 1969b
- Pennsylvanian: Bebout, 1966; Colson, 1967
 Silurian: Kissling, 1970
 Crustacean: Rolfe, 1966; Stumm, 1969b
- Devonian (general): See also the various classes of animals
- Fossils of the Silica Formation: Stumm, 1967d
- Echinodermata, Asteroidea: Branstrator, 1969; Kesling, 1969b
 Crinoidea, Devonian: Kesling, 1966b, 1968a, b, 1969a, c
 Crinoidea, Pennsylvanian: Branson, 1967; Burke, J. J., 1966a, b, 1967, 1968, 1970; Strimple, 1969
 Crinoid columnals: Brohm, 1969
 Crinoid-root bioherms, Silurian: Kissling, 1969
 Cyclocystoidea: Tucker, 1968
 Edrioasteroids: Bell, 1966
 Primitive: Parsley, 1969
- Foraminifera: Douglas, 1970e
 Fusulinidae: Thompson, M. L., 1960
- Fossil collecting: Brace, 1969c; Murray, 1967; Ohio Div. Parks and Recreation, 1967
- Gastropods, Devonian: Linsley, 1968
 Ordovician: Thompson, E. H., 1969, 1970
- Graptolites: Douglas, 1970e
- Insects, Quaternary: Coope, 1968
- Mississippian: See the various classes of animals
- Mollusca (general): See also Cephalopoda, Gastropoda, Nautiloidea, Pelecypoda
- Bibliography: Yockelson, 1967
 Collecting: Douglas, 1970a
 Pleistocene: La Rocque, 1966, 1967, 1968, 1970; Nave, 1968, 1969
- Nautiloid, Pennsylvanian: Murphy, 1966b
- Ordovician: See also the various classes of animals
 Waynesville Formation: Freas, 1968
- Ostracods, Devonian: Douglas, 1970e; Pauken, 1966; Peterson, 1966
 Ordovician: Warshauer, 1969
 Pennsylvanian and Permian: Jones, 1969
 Pleistocene: Teeter, 1970a
- Pelecypoda, Ambonychiidae: Pojeta, 1966, 1968
 Ordovician: U. S. Geol. Survey, 1969d
 Pennsylvanian: Murphy, 1966a, 1967b; Updegraff, 1969
- Pennsylvanian (general): See also the various classes of animals
- Fossils from coal beds: Hoare, 1968b
- Porifera, general: Douglas, 1970e
 Ordovician: Rigby, 1966
 Pennsylvanian: Cavaroc, 1968; Hoare, 1968a
- Problematica, Ordovician: Ross, J. P., 1967
- Scolecodonts, Devonian: Tilton, T. L., 1969
- Trace fossils, Ordovician: Osgood, 1969, 1970
- Trilobites, Devonian: Douglas, 1970d; Stumm, 1967c, 1968a
 Lower Paleozoic: Hu, 1968
 Ordovician: Rife, 1967; Ross, R. J., 1967
- Worms, Mississippian: Conkin, J. E., 1968
- Paleontology, vertebrate**
 Amphibia, Temnospondyli: Olson, 1970
 Tuditanus: Carroll, 1968a, b
 Beaver: Garrison, 1967
 Bone beds: Conkin, J. E., 1969

- Devonian, Cleveland Shale: Hlavin, 1966
 Fish, arthrodiros: Miles, 1966
Homostius and Dunkleosteus: Heintz, 1968;
 Stensiö, 1968
 Mastodon: Dreimanis, 1968
 Paleozoic, general: Hlavin, 1970
 Pennsylvanian, fossils from coal beds: Hoare, 1968b
 Permian, general: Hlavin, 1968
Rangifer (woodland caribou): Guilday, 1966
 Paleozoic rocks, cross section: Shearrow, 1966
 Paulding County
 Devonian formation, subsurface: Janssens, 1970b
 Field guide: Frank, 1970a
 Ground water, carbonate aquifers: Ohio Div. Water,
 1970
 Paleontology, corals: Stumm, 1968c
 Pennsylvanian (stratigraphic geology): See also Paleo-
 botany; Paleontology
 Allegheny, deltaic deposits: Ferm, 1970; Whaley,
 1969
 General sedimentation: Baroffio, 1966; Ferm,
 1968; Zimmerman, R. K., 1966a
 Lower Freeport sandstone: Flores, 1967a, b
 Paralic rocks: Zimmerman, R. K., 1966b
 Putnam Hill Limestone, cement raw material:
 Bates, R. L., 1966
 Shale: Roberts, 1966
 Stratigraphic intervals, thickness of: Flores,
 1968
 Vanport Limestone, cement raw material: Bates,
 R. L., 1966
 Caldwell North quadrangle: Smith, B. E., 1969
 Carrollton quadrangle: DeLong, 1969
 Coal deposition conditions: Wanless, 1969
 Conemaugh, depositional environments: Morris,
 D. A., 1967, 1968
 Noble Limestone member: Murphy, 1967a
 Stratigraphic nomenclature changes: Cohee, 1970
 Dellroy quadrangle: DeLong, 1968
 Deltaic sedimentation: Donaldson, 1969b; Fisher,
 W. L., 1969; Wanless, 1970
 Field guide: Barlow, 1969; Donaldson, 1969a
 Gaysport and Skelley Limestones: Baker, H., 1967
 General: Branson, 1962
 Harlem Coal Underclay: Callahan, 1966
 Hockingport Sandstone: Martin, W. D., 1969
 Jointing in rocks: Nickelsen, 1967
 Lithofacies patterns: Berryhill, 1970
 Minerva quadrangle: DeLong, 1967b
 Monongahela Group: Hoover, 1969; Roen, 1969;
 Streib, 1969
 Northeastern Ohio: Rau, 1970a
 Paleostream analysis: Donaldson, 1969c
 Permian-Pennsylvanian, Dunkard Group: Berryhill,
 1967a; Camp, 1968; Clendenning, 1970; Roen,
 1969
 Leith Sandstone: Swinehart, 1969
 Pottsville conglomerates: Meckel, 1967
 Sandstone, channel: Coogan, 1970
 Scioto County: Calvert, 1968c
 Sharon Conglomerate: Heimlich, 1970; Meckel, 1967;
 Mrakovich, 1969a, b
 Hydrology: Wells, 1970
 South Bloomingville quadrangle: DeLong, 1967a
 Permian (stratigraphic geology): See also Paleobotany;
 Paleontology
 Lithofacies patterns: Berryhill, 1970
 Pennsylvanian-Permian Dunkard Group: Berryhill,
 1967a; Camp, 1968; Clendenning, 1969, 1970;
 Roen, 1969
 Hockingport Sandstone: Martin, W. D., 1969
 Leith Sandstone: Swinehart, 1969
 Sandstone petrography: Lambert, 1969
 Sedimentation: Berryhill, 1967b
 Waynesburg coal: Hoover, 1969
 Perry County
 Cambridge Limestone petrology: Kozusko, 1968
 Coal, sulfur in: Walker, F. E., 1966
 Minor elements in: Zubovic, 1966
 Tar and oil from carbonization of: Walters, 1967
 Field guide: Ohio Div. Geol. Survey, 1966
 Gaysport and Skelley Limestones: Baker, H., 1967
 Ground-water resources, Moxahala Creek basin:
 Walker, A. C., 1962f
 South Fork Licking River basin: Schmidt, 1962h
 Paleogeography, Middle Allegheny: Flores, 1966
 Water resources, Hocking River basin: Ohio Div.
 Water, 1966a
 Muskingum River basin: Ohio Div. Water, 1968
 Petrography: See Petrology
 Petroleum: See Oil and gas
 Petrology
 Algal stromatolite mound: Textoris, 1966a, b
 Brassfield Formation: O'Donnell, 1970
 Calcarenites, Cincinnati: Osborne, 1968a, 1969a, b
 1970a
 Carbohydrate residues: Swain, 1967
 Flint: Carskadden, 1969
 Limestone, Arnheim Formation: Baptista, 1969
 Cambridge: Kozusko, 1968
 Cincinnati: Osborne, 1966, 1967; Wetzel, 1968
 Eastern Hamilton County: Osborne, 1966
 Latonia Formation: Farber, 1968
 Sandstone, Berea: Lené, 1966, 1969a, b
 Carboniferous-Permian, Dunkard basin: Lambert,
 1969
 Lower Freeport: Flores, 1967a
 X-radiography method: Weiss, 1966
 Physiography, landslopes: White, J. F., 1966
 Pickaway County
 Ground-water resources, Deer Creek basin: Schmidt,
 1961a
 Salt Creek basin: Schmidt, 1961d
 Scioto River basin (middle part): Schmidt, 1961b
 Scioto River basin (part lower portion): Schmidt,
 1961e
 Walnut Creek basin: Schmidt, 1961c
 Seismic reflection study, subsurface structure: Mayhew,
 1969
 Pike County
 Cryptovolcanic structure: Thomas, B., 1966
 Ground water, analog model study: Norris, 1966b
 Effects of sampling and testing methods: Norris,
 1966c
 Resources, Little Scioto River and Pine Creek basins
 and Ohio River tributaries: Prée, 1962d
 Resources, Scioto River basin (lower part): Schmidt,
 1962a
 Resources, Scioto River valley: Norris, 1969b
 Streambed leakage in glacial outwash: Norris, 1970
 Ordovician strata: Hariharan, 1970
 Silurian cross section: Horvath, 1970b

- Pleistocene and Recent deposits: See also Glacial deposits; Glacial geology
- Butler County, portion of: Goldstein, 1968
- Castalia Prairie, Erie and Sandusky Counties: Sears, 1967
- Cincinnati area: Durrell, 1968
- Climate: Wayne, 1967
- Cuyahoga County, at Garfield Heights: Miller, B. B., 1970b; White, G. W., 1968c
- Dates by radiocarbon measurements: Ogden, 1966, 1967a, b, c, 1969
- Eaton area: Thomas, J. B., 1970
- Farmersville quadrangle: Wright, F. M., 1970
- General: Scheele, 1966
- Hamilton quadrangle: Brace, 1968
- Highland County: Rosengreen, 1970
- Lake Erie basin: Dreimanis, 1966, 1969; Lewis, C. F. M., 1966, 1969; Stevenson, 1969
- Loess, central Ohio: Khangarot, 1969a
- Hocking River valley: Hall, G. F., 1969
- Northeastern Ohio: White, G. W., 1968e
- Preble and Butler Counties: Coppinger, 1968
- Mastodon extinction: Dreimanis, 1968
- Mercer County, small kettle: Urban, 1970
- Middletown quadrangle, northern part: Wright, F. M., 1970
- Mollusca: La Rocque, 1966, 1967, 1968, 1970; Nave, 1968, 1969
- Montmorillonite and goethite tests: Brace, 1969b
- Northeastern Ohio: Miller, B. B., 1970a; White, G. W., 1968a, 1969a
- Postglacial beaver site age: Garrison, 1967
- Preble County: Thomas, J. B., 1966
- Southwest Ohio: Teller, 1970a
- Summit County, Cuyahoga River valley: Wittine, 1970
- Portage County
- Aeroradioactivity map: Bates, R. G., 1966c
- Clinton sandstone: Knight, 1969
- Field guide: Frank, 1970a
- General geology: Winslow, 1966
- Glacial deposits: Favède, 1969
- Ground-water resources, Chagrin River basin: Walker, A. C., 1962c
- Cuyahoga River basin (lower part): Walker, A. C., 1962b
- Cuyahoga River basin (upper part): Walker, A. C., 1962a
- Ohio Shale *Foerstia* zone: Schopf, J. M., 1970
- Unionids (*Mollusca*) in Hinkley Creek: Wittine, 1969
- Preble County
- Brassfield Limestone: Carr, 1970; Rexroad, 1967
- Buried valleys classification: Saines, 1968
- Field guide: Frank, 1970a; Horvath, 1967a
- General geology, College Corner area: Saines, 1966
- Oxford quadrangle: Spoley, 1967
- Ground-water resources, Fourmile Creek basin: Walker, A. C., 1961c
- Twin Creek basin: Walker, A. C., 1961b
- Paleontology, conodonts: Rexroad, 1967
- Fossil collecting: Brace, 1969c; Ohio Div. Parks and Recreation, 1967
- Pleistocene deposits, at Eaton: Thomas, J. B., 1970
- Loess distribution and petrology: Coppinger, 1968
- Test for montmorillonite and goethite: Brace, 1969b
- Pleistocene geology: Durrell, 1968; Thomas, J. B., 1966
- Soil: Lerch, 1969
- Till identification methods: Brace, 1969a
- Precambrian
- Birmingham-Erie field, Erie County: Kinzelman, 1968
- Map of Precambrian surface: Owens, 1967; Am. Assoc. Petroleum Geologists, 1967
- Northeastern Ohio: Saylor, 1968
- Putnam County
- Devonian formations, subsurface: Janssens, 1970b
- Field guide: Frank, 1970a
- Ground water, carbonate aquifers: Ohio Div. Water, 1970
- Soil: Brock, 1970a, b
- Radioactivity
- Lake Erie: Risley, 1966
- Uranium reconnaissance: U. S. Atomic Energy Comm., 1968
- Radiocarbon dating
- Biogenetic opal: Wilding, 1967
- Pollen stratigraphy: Ogden, 1966, 1967b
- Sedimentation rates: Ogden, 1967c
- Radiocarbon measurements: Ogden, 1967a, 1969
- Richland County
- Gas analysis: Moore, B. J., 1967
- Ground-water resources, Black Fork basin and Clear Fork basin: Prée, 1962e
- Kokosing River basin: Prée, 1962j
- Paleontology, conodonts: Sweet, 1970c
- Rangifer* antler: Guilday, 1966
- Water resources, Muskingum River basin: Ohio Div. Water, 1968
- Rock mechanics, salt mining: Smith, J. D., 1966
- Rock and mineral collecting: Batory, 1969; Ohio Div. Geol. Survey, 1967; Rocks and Minerals, 1968
- Ross County
- Concretions: Cole, F., 1968
- Devonian sand: Summerson, 1970a
- Ground-water resources, Scioto River basin (lower part): Schmidt, 1962a
- Scioto River basin (part lower portion): Schmidt, 1961e
- Ohio Shale *Foerstia* zone: Schopf, J. M., 1970
- Radiocarbon measurements: Ogden, 1967a, 1969
- Soil: Petro, 1967
- Salt
- Cavity used for storage of hydrocarbons: Jacoby, 1970b
- Correlation, faulting and metamorphism: Jacoby, 1969
- Deposition: Dellwig, 1969
- Impurities: Andelfinger, 1966
- Mines, design: Smith, J. D., 1966
- Faults: Jacoby, 1970a
- Field guide: DeBrosse, 1967
- Mining: Bleimeister, 1961
- Origin: Rickard, 1970
- Production: Ohio Dept. Indus. Relations
- Resources: Lefond, 1969
- Rock mechanics: Emery, 1966
- Salina: Fergusson, 1968; Rickard, 1969a
- Sand and gravel
- Maumee River estuary: Herdendorf, 1970a, c
- Production: Ohio Dept. Development, 1968; Ohio Dept. Indus. Relations

- Sandstone cutouts in coal: Tilton, J. G., 1967
 Sandstone, dimension stone: Barton, 1968
 Sandstone production: Ohio Dept. Development, 1968;
 Ohio Dept. Indus. Relations
 Sandstone quarry (Berea), field guide: DeBrosse, 1967
 Sandusky area, floods: Cross, 1967b
 Sandusky County
 Black Swamp: Offutt, 1967
 Castalia Prairie: Sears, 1967
 Celestite: Green, 1970
 Devonian rocks: Janssens, 1970a
 Field guide: Frank, 1970a; Kahle, 1968b
 General geology: Erie Regional Planning Comm.,
 1967
 Ground water, carbonate aquifers: Ohio Div. Water,
 1970
 Silurian, Bass Islands Formation: Sparling, 1970
 Water resources: Portage River and Sandusky River
 basins: Ohio Div. Water, 1966b
- Scioto County
 Field guide: Calvert, 1968a, b; Ohio Geol. Soc., 1968
 General geology, Vanceburg quadrangle: Morris,
 R. H., 1967
 Ground-water resources, Little Scioto River and
 Pine Creek basins and Ohio River tributar-
 ies: Prée, 1962d
 Scioto Brush Creek basin: Schmidt, 1962c
 Scioto River basin (lower part): Schmidt, 1962a
 Paleontology, Scalarituba (worm): Conkin, J. E.,
 1968
 Stratigraphy: Calvert, 1968c
 Scioto River, geochemistry: Eastin, 1967a, b, 1970
 Sedimentation
 Lake Erie: Herdendorf, 1968
 Lower Freeport sandstone: Flores, 1967a, b
 Paleocurrents indicated by ostracode orientation:
 Jones, 1969
 Point bars: Pryor, 1967; Wiethe, 1970
 Siliceous spiculites as shoreline indicators: Cavaroc,
 1968
 Sole marks in siltstone: Pryor, 1968
- Seismic reflection survey
 Bedrock topography in western Lake Erie: Hobson,
 1969
 Subsurface structure in western and central Ohio:
 Mayhew, 1969
- Seismic refraction survey for ground water: Hassemmer,
 1966
- Seismic survey of Cincinnati arch structure: Herrmann,
 1969
- Seneca County
 Devonian rocks: Janssens, 1970a
 Ground water, carbonate aquifers: Ohio Div. Water,
 1970
 Soil: Ohio Div. Lands and Soil, 1968c
- Serpent Mound structure: See Cryptovolcanic structure
 Shatter cones in cryptoexplosion structures: Dietz, 1968
- Shelby County
 Earthquake: Willis, 1970
 Ground-water resources, Stillwater River basin:
 Walker, A. C., 1960
 Ordovician strata: Hariharan, 1970
 Paleozoic rocks, cross section: Shearrow, 1966
- Silurian (stratigraphic geology)
 Adams County: Calvert, 1968c
 Bass Islands Formation: Sparling, 1970
- "Big Lime": Owens, 1970
 Brassfield Limestone: Burger, 1970a; Carr, 1970;
 O'Donnell, 1967, 1968; Rexroad, 1967
 Cement raw material: Bates, R. L., 1966
 Carbonate rock correlation: Norris, 1969a; U. S. Geol.
 Survey, 1969c
 Clinton sandstone: Knight, 1968, 1969
 Field guide, Columbus and vicinity: Janssens, 1969b;
 Wittenberg Univ. Geology Club, 1966
 General: Berry, 1970; Horvath, 1970b
 Lower Silurian strata correlation: Horvath, 1967b
 Middle Silurian strata correlation: Horvath, 1969
 Monroe Formation: Grabau, 1910
 Oil- and gas-producing zones: Channas, 1970
 Salina Group: Fergusson, 1968; Rickard, 1969a, b
 Scioto County: Calvert, 1968c
 South Birmingham Pool area, Erie and Lorain Counties:
 Janssens, 1968
 Southern Ohio: Horvath, 1970a
- Soil
 Canfield silt loam: Miller, F. P., 1965
 Columbiana County: Lessig, 1968
 Development: Gersper, 1970
 Erie County: Redmond, 1967
 Fairfield County: U. S. Dept. Agriculture, 1969
 Fayette County: Moos, 1970
 Genesis: Smeck, 1968
 Greene County: Moos, 1970
 Ground-water percolation: Stibbe, 1965
 Hamilton County: Ohio Div. Lands and Soil, 1966b
 Henry County: Flesher, 1969; Ohio Div. Lands and Soil,
 1968d
 Information in geology course: Smith, J. M., 1967
 Investigation techniques: Struble, 1967
 Knox County: Ohio Div. Lands and Soil, 1966c
 Licking County: Khangarot, 1969a
 Loess deposits: Rutledge, 1969
 Logan County: Ohio Div. Lands and Soil, 1967b
 Lorain County: Ohio Div. Lands and Soil, 1969b
 Mapping: Struble, 1966
- Maps
 Erie County: Ohio Div. Lands and Soil, 1967a
 Hamilton County: Ohio Div. Lands and Soil, 1966b
 Henry County: Flesher, 1969; Ohio Div. Lands and
 Soil, 1968d
 Knox County: Ohio Div. Lands and Soil, 1966c
 Logan County: Ohio Div. Lands and Soil, 1967b
 Lorain County: Ohio Div. Lands and Soil, 1969b
 Miami County: Ohio Div. Lands and Soil, 1967c
 Montgomery County: Ohio Div. Lands and Soil, 1969a
 Preble County: Lerch, 1969
 Putnam County: Brock, 1970b
 Ross County: Petro, 1967
 Seneca County: Ohio Div. Lands and Soil, 1968c
 Stark County: Ohio Div. Lands and Soil, 1968a
 Summit County: Ohio Div. Lands and Soil, 1968b
 Union County: Ohio Div. Lands and Soil, 1966a
 Wood County: Rapparlie, 1966
- Moisture-tension data: Holtan, 1968
 Montgomery County: Ohio Div. Lands and Soil, 1969a;
 Powell, 1970
 Northeastern Ohio, Canfield silt loam: Miller, F. P.,
 1965
 Northwestern Ohio: McCormack, 1969
 Preble County: Lerch, 1969
 Putnam County: Brock, 1970a, b

- Ross County: Petro, 1967
 Sandusky area: Erie Regional Planning Commission, 1967
 Seneca County: Ohio Div. Lands and Soil, 1968c
 Sponge spicule distribution: Wilding, 1968
 Stark County: Christman, 1968; Ohio Div. Lands and Soil, 1968a
 Summit County: Ohio Div. Lands and Soil, 1968b; Ritchie, 1969
 Union County: Ohio Div. Lands and Soil, 1966a; Powell, 1966
 Vegetation-geology correlations: Forsyth, 1970
 Weathering: Khangarot, 1969a,b
 Wood County: Rappaport, 1966
 South Bloomingville quadrangle, bedrock geology: DeLong, 1967a
 Southeastern Ohio: See also the counties in southeastern Ohio
 Acid mine drainage: Biesecker, 1966; Dambach, 1966; News in Eng., 1969
 Coals and sandstone of the Monongahela Group and Waynesburg Formation: Hoover, 1969
 Dunkard Group, base and age: Berryhill, 1967a
 General: Berryhill, 1967b; Hlavin, 1968
 History of age designation: Clendening, 1970
 Lithofacies and paleocurrent direction study: Camp, 1968
 Petrography of sandstones: Lambert, 1969
 Flint from aboriginal quarrying sites: Carskadden, 1969
 Glacial geology: Ray, 1969
 Illinoian terraces, Hocking River valley: Hall, G. F., 1969
 Landslides: Fisher, S. P., 1968
 Oil and gas production: Pryce, 1970
 Oil-producing formations: Rough, 1970
 Paleobotany, Upper Freeport Coal: Abbott, M. L., 1968
 Pennsylvanian, Conemaugh depositional environments: Morris, D. A., 1967, 1968
 Water resources: Wyrick, 1968
 Southern Ohio: See also the counties in southern Ohio
 Borden Formation (Mississippian): Moore, B. R., 1970
 Floods: Rostvedt, 1968
 Geologic history: Durrell, 1967
 Geophysical survey: Willden, 1968; Zietz, 1968
 Gravity map: U. S. Air Force Aeronautical Chart and Inf. Center, 1968
 Loess deposits: Rutledge, 1969
 Mineral resources: U. S. Geol. Survey, 1968b
 Paleontology, corals: Kissling, 1970
 Pennsylvanian sedimentation: Whaley, 1969
 Silurian stratigraphy: Horvath, 1970a
 Surface-water records: Anderson, B. A., 1968a,b
 Water analysis: U. S. Geol. Survey, 1964b
 Southwestern Ohio: See also the counties in southwestern Ohio
 Aeroradioactivity: Guillou, 1966
 Brassfield Limestone: O'Donnell, 1967, 1968, 1970
 Clay sediments, Great Miami River basin: Huff, 1968
 Glacial geology and drainage changes: Teller, 1970b
 Loess: Goldthwait, 1968
 Oil and gas: Patton, 1969
 Ordovician, Fairmount Formation: Reeves, 1966
 Kope Formation: Burger, 1970b
 Saluda and Whitewater Formations: VanHart, 1966
 Time-stratigraphic classification: Sweet, 1970b
 Paleobotany, microplanktons: Cramer, 1968
 Paleontology, Bryozoa: Anstey, 1970; Boardman, 1966; Reeves, 1966
 Crinoid-root bioherms: Kissling, 1969
 Echinodermata: Parsley, 1969
 Gastropoda: Thompson, E. H., 1969, 1970
 Graptolites: Douglas, 1970e
 Mollusca, Pleistocene: Nave, 1968, 1969
 Mollusks: Douglas, 1970a
 Pelecypod: U. S. Geol. Survey, 1969d
 Trace fossils: Osgood, 1970
 Waynesville Formation: Freas, 1968
 Pleistocene deposits, test for montmorillonite and goethite: Brace, 1969b
 Pleistocene glaciation and drainage: Teller, 1970a
 Pleistocene stratigraphy, Farmersville and northern Middletown quadrangles: Wright, F. M., 1970
 Stark County
 Aeroradioactivity map: Bates, R. G., 1966c
 Bedrock geology, Minerva quadrangle: DeLong, 1967b
 Clinton sandstone: Knight, 1969
 Coal, minor elements in: Zubovic, 1966
 Field guide: Frank, 1970a
 Ground-water resources, Canton area: Kazmann, 1958
 Cuyahoga River basin (upper part): Walker, A. C., 1962a
 Sandy Creek basin: Prée, 1962i
 Tuscarawas River Basin (middle part) and Sugar Creek basin: Schmidt, 1962d
 Oil and gas, East Canton field: Fenstermaker, 1969
 Paleogeography, Middle Allegheny: Flores, 1966
 Paleontology, corals: Colson, 1967
 Pennsylvanian sandstone channel: Coogan, 1970
 Putnam Hill Limestone, cement raw material: Bates, R. L., 1966
 Radiocarbon measurements: Ogden, 1967a
 Soil: Christman, 1968
 Soil map: Ohio Div. Lands and Soil, 1968a
 Water resources, Muskingum River basin: Ohio Div. Water, 1968
 Stone, dimension: Barton, 1968
 Stream drainage areas: Cross, 1967a
 Streamflow data: Anttila, 1970
 Streamflow duration: Cross, 1968
 Streams, roughness characteristics of natural channels: Barnes, H. H., 1967
 Structure
 "Big Lime": Owens, 1970
 Cincinnati Arch: Herrmann, 1969; Janssens, 1967
 Deformation near Cincinnati: Hofmann, 1966a
 Paleozoic orogeny: Ham, W. E., 1967
 Serpent Mound cryptoexplosion structure: Galbraith, 1968, 1969
 Subsurface, western and central Ohio: Mayhew, 1969
 Sulfur in coal: Walker, F. E., 1966
 Summit County
 Akron area hydrology: Rau, 1970b
 Bath Township, bedrock and glacial geology: Metzler, 1967
 Columbus Limestone, cement raw material: Bates, R. L., 1966
 Devonian sand: Summerson, 1970a
 Field guide: Frank, 1970a
 Ground-water resources: Cuyahoga River basin (lower

- part): Walker, A. C., 1962b
 Cuyahoga River basin (upper part): Walker, A. C., 1962a
 Muskingum River basin: Ohio Div. Water, 1968
 Ohio Shale *Foerstia* zone: Schopf, J. M., 1970
 Paleobotany, Devonian flora: Dawson, J. W., 1862
 Pennsylvanian: Chaloner, 1958; Read, 1946
 Paleocology, Pleistocene microfossil assemblage: Teeter, 1970a, b
 Pleistocene lake in Cuyahoga River valley: Wittine, 1970
 Radiocarbon measurements: Ogden, 1967c, 1969
 Sharon Conglomerate: Mrakovich, 1969a, b
 Soil: Ritchie, 1969
 Soil map: Ohio Div. Lands and Soil, 1968b
 Uranium reconnaissance: U. S. Atomic Energy Comm., 1968
- Teays River and Lake deposits: Neff, 1970
 Theses, bibliography: Ward, D. C., 1969
 Toledo area, drift thickness and bedrock topography: Bush, 1966
- Trumbull County
 Aeroradioactivity map: Bates, R. G., 1966c
 Field guide: Frank, 1970a
 Mahoning River water-quality analysis: Bednar, 1968
- Tuscarawas County
 Aeroradioactivity map: Bates, R. G., 1966c
 Clinton sandstone: Knight, 1969
 Coal, minor elements in: Zubovic, 1966
 Sulfur in: Walker, F. E., 1966
 Ground-water resources, Conotton Creek basin: Schmidt, 1962e
 Sandy Creek basin: Prée, 1962i
 Stillwater Creek basin: Walker, A. C., 1962d
 Sugar Creek basin: Schmidt, 1962d
 Tuscarawas River basin (lower part): Walker, A. C., 1962e
 Tuscarawas River basin (middle part): Schmidt, 1962d
 Wills Creek basin (lower part): Walker, A. C., 1962h
 Paleogeography, Middle Allegheny: Flores, 1966
 Paleontology, cephalopods from Brush Creek Limestone: Murphy, 1970a
 Pelecypod: Murphy, 1966a
 Porifera: Hoare, 1968a
 Radiocarbon measurements: Ogden, 1967a
 Streams, roughness characteristics of natural channels: Barnes, H. H., 1967
 Water resources, Muskingum River basin: Ohio Div. Water, 1968
- Union County
 Devonian rocks: Janssens, 1970a
 Field guide: Janssens, 1969b
 Glacial geology, East Liberty quadrangle: Forsyth, 1967
 West Mansfield quadrangle: Forsyth, 1968a
 Paleontology, conodonts: Ramsey, 1969a
 Scioto and Olentangy Rivers, geochemistry: Eastin, 1967a
 Soil: Ohio Div. Lands and Soil, 1966a; Powell, 1966
 Uranium, bibliography: Cooper, 1958
 Uranium reconnaissance: U. S. Atomic Energy Comm., 1968
- VanWert County, ground water, carbonate aquifers: Ohio Div. Water, 1970
- Vermilion West quadrangle, geology: Herdendorf, 1966
- Vinton County
 Acid mine drainage: Ahmad, 1970; Smith, E. E., 1966
 Bedrock geology, South Bloomingville quadrangle: DeLong, 1967a
 Coal, sulfur in: Walker, F. E., 1966
 Ground-water resources, Little Salt Creek basin: Schmidt, 1962b
 Raccoon Creek basin (lower part): Prée, 1962b
 Raccoon Creek basin (upper part): Prée, 1962a
 Salt Creek basin, Schmidt, 1961d
 Landslides: Fisher, S. P., 1968; Lessig, 1966; Webb, D. K., 1967
 Paleogeography: Flores, 1966
 Paleontology, Porifera: Hoare, 1968a
 Radiocarbon measurements: Ogden, 1969
 Siliceous spiculites, Zaleski flint: Cavaroc, 1968
- Warren County
 Field guide: Caster, 1970
 General geology: H. C. Nutting Co., 1967
 Glacial geology: Caster, 1970
 Ground-water hydrology, Great Miami River valley: Spieker, A. M., 1968a
 Ground-water resources, Great Miami River valley: Spieker, A. M., 1968c
 Landslopes: White, J. F., 1966
 Ordovician strata: Hariharan, 1970
 Paleontology, brachiopods: Steele, 1969
 Conodonts: Kohut, 1967, 1968, 1969a
 Problematica: Ross, J. P., 1967
 Pleistocene geology: Durrell, 1968
 Radiocarbon measurements: Ogden, 1967a
 Stratigraphy, Ordovician: Peck, J. H., 1966
- Washington County
 Field guide: Frank, 1970a
 Ground-water resources, Muskingum River basin (lower portion): Walker, A. C., 1962j
 Hockingport Sandstone: Martin, W. D., 1969
 Landslides: Fisher, S. P., 1968
 Leith Sandstone: Swinehart, 1969
 Oil and gas, Lower Newport field: Whieldon, 1965
 Ohio Shale production: Fenstermaker, 1969
 Oil-producing formations: Rough, 1970
 Wingett Run field: Whieldon, 1966a
 Paleontology, amphibian from Washington Formation: Olson, 1970
 Soil mapping: Struble, 1966
 Water resources, Hocking River basin: Ohio Div. Water, 1966a
 Muskingum River basin: Ohio Div. Water, 1968
 Water: See also Floods; Ground water
 Analysis, Mahoning River: Bednar, 1968
 Scioto and Olentangy Rivers: Eastin, 1967a, b, 1970
 Surface waters: U. S. Geol. Survey, 1964b, 1968e, f, 1969e, 1970c
 Annual runoff: Busby, 1966
 Bibliography of hydrology: Randolph, 1966, 1969
 Development plan, northwestern Ohio: Burgess and Niple, 1967
 Hydrogeologic data, Coshocton County: Hobbs, 1968, 1970
 Hydrogeologic map, Great Miami River valley: Spieker, A. M., 1969

- Hydrogeology, Akron area: Rau, 1970b
 Scioto River valley near Piketon: Norris, 1969b
 Municipal water supplies: Schneider, 1968
 Pollution detection by aerial photography: Bay, 1968
 Quality variation, Cuyahoga River near Cleveland: Schroeder, 1966
 Relation between surface water and ground water: U. S. Geol. Survey, 1968d
 Reservoirs: Martin, R. O. R., 1966
 Resources: Ohio Div. Water, 1966a, b, 1968; U. S. Geol. Survey, 1968c
 Stream drainage area: Cross, 1967a
 Stream flow duration: Cross, 1968
 Stream pollution, by coal-mine drainage: Biesecker, 1966
 By urban runoff: Weibel, 1964
 Surface-water quality: U. S. Geol. Survey, 1964b, 1968e, f, 1969e, 1970c
 Surface-water records index: Anderson, B. A., 1968a, b; Curtis, 1969; U. S. Geol. Survey, Off. Water Data Coordination, 1970
 Temperature, Mahoning River: Blakey, 1966
 Time of travel of water, Great Miami River: Bauer, 1968
- Wayne County
 Bedrock geology: Multer, 1967
 Field guide: Frank, 1970a
 Flood, Wooster vicinity: Webber, 1970
 Glacial geology: White, G. W., 1967a
 Ground-water resources, Killbuck Creek basin (upper part): Prée, 1962g
 Tuscarawas River basin (middle part) and Sugar Creek basin: Schmidt, 1962d
 Radiocarbon measurements: Ogden, 1969
 Sharon Conglomerate: Mrakovich, 1969b
 Water resources, Muskingum River basin: Ohio Div. Water, 1968
 Well sample catalog: Safford, 1969; Schwalb, 1970
- West-central Ohio: See also the counties in west-central Ohio
 Aeroradioactivity survey: Bates, R. G., 1966b
 Radiocarbon dating, biogenetic opal: Wilding, 1967
 Till deposits, composition: Wilding, 1969
- Western Ohio: See also the counties in western Ohio
 Field guide, Silurian geology: Horvath, 1967a
 Glacial deposits, particle size and carbonate analysis: Steiger, 1969
 Paleontology, crinoid columnals: Brohm, 1969
 Soil, genesis: Smeck, 1968
- West Mansfield quadrangle, glacial geology: Forsyth, 1968a
- Williams County
 Devonian formations, subsurface: Janssens, 1970b
- Wood County
 Black Swamp: Offutt, 1967
 Devonian formations, subsurface: Janssens, 1970b
 Field guide: Frank, 1970a; Kahle, 1968b
 General geology, Bowling Green area: Forsyth, 1966b
 Ground-water pollution: Minning, 1970
 Ground water, carbonate aquifers: Ohio Div. Water, 1970
 Highway engineering: Mintzer, 1967
 Limestone analysis: Ingamells, 1967
 Paleontology, Brachiopoda: Boucot, 1966
 Rock and mineral collecting: Batory, 1969
 Sand and gravel, Maumee River: Herdendorf, 1970a
 Soil: Rapparlie, 1966
 Water resources, Portage River basin, Sandusky River basin: Ohio Div. Water, 1966b
- Wyandot County
 Devonian rocks: Janssens, 1970a
 Ground water, carbonate aquifers: Ohio Div. Water, 1970
 Paleozoic rocks, cross section: Shearrow, 1966
- X-radiography method used in petrology: Weiss, 1966