



BIBLIOGRAPHY

Bibliography and Index
of
Wisconsin Geology



- Abel, Henry I.** 1838. Geographical, geological and statistical chart of Wisconsin and Iowa: Philadelphia, 20 x 26 in.
- Ableiter, J. Kenneth.** *see also* Whitson, Andrew Roberson
- Ableiter, J. Kenneth; Hole, Francis D.** 1961. Soil survey of Bayfield County, Wisconsin: U.S.D.A., Soil Conservation Service, no. 30 (series 1939) 77 p., maps.
- Adams, Clifford.** 1942. Accelerated sedimentation in the Galena River Valley, Illinois and Wisconsin (abs.): Iowa Univ. Pub. (Aims and Prog. of Research Series) no. 71, 1 p.
- 1944. Mine waste as a source of Galena River bed sediments: Jour. Geol., v. 52, no. 4, p. 275-282, illus., map.
- Adams, John Allan Stewart.** 1954. Uranium contents of Wisconsin rivers and their use in geo-chemical prospecting (abs.): Econ. Geology, v. 49, no. 7, p. 803; G.S.A., Bull., v. 65, no. 12, pt. 2, p. 1225.
- 1955. Exploration for uranium: Panhandle Geonews, v. 3, no. 1, p. 4-13, illus.
- Agassiz, Louis.** 1849. The terraces and ancient river bars, drift, boulders, and polished surfaces of Lake Superior: Am. Assoc. Adv. Sci., Proc., v. 1, 1848, p. 68-70.
- 1850. Lake Superior; its physical character, vegetation, and animals compared with those of other scientific gentlemen: Boston, Gould, Kendall and Lincoln, 428 p., illus.; reprinted, N.Y., Robert E. Krieger, 1974.
- Agnew, Allen Francis (and others).** 1956. Stratigraphy of Middle Ordovician rocks in the zinc-lead district of Wisconsin, Illinois, and Iowa (Mississippi Valley): U.S.G.S., Prof. Paper 274-K, p. 251-312, illus.
- Agnew, Allen Francis.** *see also* Allingham, John Wing
- *see also* Heyl, Allen Van, Jr.
- 1950. Detailed stratigraphy of Galena-Decora-Platteville sequences in upper Mississippi Valley (abs.): G.S.A., Bull., v. 61, no. 12, pt. 2, p. 1439.
- 1955. Application of geology to the discovery of zinc-lead ore in the Wisconsin-Illinois-Iowa district: Mining Eng., v. 7, no. 8, p. 781-795, illus., map; Am. Inst. Mining Eng., Trans., 1955, v. 202, 1956.
- 1956. Facies of Platteville, Decorah, and Galena rocks of the Upper Mississippi Valley region in Guidebook for field trips: G.S.A., 69th Ann. Mtg., Minneapolis, Field Trip no. 2, p. 41-54, map.
- 1963. Geology of the Platteville quadrangle, Wisconsin: U.S.G.S., Bull. 1123-E, p. 245-277, illus., map.
- Agnew, Allen Francis; Flint, Arthur Emerson; Allingham, John Wing.** 1953. Exploratory drilling program of the U.S. Geol. Survey for evidences of zinc-lead mineralization in Iowa and Wisconsin, 1950-1951: U.S.G.S., Circ. 231, 37 p., illus., map.
- Agnew, Allen Francis; Flint, Arthur Emerson; Crumpton, Ruslan P.** 1954. Geology and zinc-lead-barite deposits in an area east of Cuba City, Wisconsin: U.S.G.S., Mineral Inv. Field Studies Map MF 15, scale 1:12,000, text.
- Agnew, Allen Francis; Heyl, Allen Van, Jr.** 1946. Quimbys Mill, new member of Platteville Formation, upper Mississippi Valley (U.S.): Am. Assoc. Pet. Geol., Bull., v. 30, no. 9, p. 1585-1587, illus.
- 1947. Recent developments in the Wisconsin-Illinois-Iowa lead-zinc district: Iowa Acad. Sci., Proc., 1946, v. 53, p. 225-231.
- Ahl, L.M.** *see* Cheetham, Robert N.
- Ahrnsbrak, W.F.** *see* Ragotzkie, Robert A.
- Akers, Ronald Hugh.** 1965. Unusual surficial deposits in the Driftless Area of Wisconsin (abs.): Dissert. Abs., v. 25, no. 11, p. 6530.
- Al-Rawi, Amin Hamad.** 1970. Quantitative mineralogical analysis of some soils in Iraq and of Antigo silt loam catena in Menominee County, Wisconsin (abs.): Dissert. Abs. Internat., Sec. B, v. 30, no. 12, pt. 1, p. 5323B.
- Al-Rawi, Amin Hamad; Hole, Francis D.** 1970. Genesis of layer silicates in a representative soil catena under virgin forest in a glacial landscape of north-eastern Wis. (abs.): Madison, Am. Soc. Agron., Agronomy Abstracts, p. 135.
- Alden, William Clinton.** *see also* Bean, Ernest F.
- 1904. The Delavan lobe of the Lake Michigan glacier of the Wisconsin stage of glaciation and associated phenomena: U.S.G.S., Prof. Paper 34, 106 p., illus., maps.
- 1905. The drumlins of southeastern Wisconsin: U.S.G.S., Bull. 273, 46 p., illus., map; U.S., 59th Cong., 1st Sess., House Doc. 206.
- 1906. Description of the Milwaukee quadrangle, Wisconsin: U.S.G.S., Geol. Atlas, Milwaukee folio (no. 140) 12 p., maps.
- 1909a. Concerning certain criteria for discrimination of the age of glacial drift sheets as modified by topographic situation and drainage relations: Jour. Geol., v. 17, p. 694-709; (abs.) Science, v. 29 (n s) p. 628; G.S.A., Bull., v. 20, p. 638-639, 1910.
- 1909b. The Pleistocene phenomena of southeastern Wisconsin (abs.): Science, v. 29 (n s) p. 557, 628; G.S.A., Bull., v. 20, p. 638, 1910.
- 1910. Certain geological phenomena indicative of climatic conditions in North America since the maximum of the latest glaciation. Die Veränderungen des Klimas: Internat. Geol. Congress, 11th, Stockholm, p. 353-363.
- 1911. Radiation of glacial flow as a factor in drumlin formation (abs.): G.S.A., Bull., v. 22, p. 733-734.
- 1912. Sketch of the geological history of Green Lake Co., Wisconsin: Berlin, Wis., Green Lake County Training School Quarterly, v. 3, no. 2, p. 2-14.
- 1918. The Quaternary geology of southeastern Wisconsin, with a chapter on the older rock formations: U.S.G.S., Prof. Paper 106, 356 p., illus., maps; (abs.) Wash. Acad. Sci., Jour., v. 15, p. 537.
- 1929. Thomas Chrowder Chamberlin's contributions to glacial geology: Jour. Geol., v. 37, no. 4, p. 293-319.
- 1932. Glacial geology of the central states(ed.): Internat. Geol. Cong., 16th Sess., U.S., Guidebook 26, Excursion C-3, 54 p., illus., maps.
- Aldrich, Henry Ray.** *see also* Bean, Ernest F.
- 1920. The dip needle in stratigraphy: Am. Inst. Mining and Met. Eng., Trans., Lake Superior Mtg., 7 p.
- 1923. Magnetic surveying on the copper-bearing rocks of Wisconsin: Econ. Geol., v. 18, no. 6, p. 562-574, illus.
- 1929. The geology of the Gogebic iron range of Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 71 (econ. ser. 24) 279 p., illus., maps.
- Aldrich, Henry Ray; Fassett, N.C.** 1929. Botanical and geological evidence for an ancient lake (in north-western Wisconsin): Science, v. 70 (n s) p. 45-46.
- Aldrich, Lyman T.** *see also* Smith, T. Jefferson
- Aldrich, Lyman T.; Davis, G.L.; James, Harold L.** 1965. Ages of minerals from metamorphic and igneous rocks near Iron Mountain, Michigan: Jour. Petrology, v. 6, no. 3, p. 445-472.
- Alexander, John B.** 1932. Report on Brule River, Wisconsin: U.S., 72d Congress, 1st Sess., House Doc. 227, v. 3, 39 p., illus., maps.
- Allan, R.J.; Hole, Francis D.** 1968. Clay accumulation in some Hapludalfs as related to calcareous till and incorporated loess on drumlins in Wisconsin: Soil Sci. Soc. Am., Proc., v. 32, no. 3, p. 403-408, illus., tables; (abs.) Abs. North Am. Geol., p. 1768, Dec.
- Allen, C.J.** 1880a. The improvement of the St. Croix River: U.S., 46th Cong., 2d Sess., House Ex. Doc. 40, 8 p.
- 1880b. Survey of Mississippi, St. Croix, Chipewewa, and Wisconsin Rivers: U.S., 46th Cong., 2d Sess., House Ex. Doc. 39, 108 p.
- Allen, James; Schoolcraft, Henry Rowe.** 1834. Journal of an "expedition into the Indian country", to the source of the Mississippi...in 1832: U.S., 23d Cong., 1st Sess., House Ex. Doc. 323, 68 p., map.
- Allen, Rolland Craten.** *see also* Leith, Charles Kenneth
- 1909. The occurrence and origin of the brown iron ores of Spring Valley, Wisconsin: Mich. Acad. Sci., Rpt., v. 11, p. 95-103, illus.
- Allen, Rolland Craten; Barrett, L.P.** 1915. Contributions to the pre-Cambrian geology of northern Michigan and Wisconsin: Mich. Geol. and Biol. Survey, Pub. 18 (geol. ser. 15) p. 13-164, maps.
- Allen, Rolland Craten; Leith, Charles Kenneth.** 1915. Discussion of correlation of pre-Cambrian formations of Lake Superior region: Jour. Geol., v. 23, p. 703-729.
- Allen, Victor T.** 1932. Ordovician altered volcanic material in Iowa, Wisconsin and Missouri: Jour. Geol., v. 40, no. 3, p. 259-269, illus.
- Allgeier, R.J.; Hafford, B.C.; Juday, Chancey.** 1941. Oxidation-reduction potentials and pH of lake waters and of lake sediments: Wis. Acad. Sci., Arts, and Letters, Trans., v. 33, p. 115-133, illus.
- Alling, Harold L.; Briggs, Louis I.** 1961. Stratigraphy of Upper Silurian Cayuga evaporites: Am. Assoc. Pet. Geol., Bull., v. 45, no. 4, p. 515-547, illus.
- Allingham, John Wing.** *see also* Agnew, Allen Francis
- *see also* Bates, Robert Glenn
- 1963. Geology of the Dodgeville and Mineral Point quadrangles, Wisconsin: U.S.G.S., Bull. 1123-D, p. 169-244, illus., maps.
- Allingham, John Wing; Bates, Robert Glenn.** 1960. Geophysical investigation in the Wausau area, Wisconsin (abs.) in Inst. Lake Superior Geology, 6th Ann., 1960: Madison, Univ. Wis., Dept. Geology; Wis. Geol. and Nat. History Survey, p. 9.
- 1961. Use of geophysical data to interpret geology in Precambrian rocks of central Wisconsin, Art. 394: U.S.G.S., Prof. Paper 424-D, p. D292-D296, illus.
- Allingham, John Wing; Flint, Arthur Emerson; Agnew, Allen Francis.** 1955. Zinc and lead deposits of the Sinsinawa River area, Grant Co., Wisconsin: U.S.G.S. Mineral Inv. Field Studies Map MF 40, scale 1:12,000, text.
- Allouez, Claude.** 1899. On the eastern part of the central plain in Jesuit Relations, 1669-71: Cleveland, Burrow Bros., R.G. Thwaites, ed., v. 54, p. 231.
- Amaral, Eugene J.** *see also* Pryor, Wayne Arthur.
- 1974. Oxidation of pyrite, a key factor in the formation of authigenic feldspar and chert cement in the St. Peter Sandstone (abs.): G.S.A., Abs. with Programs, v. 6, no. 7, p. 1018-1019.
- Amaral, Eugene J.; Pryor, Wayne Arthur.** 1971. Texture and grain surface character of St. Peter sandstone (abs.): Am. Assoc. Pet. Geol., Bull., v. 55, no. 2, p. 329-330.
- 1977. Depositional environment of the St. Peter Sandstone deduced by textural analysis: Jour. Sed. Petrology, v. 47, no. 1, p. 32-52, tables, map.
- American Assoc. Petroleum Geologists; U.S. Geological Survey.** 1967. Basement map of North America between latitudes 24 and 60 North: U.S.G.S., scale 1:5,000,000.
- American Geophysical Union; U.S. Geological Survey.** 1964. Bouguer gravity anomaly map of the U.S. (exclusive of Alaska and Hawaii): U.S.G.S., Special map, scale 1:2,500,000, 2 sheets.

- Amsden, Thomas William.** 1955. Lithofacies map of Lower Silurian deposits in central and eastern United States and Canada: Am. Assoc. Pet. Geol., Bull., v. 39, no. 1, p. 60-74, illus.
- Anderson, A.C. (and others).** 1931. Soil survey of Manitowoc Co., Wisconsin: U.S.D.A., Bur. Chemistry and Soils, no. 34 (series 1926) 28 p., tables, map.
- 1932. Soil survey of Winnebago County, Wisconsin: U.S.D.A., Bureau Chemistry and Soils, no. 31 (series 1927) 34 p., tables, map.
- 1933. Soil Survey of Brown Co., Wisconsin: U.S.D.A., Bureau Chemistry and Soils, no. 17 (series 1929) 27 p., illus., map.
- Anderson, F.L.; Gundlach, H.F.** 1977. Soil survey of Green Lake Co., Wisconsin: U.S.D.A., Soil Conservation Service, 132 p., illus., tables, map.
- Anderson, G.J.** 1951. Origin of Lake Superior iron ores; theory of Tyler in Field trip to the Lake Superior region, May 5 to May 12, 1951: Madison, Univ. Wis., Dept. Geology, 2 p.
- Anderson, J.L.; Bouma, Johannes.** 1973. Relationships between saturated hydraulic conductivity and morphometric data of an argillite horizon: Soil Sci. Soc. Am., Proc., v. 37, no. 3, p. 408-413, illus.
- Anderson, James L.** *see also* Medaris, L. Gordon, Jr.
- *see also* Van Schmus, W.R.
- 1973. Graphical analysis of portions of the granite system with application to biotite-bearing granitic melts and gneisses in Inst. Lake Superior Geology, 19th Ann., 1973, Tech. program and abs.: Wis. Geol. and Nat. History Survey, Univ. Wis., Dept. Geology, p. 1.
- 1976a. Local equilibria between biotite, oxides, and amphiboles in a late Precambrian rapakivi massif (abs.): G.S.A., Abs. with Programs, v. 8, no. 6, p. 753.
- 1976b. Petrology and geochemistry of the Wolf River Batholith (abs.): Dissert. Abs. Internat., v. 36, no. 8, p. 3825B-3826B.
- Anderson, James L.; Bowser, Carl J.** 1972. Petrology of a migmatite terrain in central Wisconsin (abs.): G.S.A., Abs. with Programs, v. 4, no. 5, p. 306.
- Anderson, James L.; Van Schmus, W.R.; Medaris, L. Gordon, Jr.** 1975. Proterozoic granitic plutonism in the Lake Superior region and its tectonic implications (abs.): EOS (Am. Geophys. Union, Trans.) v. 56, no. 9, p. 603.
- Anderson, M.P.** 1976. Groundwater conditions adjacent to the Menomonee River, southeastern Wisconsin (abs.): EOS (Am. Geophys. Union, Trans.) v. 57, no. 10, p. 754.
- 1977. One-dimensional contaminant transport models for use in ground-water planning studies (abs.): G.S.A., Abs. with Programs, v. 9, no. 7, p. 879.
- Anderson, Richard C.** 1957. Pebble and sand lithology of the major Wisconsin glacial lobes of the central lowland: G.S.A., Bull., v. 68, no. 11, p. 1415-1450, illus., tables.
- Andre, Louis.** 1899a. Remarkable facts concerning the river (that discharges into the Bay des Puans at the bottom of the cove) in Jesuit Relations, 1672-73: Cleveland, Burrow Bros., R.G. Thwaites, ed., v. 57, p. 301-303.
- 1899b. The tide in the Bay des Puans (Green Bay) in Jesuit Relations, 1671-72: Cleveland, Burrow Bros., R.G. Thwaites, ed., v. 56, p. 137-139.
- Andrews, Edmund B.** 1869. On some remarkable relations and characters of the western boulder drift: Am. Jour. Sci., v. 48 (2) p. 172-179.
- 1870. The North American lakes considered as chronometers of postglacial time: Am. Jour. Sci., v. 50 (2) p. 264-265; Chicago Acad. Sci., Trans., v. 2, 23 p.
- Andrews, George William.** *see also* Judson, S. Sheldon, Jr.
- 1955. Unconformity at the base of New Richmond sandstone, Crawford County, Wisconsin: Am. Assoc. Pet. Geol., Bull., v. 39, no. 3, p. 329-333, illus.
- 1958. Windrow formation of upper Mississippi Valley region—a sedimentary and stratigraphic study: Jour. Geol., v. 66, no. 6, p. 597-624, illus., table.
- 1965. Late Quaternary geologic history of the lower Chippewa Valley, Wisconsin: G.S.A., Bull., v. 76, no. 1, p. 113-124, illus.
- 1966. Late Pleistocene diatoms from the Trempealeau Valley, Wisconsin: U.S.G.S., Prof. Paper 523-A, p. A1-A27, illus., table; (abs.) U.S.G.S., Prof. Paper 525-A, p. A82, 1965.
- 1968. New names for late Pleistocene diatom species: Jour. Paleontology, v. 42, no. 1, p. 244; (abs.) Abs. North Am. Geol., p. 1108, August.
- Andrews, Lloyd M.** *see also* Black, John J.
- *see also* Carlson, Harland
- Andrews, Lloyd M.; Black, John J.; Threinen, C.W.** 1963. Surface water resources of Menominee County: Wis. Cons. Dept., Lake and stream classification project, 81 p., tables, maps.
- Andrews, Lloyd M.; Threinen, C.W.** 1966. Surface water resources of Oneida County: Wis. Cons. Dept., Lake and stream classification project, 284 p., tables, maps.
- 1968. Surface water resources of Shawano County: Wis. Dept. Nat. Resources, Lake and stream classification project, 147 p., tables, maps.
- 1969. Surface water resources of Iron County: Wis. Dept. Nat. Resources, Lake and stream classification project, 191 p., tables, maps.
- Andrews, O.V.** 1920. An ecological survey of Lake Butte des Morts Bog, Oshkosh, Wisconsin: Wis. Nat. History Soc., v. 13 (n s) p. 196-211.
- Andrews, R.D., Jr.** 1976. Petrology and geochemistry of plutonic rocks in central Marathon Co., Wisconsin (abs.): Univ. Wis., Milwaukee, First annual student conf. in earth science, unpagd.
- Anonymous.** 1887. Gogebic iron ore mines: Eng. Min. Jour., v. 43, p. 182.
- 1941. Northern Wisconsin swept by floods of unusual intensity: Eng. News-Record, v. 127, p. 63-67.
- 1946. Aerating a river to reduce pollution: Eng. News-Record, v. 136, p. 76-78.
- 1948. One less river to boss: Elec. World, v. 130, p. 77-92, illus.
- 1955. American zinc active in Wisconsin: Skillings Mining Review, v. 44, no. 3, p. 8.
- Anteus, Ernst V.** 1929. Maps of the Pleistocene glaciations: G.S.A., Bull., v. 40, p. 631-720.
- 1953. Geochronology of the deglacial and neothermal ages: Jour. Geol., v. 61, no. 3, p. 195-230, illus.; discussion: De Geer, E.H.; Anteus, E.V. 1954. Jour. Geology, v. 62, no. 5, p. 514-521, illus., Sept.
- 1957. Geological tests of the varve and radiocarbon chronologies: Jour. Geol., v. 65, no. 2, p. 129-148, illus.
- Anzoleaga, Rodolfo; Ocola, Leonidas C.; Meyer, Robert P.** 1969. Shallow seismic refraction profiles in western Lake Superior and their relation to geologic structures (abs) in Inst. Lake Superior Geology, 15th Ann., Tech. Sess. Abs.: Wis. State Univ., Oshkosh, Dept. Geology, p. 7.
- Apell, Gideon A.** 1947a. Sampling the Fox and Mills tailing piles, Lafayette Co., Wisconsin: U.S. Bur. Mines, Rpt. Inv., 3991, 7 p., illus.
- 1947b. Zinc deposits of the Tennyson district, Grant Co., Wisconsin: U.S. Bur. Mines, Rpt. Inv. 4083, 13 p., illus., maps.
- 1949a. Investigation of the M.C. zinc mine, Lafayette Co., Wisconsin: U.S. Bur. Mines, Rpt. Inv. 4485, 8 p., illus.
- 1949b. Investigation of the Nigger Jim lead diggings Lafayette Co., Wisconsin: U.S. Bur. Mines, Rpt. Inv. 4372, 9 p., illus.
- Apfel, Earl T.** *see* Kay, George Marshall
- Arey, Albert L.** 1895. Preliminary notice of the discovery of strata of the Guelph Formation in Rochester, New York: Rochester Acad. Sci., Proc., v. 2, p. 104-107.
- Armstrong, Patricia.** 1966. Devils Lake: Earth Sci., v. 19, no. 3, p. 112-115, illus.
- Arnold, J.R.; Libby, Willard Frank.** 1951. Radiocarbon dates: Science, v. 113 (n s) p. 115-18
- Ashby, Charlotte M., comp.** *see* Kelsey, Laura E.
- Asquith, George Benjamin.** 1964. Origin of the Precambrian Wisconsin rhyolites: Jour. Geol., v. 72, no. 6, p. 835-847, illus., tables.
- 1967. The marine dolomitization of the Mifflin member, Platteville limestone in southwest Wisconsin: Jour. Sed. Petrology, v. 37, no. 2, p. 311-326, illus.; (abs.) Dissert. Abs., Sec. B, v. 28, no. 2, p. 738B.
- Asthana, Virendra.** 1969. The Mt. Simon formation (Dresbachian Stage) of Wisconsin (abs.): Dissert. Abs. Internat., Sec. B, v. 30, no. 1, p. 252B.
- Atwater, Gordon Ingham; Clement, George Muller.** 1935. Pre-Cambrian and Cambrian relations in the upper Mississippi Valley: G.S.A., Bull., v. 46, no. 11, p. 1659-1686, illus., map; discussion and reply, G.S.A., Bull., v. 46, p. 2060-2066.
- Atwater, Gordon Ingham.** *see also* Kay, George Marshall
- *see also* Trowbridge, Arthur Carleton
- 1935a. The Keweenaw-Upper Cambrian unconformity in the upper Mississippi Valley: Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook, p. 316-319, map.
- 1935b. A summary of the stratigraphy and structure of the Gogebic iron range, Michigan and Wisconsin: Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook, p. 417-420, illus.
- 1938. Correlation of the Tyler and the Copps formations of the Gogebic iron district (Michigan and Wisconsin): G.S.A., Bull., v. 49, no. 2, p. 151-194, illus., map; (abs.) G.S.A., Proc., 1933, p. 63, 1936.
- Atwood, Wallace W.** *see* Salisbury, Rollin Duer
- Audini, Roy E.; Berkstresser, Charles F., Jr.; Knowles, Doyle B.** 1959. Water levels in observation wells in Wisconsin through 1957: Wis. Geol. and Nat. History Survey, Inf. Circ. 4, 192 p., illus.
- Audini, Roy E.; Erickson, Robert M.** 1964. Groundwater levels in the United States, 1957-61: U.S.G.S., Water Supply Paper 1781, p. 122-148, map.
- Austin, G.** *see* Parham, W.E.
- *see* Swain, F.M.
- Axelrod, Joseph M.** *see* Heyl, Allen Van, Jr.
- Ayers, J.** 1967. The surficial bottom sediments of Lake Michigan in Ayers, J. and Chandler, D., eds., Studies on the environment and eutrophication of Lake Michigan: Univ. Mich., Great Lakes Res. Div., Sp. Rpt. no. 30, p. 247-253.
- Ayers, J.; Hough, Jack Luin.** 1964. Studies of water movements and sediments in southern Lake Michigan: pt. 2, the surficial bottom sediments in 1962-1963: Univ. Mich., Great Lakes Res. Div., Sp. Pub. no. 19, 44 p.
- Ayrs, Orla L.** *see* Jones, Grove B.
- Baadsgaard, Halfdan.** *see* Goldich, Samuel S.
- Badiozamani, Khosrow.** 1972. The Dorag dolomitization model—application to the middle Ordovician of Wisconsin (abs.): G.S.A., Abs. with Programs, v. 4, no. 7, p. 440; Dissert. Abs. Internat., Sec. B, v. 33, no. 6, p. 2650B.

- 1973. The Dorag dolomitization model-application to the middle Ordovician of Wisconsin: *Jour. Sed. Petrology*, v. 43, p. 965-984.
- Baerreis, David A.** see Bender, Margaret M.
- Bagg, Rufus Mather.** 1913. The discovery of pyrrhotite in Wisconsin, with a discussion of its probable origin by magmatic differentiation: *Econ. Geology*, v. 8, p. 369-372.
- 1918a. Discovery of fluorite in the Ordovician limestones of Wisconsin (abs. with discussion by W.A. Tarr): *G.S.A., Bull.*, v. 29, p. 104.
- 1918b. Fluorspar in the Ordovician limestone of Wisconsin: *G.S.A., Bull.*, v. 29, p. 393-398.
- 1927. Fossil starfishes in the Galena limestone of Wisconsin (abs.): *G.S.A., Bull.*, no. 38, no. 1, p. 227; *Pan-Am. Geologist*, v. 47, no. 3, p. 235.
- 1930. The geological history of Door County, Wisconsin: *Peninsula Historical Review* (Door County Historical Society) v. 4, no. 2, p. 17-26.
- 1944. Well, well, well! the story of three extraordinary holes that were dug in the ground: *Nat. History*, v. 53, no. 10, p. 455, 483, illus.
- Bagrowski, Benedict P.** 1940. Occurrence of millerite at Milwaukee, Wisconsin: *Am. Mineralogist*, v. 25, no. 8, p. 556-559; *Rocks and Minerals*, v. 16, no. 8, p. 283, 1941.
- Bahnick, Donald A.** see also Roubal, Ronald K.
- Bahnick, Donald A. (and others).** 1972. Effects of south shore drainage basins and clay erosion on the physical and chemical limnology of western Lake Superior: *Internat. Assoc. Great Lakes Research, 15th Conf., Proc.*, p. 237-248, illus., tables.
- 1973. Hydrology of Wisconsin's Lake Superior drainage basin, western sector: *Conf. Great Lakes Research, Proc.*, no. 16, p. 484-491.
- Bahnick, Donald A.; Horton, Joseph W.; Roubal, Ronald K.** 1969a. Chemical water quality survey of the surface waters of the Bois Brule River and its watershed, Wisconsin tributary to Lake Superior: *Internat. Assoc. Great Lakes Research, 12th Conf., Proc.*, p. 742-749, illus.
- 1969b. Comparison of the water quality of the Bois Brule and Poplar Rivers, Wisconsin—both tributary to Lake Superior: *Univ. Wis., Superior, Center for Lake Superior Environmental Studies, Tech. Paper, contrib.* no. 16, 12 p.
- 1970. Water quality study of the Poplar River, Douglas County, Wisconsin—tributary to Lake Superior: *Internat. Assoc. Great Lakes Research, 13th Conf., Proc.*, p. 651-658.
- Bailey, Robert.** 1962. Glaciation in the Mississippi gorge: *Wis. Academy Review*, v. 9, no. 4, p. 170-172, illus.
- Bailey, Sturges W.; Cameron, Eugene N.** 1951. Temperatures of mineral formation in bottom-run lead-zinc deposits of the upper Mississippi Valley, as indicated by liquid inclusions: *Econ. Geology*, v. 46, no. 6, p. 626-651, illus.
- Bailey, Sturges W.; Tyler, Stanley Allen.** 1960. Clay minerals associated with the Lake Superior iron ores: *Econ. Geology*, v. 55, no. 1, p. 150-175, tables.
- Bain, G.W.** 1975. Geology and exploration of the southern Province of the Canadian Shield in Wisconsin-Michigan: *Can. Min. Metall. Bull.*, v. 68, no. 757, p. 102-103.
- Bain, Harry Foster.** see also Grant, Ulysses Sherman
- see also Van Hise, Charles Richard
- 1906. Zinc and lead deposits of the upper Mississippi Valley: *U.S.G.S., Bull.* 294, 155 p., maps; *Wis. Geol. and Nat. History Survey, Bull.* 19 (econ. ser. 12) illus., maps, 1907.
- 1907. Some relations of paleogeography to ore deposition in the Mississippi Valley: *Econ. Geology*, v. 2, p. 128-144.
- 1911. Flats and pitches of the Wisconsin lead and zinc districts in Bain, H.F., ed., *Types of ore deposits*: San Francisco, p. 77-102.
- Baker, F.G.** see Bouma, Johannes
- Baker, Frank Collins.** 1900. Notes on a collection of Pleistocene shells from Milwaukee, Wisconsin: *Cincinnati Soc. Nat. History, Jour.*, v. 19, p. 175-177.
- 1913. Notes on postglacial mollusca, I, Emmet Co., Michigan, II, Waukesha Co., Wisconsin: *Nautilus*, v. 27, p. 7-8, 68.
- 1924. The fauna of the Lake Winnebago region: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 21, p. 109-146.
- 1935. Stratigraphic sequence of molluscan fossils in loess deposits (abs.): *G.S.A., Proc.*, 1934, p. 372-373.
- Baker, Richard G.** 1970. A radiocarbon-dated pollen chronology for Wisconsin; Disterhaft Farm bog revisited (abs.): *G.S.A., Abs. with Programs*, v. 2, no. 7, p. 488.
- Ball, John Rice.** 1921. The intercession of Pike River near Kenosha, Wisconsin: *Ill. State Acad. Sci., Trans.*, v. 13, p. 323-326.
- 1935. Isopach map of the Galena, Decorah, and Platteville (formations, upper Mississippi River Valley): *Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook*, p. 346-347, map.
- 1936. Dwarfed gastropods in the basal Guttenberg, southwestern Wisconsin (abs.): *G.S.A., Proc.* 1935, p. 384.
- 1938. Wave erosion along the west shore of Lake Michigan: *Chicago Naturalist*, v. 1, no. 1, p. 11-20, illus., map.
- 1940. Typical lower Mississippi Valley Silurian lithology in southeastern Wisconsin: *Ill. Acad. Sci., Trans.*, v. 33, no. 2, p. 152-154.
- 1942. Some Silurian correlations in the lower Mississippi drainage basin: *Am. Assoc. Pet. Geol., Bull.*, v. 26, no. 1, p. 1-18, illus., map; (abs.) *Oil and Gas Jour.*, v. 38, no. 48, p. 63, 1940.
- Ball, John Rice; Powers, William E.** 1930. Shore recession in southeastern Wisconsin: *Ill. State Acad. Sci., Trans.*, v. 22, p. 435-441.
- Ball, Joseph R.** see also Smith, Tom D.
- Ball, Joseph R.; Poff, Ronald J.; Threinen, C.W.** 1970. Surface water resources of Rock County: *Wis. Dept. Nat. Resources, Lake and stream classification project*, 67 p., tables, maps.
- Ball, Joseph R.; Smith, Tom D.; Threinen, C.W.** 1970. Surface water resources of Richland County: *Wis. Dept. Nat. Resources, Lake and stream classification project*, 105 p., tables, maps.
- 1971. Surface water resources of Sauk County: *Wis. Dept. Nat. Resources, Lake and stream classification project*, 63 p., tables, maps.
- Balsley, James R., Jr.; Petrafeso, F.A.** 1967. Aeromagnetic map of Iron River and vicinity, Michigan and Wisconsin: *U.S.G.S., Geophys. Inv. Map GP-605*, scale 1:62,500.
- Banaszak, Konrad J.** 1978. The pH of ore fluids of Mississippi Valley type deposits (abs.) in *Inst. Lake Superior Geology, 24th Ann.*, 1978, Abs. and Proc.: *Univ. Wis., Milwaukee*, p. 4.
- Banks, Philip O.** see also Van Schmus, W.R.
- Banks, Philip O.; Cain, James Allan.** 1969. Zircon ages of Precambrian granitic rocks, northeastern Wisconsin: *Jour. Geol.*, v. 77, no. 2, p. 208-220, illus., tables; (abs.) *Abs. North Am. Geol.*, p. 1344, Sept.
- Banks, Philip O.; Cain, James Allan; Rebello, Dennis P.** 1968. Ages of Penokean granitic rocks in northeast Wisconsin (abs.): *G.S.A., Sp. Paper* 115, p. 12.
- Banks, Philip O.; Rebello, Dennis P.** 1969. Zircon age of Precambrian rhyolite, northeastern Wisconsin: *G.S.A., Bull.*, v. 80, no. 5, p. 907-910, illus., tables;
- Bannerjee, S.K.** see Levi, S.
- Barker, Franklin Butt.** see Scott, Robert Clyde
- Barnes, H.L.** see also Lavery, N.G.
- 1967. Sphalerite solubility in ore solutions of the Illinois-Wisconsin district in *Genesis of stratiform lead-zinc-barite-fluorite deposits* (Mississippi Valley type deposits)-a symposium, New York, 1966: *Econ. Geology, Mon.* 3, p. 326-332, illus.; (abs.) *Abs. North Am. Geol.*, p. 1438, 1968.
- Barnfield, Armine F.** see Behre, Charles Henry, Jr.
- Barrande, Joachim.** 1853. *Wiederholung der Silur-Fauna Bohmens in Wisconsin und New York nach D.D. Owen and J. Hall*: *Neues Jahrbuch*, 1853, p. 335-347.
- Barrett, L.P.** see Allen, Roland Craten
- Barrett, S.A.** 1926. Field studies for the catlinite and quartzite groups: *Milwaukee Public Mus. Yearbook*, 1924, v. 4, p. 7-20, illus.
- Barrows, H.K.; Horton, A.H.** 1907. Surface water supply of Great Lakes and St. Lawrence River drainages, 1906: *U.S.G.S., Water-Supply Paper* 206, 98 p.
- Bartelme, R.J.** 1977. Soil survey of Wood County, Wisconsin: *U.S.D.A., Soil Conservation Service*, 104 p., illus., maps.
- Barton, William R.** 1968. Dimension stone: *U.S. Bur. Mines*, p. 37, 45, 60, 119, tables.
- Bass, Manuel N.** 1959. Mineral age measurements-Wisconsin: *Washington, Carnegie Inst., Yearbook*, v. 58, p. 246-247.
- 1961. Summary of discussion of Pre-Cambrian of central Wisconsin in J. Laurence Kulp, ed., *Geochronology of rock systems*: *New York Acad. Sci., Annals*, v. 91, art. 2, pt. 4, p. 432.
- Bassler, Roy Smith.** 1911. Bryozoa in The fossils and stratigraphy of the middle Devonian of Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 21 (sci. ser. 6) chap. 5, p. 49-67, illus.
- Bassler, Roy Smith; Kellett, Betty.** 1934. Bibliographic index of Paleozoic ostracoda: *G.S.A., Sp. Paper* 1, 500 p., illus.
- Bassler, Roy Smith; Moodey, Margaret W.** 1943. Bibliographic and faunal index of Paleozoic pelmatozoan echinoderms: *G.S.A., Sp. Paper* 45, p. 28, 31, 49.
- Bastin, Edson Sunderland, ed.** 1939. Contributions to knowledge of the lead and zinc deposits of the Mississippi Valley region: *G.S.A., Sp. Paper* 24, 156 p.
- Bastin, Edson Sunderland.** 1910. Economic geology of the feldspar deposits of the United States: *U.S.G.S., Bull.* 420, p. 78, map.
- Bates, C.G.** 1931. Chaining the father of waters: *Am. Forests*, v. 37, no. 2, p. 67-70, 106, 127, illus.
- Bates, C.G.; Zeasman, O.R.** 1930. Soil erosion—a local and national problem: *Wis. Agr. Exp. Station, Research Bull.* 99, 100p., illus.
- Bates, Robert E.** see also Johnson, Douglas W.
- 1936. Peneplanation in the driftless area of Wisconsin (abs.): *G.S.A., Proc.*, 1935, p. 65.
- 1939. Geomorphic history of the Kickapoo region, Wisconsin: *G.S.A., Bull.*, v. 50, no. 6, p. 819-879, illus., map.
- Bates, Robert Glenn.** see also Allingham, John Wing
- Bates, Robert Glenn; Allingham, John Wing.** 1958. Correlation of airborne geophysical data with geology in the Wausau area, Wisconsin (abs.): *Geophysics*, v. 23, no. 5, p. 1068.
- Bath, Gordon D.** 1951. Magnetic base stations in the Lake Superior iron districts: *U.S. Bur. Mines, Rpt. Inv.* 4804, 16 p., illus.

- 1960. Magnetization of volcanic rocks in the Lake Superior geosyncline: U.S.G.S., Prof. Paper 400-B, p. B212-B213, illus.
- Bath, Gordon D.; Schwartz, George Melvin.** 1960. Magnetic anomalies and magnetization of main Mesabi iron-formation in Inst. Lake Superior Geology, 6th Ann., 1960: Madison, Univ. Wis., Dept. Geology; Wis. Geol. and Nat. History Survey, p. 27.
- 1961. Total magnetization, an exploration parameter in the Lake Superior area (abs): Soc. Explor. Geophysicists, Yearbook, 1961, p. 232.
- Baxter, Franklin Paul.** 1970. Sedimentology of Woodfordian glacial materials and subsequent biocycling in derived soils in a mixed forest of northeastern Wisconsin; ant pedoturbation in a prairie soil of southwestern Wisconsin (abs.): Dissert. Abs. Internat., Sec. B, v. 31, no. 3, p. 1005B.
- Bay, C.E.** see Dixon, R.M.
- Bayer, Thomas N.; Knoll, Kenneth M.** 1971. Intriguing pseudofossils: Earth Sci., v. 24, no. 1, p. 19-20, illus.
- Bayfield, H.W.** 1829. Outlines of the geology of Lake Superior: Lit. and Hist. Soc. of Quebec, Trans., v. 1, p. 1-43.
- Bayley, R.W.; Dutton, Carl E.; Lamey, C.A.** 1966 (1967). Geology of the Menominee iron-bearing district, Dickinson County, Michigan, and Florence and Marinette Counties, Wisconsin: U.S.G.S., Prof. Paper 513, 96 p., illus., tables, maps.
- Bayley, R.W.; James, Harold L.** 1973. Precambrian iron-formation of the United States: Econ. Geology, v. 68, p. 934-959.
- Bayley, R.W.; Muehlberger, William R.** 1968. Basement rock map of the United States: U.S.G.S., Sp. map, scale 1:2,500,000, 2 sheets.
- Bayley, W.S.** see also Van Hise, Charles Richard
- 1893. The basic massive rocks of the Lake Superior region: Jour. Geol., v. 1, nos. 5, 6, 7, p. 433-456, 587-596, 688-716.
- Bays, Carl A.** 1938. Stratigraphy of the Platteville Formation (upper Mississippi Valley) (abs.): G.S.A., Proc., 1937, p. 269.
- Bays, Carl A.; Raasch, Gilbert Oscar.** 1935. Mohawkian relations in Wisconsin: Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook, p. 296-301.
- Bean, Ernest F.** see also Hotchkiss, William Otis
- see also Martin, Lawrence
- 1915. Methods of mapping glacial geology in northern Wisconsin: Assoc. Am. Geographers, Annals, v. 5, p. 144.
- 1921. Economic geology and highway construction: Econ. Geology, v. 16, no. 3, p. 215-221.
- 1922. Location of Wisconsin road material: Pan-Am. Geologist, v. 37, no. 4, p. 341-343.
- 1925. Description of the surface features of Wisconsin: Wis. Blue Book, p. 15-38.
- 1932. The nonmetallic mineral resources of Wisconsin: Pit and Quarry, v. 24 (2) p. 42-45.
- 1937. State geological surveys of Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 30, p. 203-220.
- Bean, Ernest F.; Aldrich, Henry Ray.** 1929. Recent work of the state geological survey in Huronian and Keweenaw areas: Lake Superior Mining Inst., Proc., v. 27, p. 173-178, illus.
- Bean, Ernest F.; Thomson, John W., Jr.** 1944. Topography and geology of the Brule River Basin (Wis.) Pt. 2 of Brule River survey: Wis. Acad. Sci., Arts, and Letters, Trans., v. 36, p. 7-17, illus., maps.
- Bean, Ernest F.; Thwaites, Fredrik Turville; Alden, William Clinton.** 1932. Annotated guide of southern Wisconsin in Glacial geology of the central states: Internat. Geol. Cong., 16th sess., U.S., Guidebook 26, Excursion C-3, p. 31-47, illus., map.
- Beatty, Marvin T.** see also Cain, John M.
- see also Hogan, J.D.
- see also Hole, Francis D.
- see also Ranney, Richard Willard
- Beatty, Marvin T. (and others).** 1964. The soils of Wisconsin: Wis. Blue Book, p. 149-170, illus.
- Beatty, Marvin T.** 1960. Soil survey of La Crosse County, Wisconsin: U.S.D.A., Soil Cons. Service, no. 7 (series 1956) 93 p., maps.
- Beatty, Marvin T.; Corey, R.B.** 1962. Subsoil fertility of Wisconsin soils: Wis. Academy Review, v. 9, no. 1, p. 22-23.
- Beaver, Albert John.** see also Lee, Gerhard B.
- 1967. Characteristics and genesis of some bisequal soils in eastern Wisconsin (abs.): Dissert. Abs., Sec. B, v. 28, no. 2, p. 426B.
- Beaver, Albert John; Lee, Gerhard B.** 1963. Distribution and characteristics of some bisequal soils in eastern Wisconsin: Am. Soc. Agron., Abs., p. 53.
- Beck, Myrl E., Jr.** see Books, Kenneth G.
- Becker, Edith.** see Durfor, Charles N.
- Becker, Hans.** 1931a. Die prakambrische Geschichte des Lake Superior - Gebietes Nordamerika: Geologischen Rundschau, Band 22, Heft 6, p. 385-411, illus., map.
- 1931b. A study of the heavy minerals of the pre-Cambrian and Paleozoic rocks of Baraboo Range, Wisconsin: Jour. Sed. Petrology, v. 1, no. 2, p. 91-95, illus.
- Beckman, Walter A., Jr.** see Cain, James Allan
- Bedford, B.L.; Zimmerman, E.H.; Zimmerman, James H.** 1974. The wetlands of Dane Co., Wisconsin: Dane County Regional Plan. Comm., 581 p.
- Behre, Charles Henry, Jr.** see also Scott, E.R.
- 1935. The geology and development of the Wisconsin-Illinois lead-zinc district: Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook, p. 377-382, illus., map.
- 1937a. The mineralogy of the Wisconsin lead-zinc ores (abs.): Am. Mineralogist, v. 22, no. 3, p. 215.
- 1937b. New data on the Wisconsin lead-zinc district (abs.): Econ. Geology, v. 32, no. 2, p. 198.
- 1939. Structural and chemical control of ore deposition in lead-zinc district of Wisconsin (abs.): Pan-Am. Geologist, v. 71, no. 2, p. 124-125.
- Behre, Charles Henry, Jr.; Barnfield, Armine F.** 1937. Mineralogy of the Wisconsin lead-zinc ores (abs.): G.S.A., Proc., 1936, p. 64.
- Behre, Charles Henry, Jr.; Heyl, Allen Van, Jr.; McKnight, Edwin Thor.** 1948. Zinc and lead deposits of the Mississippi Valley in Dunham, K.C., ed., Symposium on the geology, paragenesis and reserves of the ores of lead and zinc: London, 18th Internat. Geol. Cong., p. 46-61, illus.
- Behre, Charles Henry, Jr.; Scott, E.R.; Barnfield, Armine F.** 1937. The Wisconsin lead-zinc district, preliminary paper: Econ. Geology, v. 32, no. 6, p. 783-809, illus.
- Bell, Alfred Hannam.** see Workman, Lewis Edwin
- Bell, Edward A.; Hindall, Stephen M.** 1975. The availability of ground water for irrigation in the Rice Lake-Eau Claire area, Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ. 31, 65 p., illus.
- Bell, Edward A.; Sherrill, Marion G.** 1974. Water availability in central Wisconsin - an area of near-surface crystalline rock: U.S.G.S., Water-Supply Paper 2022, 32 p., illus., maps.
- Bell, F.G.** see Hays, Orville E.
- Bell, R.A.** 1951. Prospecting for iron in the Lake Superior or region in Field trip to the Lake Superior region, May 5 to May 12, 1951: Madison, Univ. of Wis., Dept. Geology, 3 p.
- Bell, William Charles.** see also Berg, Robert Raymond
- 1950. Stratigraphy, a factor in paleontologic taxonomy: Jour. Paleontology, v. 24, no. 4, p. 492-496.
- Bell, William Charles; Berg, Robert Raymond.** 1950. Franconia Formation of Minnesota and Wisconsin (abs.): G.S.A., Bull., v. 61, no. 12, pt. 2, p. 1443.
- Bell, William Charles; Berg, Robert Raymond; Nelson, Clemens Arvid.** 1956. Croixian type area - upper Mississippi Valley in Rodgers, J., ed., El Sistema Cambrico, su paleogeografia y el problema de su base - symposium: Mexico, 20th Internat. Geol. Cong., pt. 2, p. 415-446, illus.
- Bell, William Charles; Feniak, Oliver W.; Kurtz, Vincent E.** 1952. Trilobites of the Franconia formation, southeast Minnesota: Jour. Paleontology, v. 26, no. 2, p. 175-198, illus.
- Bell, William H.** 1844. Mineral lands of the upper Mississippi: U.S., 28th Cong., 1st sess., House Ex. Doc. 43, 52 p.
- Bender, Margaret M.** 1971. University of Wisconsin radiocarbon dates IX: Radiocarbon (Am. Jour. Sci.) v. 13, no. 2, p. 475-486.
- Bender, Margaret M.; Bryson, Reid A.; Baerreis, David A.** 1968. University of Wisconsin radiocarbon dates V: Radiocarbon (Am. Jour. Sci.) v. 10, no. 2, p. 468-472, tables.
- 1969. University of Wisconsin radiocarbon dates VI: Radiocarbon (Am. Jour. Sci.) v. 11, no. 1, p. 228-235; (abs.) Geographical Abs. (A) v. 2, p. 178, 1970.
- 1970a. University of Wisconsin radiocarbon dates VII: Radiocarbon (Am. Jour. Sci.) v. 12, no. 1, p. 335-345; (abs.) Geophysical Abs., no. 284, p. 988, Sept.
- 1970b. University of Wisconsin radiocarbon dates VIII: Radiocarbon (Am. Jour. Sci.) v. 12, no. 2, p. 640-643.
- Bendixen, Thomas W. (and others).** 1968. Ridge and furrow liquid waste disposal in a northern latitude: Am. Soc. Civil Engineers, Proc., Jour. Sanitary Eng. Div., v. 94, P5819, no. SA1, p. 147-157, illus., table; (abs.) Abs. North Am. Geol., p. 773, June.
- Benninghoff, William S.** see Farrand, William R.
- see Miller, Norton G.
- Bente, Peter J.** 1972. Deicing salt runoff and water quality of storm sewer effluent, Beloit, Wisconsin (abs): G.S.A., Abs. with Programs, v. 4, no. 7, p. 450.
- Bentley, Charles R.** see also Sternberg, Ben K.
- 1973. Magnetotelluric evidence for lateral variations of crustal structure in northern Wisconsin in Inst. Lake Superior Geology, 19th Ann., 1973, Tech. program and Abs.: Wis. Geol. and Nat. History Survey; Univ. Wis., Geology Depts., p. 2; (abs.) EOS (Am. Geophys. Union, Trans.), v. 54, no. 4, p. 237.
- Bentley, Charles R.; Dowling, Forrest Leroy.** 1971. Statistical analysis of magnetotelluric observations in Wisconsin (abs.): EOS (Am. Geophys. Union, Trans.) v. 52, no. 4, p. 193.
- Bentley, Eugene Macke, III.** 1970. The effect of marshes on water quality (abs.): Dissert. Abs. Internat., Sec. B, v. 30, no. 12, pt. 1, p. 5576B.
- Berg, Robert Raymond.** see also Bell, William Charles
- 1952. Feldspathized sandstone of Minnesota and Wisconsin: Jour. Sed. Petrology, v. 22, no. 4, p. 221-223, illus.
- 1953a. Franconian trilobites from the St. Croix Valley (Minn.-Wis.): Jour. Paleontology, v. 25, no. 6, p. 765-784.

- 1953b. Franconian trilobites from Minnesota and Wisconsin: *Jour. Paleontology*, v. 27, no. 4, p. 553-568, illus.
- 1954. Franconia Formation of Minnesota and Wisconsin: *G.S.A., Bull.*, v. 65, no. 9, p. 857-881, illus.
- Berg, Robert Raymond; Nelson, Clemens Arvid; Bell, William Charles.** 1956. Upper Cambrian Rocks in southeast Minnesota (-Wis.) in *G.S.A., 69th Ann. Mtg., Guidebook for Field Trips, Field Trip no. 2*, p. 1-23, illus.
- Berg, Thomas E.** 1960. Differentiation of the St. Croix and Emerald moraines in west-central Wisconsin (abs.) in *Inst. Lake Superior Geology, 6th Ann., 1960: Madison, Univ. Wis., Dept. Geology; Wis. Geol. and Nat. History Survey*, p. 14.
- Bergendahl, M.H.** 1951a. The geology and ore deposits of the Gogebic Range in Field trip to the Lake Superior region, May 5 to May 12, 1951: *Madison, Univ. Wis., Dept. Geology*, 7 p., illus., table.
- 1951b. Origin of Lake Superior iron ores; ideas of Mann in Field trip to the Lake Superior region, May 5 to May 12, 1951: *Madison, Univ. Wis., Dept. Geology*, 3 p.
- Berger, Rainier; Fergusson, G.J.; Libby, Willard Frank.** 1965. UCLA radiocarbon dates IV: Radiocarbon (*Am. Jour. Sci.*) v. 7, p. 336-371, illus., tables.
- Bergstrom, Robert Edward; Hanson, George Fulford.** 1959. Ground-water supplies in Wisconsin and Illinois adjacent to Lake Michigan (abs.): *G.S.A., Bull.*, v. 70, no. 12, pt. 2, p. 1799.
- 1962. Ground-water supplies in Wisconsin and Illinois adjacent to Lake Michigan in *Great Lakes Basin - a symposium, Chicago, 1959: Am. Assoc. Adv. Sci., Pub. 71*, p. 251-268, illus., tables.
- Berkey, Charles Peter.** 1897. Geology of the St. Croix Dalles: *Am. Geologist*, v. 20, p. 345-383, maps; v. 21, p. 139-155, map; p. 270-294, illus., 1898.
- 1898. A guide to the Dalles of the St. Croix: *Minneapolis*, 40 p.
- 1905. Laminated interglacial clays of Grantsburg, Wisconsin, with chronological deductions: *Jour. Geol.*, v. 13, p. 35-44, map; (abs.) *Science*, v. 21 (n s) p. 426.
- 1906. Paleogeography of Saint Peter time: *G.S.A., Bull.*, v. 17, p. 229-250.
- 1907. Interpretation of certain interglacial clays and their bearing upon measurement of geologic time (abs.): *New York Acad. Sci., Annals*, v. 17, p. 574.
- Berkson, Jonathan Milton.** *see also* Wold, Richard J.
- 1972. Microrelief of western Lake Superior: *Dissert. Abs. Internat., Sec. B*, v. 33, no. 1 p. 284B.
- Berkson, Jonathan Milton; Gross, David L.; Lineback, Jerry A.** 1974. Side-scan sonar studies of ridges and depressions on the floor of southern Lake Michigan: *Seventeenth Conf. Great Lakes Research, Hamilton, Ontario*, p. 7.
- Berkstresser, Charles F., Jr.** *see also* Audini, Roy E.
- 1963. Water-quality change with depth in some unconsolidated aquifers in central Wisconsin (abs.): *G.S.A., Sp. Paper 73*, p. 114.
- 1964. Ground-water resources of Waupaca County, Wisconsin: *U.S.G.S. Water-Supply Paper 1669-U*, p. U1-U38, illus., maps.
- Berliner, Miles Howard.** 1947. Coughlin and Galena level zinc mines area, Lafayette County, Wisconsin: *U.S. Bur. Mines, Rpt. Inv. 4047*, 10 p., illus., maps
- 1948a. Investigation of the Argall (Baggaley) zinc-lead mine, Iowa Co., Wisconsin: *U.S. Bur. Mines, Rpt. Inv. 4340*, 5 p., illus.
- 1948b. Investigation of the Crescent lead and zinc mine, Iowa Co., Wisconsin: *U.S. Bur. Mines, Rpt. Inv. 4317*, 6 p., illus., maps.
- Bermingham, Anne.** 1966. Victoria natural radiocarbon measurements I: *Radiocarbon (Am. Jour. Sci.)* v. 8, p. 507-521.
- Berrien, J.M.** 1838. Reports of surveys of the mouths of Milwaukee, Root, Manitowoc, Sheboygan and Kewaunee Rivers: *U.S., 25th Cong., 2d Sess., Sen. Doc. no. 175*, maps.
- Berry, M.J.; West, G.F.** 1966. An interpretation of the first-arrival data of the Lake Superior experiment by the time-term method: *Seismol. Soc. Am., Bull.*, v. 56, no. 1, p. 141-171.
- Berry, W.B.N. (and others).** 1970. Correlation of the North American Silurian Rocks: *G.S.A., Sp. Paper 102*, 289 p., maps.
- Bertrand, Kenneth J.** *see* Thwaites, Fredrik Turville
- Best, B.G.** 1951. Gogebic iron range in Field trip to the Lake Superior region, May 5 to May 12, 1951: *Madison, Univ. Wis., Dept. Geology*, 4 p., illus.
- Beutner, Edward L.** 1958. Characteristics of some iron bearing formations in northern Wisconsin (abs.) in *Inst. on Lake Superior Geology, 4th Ann., April 21-22, 1958: Minneapolis, Univ. Minn., Center Continuation Study*, p. 29.
- Bevan, Arthur P.** *see also* Hawley, J.E.
- 1926. The Glenwood beds as a horizon marker at the base of the Platteville formation: *Ill. State Geol. Survey, Rpt. Investigations no. 9*, 13 p., illus.
- Bevan, Arthur P.; Hawley, J.E.** 1934. Mineralogy and genesis of the Mayville iron ore of Wisconsin (abs.): *G.S.A., Proc.*, 1933, p. 442.
- Bickford, M.E.; Van Schmus, W.R.** 1973. Possible Middle and Late Precambrian igneous arcs in the Mid-Continent region of North America (abs.): *G.S.A., Abs. with Programs*, v. 5, no. 4, p. 340-341.
- Bieber, Charles Leonard.** 1948. Structural trends of the southern flanks of the Wisconsin arch: *Ind. Acad. Sci., Proc.*, v. 58, p. 244-245, illus.
- Bierbauer, Bruno A.** 1891. A check list of the Paleozoic fossils of Wisconsin, Minnesota, Iowa, Dakota, and Nebraska: *Minn. Acad. Nat. Sci. Bull.*, v. 3, no. 2, p. 206-247.
- Birge, Edward Asahel.** *see also* Juday, Chancey
- 1906. Gases dissolved in the waters of Wisconsin lakes: *Am. Fish. Soc., Trans.*, p. 143-163; *Wis. Comm. Fish. Rpt.*, p. 119-140, 1907.
- 1910. Gases dissolved in the waters of Wisconsin lakes: *U.S. Bur. Fish., Bull.*, v. 28, p. 1273-1294.
- Birge, Edward Asahel; Juday, Chancey.** 1911. The inland lakes of Wisconsin; the dissolved gases of the water and their biological significance: *Wis. Geol. and Nat. History Survey, Bull. 22 (sci. ser. 7) 259 p.*, illus.
- Blabaum, Carl J.; Lueck, Bernard R.** 1966. Cooperative state industry studies of Wisconsin rivers in 1965: *Wis. Com. on Water Pollution, Bull. WP-111*, 46 p.
- Blacet, Philip M.** *see* West, Walter S.
- Black, Charles Spurgeon.** 1929. Chemical analyses of lake deposits: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 24, p. 127-133, tables.
- Black, John J.** *see also* Andrews, Lloyd M.
- Black, John J.; Andrews, Lloyd M.; Threinen, C.W.** 1963. Surface water resources of Vilas Co., Wisconsin: *Wis. Cons. Dept., Lake and stream classification project*, 317 p., tables, maps.
- Black, Robert Foster (and others).** 1965. The Wisconsin Quaternary in Guidebook for Field Conference C, Upper Mississippi Valley— *Internat. Assoc. Quaternary Research, 7th Cong., U.S.A., 1965: Lincoln, Nebr., Nebraska Acad. Sci.*, p. 56-81, illus.
- 1970a. Field trip in Pleistocene geology of southern Wisconsin: *Wis. Geol. and Nat. History Survey, Inf. Circ. 15 (part A) 35 p.*, illus.
- 1970b. Pleistocene geology of southern Wisconsin— *G.S.A., Ann. Mtg., Milwaukee, Wis., 1970, a field trip guide (with special papers): Wis. Geol. and Nat. History Survey, Inf. Circ. 15*, 175 p., illus., tables.
- Black, Robert Foster.** *see also* Cline, Lewis M.
- *see also* Frye, John Chapman
- 1957. Pleistocene climatic change recorded by ice-wedge polygon casts of Cary age at River Falls, Wisconsin (abs.): *G.S.A., Bull.*, v. 68, no. 12, pt. 2, p. 1888-1889.
- 1958. Glacial geology of Lake Geneva area, southeast Wisconsin (abs.): *G.S.A., Bull.*, v. 69, no. 12, pt. 2, p. 1536.
- 1959a. Current research in glacial geology and geomorphology in west-central Wisconsin (abs.) in *Inst. Lake Superior Geology, 5th Ann., Apr. 13-14, 1959: Univ. Minn., Center Continuation Study* p. 21.
- 1959b. Geology of Raddatz rockshelter, Sk5, Wisconsin: *Wis. Archeologist*, v. 40, no. 2, p. 69-82.
- 1959c. Glacial geology of west-central Wisconsin: *Midwest Friends of the Pleistocene, 10th Ann. Field Conf.*, 14 p., maps; *Science*, v. 130, no. 3368, p. 172-173.
- 1960a. "Driftless area" of Wisconsin was glaciated (abs.): *G.S.A., Bull.*, v. 71, no. 12, pt. 2, p. 1827.
- 1960b. Pleistocene history of Wisconsin (abs.) in *Inst. Lake Superior Geology, 6th Ann., 1960: Madison, Univ. Wis., Dept. Geology; Wis. Geol. and Nat. History Survey*, p. 13.
- 1961. Periglacial phenomena of Wisconsin, north-central U.S. (abs.): *Internat. Assoc. Quaternary Research, 6th Cong., Warsaw, 1961, Abs. Papers*, p. 87-88.
- 1962. Pleistocene chronology of Wisconsin (abs.): *G.S.A., Sp. Paper 68*, p. 137.
- 1964a. Periglacial phenomena of Wisconsin, north-central U.S. in *Internat. Assoc. Quaternary Research, 6th Cong., Warsaw, 1961, Rept.*, v. 4: *Lodz, Poland, Panstwowe Wydawnictwo Nauk. Oddzial w Lodzi*, p. 21-27, illus.
- 1964b. The physical geography of Wisconsin: *Wis. Geol. and Nat. History Survey, 7 p.*, *Wis. Blue Book*, reprint, p. 171-177.
- 1964c. Potholes and associated gravel of Devil's Lake State Park: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 53, p. 165-175, illus.
- 1965. Ice-wedge casts of Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 54, p. 187-222, illus., tables; (abs.) *Geographical Abs. (A) v. 2*, p. 162, 1968.
- 1966. Valdres glaciation in Wisconsin and Upper Michigan - a progress report in *Great Lakes Research, 9th Conf., Chicago, 1966, Proc.: Univ. Michigan Great Lakes Research Div., Pub. 15*, p. 169-175, illus.; (abs.) *Geographical Abs. (A) v. 3*, p. 228, 1968.
- 1968a. Geomorphology of Devils Lake area, Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, 1967-68, v. 56, p. 117-148, illus.; (abs.) *Abs. North Am. Geol.*, p. 1775, Dec.; *Geog. Abs. (A) v. 5*, p. 456, 1969.
- 1968b. Ice-stagnation features of the Bloomer moraine, northwest Wisconsin (abs.) in *Inst. Lake Superior Geology, 14th Ann., 1968, Tech. Sess. Abs.: Wis. State Univ.-Superior*, p. 44.
- 1969a. Climatically significant fossil periglacial phenomena in north central United States: *Buletyn Peryglacjalny*, no. 20, p. 225-238, illus.; (abs.) *Abs. North Am. Geol.*, p. 667, May 1970.
- 1969b. Glacial features of the Kettle Interlobate Moraine, eastern Wisconsin (abs.): *G.S.A., Sp. Paper 121*, p. 650-651.

- 1969c. Glacial geology of Northern Kettle Moraine State Forest, Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 57, p. 99-119, illus.; (abs.) Abs. North Am. Geol., p. 1191, August 1969; Geographical Abs. (A) v. 3, p. 283, 1970.
- 1969d. Slopes in southwestern Wisconsin, U.S.A., periglacial or temperate?: *Biuletyn Peryglacjalny*, no. 18, p. 69-82, illus.; (abs.) Abs. North Am. Geol., p. 1660, Nov. 1970; (Lodz. Tow. Navk.) Geographical Abs. (A) v. 5, p. 447, 1970.
- 1970a. Blue Mounds and the erosional history of southwestern Wisconsin in Pleistocene geology of southern Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ. 15 (Part H) 11 p., illus.
- 1970b. Chronology and climate of Wisconsin and upper Michigan, 14,000 to 9,000 radiocarbon years ago (abs.) in *Am. Quaternary Assoc. Mtg.*, 1st, Yellowstone Park, Wyo., and Bozeman, Mont., 1970, Abs.: (Bozeman, Mont., Montana State Univ.) p. 12.
- 1970c. Cross Plains terminal moraine and related features in Pleistocene geology of southern Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ. 15 (Part G) 15 p., illus.
- 1970d. Glacial geology in Dalziel and Dott, Geology of the Baraboo District, Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ. 14, p. 65-77, illus.
- 1970e. Glacial geology of Two Creeks Forest Bed, Valderan type locality and northern Kettle Moraine State Forest: Wis. Geol. and Nat. History Survey, Inf. Circ. 13, 40 p., illus.; (abs.) Abs. North Am. Geol., p. 900, June 1971.
- 1970f. Residium and ancient soils of the Driftless Area of southwestern Wisconsin in Pleistocene geology of southern Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ. 15 (part I) 12 p., map.
- 1974a. Geology of Ice Age National Scientific Reserve of Wisconsin: National Park Service, Sci. Mon. Series no. 2, 234 p., illus.
- 1974b. Glacial Lake Wisconsin in Knox and Mickelson, eds., Late Quaternary environments of Wisconsin: Am. Quaternary Assoc., Third biennial mtg., Madison, Wis., p. 58-68, illus.
- 1974c. Late Pleistocene shorelines and stratigraphic relations in the Lake Michigan basin, a discussion: G.S.A., Bull., v. 85, no. 4, p. 659-660.
- 1976a. Periglacial features indicative of permafrost, ice and soil wedges: *Quaternary Research*, v. 6, no. 1, p. 3-26, illus.
- 1976b. Quaternary geology of Wisconsin and contiguous Upper Michigan in *Quaternary stratigraphy of North America*: p. 93-117, illus.
- Black, Robert Foster; Rubin, Meyer.** 1968. Radiocarbon dates of Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., 1967-68, v. 56, p. 99-115, illus., tables; (abs.) Abs. North Am. Geol., p. 1775, Dec.; Geog. Abs. (A) v. 5, p. 455, 1969.
- Black, Robert Foster; Wittry, Warren L.** 1959. Pleistocene man in south-central Wisconsin (abs.): G.S.A., Bull., v. 70, no. 12, pt. 2, p. 1570-1571.
- Black, William Allen.** 1955. Study of the marked positive gravity anomaly in the northern mid-continent region of the United States (abs.): G.S.A., Bull., v. 66, no. 12, pt. 2, p. 1531.
- Blackman, Robbin R.; Sather, LaVerne M.; Threinen, C.W.** 1966. Surface water resources of Burnett Co., Wisconsin: Wis. Cons. Dept., Lake and stream classification project, 165 p., tables, map.
- Blaisdell, J.J.** 1893. Forest and tree culture in Wisconsin: Madison, 46 p.
- Blake, D.B.** see Kolata, Dennis R.
- Blake, William Phipps.** see also Hitchcock, Charles H.
- 1893. Wisconsin lead and zinc deposits (with discussion by J.F. Kemp and T.C. Chamberlin): G.S.A., Bull., v. 5, p. 25-32; (abs.) Am. Jour. Sci., v. 46 (3) p. 306.
- 1894a. Discussion on genesis of ore deposits: Am. Inst. Mining Eng., Trans., v. 23, p. 587.
- 1894b. Discussion on lead and zinc deposits of the Mississippi Valley: Am. Inst. Mining Eng., Trans., v. 22, p. 621-634.
- 1894c. The mineral deposits of southwest Wisconsin: Am. Inst. Mining Eng., Trans., v. 22, p. 558-568; Am. Geologist, v. 12, p. 237-248, 1893.
- 1894d. Trilobites in the "oil-rock" horizon of the Trenton limestones (Wis.): Am. Geologist, v. 14, p. 133-134.
- Blanchard, Frank Nelson.** 1961. Drift analysis as a guide to the character of the bedrock in Oneida Co., Wisconsin (abs.): Dissert. Abs., v. 21, no. 8, p. 2245.
- Blanchard, William O.** 1922. Man and topography in southwestern Wisconsin: Ill. St. Acad. Sci., Trans., v. 15, p. 393-395.
- 1924. The geography of southwestern Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 65 (ed. ser. 8) 117 p.
- Blandy, John F.** see Williams, Charles R.
- Bleuer, Ned Kermit.** 1970. Glacial stratigraphy of south-central Wisconsin in Pleistocene geology of southern Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ. no. 15 (part J) 35 p., illus.
- 1971. Glacial stratigraphy of south-central Wisconsin: Dissert. Abs. Internat., Sec. B, v. 32, no. 2, p. 1019B-1020B.
- Bliss, J.S.** 1866. Notes on Wisconsin drift: Am. Jour. Sci., v. 41, p. 255.
- Boardman, Leona; Young, Ruth Celeste.** 1953. Geologic map index of Wisconsin: U.S.G.S. Index Geol. Mapping U.S., scale: 1:750,000.
- Boerick, W.F.; Garnett, T.H.** 1919. The Wisconsin zinc district: Am. Inst. Mining and Met. Eng., Bull., no. 152, p. 1213-1235, illus.; Trans., v. 63, p. 213-243, illus., 1920; Am. Inst. Mining and Met. Eng., Bull., no. 157, p. 68-71, 1920.
- Bomke, D.** see Klasner, J.S.
- Bonsteel, Jay A.** 1902. Soil survey of the Janesville area, Wisconsin: U.S.D.A., Bur. Soils, Field operations 1902, p. 549-570, illus., map.
- Books, Kenneth G.** 1968. Magnetization of the lowermost Keweenaw lava flows in the Lake Superior area: U.S.G.S., Prof. Paper 600-D, p. D248-D254, illus.
- 1972. Paleomagnetism of some Lake Superior Keweenaw rocks: U.S.G.S., Prof. Paper 760, 42 p., illus.
- Books, Kenneth G.; Green, John C.** 1972. Further paleomagnetic data for Keweenaw rocks in the western Lake Superior area (abs.): G.S.A., Abs. with Programs, v. 4, no. 7, p. 454.
- Books, Kenneth G.; White, Walter S.; Beck, Myrl E., Jr.** 1966. Magnetization of Keweenaw gabbro in northern Wisconsin and its relation to time of intrusion: U.S.G.S., Prof. Paper 550-D, p. D117-D124, maps; (abs.) U.S.G.S., Prof. Paper 525-A, p. A81, 1965.
- Borchardt, G.A.; Hole, Francis D.; Jackson, Marion L.** 1968. Genesis of layer silicates in representative soils of a glacial landscape of southeastern Wisconsin: Soil Sci. Soc. Am., Proc., v. 32, no. 3, p. 399-403, illus., tables; (abs.) Abs. North Am. Geol., p. 1778, Dec.
- Bordner, John S. (and others).** 1932. Land economic inventory of northern Wisconsin, Sawyer County: Wis. Dept. Ag. and Markets, Bull., no. 138, 70 p., illus., map.
- 1933. Land economic inventory of northern Wisconsin, Douglas County: Wis. Dept. of Agr. and Markets, Bull., no. 146, 71 p., illus.
- 1934. Land economic inventory of Juneau County: Wis. Div. Land Economic Inventory, Bull. 1, 52 p., illus.
- 1935. Land economic inventory of Rusk County: Wis. Div. Land Economic Inventory, Bull. 2, 52 p., illus.
- Bordner, John S.** 1939. Inventory of northern Wisconsin lakes: Wis. State Planning Board, Div. Land Economic Inventory, Bull., no. 5, 67 p., illus.
- 1942. Inventory of northern Wisconsin lakes: Wis. Dept. Agr., Div. Land Economic Inventory, Bull., no. 228, 104 p., illus.
- 1945. Inventory of Wisconsin lakes: Wis. Dept. Agr., Div. Land Economic Inventory and Land Use, Bull., no. 261, 70 p., illus.
- Bordner, John S.; Morris, William W.** 1931. Land economic inventory of northern Wisconsin, Vilas County: Wis. Dept. Ag. and Markets, Bull., no. 123, 135 p., tables.
- Bordner, John S.; Morris, William W.; Hilburn, Earl W.** 1936. Land economic inventory of Waushara, Racine, and Kenosha Counties: Wis. Div. Land Economic Inventory, Bull. 4, 32 p., illus.
- Bork, Kennard B.; Perry, T.G.** 1967. Bryozoa (Ectoprocta) of Champlainian age (Middle Ordovician) from northwestern Illinois and adjacent parts of Iowa and Wisconsin—pt. 1, "Amplexopora, Monotrypella, Hallopora, and Batostoma": Jour. Paleontology, v. 41, no. 6, p. 1365-1392, illus.; (abs.) Abs. North Am. Geol., p. 625, 1968.
- 1968a. Bryozoa (Ectoprocta) of Champlainian age (Middle Ordovician) from northwestern Illinois and adjacent parts of Iowa and Wisconsin—pt. 2, "Bythotrypa, Diplotrypa, Hemiphragma, Heterotrypa, Stigmatella, Eridotrypa, and Nicholsonella": Jour. Paleontology, v. 42, no. 2, p. 337-355, illus., tables.
- 1968b. Bryozoa (Ectoprocta) of Champlainian age (Middle Ordovician) from northwestern Illinois and adjacent parts of Iowa and Wisconsin—pt. 3, "Homotrypa, Orbignyella, Prasopora, Monticulipora, and Cyphotrypa": Jour. Paleontology, v. 42, no. 4, p. 1042-1065, illus., tables; (abs.) Abs. North Am. Geol., p. 661, May 1969; Dissert. Abs. Internat., v. 28, sec. B, no. 7, p. 2898B-2899B.
- Borman, Ronald G.** see also Hindall, Stephen M.
- see also Olmstead, Robert
- see also Skinner, Earl L.
- see also Young, Harley L.
- 1975. Ground-water hydrology and geology near the July 1974 phenol spill at Lake Beulah, Walworth Co., Wisconsin: Wis. Geol. and Nat. History Survey, Rpt. No. 4, 13 p., illus.
- 1976a. Ground-water resources and geology of St. Croix Co., Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ. 32, 30 p., illus., map.
- 1976b. Ground-water resources and geology of Walworth Co., Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ. 34, 45 p., illus., map.
- Borman, Ronald G.; Trotta, Lee C.** 1976. Ground-water resources and geology of Jefferson Co., Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ. 33, 31 p., illus., map.
- Born, S.M. (and others).** 1972. Chippewa Flowage investigations: Upper Great Lakes Regional Commission, Inland Lakes Demonstration Project, 3 parts, separate paging, illus., maps.
- Born, S.M.; Smith, S.A.; Stephenson, David A.** 1974. Hydrogeologic regime of glacial-terrain lakes: Madison, Upper Great Lakes Regional Commission, 73 p., illus.
- Born, S.M.; Stephenson, David A.** 1974. Environmental geologic aspects of planning, constructing, and regulating recreational land developments: Madison, Upper Great Lakes Regional Commission, 39 p., illus., maps.

- Bortleson, Gilbert Carl.** 1971. The chemical investigation of Recent lake sediments from Wisconsin lakes and their interpretation: U.S. Environ. Protection Agency (Water Pollution Control Res. Ser.) no. 16010EHR, 259 p., illus.
- Bortleson, Gilbert Carl; Lee, G. Fred.** 1972. Recent sedimentary history of Lake Mendota, Wisconsin: *Env. Sci. and Technology*, v. 6, p. 799-808, illus.
- 1974. Phosphorus, iron and manganese distribution in sediment cores of six Wisconsin lakes: *Limnology and Oceanography*, v. 19, no. 5, p. 794-801; (abs.) *Geo Abstracts, E, Sedimentology*, v. 3, p. 239, 1975.
- Bottino, M.L.; Schnetzler, C.C.; Odum, I. Edgar.** 1973. Trace element and age study of authigenic feldspar (abs.): *EOS (Am. Geophys. Union, Trans.)* v. 54, no. 4, p. 502.
- Boucher, Francis R.; Lee, G. Fred.** 1972. Adsorption of lindane and dieldrin pesticides on unconsolidated aquifer sands: *Env. Sci. and Technology*, v. 6, no. 6, p. 538-543, illus.
- Bouma, Johannes.** *see also* Anderson, J.L.
- *see also* Denning, J.L.
- *see also* Veneman, Petrus L.M., Jr.
- Bouma, Johannes (and others).** 1972. Soil absorption of septic tank effluent; a field study of some major soils in Wisconsin: *Wis. Geol. and Nat. History Survey, Inf. Circ. 20*, 235 p., illus., tables.
- Bouma, Johannes; Baker, F.G.; Veneman, Petrus L.M., Jr.** 1974. Measurement of water movement in soil pedons above the water table: *Wis. Geol. and Nat. History Survey, Inf. Circ. 27*, 114 p., illus.
- Bouma, Johannes; Hole, Francis D.** 1971. Development of a field procedure for predicting movement of liquid wastes in soils: *Wis. Geol. and Nat. History Survey, Progress Rpt. no. 2*, 163 p.
- Bouma, Johannes; Hole, Francis D.; Hillel, D.I.** 1970. Development of a field procedure for predicting movement of liquid wastes in soils: *Wis. Geol. and Nat. History Survey, Progress Rpt. no. 1*, 110 p.
- Bouma, Johannes; Van Rooyen, D.J.; Hole, Francis D.** 1975. Estimation of comparative water transmission of two adjacent virgin and cultivated pedons in Wisconsin: *Geoderma*, v. 13, p. 73-88.
- Bowser, Carl J.** *see also* Anderson, J.L.
- *see also* Nriagu, Jerome O.
- Bowser, Carl J.; Callender, Edward; Rossmann, Ronald.** 1970. Electron probe and X-ray studies of fresh water ferromanganese nodules from Wisconsin and Michigan (abs.): *G.S.A., Abs. with Programs*, v. 2, no. 7, p. 500-501.
- Bowser, Carl J.; Rossmann, Ronald; Callender, Edward.** 1972. Inter-element geochemistry of Lake Michigan ferromanganese nodules: *Internat. Geol. Congress*, 24th, sec. 10, p. 336-341.
- Braband, Lilla.** 1914. The mineral industries of Wisconsin: *Jour. Geography*, v. 12, no. 8, p. 254-256, illus.
- Bradbury, Leavelva M.** 1923. The geography of Wisconsin: N.Y., McMillan Company, 62 p.
- Bradley, Charles Crane.** 1948. Mendota (Wis.) quake (1/15/48): *Am. Jour. Sci.*, v. 246, no. 6, p. 390, illus.
- Bradley, Frank Howe.** 1861. Trilobites of the Wisconsin "Potsdam": *Am. Jour. Sci.*, v. 31 (2) p. 294-295.
- 1875. Geological chart of the United States east of the Rocky Mountains and of Canada: New York, 16 by 24 inches.
- Bradley, Reta E.** *see* Dutton, Carl E.
- Brar, S.S.** *see* Kline, J.R.
- Brenndecke, F.** 1869. On meteorites; extract from a discourse, February 7, 1869, before the Society of Natural History of Wisconsin: *Smithsonian Inst., Ann. Rpt. 1869*, p. 417-419.
- Bretsky, Peter W.** 1970. Benthic community structure of Middle Ordovician epeiric seas, upper Mississippi Valley (abs.): *G.S.A., Abs. with Programs*, v. 2, no. 7, p. 501.
- Brett, George Wendell.** 1955. Cross-bedding in the Baraboo quartzite of Wisconsin: *Jour. Geol.*, v. 63, no. 2, p. 143-148, illus.
- Bretz, J. Harlen.** 1938. Caves in the Galena Formation: *Jour. Geol.*, v. 46, no. 6, p. 828-841.
- 1942. Vadose and phreatic features of limestone caverns: *Jour. Geol.*, v. 50, no. 6, p. 642, 691-692, 696, 714, 783-787.
- 1950. Glacial Lake Merrimac (Wis.): *Ill. State Acad. Sci., Trans.*, 1950, v. 43, p. 132-136, illus.
- 1951. The stages of Lake Chicago - their causes and correlations: *Am. Jour. Sci.*, v. 249, no. 6, p. 401-429, illus.
- Brewster, Lynn A.** *see* Davis, Ronald B.
- Brezonik, Patrick Lee.** 1968. The dynamics of the nitrogen cycle in natural waters (abs.): *Dissert. Abs. Internat., Sec. B*, v. 29, no. 2, p. 503B.
- Bridge, Josiah.** 1937. The correlation of the Upper Cambrian sections of Missouri and Texas with the section in the upper Mississippi Valley: *U.S.G.S., Prof. Paper 186-L*, p. 233-237; (abs.) *G.S.A., Proc. 1935*, p. 387.
- Briggs, Louis I.** *see* Alling, Harold L.
- Brinsmade, Robert Bruce.** 1908a. The great iron fields of the Lake Superior district: *Mining Science*, v. 58, p. 425-427, 444-446, 465-467, 484-485, 505-507, 528-530; v. 59, p. 127-129, 149-151, 304-306, 325-327, 444-446, map, 1909.
- 1908b. Lead and zinc fields of southwestern Wisconsin: *Mining Science*, v. 58, p. 305-307, 324-325.
- Brock, M.R.** *see* Heyl, Allen Van
- Broderick, Grace N.** 1972. The mineral industry of Wisconsin, 1970: *U.S., Bur. Mines, Minerals Yearbook*, 1970, v. 2, Area reports, domestic, p. 779-789, tables.
- 1973. The mineral industry of Wisconsin, 1971: *U.S., Bur. Mines, Minerals Yearbook*, 1971, v. 2, Area reports, domestic, p. 783-793, tables.
- 1974. The mineral industry of Wisconsin, 1972: *U.S. Bur. Mines, Minerals Yearbook*, 1972, v. 2, Area reports, domestic, p. 769-780.
- 1976. The mineral industry of Wisconsin, 1973: *U.S. Bur. Mines, Minerals Yearbook*, 1973, v. 2, Area reports, domestic, p. 763-776.
- Broecker, Wallace S.** 1963. Preliminary evaluation of uranium series in equilibrium as a tool for absolute age measurement on marine carbonates: *Jour. Geophys. Research*, v. 68, no. 9, p. 2817-2834, illus., tables.
- Broecker, Wallace S.; Farrand, William R.** 1963. Radio-carbon age of the Two Creeks Forest Bed, Wisconsin: *G.S.A., Bull.*, v. 74, no. 6, p. 795-802, illus., tables.
- Brookins, Douglas G.** *see* Chaudhuri, Sambhudas
- Brooks, Thomas Benton.** 1876. On the youngest Huronian rocks south of Lake Superior and the age of the copper-bearing series: *Am. Jour. Sci.*, v. 11 (3) p. 206-211.
- 1880. The geology of the Menominee iron region, east of center of range 17E, Oconto Co., Wisconsin in *Geology of Wisconsin*: *Wis. Geol. Survey*, v. 3, pt. 7, p. 429-599, maps.
- Brooks, Thomas Benton; Pumpelly, Raphael.** 1872. On the age of the copper-bearing rocks of Lake Superior: *Am. Jour. Sci.*, v. 3 (3) p. 428-432.
- Brophy, John A.** *see* Leighton, Morris Morgan
- Broughton, William A.** *see also* Heyl, Allen Van, Jr.
- *see also* Mudrey, Michael G., Jr.
- *see also* Twenhofel, William H.
- 1941. The geology, ground water and lake basin seal of the region south of the Muskellunge Moraine, Vilas County: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 33, p. 5-20, illus.
- Broughton, William A.; LaPaz, Lincoln.** 1962. The Belmont meteorite investigations: *Wis. Academy Review*, v. 9, no. 4, p. 155-157, illus.
- Brown, B.E.; Jackson, Marion L.** 1958. Clay mineral distribution in the Hiawatha sandy soils of northern Wisconsin in Swineford, A., ed., *Clays and clay minerals*: *Natl. Research Council, Pub. 566*, p. 213-226, illus.
- Brown, B.E.; Meitzner, E.H.** 1976. Stratigraphic, mechanical, and mineralogic parameters for the red clay of the Little Balsam Creek area, Douglas Co., Wisconsin (abs.): *G.S.A., Abs. with Programs*, v. 8, no. 4, p. 468.
- Brown, C. Ervin.** *see* Whitlow, Jesse W.
- Brown, Paul N.** *see* Drescher, William James
- *see* Lohr, E.W.
- Bruncken, Ernest.** 1900. Physiographical field notes in the town of Wauwatosa: *Wis. Nat. History Soc., Bull.*, v. 1 (n s) p. 95-99.
- Brune, Gunner Magnus.** 1948. Rates of sediment production in midwestern U.S.: *U.S.D.A., Soil Conservation Service, Tech. Pub. 65 (SCS-TP-65)* p. 1-40, illus.
- 1952. Sediment records in midwestern (north-central) U.S.: *Internat. Union Geol. and Geophys., Assoc. Sci. Hydrology, Gen. Assembly, Brussels, 1951, tome 2*, p. 29-38, illus.
- Bryson, Reid A.** *see also* Bender, Margaret M.
- *see also* Lathbury, Alison
- *see also* Webb, Thompson, III
- Bryson, Reid A.; Bunge, William W., Jr.** 1956. Ice on Wisconsin lakes: *Univ. Wis., Dept. Meteorology, Lake Investigations Com., rpt. 13*, pt. 1; *rpt. 14*, pt. 3; *rpt. 15*, pt. 2, illus.
- Bryson, Reid A.; Wendland, Wayne M.** 1966. Tentative climatic patterns for some late glacial and post-glacial episodes in central North America in Mayer-Oakes, W.J., *Life, land and water, Lake Agassiz region*: *Univ. Manitoba, Dept. Anthro., Occ. Paper no. 1*, p. 271-298.
- Brzozowy, Carl Peter.** 1974. Magnetic and seismic reflection surveys of Lake Superior: *Univ. Wis., Sea Grant College Program, Tech. rpt. 220*, 40 p., illus., maps.
- Buchanan, Rex.** 1978. The Flambeau Anomaly, northern Wisconsin mystery: *Univ. Wis., UIR/Research Newsletter*, v. 12, no. 2, p. 10-11, 30-31.
- Buckley, Ernest Robertson.** 1898. On the building and ornamental stones of Wisconsin: *Wis. Geol. and Nat. History Survey, Bull. 4 (econ. ser. 2)* 544 p., map.
- 1900a. The properties of building-stones and methods of determining their value: *Jour. Geol.*, v. 8, p. 160-185, 333-358.
- 1900b. Results of tests of Wisconsin building stone: *Jour. Geol.*, v. 8, p. 526-567.
- 1901a. The clays and clay industries of Wisconsin: *Wis. Geol. and Nat. History Survey, Bull. 7 (econ. ser. 4)* 304 p., map.
- 1901b. Ice ramparts (with discussion by C.R. Van Hise): *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 13, p. 141-162, illus., tables.
- 1903. Highway construction in Wisconsin: *Wis. Geol. and Nat. History Survey, Bull. 10 (econ. ser. 6)* 339 p., illus., maps.

- Buckstaff, Ralph Noyes.** 1943. A new Wisconsin meteorite (Angelica Tp.): *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 35, p. 99-103, illus.
- 1962. Meteorites: *Wis. Academy Review*, v. 9, no. 4, p. 148-151, illus.
- Buddhue, John Davis.** 1957. Are there ice meteorites?: *Mineralogist*, v. 25, no. 9, p. 294-295.
- Buell, Ira M.** 1882. The corals of Delafield: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 5, p. 185-193.
- 1893. Geology of the Waterloo quartzite area: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 9, p. 255-274.
- 1895. Boulder trains from the outcrops of the Waterloo quartzite area: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 10, p. 485-509, maps.
- Bunge, William W., Jr.** *see* Bryson, Reid A.
- Buol, S.W.** *see also* Hole, Francis D.
- Buol, S.W.; Hole, Francis D.** 1961. Clay skin genesis in Wisconsin: *Soil Sci. Soc. Am., Proc.*, v. 25, p. 377-379.
- Burch, Terrill.** 1972. The morphology of potholes (abs.): *G.S.A., Abs. with Programs*, v. 4, no. 7, p. 461.
- Burchard, Ernest Francis.** *see also* Grant, Ulysses Sherman
- 1906. Glass sand of the middle Mississippi basin: *U.S.G.S., Bull.* 285, p. 459-472.
- Burford, James B.** *see also* Hobbs, Harold W.
- 1971. Hydrologic data for experimental agricultural watersheds in the United States, 1964: *U.S.D.A., Ag. Research Service, Misc. Pub.* no. 194, p. 145-155.
- Burpee, George E.** 1935. Insoluble residues from Wisconsin sedimentary rocks; Pt. 2. Studies of Wisconsin sedimentary rocks, no. 1. Insoluble residues from Wisconsin Silurian dolomites: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 29, p. 260-262, illus.
- Burrell, J.A.** 1977. Distribution, ecology, and taxonomy of Recent freshwater Ostracoda, Lake Mendota, Wisconsin (abs.): *G.S.A., Abs. with Programs*, v. 9, no. 5, p. 579.
- Burt, William A.** 1846. Topography and geology of the Survey, with reference to mines and minerals, of a district of township lines south of Lake Superior in 1845: *U.S., 29th Cong., 1st Sess., Senate Ex. Doc.* 357, p. 2-19.
- Busby, Mark W.** *see* Cline, Denzel R.
- Butterfield, C.W.** 1880. History of Wisconsin in History of Waukesha Co., Wisconsin: Chicago, Western Historical Company, p. 110-120, 162-172, illus.
- Byers, C.W.** *see also* Gavlin, S.
- 1977. Ichnofacies and paleoenvironments in the upper Cambrian sandstones of Wisconsin (abs.): *Jour. Paleontology*, v. 51, no. 2, suppl., pt. III, p. 5.
- Byers, C.W.; Huber, M.E.** 1976. The Eau Claire Formation in Wisconsin, a Cambrian tidal flat (abs.): *G.S.A., Abs. with Programs*, v. 8, no. 4, p. 469.
- Byrd, Mary Frances.** 1955. Potash occurrences in the United States: *U.S.G.S., Mineral Inv. Res. Appraisals Map MR 3*, scale 1:5,000,000, text.
- Byrne, Frank.** 1970. The geological and hydrological characteristics of the Whitewater area, Wisconsin: *Univ. Wis., Water Resources Center, Tech. Rpt. OWRR A-013-WIS*, 92 p.
- Cahoon, Bobby G.** 1967. Wallrock alteration at the Temperly-Thompson deposit, upper Mississippi Valley lead-zinc district, Wisconsin (abs.): *Econ. Geology*, v. 62, no. 6, p. 868; *G.S.A., Sp. Paper* 115, p. 31-32, 1968.
- Cahow, Adam Clifford.** 1976. Glacial geomorphology of the southwest segment of the Chippewa Lobe moraine complex, Wisconsin: *Dissert. Abs. Internat., Sec. B*, v. 37, no. 6, p. 2732.
- Cain, James Allan.** *see also* Banks, Philip O.
- Cain, James Allan.** 1961. Precambrian granite complex of northeastern Wisconsin (abs.) in *Inst. Lake Superior Geology*, 7th Ann., 1961: Port Arthur, Ontario, Canadian Inst. Mining and Metallurgy, Lakehead Br., p. 6.
- 1962. Petrology of a Precambrian pluton near Pembine, Wisconsin (abs.) in *Inst. Lake Superior Geology*, 8th Ann., 1962: Houghton, Mich., Michigan College Mining and Tech., p. 5.
- 1963a. Correlations among mineralogical and specific gravity data from a granodiorite pluton: *Ohio Jour. Sci.*, v. 63, no. 5, p. 210-214, tables.
- 1963b. Precambrian granitic complex of northeastern Wisconsin (abs.): *Dissert. Abs.*, v. 23, no. 9, p. 3318.
- 1963c. Some problems of the Precambrian geology of northeastern Wisconsin - a review: *Ohio Jour. Sci.*, v. 63, no. 1, p. 7-14, illus., tables.
- 1964a. Areal variability of specific gravity data from a granodiorite pluton: *Am. Jour. Sci.*, v. 262, no. 4, p. 532-540, illus.
- 1964b. Precambrian geology of the Pembine area, northeastern Wisconsin: *Michigan Acad. Sci., Arts and Letters, Papers*, v. 49, p. 81-103, illus.
- 1964c. Rapakivi-type granites of the Arberg area, Wisconsin (abs.) in *Inst. Lake Superior Geology*, 10th Ann., 1964: Ishpeming, Mich., Marquette Range Comm., p. 32.
- 1966. Investigations in part of the Wisconsin batholith, northeastern Wisconsin (abs.): *G.S.A., Sp. Paper* 87, p. 24-25.
- Cain, James Allan; Beckman, Walter A., Jr.** 1964. Preliminary report on the Precambrian geology of the Athelstane area, northeastern Wisconsin: *Ohio Jour. Sci.*, v. 64, no. 1, p. 57-60, illus.
- Cain, John M.; Beatty, Marvin T.** 1968. The use of soil maps in the delineation of flood plains: *Water Resources Research*, v. 4, no. 1, p. 173-182.
- Cain, Stanley Adair.** 1943. A note on "Fossil evidence of wider post-Pleistocene range for butternut and hickory in Wisconsin": *Rhodora*, v. 45, no. 531, p. 107-109.
- Caine, Thomas A.; Lyman, W.S.** 1905. Soil survey of the Superior area, Wisconsin-Minnesota: *U.S.D.A., Bur. Soils*, 22 p., maps.
- Callender, Edward.** *see also* Bowser, Carl J.
- *see also* Edgington, David N.
- *see also* Rossmann, Ronald
- 1969. Geochemical characteristics of Lakes Michigan and Superior sediments: *Internat. Assoc. Great Lakes Research*, 12th Conf. Proc., p. 124-160, illus., map.
- 1972. Sedimentary geochemical processes in Green Bay, Lake Michigan: *Internat. Assoc. Great Lakes Research*, 15th Conf. Proc., p. 134.
- Callender, Edward; Rossmann, Ronald.** 1970. Sedimentary geochemistry of Green Bay, Lake Michigan (abs.): *G.S.A., Abs. with Programs*, v. 2, no. 7, p. 513-514.
- Calvert, Warren L.** 1962. Sub-Trenton rocks from Lee Co., Virginia, to Fayette Co., Ohio: *Ohio Geol. Survey, Rpt. Inv.* no. 45, 57 p.
- Cameron, Eugene N.** *see* Bailey, Sturges W.
- *see* Roder, D.L.
- *see* Stuhr, S.W.
- Cannard, R.E.** *see* Walter, Earl
- Cannon, W.F.** *see also* Prinz, William C.
- 1978. A middle and late Precambrian fault system in northern Wisconsin and northern Michigan (abs.) in *Inst. Lake Superior Geology*, 24th Ann., 1978, *Abs. and Proc.: Univ. Wis., Milwaukee*, p. 8.
- Cannon, W.F.; Gair, J.E.** 1970. A revision of stratigraphic nomenclature for Middle Precambrian rocks in northern Michigan: *G.S.A., Bull.*, v. 81, p. 2843-2846, illus.
- Carey, Everett P.** 1896. Ice phenomena in Green Bay, Lake Michigan (abs.): *Science*, v. 3, (n s) no. 71, p. 715-716.
- Carey, Kevin L.** 1966. Observed configuration and computed roughness of the underside of river ice, St. Croix River, Wisconsin: *U.S.G.S., Prof. Paper* 550-B, p. B192-B198, illus., table.
- 1967a. Analytical approaches to computation of discharge of an ice-covered stream: *U.S.G.S., Prof. Paper* 575-C, p. C200-C207, illus., tables.
- 1967b. The underside of river ice, St. Croix River, Wisconsin: *U.S.G.S., Prof. Paper* 575-C, p. C195-C199, illus., table; (abs.) *Abs. North Am. Geol.*, p. 16, 1968.
- Carlson, B.A.** 1974. A gravity study of the geology of northeastern Wisconsin: *Dissert. Abs. Internat., Sec. B*, v. 36, no. 1, p. 139.
- Carlson, B.A.; Hinz, William James.** 1974. Gravity correlations with rock types in northeastern Wisconsin (abs.) in *Inst. Lake Superior Geology*, 20th Ann., *Abs. and Field Guides: Sault Ste. Marie, Ontario, Sault College Applied Arts and Tech.*, p. 8.
- Carlson, Charles Gordon.** 1920. A test of the feldspar method for the determination of the origin of metamorphic rocks: *Jour. Geol.*, v. 28, no. 7, p. 632-642, tables.
- Carlson, Harland; Andrews, Lloyd M.; Threinen, C.W.** 1971. Surface water resources of Florence County: *Wis. Dept. Nat. Resources, Lake and stream classification project*, 89 p., maps.
- Carlson, John E.** 1961. Geology of the Montfort and Linden quadrangles, Wisconsin: *U.S.G.S., Bull.* 1123-B, p. 95-138, illus., map.
- Carlson, Robert F. (and others).** 1968. Hydrology and reservoir control on the Wisconsin River basin: *Wis. Dept. Nat. Resources, Div. Env. Protection*, paged separately.
- Carlston, Charles W.** 1964. Tritium-hydrologic research - some results of the U.S. Geological Survey research program: *Science*, v. 143, no. 3608, p. 804-806, illus.
- Carozzi, Albert V.** *see also* Soderman, Jarmo Georg William
- Carozzi, Albert V.; Davis, Richard A., Jr.** 1964. Petrographic and paleoecologic d'une serie de dolomies a stromatolithes de l'Ordovicien inferieur du Wis., U.S.A. (with English abs.): *Archives des Sci.*, v. 17, no. 1, p. 46-63, illus.
- Carter, D.B.** *see* Thornthwaite, C.W.
- Carter, Stuart L.** *see* Twenhofel, William Henry
- Cartwright, William H.** *see* Holt, Charles Lee Roy, Jr.
- Carver, Jonathan.** 1838. Travels through the interior parts of North America in the years 1766, 1767, and 1768: London, 1778, 1781; reprinted as *Travels in Wisconsin*, from the 3d London edition, New York, 362 p.
- Case, Ermine Cowles.** 1906. A peculiar formation of shore ice: *Jour. Geol.*, v. 14, p. 134-137.
- 1907a. Description of models illustrating the physical geography of Wisconsin: *Milwaukee State Normal School, Bull.*, v. 3, p. 1-19.

- 1907b. Wisconsin; its geology and physical geography; a popular account of the natural features and climate of the state: Milwaukee, Hendee, Bamford, and Crandall Co., 197 p.
- Casper, Cheri** *see* Ehr, Bob
- Cayeux, L.** 1911. Existence de restes organiques dans les roches ferrugineuses associees aux mineraux de fer huroniens des Etats-Unis: Academie du Sciences, Paris, *Compte Rendu* 153, p. 910-912.
- Chalk, P.M.; Keeney, Dennis R.** 1971. Nitrate and ammonium contents of Wisconsin limestones: *Nature*, v. 229, no. 5279, p. 42.
- Chamberlin, Rollin Thomas.** 1905. The glacial features of the St. Croix Dalles region: *Jour. Geol.*, v. 13, no. 3, p. 238-256, maps.
- 1910. Older drifts in the St. Croix region: *Jour. Geol.*, v. 18, p. 542-548.
- 1935. Certain aspects of geologic classifications and correlations: *Science*, v. 81, no. 2095, p. 183-190; no. 2096, p. 215-218.
- Chamberlin, Thomas Chrowder (and others).** 1877-1883. Geology of Wisconsin, Survey of 1873-1879: Madison, Wis. Geol. Survey, v. 1, 701 p., 1883; v. 2, 752 p., 1877; v. 3, 741 p., 1880; v. 4, 754 p., 1882, atlas.
- Chamberlin, Thomas Chrowder (and others).** 1877-1882. Atlas of the geological survey of Wisconsin, accompanying Geology of Wisconsin Survey of 1873-1879: Milwaukee, Milwaukee Litho. & Engr. Co., bound in folio, scale 1 in = 3 mi., 42 pls.
- Chamberlin, Thomas Chrowder.** *see also* Irving, Roland Duer
- 1874a. On fluctuations in level of the quartzites of Sauk and Columbia Counties: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 2, p. 133-138.
- 1874b. Soils of eastern Wisconsin: *Wis. State Agr. Soc., Trans.*, v. 13, p. 309-18.
- 1874c. Some evidence bearing upon the method of the upheaval of the quartzites of Sauk and Columbia Counties: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 2, p. 129-132, illus.
- 1877-1878. The natural agricultural resources of the Fox River Valley: Northern Wis. Agricultural and Mechanical Assoc., *Trans.*, v. 5, p. 108-123.
- 1877a. Geology of eastern Wisconsin in *Geology of Wisconsin*: *Wis. Geol. Survey*, v. 2, pt. 2, p. 91-405, maps (in atlas); (abs.) *Am. Jour. Sci.*, v. 15 (3) p. 62-64, 1878.
- 1877b. Lists of fossils from the Silurian of Wisconsin in *Geology of Wisconsin*: *Wis. Geol. Survey*, v. 2, pt. 2, p. 320-326, 340, 350, 352-353, 372-377, 379-380, 384-389.
- 1877c. Description of "Rhynchodus exacavatus" Newberry in *Geology of Wisconsin*: *Wis. Geol. Survey*, v. 2, p. 396-397.
- 1878a. The Kettle Moraine of the Great Lakes district of North America: Paris, 20 p., map.
- 1878b. The terminal moraine of the second glacial epoch: U.S.G.S., 3d Ann. Rpt., p. 315-326, 381-388, illus.
- 1878c. Topography and geology of Wisconsin: Milwaukee, Snyder, Van Vechten and Co.'s Atlas, p. 15, 148-151, map.
- 1879a. Annual report of the Wisconsin Geological Survey for the year 1878: Madison, Wis. Geol. Survey, 52 p.
- 1879b. On the extent and significance of the Wisconsin kettle moraine: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 4, p. 201-234, map.
- 1880a. Annual report of progress and results of the Wisconsin Geological Survey for the year 1879: Madison, Wis. Geol. Survey, 72 p.
- 1880b. Le Kettle moraine et les mouvements glaciaires qui lui ont donne naissance: *Internat. Geol. Cong., Paris 1878, Compte Rendu*, p. 254-268, map.
- 1882a. The bearing of some recent determinations on the correlation of the eastern and western terminal moraines: *Am. Jour. Sci.*, v. 24 (3) p. 93-97.
- 1882b. Observations on the recent glacial drift of the Alps: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 5, p. 258-270; (abs.) *Am. Jour. Sci.*, v. 25 (3) p. 233, 1883.
- 1882c. The ore deposits of southwestern Wisconsin in *Geology of Wisconsin*: *Wis. Geol. Survey*, v. 4, pt. 4, p. 365-571, illus., maps; (abs.) *Am. Jour. Sci.*, v. 27 (3) p. 148-149, 1884.
- 1883a. Artesian wells in *Geology of Wisconsin*: *Wis. Geol. Survey*, v. 1, pt. 3, chap. 6, p. 689-701, illus.
- 1883b. Building material in *Geology of Wisconsin*: *Wis. Geol. Survey*, v. 1, pt. 3, chap. 4, p. 663-677.
- 1883c. Chemical geology in *Geology of Wisconsin*: *Wis. Geol. Survey*, v. 1, pt. 1, chap. 1, p. 3-12.
- 1883d. The copper bearing series of Lake Superior: *Science*, v. 1, p. 453-455.
- 1883e. Economic suggestions in regard to copper, silver, and other ores in *Geology of Wisconsin*: *Wis. Geol. Survey*, v. 1, pt. 3, chap. 3, p. 656-701.
- 1883f. General geology in *Geology of Wisconsin*: *Wis. Geol. Survey*, v. 1, pt. 1, p. 1-300, map; (abs.) *Am. Jour. Sci.*, v. 27 (3) p. 147-148, 1884; *Am. Nat.*, v. 18, p. 163-164, 1884; *Science*, v. 5, p. 428-429, 1885.
- 1883g. Historical geology in *Geology of Wisconsin*: *Wis. Geol. Survey*, v. 1, pt. 1, chap. 3-16, p. 45-300, illus.
- 1883h. Lithological geology in *Geology of Wisconsin*: *Wis. Geol. Survey*, v. 1, pt. 1, chap. 2, p. 13-44.
- 1883i. Preliminary paper on the terminal moraine of the second glacial epoch: U.S.G.S., 3d Ann. Rpt., p. 291-402, maps.
- 1883j. Soils and subsoils of Wisconsin in *Geology of Wisconsin*: *Wis. Geol. Survey*, v. 1, pt. 3, chap. 5, p. 678-688, map.
- 1883k. The terminal moraine west of Ohio: *Science*, v. 2, no. 31, p. 317-318.
- 1884a. Hillocks of angular gravel and disturbed stratification: *Am. Jour. Sci.*, v. 27 (3) p. 378-390.
- 1884b. Report (on progress of work on Quaternary geology): U.S.G.S., 4th Ann. Rpt., 1882-83, p. 23-27.
- 1884c. The terminal moraines of the later epoch (abs.): *Am. Assoc. Adv. Sci., Proc.*, v. 32, p. 211-212.
- 1885a. Report (on the work on Quaternary geology): U.S.G.S., 5th Ann. Rpt., 1883-1884, p. 20-24.
- 1885b. Report on glacial division: U.S.G.S., 6th Ann. Rpt., 1884-85, p. 33-40.
- 1887. An inventory of our glacial drift: *Am. Assoc. Adv. Sci., Proc.*, v. 35, p. 195-211; (abs.) *Science*, v. 8, p. 156-159, 1886.
- 1888a. Report of division of glacial geology: U.S.G.S., 7th Ann. Rpt., 1885-1886, p. 76-85; 8th Ann. Rpt., pt. 1, p. 141-144, 1889; 9th Ann. Rpt., p. 84-87, 1889; 10th Ann. Rpt., pt. 1, p. 21, 1890; 11th Ann. Rpt., pt. 1, p. 74-76, 1891; 12th Ann. Rpt., pt. 1, p. 89, 1891; 13th Ann. Rpt., pt. 1, p. 121-122, 1892; 14th Ann. Rpt., pt. 1, p. 193-194, 1893; 15th Ann. Rpt., p. 179-180, 1895.
- 1888b. The rock scorings of the great ice invasions: U.S.G.S., 7th Ann. Rpt. 1885-1886, p. 155-248, map.
- 1891. The attitude of the eastern and central portions of the United States during the glacial period: *Am. Geologist*, v. 8, p. 233, 267-275.
- 1893a. The horizon of drumlin, osar, and kame formation: *Jour. Geol.*, v. 1, no. 3, p. 255-267; (abs.) *Am. Geologist*, v. 12, p. 122-123.
- 1893b. Some questions respecting glacial phenomena about Madison Wisconsin (abs.): *Am. Geologist*, v. 12, p. 176.
- 1894a. Discussion on Wisconsin lead and zinc deposits: *G.S.A.*, v. 5, p. 32.
- 1894b. Glacial phenomena of North America in *Geikie, James, The great ice age: 3d ed.*, chap. 41, p. 724-774.
- Chamberlin, Thomas Chrowder; Irving, Roland Duer; Strong, Moses.** 1879. Wisconsin (geological formations): Macfarlane's Am. Geol. Railway Guide, p. 139-144; 2d ed., p. 223-232, 1890.
- Chamberlin, Thomas Chrowder; Irving, Roland Duer; Van Hise, Charles Richard.** 1888. The crystalline schists of the Lake Superior district: *Internat. Geol. Cong.*, 4th, London, *Compte Rendu*, p. 156-70; London, 1891.
- Chamberlin, Thomas Chrowder; Salisbury, Rollin Duer.** 1885. Preliminary paper on the driftless area of the upper Mississippi Valley: U.S.G.S., 6th Ann. Rpt., 1884-85, p. 199-322, illus.; (abs.) *Science*, v. 10, p. 306-307, 1887.
- Champion, W.A.** *see* Dendy, F.E.
- Chang, L.L.Y.** *see* Meyers, D.
- Chase, W.J.; Noland, L.E.** 1927. The history and hydrography of Lake Ripley (Jefferson Co., Wisconsin): *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 23, p. 179-186.
- Chaudhuri, Sambhudas.** 1972. Radiometric ages of Keweenaw intrusions and extrusions in Michigan and adjacent areas (abs.): *G.S.A., Abs. with Programs*, v. 4, no. 7, p. 440.
- 1976. Keweenaw geochronology, rubidium-strontium and potassium-argon results: *EOS (Am. Geophys. Union, Trans.)* v. 57, no. 2, p. 84.
- Chaudhuri, Sambhudas; Brookins, Douglas G.** 1969. Rb-Sr ages of Late Precambrian rocks of Wisconsin (abs.): *G.S.A., Abs. with Programs*, pt. 7, p. 32.
- Chaudhuri, Sambhudas; Brookins, Douglas G.; Faure, G.** 1969. Rubidium-strontium ages of Keweenaw intrusions near Mellen and South Range in Wisconsin (abs.) in *Inst. Lake Superior Geology, 15th Ann.*, 1969, Tech. Sess. Abs.: *Wis. State Univ.-Oshkosh, Dept. Geology*, p. 10.
- Cheetham, Robert N.** *see also* Marter, Joseph H.
- 1969. Comparative methods of determining cropland soil losses in Iowa County, Wisconsin: U.S.D.A., Southeast Wisconsin Rivers Basin, Technical Rpt. 2, 54 p.
- 1973. Erosion and sedimentation in the southeast Wisconsin rivers basin: U.S.D.A., Southeast Wisconsin Rivers Basin, Ref. Rpt. 9, 109 p.
- Cheetham, Robert N.; Ahl, L.M.** 1978. Erosion and sedimentation in Wisconsin counties with drainage to the Mississippi River and to the Wisconsin River below Prairie du Sac dam: U.S.D.A., Soil Conservation Service, Ref. Rpt. no. 4, 135 p., illus.
- Cheetham, Robert N.; Wilke, Robert F.** 1969. The watersheds and Green Bay shore drainage of Brown Co., Wisconsin: U.S.D.A., Soil Conservation Service, Southeastern Wisconsin Rivers Basin, Tech. rpt. no. 3, 54 p.
- 1976. Sedimentation in Birch Lake, Iowa Co., Wisconsin: Fed. Inter-Agency Sediment Conf., Proc., no. 3, p. 1.110-1.122, illus., tables, map.
- Cheney, Lellen S.** 1930. Wisconsin fossil mosses: *Bryologist*, v. 33, no. 5, p. 66-68.
- 1931. More fossil mosses from Wisconsin: *Bryologist*, v. 34, no. 6, p. 93-94.

- Cherkauer, Douglas S.** 1975. The hydrologic response of small watersheds to suburban developments, observations and modeling: Am. Water Res. Assoc., Proc., no. 20, p. 110-119, illus., map.
- 1976. The hydrologic impact of the urban lake (abs.): G.S.A., Abs. with Programs, v. 8, no. 4, p. 471-472.
- Cherkauer, Douglas S.; Rose, James; Taylor, Robert W.** 1977. Environmental field trip in Nelson, Katherine G., ed., *Geology of Southwestern Wisconsin*: Wis. Geol. and Nat. History Survey, 41st Ann. Tri-State Field Conf. Guidebook, trip 4, p. D1-D15.
- Chesters, Gordon.** see DeMumbrum, L.E.
- see Keeney, Dennis R.
- see Konrad, John G.
- see Petersen, G.W.
- Chicago and Northwestern Railway Company.** 1913. Iron ranges and copper country in Michigan, Wisconsin, and Minnesota: Chicago, colored map.
- Christensen, B.I.; Lipsey, D.A.; Place, J.T.** 1976. The geology of Crystal Cave (abs.): Univ. Wis., Milwaukee, First annual student conf. in earth science, unpag.
- Churchill, Warren S.** see O'Donnell, D. John
- Ciolkosz, Edward John.** 1965. Peat mounds of south-eastern Wisconsin: Soil Survey Horizons, v. 6, no. 2, p. 15-17.
- 1968. I, The mineralogy and genesis of the Dodge catena of southeastern Wisconsin, II, Rhizosphere weathering and synthesis of soil minerals (abs.): Dissert. Abs., Sec. B, v. 28, no. 11, p. 4380B.
- Claflin, T.O.** 1977. Regression model of a navigation pool, upper Mississippi River (abs.): G.S.A., Abs. with Programs, v. 9, no. 5, p. 583.
- Clark, A.C.** 1878. Work in north central Wisconsin: Wis. Geol. Survey, Ann. Rpt. 1877, p. 41-43; Wis. Geol. Survey, Ann. Rpt. 1876, p. 23-25, 1877.
- 1882. Superficial geology of the upper Wisconsin Valley in Geology of Wisconsin: Wis. Geol. Survey, v. 4, pt. 8, p. 715-723.
- Clark, David L.** 1971. Conodonts and biostratigraphy of the Wisconsin Paleozoic: Wis. Geol. and Nat. History Survey, Inf. Circ. 19, 151 p., illus., tables.
- 1972. Conodont paleoecology (abs.): G.S.A., Abs. with Programs, v. 4, no. 5, p. 312.
- Clarke, Frank Wigglesworth.** 1900. Analyses of rocks from the laboratory of the U.S.G.S., 1880-99: U.S.G.S., Bull. 168, p. 73-76, 264, 285, 297.
- 1904. Analyses of rocks from the laboratory of the U.S.G.S., 1880-1903: U.S.G.S., Bull., v. 228 (D26, E40) p. 82, 85, 317, 345, 360.
- 1908. The data of geochemistry: U.S.G.S., Bull., 330, 716 p., 2d ed., Bull. 491, 782 p., 1911; 3d ed., Bull. 616, 821 p., 1916; 4th ed., Bull. 695, 832 p., 1920; 5th ed., Bull. 770, 841 p., 1924.
- 1910. Analyses of rocks and minerals from the laboratory of the U.S.G.S., 1800-1908: U.S.G.S., Bull. 419, p. 48-50, 182, 198, 215, 225.
- 1915. Analyses of rocks and minerals from the laboratory of the U.S.G.S., 1880 to 1914: U.S.G.S., Bull. 591, p. 67, 218, 235, 254, 265.
- 1924. The composition of the river and lake waters of the United States: U.S.G.S., Prof. Paper 135, p. 11-14, 61-64, tables.
- Clarke, Frank Wigglesworth; Hillebrand, W.F.** 1897. Analyses of rocks, from the laboratory of the U.S.G.S., 1880-1896: U.S.G.S., Bull. 148, 306 p., tables.
- Clarke, John M.** see also Hall, James
- 1897a. The lower Silurian cephalopoda of Minnesota: Geol. Minn., v. 3, pt. 2, chap. 9, p. 782, 788-792, 794-807, 810-811, illus.
- 1897b. The lower Silurian trilobites of Minnesota: Geol. Minn., v. 3, pt. 2, chap. 8, p. 706, 710, 714-721, 739-40, illus.
- Clay, C.S.** see Kan, Tze-Kong
- see Sternberg, Ben K.
- Claypole, Edward Walter.** 1878. On the pre-glacial geography of the region of the Great Lakes: Canadian Nat., v. 8 (n s) no. 4, p. 200-202.
- Clayton, R.N.** see James, Harold L.
- Cleland, Herdman Fitzgerald.** 1907. Restoration of certain Devonian cephalopods, with description of new species: Jour. Geol., v. 15, p. 459-469, illus.
- 1909. Some features of the Wisconsin middle Devonian (abs.): Science, v. 29 (n s) p. 637; G.S.A., Bull., v. 20, p. 701, 1910.
- 1911. The fossils and stratigraphy of the middle Devonian of Wisconsin: Wis. Geol. and Nat. History Survey, Bull., 21 (sci. ser. 6) 222 p., illus., map.
- Clement, George Muller.** see also Atwater, Gordon Ingham
- 1935. Paleozoic stratigraphy and structure on St. Croix River (abs.): G.S.A., Proc. 1933, p. 383-384; Iowa Univ., Studies in Nat. History, v. 16, no. 6, p. 473-496, illus., map.
- Cline, Denzel R.** 1965. Geology and ground-water resources of Dane Co., Wisconsin: U.S.G.S., Water-Supply Paper 1779-U, p. U1-U64, illus., tables.
- Cline, Denzel R.; Busby, Mark W.** 1963. Hydrology of upper Black Earth Creek basin, Wisconsin: U.S.G.S., Water-Supply Paper 1669-C, p. C1-C27, illus., tables, maps.
- Cline, Lewis M.** see also Ostrom, Meredith E.
- Cline, Lewis M.; Tyler, Stanley Allen; Black, Robert Foster.** 1959. Southwestern Wisconsin: Tri-State Geological Field Conference, 23d Ann., Guidebook, Univ. Wis., Dept. Geology, 23 p., illus., map.
- Clocker, Carl L.; Patzer, Robert A.** 1978. Soil survey of Dane Co., Wisconsin: U.S.D.A., Soil Conservation Service, 193 p., illus., maps.
- Cloud, Preston Ercelle, Jr.** 1941. Color patterns in Devonian terebratuloids: Am. Jour. Sci., v. 239, no. 12, p. 905-907, illus.
- 1942. Terebratuloid brachiopoda of the Silurian and Devonian: G.S.A., Sp. Paper 38, 182 p., illus.
- Coe, Ann C.; Conant, Louis C.; Drakoulis, Sophie.** 1955(1956). Oil and gas fields of the United States: U.S.G.S., scale 1:2,500,000, 2 sheets.
- Cohee, George Vincent (and others).** 1962. Tectonic map of the United States: U.S.G.S., Am. Assoc. Pet. Geol., scale 1:2,500,000.
- Cohee, George Vincent.** 1945a. Geology and oil gas possibilities of Trenton and Black River limestones of the Michigan basin, Michigan and adjacent areas: U.S.G.S., Oil and gas investigations prelim. charts no. 11, scale 1:4,752,000, text.
- 1945b. Sections and maps of Lower Ordovician and Cambrian rocks in the Michigan basin, Michigan and adjoining areas: U.S.G.S., Oil and gas investigations prelim. charts no. 9, scale 1:4,752,000, text.
- 1948a. Cambrian and Ordovician rocks in Michigan basin and adjoining areas: Am. Assoc. Pet. Geologists, Bull., v. 32, no. 8, p. 1417-1448, illus.
- 1948b. Thickness and lithology of Upper Ordovician and Lower and Middle Silurian rocks in the Michigan basin: U.S.G.S., Oil and gas investigations prelim. charts no. 33, 2 sheets, scales vary, text.
- Cohen, Emil Wilhelm.** 1892. Meteoriten-Studien, II-XI: K-k Naturh. Hofmus., Ann. 7, p. 143-162; Ann. 9, p. 97-118, 1894 Ann. 10, p. 81-93, 1895; Ann. 12, p. 42-62, 1897; Ann. 13, p. 45-58, 118-158, 1898; Ann. 15, p. 75-94, 351-391, 1900.
- Cohen, Theodore Jerome.** 1967. Explosion seismic studies of the mid-continent gravity high (abs.): Dissert. Abs., Sec. B, v. 28, no. 3, p. 938-B.
- Cohen, Theodore Jerome; Meyer, Robert P.** 1966. The midcontinent gravity high; gross crustal structure in Steinhard and Smith (eds.) The earth beneath the continents, Am. Geophys. Union, Geophys. Mon. 10 (Natl. Acad. Sci.-Natl. Research Council Pub. 1467) p. 141-165, illus., tables.
- Cole, D.W. (and others)** 1957. Extent of capillary fringe in soils of sandy outwash as determined by the use of radiosulfur Univ. Wis., College of Agr., Forestry research notes no. 41, 2 p., illus.
- Cole, H.E.** 1920. Baraboo, Dells, and Devil's Lake Region: Baraboo, Baraboo News Publishing Comp., 64 p., illus., maps; 2nd ed., 95 p., 1921.
- Cole, W.A.; Hanson, George Fulford; Westbrook, W.T.** 1961. Lightweight aggregates-expansion properties of clay, shales, and Precambrian rocks of Wisconsin: U.S. Bur. Mines, Rept. Inv. 5906, 26 p., illus., tables.
- Coleman, Dennis D.** 1973. Illinois State Geological Survey radiocarbon dates IV: Radiocarbon (Am. Jour. Sci.) v. 15, no. 1, p. 75-85.
- Collie, George Lucius.** 1901a. Physiography of Wisconsin: Am. Bur. Geography, Bull., v. 2, p. 270-287.
- 1901b. The Wisconsin shoreline of Lake Superior: G.S.A., Bull., v. 12, p. 197-216.
- Collier, Charles R.** 1963. Sediment characteristics of small streams in southern Wisconsin, 1954-59: U.S.G.S., Water-Supply Paper 1669-B, 34 p.
- Collins, Charles W.** 1971. The influence of drumlin topography on field patterns in Dodge Co., Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 59, p. 55-66.
- 1972. An atlas of Wisconsin: Madison, Wis., Am. Printing and Publishing, Inc., 2d ed., 187 p., illus.
- Collins, Kenneth Alan.** 1968. Phase distributions of the rare-earth elements in sediments (abs.): Dissert. Abs., Sec. B, v. 28, no. 11, p. 4620B-4621B.
- Collins, Robert S.** see Miller, David William
- Conant, Louis C.** see Coe, Ann C.
- Conger, Paul S.** 1939. The contribution of diatoms to the sediments of Crystal Lake, Vilas Co., Wisconsin: Am. Jour. Sci., v. 237, no. 5, p. 324-340, illus.
- Conover, Allan D.** 1884. Wisconsin (building stones) in Report on the building stones of the U.S. and statistics of the quarry industry for 1880: U.S., 10th Census, v. 10, p. 229-244.
- Conrad, Timothy Abbott.** 1843. Observations on the lead-bearing limestone of Wisconsin and descriptions of a new genus of trilobite and fifteen new Silurian fossils: Philadelphia Acad. Nat. Sci., Proc., v. 1, p. 329-335.
- Conrey, Guy.** see Geib, W.J.
- Cook, Charles Wilford.** 1924. Marcasite from the Racine dolomite, Racine, Wisconsin: Am. Mineralogist, v. 9, no. 7, p. 151-152.
- Cooke, H.C.** 1926. Between the Archean and the Keweenawan is the Huronian: Royal Society of Canada, Trans., v. 20(3) sec. 4, p. 17-37, table.
- Coons, Richard L.** 1967. Precambrian basement geology and Paleozoic structure of the mid-continent gravity high (abs.): Dissert. Abs. Internat., Sec. B, v. 28, no. 2, p. 739B.
- Coons, Richard L.; Woollard, George P.; Hershey, Garland.** 1967. Structural significance and analysis of mid-continent gravity high: Am. Assoc. Pet. Geol., Bull., v. 51, no. 12, p. 2381-2399, illus.
- Cooper, Chalmers L.** 1937. "Bison occidentalis" at Interstate Park, Wisconsin (abs.): G.S.A., Proc., 1936, p. 368-369.

- Cooper, Gustav Arthur (and others).** 1942. Correlation of the Devonian sedimentary formations of North America (chart no. 4): G.S.A., Bull., v. 53, no. 12, pt. 1, p. 1729-1793, illus.
- Cooper, Gustav Arthur.** *see also* Ulrich, Edward Oscar
- 1956. Chazyan and related brachiopods (U.S.-Canada): Smithsonian Misc. Coll., v. 127, pt. 1, text, p. 1-1024, illus.; pt. 2, plates, p. 1025-1245, illus.
- Cooper, Roger W.** 1973. The Keweenaw volcanics north of the Gogebic Range in Wisconsin *in* Inst. Lake Superior Geology, 19th Ann., 1973, Tech. program and abs.: Wis. Geol. and Nat. History Survey; Univ. Wis., Dept. Geology, p. 9.
- Cooper, William S.** 1935. The history of the upper Mississippi River in late Wisconsin and postglacial time: Minn. Geol. Survey, Bull. 26, 116 p., illus., maps.
- Corcoran, W.T.** *see* Knox, James Clarence
- Corey, R.B.** *see* Beatty, Marvin T.
- *see* Petersen, G.W.
- Cotter, Ralph D.** *see also* Trotta, Lee C.
- Cotter, Ralph D. (and others).** 1969. Water resources of Wisconsin - Rock-Fox River basin: U.S.G.S., Hydrol. Inv. Atlas HA-360, scale 1:1,000,000, 4 sheets, text; (abs.) Abs. North Am. Geol., p. 1509, Oct. 1970.
- Cotter, Ralph D.** 1976. Areas of rapid recharge through shallow unconsolidated deposits and bedrock in Wisconsin: Wis. Geol. and Nat. History Survey, scale 1:2,700,000.
- Cotter, Ralph D.; Jahn, Laurence R.** 1969. Ground water *in* Water use—principles and guidelines for planning and management in Wisconsin: Soil Cons. Soc. Am., Wis. Chap., p. 50-62, illus., tables.
- Cox, Guy Henry.** 1909. Copper in southwestern Wisconsin: Mining Scientific Press, v. 99, p. 592.
- 1911. The origin of the lead and zinc ores of the upper Mississippi Valley district: Econ. Geology, v. 6, no. 5, p. 427-448, 582-603.
- 1912. New type of Wisconsin zinc deposit: Eng. Min. Jour., v. 94, p. 1040-1041.
- Crabtree, Koby T.** 1972. Nitrate and nitrite variation in groundwater: Wis. Dept. Nat. Resources, Tech. Bull. no. 58, 22 p., illus.
- Craddock, Campbell.** 1972. Structural evolution of the Keweenaw province (abs.): G.S.A., Abs. with Programs, v. 4, no. 7, p. 715-716.
- Craddock, Campbell; Mooney, Harold M.** 1970. Geologic structure under the northern midcontinent gravity high: G.S.A., Abs. with Programs, v. 2, no. 7, p. 527-528.
- Craddock, Campbell; Mooney, Harold M.; Kolehmainen, Victoria.** 1970. Simple Bouguer gravity map of Minnesota and northwestern Wisconsin: Minn. Geol. Survey, Misc. Map M-10, scale 1:1,000,000, separate text (1969); (abs.) Abs. North Am. Geol., p. 389, March 1971; Geophysical Abs., no. 292, p. 559, May 1971.
- Craddock, Campbell; Thiel, Edward C.; Gross, Barton.** 1963. A gravity investigation of the Precambrian of southeastern Minnesota and western Wisconsin: Jour. Geophys. Research, v. 68, no. 21, p. 6015-6032, illus., maps; correction, v. 69, no. 6, p. 1157, 1964.
- Cram, Thomas Jefferson.** 1840a. Internal improvements in the territory of Wisconsin: U.S., 26th Cong., 1st Sess., Senate Doc. 140, 26 p., map.
- 1840b. Report...for the improvement of the Neenah (Fox), Wisconsin, and Rock rivers...: U.S., 26th Cong., 1st Sess., Senate Doc. 318, 29 p., maps.
- 1840c. Map of Wisconsin Territory; compiled from the public surveys: U.S., 26th Cong., 1st Sess., Senate Doc. 140.
- 1841. Report on the survey of the boundary between the state of Michigan and the Territory of Wisconsin: U.S., 26th Cong., 2d Sess., Senate Doc. 151, 16 p., maps.
- 1842. Report on the survey of the boundary between Michigan and Wisconsin: U.S., 27th Cong., 2d Sess., Senate Doc. 170, 12 p., map.
- Cramer, Frank.** 1891. On the rock fracture at the Combined Locks Mill, Appleton, Wisconsin: Am. Jour. Sci., v. 41 (3) p. 432-434.
- Crammatte, Florence B.** *see* Hobbs, Harold W.
- Crane, Horace R.** 1956. University of Michigan radiocarbon dates - pt. I: Science, v. 124, no. 3224 (n s) p. 664-672.
- Crawford, Lawrence C.** *see* Williams, Gordon R.
- Credner, Hermann.** 1868. Die Gliederung der eozoischen (vorsilurischen) Formationsgruppe Nord-Amerikas: Zeitschrift für die gesammten Naturwissenschaften, v. 32, p. 353-405.
- Crisp, R.W.** 1970. Tests of rock cores Pembine study area, Michigan and Wisconsin: U.S. Army Corps Engineers, Waterways Exp. Station, Misc. Paper C-70-14, 126 p., illus., tables.
- Cronon, Bill.** 1970. The sandstone caves of Wisconsin: Wis. Speleologist, v. 9, no. 3, p. 53-99, illus.
- Crosman, Charles.** 1888. Chart showing graphically the fluctuations of the water surface and the rainfall from 1859 to 1888, of the Great Lakes: Milwaukee, n.p., 4 p.
- Cross, Aureal T.** *see* Wilson, Leonard Richard
- Crowns, Byron.** 1976. Wisconsin through five billion years of change: Wisconsin Rapids, Wisconsin Earth Science Center, 318 p., illus., maps.
- Crumpton, Rusian P.** *see* Agnew, Allen Francis
- Culberson, William Louis.** 1955. The fossil mosses of the Two Creeks forest bed of Wisconsin: Am. Midland Naturalist, v. 54, p. 452-459, illus.
- Culver, Jerry B.** *see* Robinson, Arthur H.
- Cumming, L.M.** 1951. Stratigraphy and structure of the Lake Superior region *in* Field trip to the Lake Superior region, May 5 to May 12, 1951: Madison, Univ. Wis., Dept. Geology, 8 p., table, map.
- Cummings, Alvin M.** 1948a. Investigation of Vial zinc mine, Iowa Co., Wisconsin: U.S. Bur. Mines, Rpt. Inv. 4385, 7 p., illus.
- 1948b. Trego lead-zinc mine, Grant County, Wis.: U.S. Bur. Mines, Rpt. Inv. 4211, 8 p., illus.
- 1949. Sampling the Kennedy zinc tailing pile, Lafayette Co., Wisconsin: U.S. Bur. Mines, Rpt. Inv. 4468, 7 p., illus.
- Cummings, Edgar R.; Shrock, Robert R.** 1928. Niagara coral reefs of Indiana and adjacent states and their stratigraphic relations: G.S.A., Bull., v. 39, no. 2, p. 581,593-596, 612-613.
- Cummings, M.L.** 1975. Structure and petrology of Precambrian amphibolite, Big Falls County Park, Eau Claire Co., Wisconsin (abs.) *in* Inst. Lake Superior Geology, 21st Ann., 1975: Marquette, Northern Michigan Univ., p. 5.
- 1978. Stratigraphy and mineralization, Quinnesec Formation, northeastern Wisconsin (abs.) *in* Inst. Lake Superior Geology, 24th Ann., 1978, Abs. and Proc.: Univ. Wis., Milwaukee, p. 10.
- Cummings, M.L.; Myers, Paul E.** 1978. Petrology and geochemistry of amphibolites, Eau Claire River, Eau Claire Co., Wisconsin (abs.) *in* Inst. Lake Superior Geology, 24th Ann., 1978, Abs. and Proc.: Univ. Wisconsin, Milwaukee, p. 9.
- Curtis, Willie R.** *see also* Sartz, Richard S.
- 1963. Flow characteristics of two types of springs in southwestern Wisconsin: St. Paul, U.S. Forest Service, Lake States Forest Exp. Station, Res. Note LS-1, 2 p.
- 1966a. Forest zone helps minimize flooding in the Driftless Area: Jour. Soil and Water Conservation, v. 21, no. 3, p. 101-102.
- 1966b. Response of springflow to some climatic variables in southwestern Wisconsin: Water Resources Research, v. 2, no. 2, p. 311-314, illus.
- 1967. Simpler practices along forest edge reduce upland runoff: Jour. Soil and Water Conservation, v. 22, p. 25-26.
- Cushing, Edward J.** 1965. Problems in the Quaternary phytogeography of the Great Lakes region *in* Wright and Frey, eds., The Quaternary of the United States: Princeton Univ. Press, p. 403-416, illus.
- Cuthbert, Margaret E.** *see* Shacklette, Hansford T.
- Dablon, Claude.** 1899. On drift copper in and near the Apostle Islands *in* Jesuit Relations 1669-71: Cleveland, Burrow Bros., R.G. Thwaites ed., v. 54, p. 161-163.
- Dahlstrand, N.P.** *see* Hole, Francis D.
- *see* Muckenhirn, R.J.
- Dake, Charles L.** 1921. The problem of the St. Peter sandstone: Missouri Univ., School of Mines and Metallurgy, Bull. (Tech. ser.) v. 6, no. 1, p. 1-225, illus.
- Dallman, John E.** *see also* West, R.M.
- 1968. Mastodons in Dane County: Wis. Academy Review, v. 15, no. 2, p. 9-13, illus.
- 1969. Giant beaver from a post-Woodfordian lake near Madison, Wisconsin: Jour. Mammalogy, v. 50, no. 4, p. 826-830, illus., table; (abs.) Abs. North Am. Geol., p. 1205, Aug. 1970.
- Dalziel, Ian W.D.** *see also* Dott, Robert H., Jr.
- *see also* Stirewalt, G.L.
- 1969. Kinematic and dynamic analysis of the Baraboo quartzite, Wisconsin (abs.): EOS (Am. Geophys. Union, Trans.) v. 50, no. 4, p. 323.
- Dalziel, Ian W.D.; Dott, Robert H., Jr.** 1970. Geology of the Baraboo district, Wisconsin, a description and field guide incorporating structural analysis of the Precambrian rocks and sedimentologic studies of the Paleozoic strata: Wis. Geol. and Nat. History Survey, Inf. Circ. 14, 164 p., illus.
- Dalziel, Ian W.D.; Stirewalt, G.L.** 1975. Stress history of folding and cleavage development, Baraboo Syncline, Wisconsin: G.S.A., Bull., v. 86, no. 12, p. 1671-1690, illus., maps.
- Dana, James Dwight.** 1878. On the driftless interior of North America: Am. Jour. Sci., v. 15 (3) p. 250-255.
- Daniels, W.W.** 1898. On the analysis of the water of a flowing artesian well at Marinette, Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 11, p. 112-113.
- Daniels, Edward.** 1854a. First annual report on the geological survey of the State of Wisconsin: Madison, Wis. Geol. Survey, 84 p., map; *Extract with title*, the lead veins of Wisconsin: Mining Mag., v. 2, p. 493-506.
- 1854b. Some features of the lead district of Wisconsin: Boston Soc. Nat. History, Proc., v. 4, p. 387-389.
- 1857. The mines of Wisconsin: Wis. State Agr. Soc., Trans., v. 4, p. 356-362.
- 1858a. Annual report of the geological survey of the State of Wisconsin, for the year ending Dec. 31, 1857: Madison, Wis. Geol. Survey, 62 p.
- 1858b. Iron ores of Wisconsin: Mining Mag., v. 10, p. 13-27.
- 1858c. On Silurian rocks of Illinois and Wisconsin and fossils from the Potsdam of Wisconsin: Boston Soc. Nat. History, Proc., v. 6, p. 309-310.
- 1859. Notes on geology of Wisconsin and adjacent states: Boston Soc. Nat. History, Proc., v. 6, p. 309-310.

- 1860. Wisconsin building stones and marbles: Wis. State Agr. Soc., Trans., v. 6, p. 299.
- Daniels, Farrington (and others).** 1953. New methods for uranium exploration and recovery from low grade ores—progress report, January 1, 1952 to January 1, 1953: U.S. Atomic Energy Comm., Rpt. AECU-2663, 24 p.
- 1954. New methods for uranium exploration and recovery from low grade ores - research progress report for the period Jan. 1, 1953 to Dec. 31, 1953: U.S. Atomic Energy Comm., Rpt. AECU-2828, 16 p.
- Daniels, Farrington.** 1957. Uranium recovery, uranium geochemistry, thermoluminescence and related studies—final report: U.S. Atomic Energy Comm., Rpt. AECU-3599, 57 p.
- Dapples, Edward C.** *see also* Stablein, Newton Kingman, III
- 1955. General lithofacies relationship of St. Peter sandstone and Simpson group: Am. Assoc. Pet. Geol., Bull., v. 39, no. 4, p. 444-467, maps.
- 1970. Environments influencing deposition of the Franconia Formation (abs.): G.S.A., Abs. with Programs, v. 2, no. 6, p. 384.
- Darton, Nelson Horatio.** 1902. Preliminary list of deep borings in the United States: U.S.G.S., Water-Supply Paper 61, pt. 2, p. 65-66, table.
- 1905. Preliminary list of deep borings in the United States: U.S.G.S., Water-Supply Paper 149, 2d ed., p. 172-174.
- Davies, John E.** 1882. Character and methods of the geodetic survey in Geology of Wis.: Wis. Geol. Survey, v. 4, pt. 9, p. 727-749, tables.
- Davis, Anthony M.** 1974. Pollen analysis and climatic reconstruction; a Driftless Area example in Knox and Mickelson, eds., Late Quaternary environments of Wisconsin: Madison, Am. Quaternary Assoc., Third biennial mtg., p. 79-86, illus.
- Davis, E. Mott.** *see* Valastro, S., Jr.
- Davis, G.L.** *see* Aldrich, Lyman T.
- Davis, Hubert W.** 1931. Iron ore, pig iron, and steel: U.S. Bur. Mines, Mineral resources of the U.S., 1928, pt. 1, p. 30-40, 44, tables.
- Davis, R.A.** *see* Fox, W.T.
- Davis, Ralph Emerson.** 1906. Mississippi Valley lead and zinc district: Mining World, v. 24, p. 548-549.
- Davis, Richard A., Jr.** *see also* Ostrom, Meredith E.
- 1966a. Revision of the Lower Ordovician nomenclature in the upper Mississippi Valley: Jour. Geol., v. 74, no. 3, p. 361-365, illus.
- 1966b. Willow River dolomite; Ordovician analogue of modern algal stromatolite environments: Jour. Geol., v. 74, no. 6, p. 908-923, illus.
- 1968. "Canadian-Ozarkian" unconformity in the upper Mississippi Valley (abs.): Am. Assoc. Pet. Geol., Bull., v. 52, p. 524.
- 1969. Stratigraphy of the Prairie du Chien Group (Lower Ordovician), upper Mississippi Valley (abs.): G.S.A., Abs. with Programs, pt. 6, p. 9.
- 1970. The Prairie du Chien Group in the upper Mississippi Valley in Ostrom, M.E., Field trip guidebook for Cambrian-Ordovician geology of western Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ. 11, p. 35-44, illus.
- Davis, Richard A., Jr.** *see also* Carozzi, Albert V.
- 1975. Intertidal and associated deposits of the Prairie du Chien Group (Lower Ordovician) in the upper Mississippi Valley in Ginsburg, R.N., ed., Tidal deposits—a casebook of Recent examples of fossil counterparts: N.Y., Springer-Verlag, p. 299-306.
- Davis, Ronald B.; Brewster, Lynn A.; Sutherland, Joyce.** 1969. Variation in pollen spectra within lakes (with French abs.): Pollen et Spores, v. 11, no. 3, p. 557-571, tables; (abs.) Abs. North Am. Geol., Dec. 1970.
- Davis, William Morris.** 1883. On the classifications of lake basins: Boston Soc. Nat. History, Proc., v. 21, p. 315-381; (abs.) Am. Nat., v. 16, p. 1028-1029, 1882; Am. Jour. Sci., v. 24 (3) p. 230, 1882.
- 1884a. The distribution and origin of drumlins: Am. Jour. Sci., v. 28 (3) p. 407-416.
- 1884b. Drumlins: Science, v. 4, no. 91, p. 418-420, illus.
- 1898. On the physiographic features of Wisconsin in Physical geography: Boston, p. 136-137, 197-198, 274.
- 1912a. Erklärende beschreibung der landformen: Leipzig, p. 222-223.
- 1912b. On the Driftless Area in Guidebook for the Transcontinental Excursion of 1912: Am. Geog. Soc. New York, v. 16, p. 87-89.
- Dawson, J.B.** 1964. An aid to prospecting for kimberlites: Econ. Geology, v. 59, no. 7, p. 1385-1386.
- Day, Fisk Holbrook.** 1878. On the fauna of the Niagara and upper Silurian rocks as exhibited in Milwaukee Co., Wisconsin, and in counties contiguous there to: Wis. Acad. Sci., Arts, and Letters, Trans., 4, p. 113-125.
- Day, William C.** 1896. Stone: U.S.G.S., Ann. Rpt., v. 16, 1894-1895, pt. 4, p. 436-510.
- DeGeoffroy, J.** 1969. Geochemical prospecting by spring sampling in the southwest Wisconsin zinc mining area: Wis. Geol. and Nat. History Survey, Inf. Circ. 10, 28 p., illus.
- DeGeoffroy, J.; Wignall, T.K.** 1970. Statistical decision in regional exploration - application of regression and Bayesian classification analysis in the southwest Wisconsin zinc area: Econ. Geology, v. 65, no. 7, p. 769-777, illus., tables; (abs.) Abs. North Am. Geol., p. 573, April 1971.
- DeGeoffroy, J.; Wu, S.M.** 1970. Design of a sampling plan for regional geochemical surveys: Econ. Geology, v. 65, no. 3, p. 340-347, illus., tables; (abs.) Abs. North Am. Geol., p. 393, March 1971.
- DeGeoffroy, J.; Wu, S.M.; Heins, R.W.** 1967. Geochemical coverage by spring sampling method in the southwest Wisconsin zinc area: Econ. Geology, v. 62, no. 5, p. 679-697, illus., tables; (abs.) Abs. North Am. Geol., p. 330, March 1968.
- 1968. Selection of drilling targets from geochemical data in the southwest Wisconsin zinc area: Econ. Geology, v. 63, no. 7, p. 787-795, illus., tables; (abs.) Abs. North Am. Geol., p. 1210, August 1969.
- 1970. Some observations on springs in southwest Wisconsin: Water Resources Research, v. 6, no. 4, p. 1235-1238, illus., tables; (abs.) Abs. North Am. Geol., p. 393, March 1971.
- DeMott, Lawrence L.** 1964. Trilobite correlations of Black River-Trenton strata between Wisconsin and New York (abs.): G.S.A., Sp. Paper 76, p. 40.
- DeMumbrum, L.E.; Chesters, Gordon.** 1964. Isolation and characterization of some soil allophanes: Soil Sci. Soc. Am., Proc., v. 28, no. 3, p. 355-359, illus., table.
- Decker, Charles Elijah.** 1930. Simpson group of Arbuckle and Wichita Mountains, Oklahoma: Am. Assoc. Pet. Geol., Bull., v. 14, no. 12, p. 1493-1505; (abs.) Pan-Am. Geologist, v. 53, no. 3, p. 225.
- 1952. Graptolites from Kentucky and Kaukauna, Wisconsin: Am. Assoc. Pet. Geol., Bull., v. 36, no. 1, p. 160-163, illus.
- Decker, Charles Elijah; Fredrickson, Edward Arthur, Jr.** 1939. A new graptolite horizon in Wisconsin (abs.): Oil Weekly, v. 93, no. 3, p. 82.
- 1941. A new graptolite horizon in Wisconsin: Jour. Paleontology, v. 15, no. 2, p. 157-159, illus.
- Deevey, Edward Smith, Jr.** *see also* Flint, Richard Foster
- *see also* Preston, Richard S.
- 1949. Biogeography of the Pleistocene: G.S.A., Bull., v. 60, no. 9, p. 1315-1416, maps.
- Deininger, Robert W.** 1964. Limestone-dolomite transition in the Ordovician Platteville Formation in Wisconsin: Jour. Sed. Petrology, v. 34, no. 2, p. 281-288, illus.
- Delesse, A.** 1857. Mines de fer des Etats-Unis: Annales des Mines, Memoires, v. 12, p. 827.
- Delestry, Edmond Lewis.** 1908. Formations (zinc bearing) west of Platte River, Wisconsin: Mining World, v. 28, p. 758.
- Delfino, Joseph John.** 1968. Aqueous environmental chemistry of manganese (abs.): Dissert. Abs., Sec. B, v. 29, no. 6, p. 1947B.
- 1969. Fresh water lake systems as media for chemical reactions (abs.): Colorado-Wyoming Acad. Sci., Jour., v. 6, no. 2, p. 32.
- Delfino, Joseph John; Lee, G. Fred.** 1969. Colorimetric determination of manganese in lake waters: Environmental Sci. and Tech., v. 3, no. 8, p. 761-764, tables; (abs.) Abs. North Am. Geol., p. 179, Feb. 1970.
- Dell, C.I.** 1972. The origin and characteristics of Lake Superior sediments: Internat. Assoc. Great Lakes Research, 15th Conf., Proc., p. 361-370, illus.
- Demo, Owen R.** *see* Link, Ernest G.
- Dendy, F.E.; Champion, W.A.** 1969. Summary of reservoir sediment deposition surveys made in the United States through 1965: U.S.D.A., Ag. Research Service, Misc. Pub. no. 1143, p. 21.
- Denison, Rodger E.** *see* Muehlberger, William R.
- Denning, J.L.; Bouma, Johannes; Falayl, O.** 1974. Calculation of hydraulic conductivities of horizons in some major soils in Wisconsin: Geoderma, v. 11, no. 1, p. 1-16, illus.
- Desor, Edouard.** 1850. Des alluvions marines et lacustres et du terrain erratique de l'Amerique du Nord: Soc. Geol. France, Bull., v. 7 (2) p. 623-631.
- 1851a. Notes on terraces of Lake Erie, with letters from Charles Whittlesey and I.A. Lapham on fossils in drift deposits: Boston Soc. Nat. Hist., Proc., v. 3, p. 291-292.
- 1851b. On swamps bordering the western rivers: Boston Soc. Nat. Hist., Proc., v. 3, p. 376.
- 1851c. On the clay and drift deposits near Lake Superior, and their connection with similar deposits farther West: Boston Soc. Nat. History, Proc., v. 3, p. 235-236, 242.
- 1851d. On the superficial deposits of the Lake Superior district in Foster and Whitney, Report on the geology of Lake Superior district...: p. 232-240; Am. Jour. Sci., v. 13 (2) p. 93-109.
- 1851e. Potsdam sandstone from the St. Croix River, Wisconsin: Boston Soc. Nat. History, Proc., v. 3, p. 202.
- 1852. Remarques sur la carte geologique du Lac Supérieur de MM. Foster et Whitney: Soc. Geol. France, Bull., v. 9 (2) p. 280-281.
- 1854. On markings on a slab from the Clinton at Green Bay, Wisconsin: Boston Soc. Nat. History, Proc., v. 4, p. 166.
- Desparte, Michael** *see* Weber, John J.
- Deutman, E.G.** 1919. The roasting and magnetic separation of Wisconsin zinc ores: Eng. and Min. Jour., p. 1107-1111.
- Devaul, Robert W.** 1967. Trends in ground-water levels in Wisconsin through 1966: Wis. Geol. and Nat. History Survey, Inf. Circ. 9, 109 p., illus., tables; (abs.) Abs. North Am. Geol., p. 184, Feb. 1968.
- 1976a. Dissolved-solids concentrations of water in the Niagara aquifer, Wisconsin: Wis. Geol. and Nat. History Survey, scale 1:1,000,000.

- 1976b. Dissolved-solids concentrations of water in the sand-and-gravel aquifer, Wisconsin: Wis. Geol. and Nat. History Survey, scale 1:1,000,000.
- 1976c. Dissolved-solids concentrations of water in the sandstone aquifer, Wisconsin: Wis. Geol. and Nat. History Survey, scale 1:1,000,000.
- 1976d. Probable yields of wells in the Niagara aquifer: Wis. Geol. and Nat. History Survey, scale 1:1,000,000.
- 1976e. Probable yields of wells in the sand-and-gravel aquifer, Wisconsin: Wis. Geol. and Nat. History Survey, scale 1:1,000,000.
- 1976f. Probable yields of wells in the sandstone aquifer, Wisconsin: Wis. Geol. and Nat. History Survey, scale 1:1,000,000.
- Devaul, Robert W.; Green, Jack H.** 1971. Water resources of Wisconsin—central Wisconsin River basin: U.S.G.S., Hydrol. Inv. Atlas HA-367, scale 1:1,000,000, 4 sheets.
- Devaul, Robert W.; Holt, Charles Lee Roy, Jr.** 1964. Water availability in central Wisconsin in Vegetable and Fruit: Univ. Wis., College Agr., Extension Service, p. 26-30, maps.
- Dickas, Albert B. (and others).** 1969b. Relationship of regional magnetics to the bedrock geology of the South Range quadrangle, Douglas Co., Wisconsin (abs.) in Inst. Lake Superior Geology, 15th Ann., 1969, Tech. Sess. Abs.: Wis. State Univ., Oshkosh, Dept. Geology, p. 12-14.
- Dickas, Albert B.** 1969a. Depositional environments of Lake Superior sands through grain size analysis: Univ. Wis., Water Resources Center, Tech. Paper OWRR A-023-WIS, 15 p.
- 1970. Depositional environments of Lake Superior sands through grain size analysis: Internat. Assoc. Great Lakes Research, 13th Conf., Proc., pt. 1, p. 227-232, illus.
- Dickas, Albert B.; Lunking, W.** 1968. The origin and destruction of armored mud balls in a fresh-water lacustrine environment, Lake Superior: Jour. Sed. Petrology, v. 38, no. 4, p. 1366-1370, illus., table; (abs.) Abs. North Am. Geol., p. 1047, July 1969.
- Dickas, Albert B.; Tychem, Paul C.** 1969c. Sediments and geology of Bois Brule River, western Lake Superior: Ann Arbor, Mich., Internat. Assoc. Great Lakes Research, 12th Conf., Proc., p. 161-169, illus., maps.
- Dickerson, R.S.; Rank, P.J.** 1973. Green Bay region water and land use, lower Fox River watershed: Univ. Wis., Sea Grant College Program, Rpt. 801, scales vary, text.
- Dickey, R.M.** 1938. Manganese in the Montreal Mine, Montreal, Wisconsin: Econ. Geology, v. 33, no. 6, p. 600-624, illus.; Michigan College Mining and Technology, Bull. (n.s.) v. 11, no. 4.
- Digman, Ralph E.** see Thiesmeyer, Lincoln Reuber
- Dirlam, Dona Mary.** 1974. Pollen analysis of mid-Altonian peat in Schelke Bog, Lincoln Co., Wisconsin in Knox and Mickelson, eds., Late Quaternary environments of Wisconsin: Am. Quaternary Assoc., Third biennial mtg., p. 87-92, illus.
- Distelhorst, Carl A.R.; Milnes, A.G.** 1968. Evidence for fault zones in the bedrock of Milwaukee Co.: Wis. Acad. Sci., Arts, and Letters, Trans., 1967-68, v. 56, p. 149-152; (abs.) Abs. North Am. Geol., p. 1797, Dec. 1968.
- Distumell, John.** 1865. The Great Lakes, or inland seas of America: N.Y., Charles Scribner, 192 p., illus.
- Dixon, R.M.; Bay, C.E.; Peterson, A.E.** 1966. Drainage of a peat soil overlying an artesian aquifer: Univ. Wis., Agr. Experimental Station, Research rpt. 21, 11 p.
- Doe, T.W.** see also Odom, I. Edgar
- 1976. Environmental implications of deformed crossbedding with examples from the Weber Sandstone of Utah and the Baraboo Quartzite of Wisconsin (abs.): G.S.A., Abs. with Programs, v. 8, no. 6, p. 838-839.
- Dole, Richard B.** 1909. The quality of surface water in the United States: U.S.G.S., Water-Supply Paper 236, p. 5-119.
- 1910a. The mineral constituents of the waters of rivers in the Mississippi basin: Ill. Soc. Eng. and Surveyors, Ann. Rpt. 25, p. 214-219.
- 1910b. The quality of surface waters in Mississippi River basin: Ill. Water Supply Assoc., Proc. 2, p. 64-80, illus.
- Dole, Richard B.; Stabler, H.** 1909. Denudation: U.S.G.S., Water Supply paper 234, p. 78-93; (abs.) Am. Geog. Soc., Bull., v. 42, no. 10, p. 780-781, 1910.
- Domogalla, B.P.** see also Tressler, Willis L.
- Domogalla, B.P.; Fred, E.B.** 1926. Ammonia and nitrate studies of lakes near Madison, Wisconsin: Jour. Am. Soc. Agron., v. 18, p. 897-910.
- Doonan, C.J.** see Hendrickson, Gerth E.
- Dopp, Mary.** 1913. Geological and geographical conditions affecting the development of Wisconsin: Am. Geog. Soc., Bull., v. 45, p. 401-412.
- Dosen, R.C.; Peterson, S.F.; Pronin, D.T.** 1950. The effect of groundwater on the growth of red pine and white pine in central Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 40, pt. I, p. 79-82, illus.
- Dott, Robert H., Jr.** see also Dalziel, Ian W.D.
- see also Michelson, Peter C.
- see also Novak, Irwin D.
- see also Odom, I. Edgar
- 1969. Isotopic dating of the Baraboo and Waterloo quartzites (abs.) in Inst. Lake Superior Geology, 15th Ann., 1969, Tech. Sess. Abs.: Wis. State Univ.-Oshkosh, Dept. Geology, p. 15.
- 1973. Paleocurrent analysis of trough cross stratification: Jour. Sed. Petrology, v. 43, no. 3, p. 779-783, illus.
- 1974. Cambrian tropical storm waves in Wisconsin: Geology, v. 2, p. 243-246.
- Dott, Robert H., Jr.; Dalziel, Ian W.D.** 1972. Age and correlation of the Precambrian Baraboo quartzite of Wisconsin: Jour. Geol., v. 80, no. 5, p. 552-568, illus.
- Dott, Robert H., Jr.; Mattis, Allen F.** 1972. A post-Annikan-pre-Keweenaw transgressive sand blanket over the Lake Superior Region (abs.): G.S.A., Abs. with Programs, v. 4, no. 7, p. 490.
- Dott, Robert H., Jr.; Roshardt, Mary A.** 1972. Analysis of cross-stratification orientation in the St. Peter sandstone in southwestern Wisconsin: G.S.A., Bull., v. 83, p. 2589-2596, illus.
- Douglas, Dale.** 1969a. Midwest fossils, brachiopods: Earth Sci., v. 22, no. 6, p. 263-267, illus.
- 1969b. Midwest fossils, colonial corals: Earth Sci., v. 22, no. 1, p. 18-24; no. 2, p. 73-78, illus.; no. 3, p. 117-121, illus.; no. 4, p. 175-179, illus.
- 1969c. Midwest fossils, crinoids: Earth Sci., v. 22, no. 5, p. 223-227, illus.
- Dowling, Forrest Leroy.** see also Bentley, Charles R.
- 1967. Preliminary magnetotelluric resistivity results across the Wisconsin arch (abs.) in Inst. Lake Superior Geology, 13th Ann., East Lansing, Mich., 1967: East Lansing, Mich., Michigan State Univ., p. 9.
- 1969a. A magnetotelluric investigation of the crust and upper mantle across the Wisconsin arch (abs.): Dissert. Abs. Internat., Sec. B., v. 30, no. 1, p. 262B.
- 1969b. Magnetotelluric studies of the Wisconsin arch (abs.): EOS (Am. Geophys. Union, Trans.) v. 50, no. 4, p. 137.
- 1970. Magnetotelluric measurements across the Wisconsin arch: Jour. Geophys. Research, v. 75, no. 14, p. 2683-2698, illus., tables; (abs.) Abs. North Am. Geol., p. 1852, Dec.; Geophys. Abs., no. 286, p. 1267, Nov.
- Downes, Stancliff B.** 1882. Improvement of the Wisconsin and Fox Rivers: School Mines Quart., v. 4, no. 1, p. 30-41, illus.
- Drakoulis, Sophie.** see Coe, Ann C.
- Dreher, Frederick C.** see Drescher, William James
- see Knowles, Doyle B.
- Drescher, William James.** see also Foley, Frank Clingan
- see also Harder, Alfred H.
- 1953. Ground-water conditions in artesian aquifers in Brown Co., Wisconsin: U.S.G.S., Water-Supply Paper 1190, 49 p., illus.
- 1955. Some effects of precipitation on ground water in Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ. 1, 17 p., illus.
- 1956. Ground water in Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ. 3, 37 p., illus.
- Drescher, William James; Dreher, Frederick C.; Brown, Paul N.** 1953. Water resources of the Milwaukee area, Wisconsin: U.S.G.S., Circ. 247, 42 p., illus.
- Drindak, Joseph T.** 1935. Insoluble residues from Wisconsin sedimentary rocks; Pt. 2, Studies of Wisconsin sedimentary rocks, no. 2, the insoluble residues of the Oneota dolomite of western Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 29, p. 262-266, illus.
- Driscoll, Egbert Gotzian.** 1959. Evidence of transgressive-regressive Cambrian sandstones bordering Lake Superior (Wis.-Mich.): Jour. Sed. Petrology, v. 29, no. 1, p. 5-15, illus.
- Droste, J.B.** 1956. Alteration of clay minerals by weathering in Wisconsin tills: G.S.A., Bull., v. 67, p. 911-918.
- DuBois, Ernest Paul.** 1945. Subsurface relations of the Maquoketa and "Trenton" Formations in Illinois: Ill. Geol. Survey, Rpt. Inv. 105, pt. 1, p. 7-33, illus.
- DuBois, James F.; Van Schmus, W.R.** 1978. Petrology and geochronology of Archean gneiss in the Lake Arbutus area, west-central Wisconsin (abs.) in Inst. Lake Superior Geology, 24th Ann., 1978, Abs. and Proc., Univ. Wis., Milwaukee, p. 11.
- DuBois, Phillip M.** 1959. Correlation of Keweenaw rocks of Lake Superior district by paleomagnetic methods: Geol. Assoc. Canada, Proc., v. 11, p. 115-128.
- 1962. Paleomagnetism and correlation of Keweenaw rocks (with French abs.): Canada Geol. Survey, Bull. 71, 75 p.
- DuBois, Roger Normand.** 1972. Inverse relation between foreshore slope and mean grain size as a function of the heavy mineral content: G.S.A., Bull., v. 83, no. 3, p. 871-875, illus.
- 1973a. Seasonal variations in beach and near-shore morphology and sedimentology along a profile of Lake Michigan, Wisconsin: Dissert. Abs. Internat., Sec. B, v. 33, no. 7, p. 3132-B.
- 1973b. Seasonal variations of a limnic beach: G.S.A., Bull., v. 84, p. 1817-1824.
- 1975. Support and refinement of the Bruun Rule on beach erosion: Jour. Geol., v. 83, no. 5, p. 651-657, illus.
- Dudley, John G.; Stephenson, David A.** 1973. Nutrient enrichment of groundwater from septic tank disposal systems: Upper Great Lakes Regional Comm., Inland Lake Renewal and Shoreland Management Demonstration Project Rpt., 131 p., illus.
- Duncan, Donald C.** see Lochman, Christina

- Dunlop, J.P.** 1931. Silver, copper, lead, and zinc in central states, Wisconsin: U.S. Bur. Mines, Mineral resources of the U.S., 1928, pt. 1, p. 201-203, tables.
- Dunnewald, T.J.** *see* Whitson, Andrew Robeson
- Durand, Loyal, Jr.** 1933. Physiographic diagram of Wisconsin: Maplewood, New Jersey, Geographical Press, scale app. 1:2,000,000, text.
- 1941. The glaciated sand region of central Wisconsin: *Assoc. Am. Geog., Annals*, v. 31, p. 289-309.
- 1944. The west Shawano upland of Wisconsin; a study of regional development basic to the problem of part of the Great Lakes cut-over region: *Assoc. Am. Geog., Annals*, v. 34, no. 3, p. 135-163.
- Durfor, Charles N.; Becker, Edith.** 1964. Public water supplies of the 100 largest cities in the United States: U.S.G.S., Water-Supply Paper 1812, p. 361-364, tables.
- Dury, George H.** *see also* Habermann, Gail M.
- 1962. Results of seismic exploration of meandering valleys: *Am. Jour. Sci.*, v. 260, no. 9, p. 691-706, illus., tables.
- 1964a. Principles of underfit streams: U.S.G.S., Prof. Paper 452-A, 67 p., illus.
- 1964b. Subsurface exploration and chronology of underfit streams: U.S.G.S., Prof. Paper 452-B, 56 p., map, illus.
- 1965. Theoretical implications of underfit streams: U.S.G.S., Prof. Paper 452-C, 43 p., illus., tables.
- 1971. Relict deep weathering and duricrusting in relation to the paleoenvironments of middle latitudes: *Geographical Jour.*, v. 137, pt. 4, p. 511-522.
- 1973. Southwest Wisconsin as a duricrusted pediplain in *Inst. Lake Superior Geology*, 19th Ann., 1973, Technical programs and abstracts: *Wis. Geol. and Nat. History Survey; Univ. Wis., Geology Depts.*, p. 10.
- 1974. Meandering valleys and underfit streams in southwest Wisconsin in *Knox and Mickelson, eds., Late Quaternary environments of Wisconsin: Madison, Am. Quaternary Assoc., Third biennial mtg.*, p. 93-101, illus.
- Dury, George H.; Knox, James Clarence.** 1971. Duricrusts and deep-weathering profiles in southwestern Wisconsin: *Science*, v. 174, no. 4006, p. 291-292.
- 1975. Geomorphic development of southwestern Wisconsin in *Landscape of Wisconsin, a field guide: Zakrzewska-Borowiecki, B., ed.*, p. 15-23, *Assoc. Am. Geol.*, illus., map.
- Dutton, Carl E. (and others).** 1973. Guidebook to the Precambrian geology of northeastern and northcentral Wisconsin: *Wis. Geol. and Nat. History Survey*, 19th Ann. *Inst. Lake Superior Geology*, 86 p., illus., maps.
- Dutton, Carl E.** *see also* Bayley, R.W.
- *see also* LaBerge, Gene L.
- *see also* Weis, Leonard Walter
- 1952. Memorandum on iron deposits in the United States of America in *Blondel and Marvier, eds., Symposium sur les gisements de fer du monde: Internat. Geol. Cong., 19th, Algiers, tome 1*, p. 371-411, illus.
- 1960. Geology of northern part of Florence, Wisconsin, area (abs.) in *Inst. Lake Superior Geology*, 6th Ann., 1960: *Madison, Univ. Wis., Dept. Geology; Wis. Geol. and Nat. History Survey*, p. 19.
- 1964. Geology of the Florence area, Wisconsin-Michigan (abs.) in *Inst. Lake Superior Geology*, 10th Ann., 1964: *Ishpeming, Mich., Marquette Range Comm.*, p. 21-22.
- 1968. Summary report on the geology and mineral resources of the Huron, Seney, Michigan Islands, Green Bay, and Gravel Island National Wildlife Refuges of Michigan and Wisconsin: U.S.G.S., Bull. 1260-I, p. 11-114, illus.; (abs.) *Abs. North Am. Geol.*, p. 639, May 1968.
- 1971a. Geology of the Florence area, Wisconsin and Michigan: U.S.G.S., Prof. Paper 633, 54 p., tables, map.
- 1971b. Volcanic-sedimentary belts and sulfide occurrences in Wisconsin: U.S.G.S., Prof. Paper 750B, p. B96-B100, maps.
- Dutton, Carl E.; Bradley, Reta E.** 1970a. Lithologic, geophysical, and mineral commodity maps of Precambrian rocks in Wisconsin: U.S.G.S., Misc. Geol. Inv. Map I-631, scale 1:500,000, 6 sheets, tables, separate text.
- 1970b. Lithologic, geophysical, and mineral commodity maps of Precambrian rocks in Wisconsin (explanatory text): U.S.G.S., 15 p., sketch maps (accompanies *Misc. Geol. Inv. Map I-631*).
- Dutton, Carl E.; Linebaugh, Reta E.** 1967. Map showing Precambrian geology of the Menominee iron-bearing district and vicinity, Michigan and Wisconsin: U.S.G.S., Misc. Geol. Inv. Map I-466, scale 1:125,000.
- Dutton, Carl E.; White, Walter S.** 1977. Copper resources of Wisconsin: *Univ. Wis., UIR/Research Newsletter*, v. 12, no. 1, p. 8.
- Easterbrook, Don J.** 1969. Radioisotope chronology of the middle and late Wisconsin (abs): *G.S.A., Sp. Paper* 121, p. 85
- Eastman, Charles Rochester.** 1898. Dentition of Devonian ptyctodontidae: *Am. Naturalist*, v. 32, no. 379, p. 473-488; no. 380, 545-560, illus.
- Eaton, James Howard.** 1872. Report of the geology of the region about Devil's Lake: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 1, p. 124-128.
- 1873. On the relations of the sandstone, conglomerates, and limestones of Sauk Co., Wisconsin to each other and to the Azoic: *Am. Jour. Sci.*, v. 5 (3) p. 444-447, map.
- 1874. On the relation of the sandstones, conglomerates, and limestones of the Baraboo Valley to each other and to the Azoic quartzites: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 2, p. 123-127, illus.
- Eckel, Edwin Clarence (and others).** 1905. Cement materials and industry of the United States: U.S.G.S., Bull. 243, p. 329-330, 354-355.
- Eckel, Edwin Clarence.** 1913. Portland cement materials and industry in the United States, with contributions by E.F. Burchard and others: U.S.G.S., Bull. 522, p. 371-373.
- Edgington, David N.; Callender, Edward.** 1970. Minor element geochemistry of Lake Michigan ferromanganese nodules: *Earth Planet Sci. Letters*, v. 8, no. 2, p. 97-100, map.
- Edil, Tuncer B.** 1974. Laboratory investigation of the shear strength of two clays from Appleton, Wisconsin: *Univ. Wis., Madison, Soil Mechanics Lab, Tech. rpt.* 1,
- 1975. Laboratory investigation of the shear strength of two clays from Kimberly, Wisconsin: *Univ. Wis., Madison, Soil Mechanics Lab, Tech. rpt.* 2.
- Edil, Tuncer B.; Vallejo, Luis E.** 1976. Shoreline erosion and landslides in the Great Lakes: *Univ. Wis., Madison, Sea Grant Advisory Rpt.*, No. 15.
- Edwards, Arthur Mead.** 1861a. On some sub-peat deposits of diatomaceae: *Boston Soc. Nat. History, Proc.*, v. 7, p. 283-287.
- 1861b. On the diatomaceous forms contained in a peat marl from Milwaukee: *Boston Soc. Nat. History, Proc.*, v. 7, p. 79-80.
- Edwards, Frank W.** 1939. Model study of sediment removal at Gays Mills hydro-electric plant, Wisconsin (abs.): *Iowa Univ., Studies in Eng., Bull.* 19, p. 56.
- Edwards, George E.** 1907. The lead and zinc fields of southwestern Wisconsin: *Mining World*, v. 27, p. 279-280.
- Edwards, Ira.** 1922. Glacial Lake Lapham—a preliminary announcement: *Milwaukee Public Museum, Yearbook*, 1921, v. 1, p. 94-99, illus.
- 1926a. The new geological groups (in the Public Museum of the city of Milwaukee): *Milwaukee Public Museum, Yearbook*, 1924, v. 4, p. 122-129, illus.
- 1926b. The sea caves of Devil's Island: *Milwaukee Public Museum, Yearbook*, 1924 v. 4, p. 94-98, illus.
- 1935. Isopach maps of the Trempealeau, Franconia, and Dresbach Formations (upper Mississippi Valley): *Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook*, p. 352-353, illus., maps, text.
- Edwards, Ira; Raasch, Gilbert.** 1922. Notes on the occurrence of upper Devonian strata in Wisconsin: *Milwaukee Public Museum, Yearbook*, 1921, v. 1, p. 88-93.
- Edwards, Max J. (and others).** 1932a. Soil survey of Trempealeau Co., Wisconsin: U.S.D.A., Bur. Chemistry and Soils, no. 35 (series 1927) 50 p., tables, map.
- 1932b. Soil survey of Vernon Co., Wisconsin: U.S.D.A., Bur. Chemistry and Soils, no. 21 (series 1928) 43 p., tables, map.
- 1935. Soil survey of Crawford Co., Wisconsin: U.S.D.A., Bur. Chemistry and Soils, no. 34 (series 1930) 39 p., illus., map.
- Ehr, Bob; Casper, Cheri; Hennings, Kevin.** 1974. Guide to the caves of Wisconsin: *Wis. Speleological Soc.*, 22 p., illus.
- Ekern, George Lewis; Thwaites, Fredrik Turville.** 1930. The Glover Bluff structure, a disturbed area in the Paleozoics of Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 25, p. 89-97, illus.
- Ekren, Einar Bartlett.** *see* Frischknecht, Frank Conrad
- Elder, Stanley G.** 1936. The contact between the Glenwood and Platteville Formations: *Ill. Acad. Sci., Trans.*, v. 29, no. 2, p. 164-166.
- Elders, W.A.** 1968. Mantled feldspars from the granites of Wisconsin: *Jour. Geol.*, v. 76, no. 1, p. 37-49, illus.; (abs.) *Abs. North Am. Geol.*, p. 1139, August 1968.
- Elftman, Arthur Hugo.** 1898. The St. Croix River Valley: *Am. Geologist*, v. 22, p. 58-61.
- Ellis, E.E.** 1905. Zinc and lead mines near Dodgeville, Wisconsin: U.S.G.S., Bull. 280, p. 311-315.
- Ellis, M.M.** 1936. Erosion silt as a factor in aquatic environments: *Ecology*, v. 17, no. 1, p. 29-42, illus.
- Ellsworth, Elmer William.** 1932. Varved clays of Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 27, p. 47-58, illus.
- Ellsworth, Elmer William; Wilgus, Wallace L.** 1930. The varved clay deposit at Waupaca, Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 25, p. 99-111, illus.
- Emanuel, Richard P.** 1978. Manganese nodules: *Univ. Wis., UIR/Research Newsletter*, v. 12, no. 3, p. 28-29.
- Emielty, Joseph G.** 1963. Silurian trilobites of southeastern Wisconsin—guide for fossil collectors: *Milwaukee Public Museum, Pubs. Geology*, no. 1, 36 p., illus.
- Emmons, Richard Conrad (and others).** 1953. Selected petrogenetic relationships of plagioclase: *G.S.A., Mem.* 52, 142 p., illus.; *G.S.A., Bull.*, v. 66, no. 8, p. 1061, 1955.
- Emmons, Richard Conrad.** 1940. The contribution of differential pressures to magmatic differentiation: *Am. Jour. Sci.*, v. 238, no. 1, p. 1-21, illus.
- 1945. Nepheline syenites of Wausau, Wisconsin (abs.): *Am. Mineralogist*, v. 30, nos. 3-4, p. 169.

- 1953. Northern Wisconsin: Tri-State Geological Field Conf., 17th Ann., Guidebook, Univ. Wis., Geology Club, 11 p.
- 1964. Granites by recrystallization: *Am. Jour. Sci.*, v. 262, no. 5, p. 561-591, illus., tables.
- Emmons, Samuel Franklin.** 1893. From Chicago to the Mississippi River, itinerary: *Internat. Geol. Cong.*, 5th sess., 1891, Comptes Rendu, p. 298-301.
- 1894. Geological distribution of the useful metals in the United States: *Am. Inst. Mining Eng., Trans.*, v. 22, p. 53-95.
- Emmons, William H.** 1929. The origin of the deposits of sulphide ores of the Mississippi Valley: *Econ. Geology*, v. 24, no. 3, p. 221-271, illus.
- Emrich, Grover Harry.** 1962. Geology of the Ironton and Galesville sandstones of the upper Mississippi Valley (abs.): *Dissert. Abs.*, v. 23, no. 2, p. 599-600.
- 1966. Ironton and Galesville (Cambrian) sandstones in Illinois and adjacent areas: *Ill. Geol. Survey, Circ.* 403, 55 p., illus., tables.
- Engel, A.L.; Shelton, S.M.** 1942. Ore-testing studies of the ore-dressing section, fiscal year 1941: *U.S. Bur. Mines, Rpt.* 3628, Progress reports—Metallurgical Div. 52, p. 21, illus.
- Engel, Robert J. (and others).** 1974. Soil survey of Rock Co., Wisconsin: U.S.D.A., Soil Conservation Service, 165 p., illus., maps.
- Engel, Robert J.; Roberts, Bruce A.; Steingraeber, Joseph A.** 1978. Soil survey of Sheboygan Co., Wisconsin: U.S.D.A., Soil Conservation Service, 116 p., illus., maps.
- Engstrom, Wayne N.** 1972. Spatial patterns in beach morphology and sedimentology in the Apostle Islands of northern Wisconsin: *Dissert. Abs. Internat.*, Sec. B, v. 32, no. 10, p. 5861B.
- 1973. A method of predicting beach orientation: *Prof. Geog.*, v. 25, no. 1, p. 12-15, maps.
- 1974a. Beach foreshore sedimentology and morphology in the Apostle Islands of northern Wisconsin: *Jour. Sed. Petrology*, v. 44, no. 1, p. 190-206, illus.
- 1974b. Spatial variations in beach height and width in the Apostle Islands, northern Wisconsin (abs.): *Assoc. Pacific Coast Geog., Yearbook*, v. 36, p. 146-147.
- Erdosh, George.** 1974. Geology and exploration on the Canadian Shield's extension in Wisconsin-Michigan (abs.): *Geological Assoc. Canada-Mineralogical Assoc. Canada, Ann. Mtg.*, program abstracts, p. 26.
- 1975. Geology and exploration of the southern province of the Canadian Shield in Wisconsin-Michigan: *Can. Min. Metall., Bull.*, v. 68, no. 755, p. 130-132, map.
- Erickson, Alvin J., Jr.** 1965. Temperatures of calcite deposition in the upper Mississippi Valley lead-zinc deposits: *Econ. Geology*, v. 60, no. 3, p. 506-528, illus., tables.
- Erickson, Robert M.** *see also* Audini, Roy E.
- 1972. Trends in ground-water levels in Wisconsin, 1967-71: *Wis. Geol. and Nat. History Survey, Inf. Circ.* 21, Supplement to Inf. Circ. 9, 40 p., illus., maps.
- Ericson, D.W.** *see* Weeks, Edwin P.
- Ervin, C. Patrick.** *see* Hammer, Sigmund
- Ervin, C. Patrick; Hammer, Sigmund.** 1974. Bouguer anomaly gravity map of Wisconsin: *Wis. Geol. and Nat. History Survey*, scale 1:500,000, two sheets, separate text.
- 1975. Wisconsin's gravity pattern mapped: *Univ. Wis. UIR/Research Newsletter*, v. 9, no. 2, winter, p. 18-19.
- Eschman, D.F.** *see* Evenson, Edward Bernard
- Eubenzler, G.D.; Huffman, S.F.; Swanson, R.A.** 1976. Tourist induced sedimentation along the Apple River, Somerset, Wis. consin (abs.): *G.S.A., Abs. with Programs*, v. 8, no. 4, p. 468-469.
- Evans, Richard.** 1945. Bottom deposits of the Brule River: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 37, p. 325-335, illus.
- Evans, T.A., Jr.; Pennington, J.W.; Wasson, P.A.** 1957. Flotation of iron sulfides from zinc tailings of southwestern Wisconsin lead-zinc district: *U.S. Bur. Mines, Rpt. Inv.* 5324, 9 p.
- Evenson, Edward Bernard (and others).** 1976 (75). Greatlakean substage; a replacement for Valderan substage in the Lake Michigan Basin: *Quaternary Research*, v. 6, p. 411-424.
- Evenson, Edward Bernard.** *see also* Mickelson, David M.
- 1969. Relationship of microfibrils to macrofibrils and the genesis of glacial landforms (abs.): *G.S.A., Abs. with Programs*, pt. 6, p. 14.
- 1971. The relationship of macro- and microfibril of till and the genesis of glacial landforms in Jefferson Co., Wisconsin in Till, a symposium: Columbus, Ohio State Univ. Press, p. 345-364, illus., map.
- 1972. Late Pleistocene shorelines and stratigraphic relationships in the Lake Michigan basin: *Dissert. Abs. Internat.*, Sec. B, v. 33, no. 5, p. 2153B.
- 1973a. Late Pleistocene shorelines and stratigraphic relations in the Lake Michigan basin: *G.S.A., Bull.*, v. 84, p. 2281-2298.
- 1973b. A reevaluation of the "Valders" limit in the Lake Michigan basin in Evenson, E.B.; Eschman, D.F.; Farrand, W.R., eds., The "Valders" problem, Lake Michigan basin: *Midwest Friends of the Pleistocene*, 22d Ann. Field Conf., p. 1-29.
- Evenson, Edward Bernard; Eschman, D.F.; Farrand, William R., eds.** 1973. The "Valders" problem, Lake Michigan basin: *Midwest Friends of the Pleistocene*, 22d Ann. Field Conf., 59 p.
- Evenson, Edward Bernard; Farrand, William R.** 1971. Further revision of the Valders drift border of the Lake Michigan lobe: *G.S.A., Abs. with Programs*, v. 3, no. 7, p. 560.
- Evenson, Edward Bernard; Farrand, William R.; Eschman, D.F.** 1974. Late Pleistocene shoreline and stratigraphic relations in the Lake Michigan basin, a reply: *G.S.A., Bull.*, v. 85, no. 4, p. 661-664, map.
- Evenson, Edward Bernard; Mickelson, David M.** 1974. A reevaluation of the lobation and red till stratigraphy and nomenclature in part of eastern Wisconsin in Knox and Mickelson, eds., Late Quaternary environments of Wisconsin: *Madison, Am. Quaternary Assoc., third biennial mtg.*, p. 102-117, illus.
- Ewoldt, Harold Boaden; Reynolds, Robert Ramon.** 1951. Exploration for lead and zinc (Mississippi Valley): *Mining Eng.*, v. 3, no. 3, p. 230-231, illus.
- Fairchild, Herman LeRoy.** 1911. Radiation of glacial flow as a factor in drumlin formation (discussion): *G.S.A., Bull.*, v. 22, p. 734.
- Falay, O.** *see* Denning, J.L.
- Fanning, Delvin Seymour.** 1964. Mineralogy as related to the genesis of some Wisconsin soils developed in loess and in shale-derived till (abs.): *Dissert. Abs.*, v. 25, no. 2, p. 1243-1244.
- Fanning, Delvin Seymour; Jackson, Marion L.** 1966. Clay mineral weathering in southern Wisconsin soils developed in loess and in shale-derived till in Clays and clay minerals (v. 13)-*Natl. Conf. Clays and Clay Minerals*, 13th, Madison, Wis., 1964, Proc.: New York, Pergamon Press (*Internat. Ser. Mon. Earth Sci.*, v. 25) p. 175-191, illus., tables.
- 1967. Zirconium content of coarse silt from Wisconsin soils and sediments: *Soil Sci.*, v. 103, no. 4, p. 253-260, illus.
- Farkas, Steven Eugene.** 1960. Cross-lamination analysis in the Upper Cambrian Franconia Formation of Wisconsin: *Jour. Sed. Petrology*, v. 30, no. 3, p. 447-458, tables, maps.
- Farnham, Paul Rex.** *see also* Johnson, S.H.
- 1968. Crustal structure in the Keweenaw province of east-central Minnesota and western Wisconsin (abs.): *Dissert. Abs.*, Sec. B, v. 28, no. 12, pt. 1, p. 5079B.
- Farrand, William R.** *see also* Broecker, Wallace S.
- *see also* Evenson, Edward Bernard
- 1969. The quaternary history of Lake Superior: *Internat. Assoc. Great Lakes Research*, 12th Conf., Proc., p. 181-197, illus., tables.
- 1970. Revision of the Valders drift border of the Lake Michigan lobe (abs.): *G.S.A., Abs. with Programs*, v. 2, no. 6, p. 387.
- Farrand, William R.; Zahner, Robert; Benninghoff, William S.** 1969a. Buried bryophyte bed, Cheboygan County, Michigan (abs.): *G.S.A., Sp. Paper* 121, p. 655-656.
- 1969b. Cary-Port Huron interstade - evidence from a buried bryophyte bed, Cheboygan Co., Michigan in United States contributions to Quaternary research - *Internat. Assoc. Quaternary Research*, 8th Cong., Paris, 1969: *G.S.A., Sp. Paper* 123, p. 249-262, illus. (abs.) *Abs. North Am. Geol.*, p. 187, Feb. 1970.
- Farrand, William R.; Zumberge, James Herbert; Parder, J.** 1966. New bathymetric map of Lake Superior and some geological implications (abs.) in *Inst. Lake Superior Geology*, 12th Ann. Conf., 1966: *Sault St. Marie, Mich., Michigan Tech. Univ.*, p. 6.
- Farrington, Oliver Cummings.** 1914. New meteorites: *Field Museum Nat. History (geol. ser.)* v. 5, no. 1, p. 10-12, illus.
- Fassbender, Ronald L.** *see also* Nelson, Linden M.
- 1971. Surface water resources of Calumet County: *Wis. Dept. Nat. Resources, Lake and stream classification project*, 49 p., maps.
- Fassbender, Ronald L.; Nelson, Linden M.** 1971. Surface water resources of Portage County: *Wis. Dept. Nat. Resources, Lake and stream classification project*, 81 p., maps.
- Fassbender, Ronald L.; Weber, John J.; Nelson, Linden M.** 1970. Surface water resources of Green Lake County: *Wis. Dept. Nat. Resources, Lake and stream classification project* 72 p., maps.
- Fassbender, Ronald L.; Weber, John J.; Threinen, C.W.** 1970. Surface water resources of Waushara County: *Wis. Dept. Nat. Resources, Lake and stream classification project*, 99 p., tables, maps.
- 1971. Surface water resources of Waupaca County: *Wis. Dept. Nat. Resources, Lake and stream classification project*, 89 p., maps.
- Fassett, N.C.** *see* Aldrich, Henry Ray
- Faure, G.** *see* Chaudhuri, Sambhudas
- Featherstonhaugh, George William.** 1836. Report of a geological reconnaissance made in 1835 from the seat of government by the way of Green Bay and the Wisconsin Territory to the Coteau du Prairie, an elevated ridge dividing the Missouri from the St. Peter's River: *U.S., 24th Cong., 2d Sess., Senate Ex. Doc.* 333, 168 p.
- 1847. A canoe voyage up the Minnaw Sotor; with an account of the lead and copper deposits in Wisconsin; of the gold region in the Cherokee country; and sketches of popular manners, etc.: *London*, 2 vols., 416 p., 315 p., illus., maps.
- Federal Inter-Agency River Basin Committee.** 1949. Inventory of published and unpublished sediment-load data in the United States: *U.S.D.A., Soil Conservation Service, Sedimentation Bull.* 1, pt. 5, p. 18-19.
- 1952. Inventory of published and unpublished sediment load data in the United States - supplement 1946-1950: *U.S.D.A., Soil Conservation Service, Sedimentation Bull.* 4, 49 p.

- 1953a. Summary of reservoir sedimentation surveys for the United States through 1950: U.S.D.A., Soil Conservation Service, Sedimentation Bull. 5, 31 p.
- 1953b. Summary of reservoir sedimentation surveys made in the United States through 1950—appendix: U.S.D.A., Soil Conservation Service, Appendix to Sedimentation Bull. 5, p. 27; 1-27; 5.
- 1957. Summary of reservoir sedimentation surveys made in the United States through 1953: U.S.D.A., Soil Conservation Service, Sedimentation Bull. 6, 47 p.
- Feniak, Oliver W.** see Belk, William Charles
- Fenneman, Nevin Melancthon.** 1902. On the lakes of southeastern Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 8 (ed. ser. 2) 178 p., illus., map; rev. ed. 1910, 188 p.
- 1906. Flood plains produced without floods: Am. Geog. Soc., Bull., v. 38, no. 27, p. 89-91.
- 1914. On the Camp Douglas Country: Assoc. Am. Geographers, Annals, v. 4, p. 106.
- Fenton, Carroll Lane; Fenton, Mildred A.** 1924. Some Black River brachiopods from the Mississippi Valley: Iowa Acad. Sci., Proc., 1922, v. 29, p. 67-77, illus.
- Fenton, Mildred A.** see Fenton, Carroll Lane
- Feray, Dan Edwards.** see Twenhofel, William Henry
- Ferguson, H.B.** 1922. Reexamination of Fox River, Wisconsin in Weeks, John W., Fox River, Wisconsin: U.S., 67th Cong., 2d Sess., House Doc. 146, p. 14-33, tables.
- Fergusson, G.J.** see Berger, Rainer
- Feth, John H. (and others).** 1965. Preliminary map of the conterminous United States showing depth to and quality of shallowest ground water containing more than 1,000 ppm dissolved solids: U.S.G.S., Hydrol. Inv. Atlas HA-199, scale 1:3,168,000, 2 sheets.
- Fetter, C.W., Jr.** 1976. Impact of ground-water pumpage on the low-flow hydrology of the Yahara River in south-central Wisconsin (abs.): G.S.A., Abs. with Programs, v. 8, no. 4, p. 476.
- Field, Stephen J.** see also Oakes, Edward L.
- 1978. Ten-year low mean monthly discharge determinations for ungaged streams near waste-stabilization ponds in Wisconsin: U.S.G.S., Water Resources Inv. 78-49, 16 p.
- Finley, Robert William.** 1976. Geography of Wisconsin; a content outline: Univ. Wis. Press, 558 p.
- Fischer, Warren C.** 1971. The Whitewater area, regional planning by glacier: Wisconsin Academy Review, v. 18, no. 2, p. 6-9, illus.
- Fisher, Alfred G.; Mason, Arnold C.; Twenhofel, William Henry.** 1940. Survey of Pokerville cave, near Blue Mounds, Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 32, p. 243-250, illus., map.
- Fisher, Davenport.** 1887. Description of an iron meteorite from St. Croix Co., Wisconsin: Am. Jour. Sci., v. 34 (3) p. 381-383.
- Fisher, James.** see Hotchkiss, William Otis
- Flanagan, John.** 1842. Report relative to lead mines in Illinois, Wisconsin, and Iowa: U.S., 27th Cong., 2d Sess., House Doc. 122, serial no. 403, 6 p.
- Flanigan, Thomas H.** 1942. Limnological observations on three lakes in eastern Vilas County: Wis. Acad. Sci., Arts, and Letters, Trans., v. 34, p. 167-175, illus.
- Flint, Arthur Emerson.** see also Agnew, Allen Francis
- see also Allingham, John Wing
- 1956. Stratigraphic relations of the Shakopee dolomite and the St. Peter sandstone in southwestern Wisconsin: Jour. Geol., v. 64, no. 4, p. 396-421, illus.
- Flint, Richard Foster.** see also Hindall, Stephen M.
- 1947. Glacial geology and the Pleistocene epoch: New York, John Wiley and Sons, Inc., p. 250-261, illus.
- Flint, Richard Foster; Deevey, Edward Smith, Jr.** 1951. Radiocarbon dating of late Pleistocene events: Am. Jour. Sci., v. 249, no. 4, p. 257-300, illus.
- Foerste, August Frederick.** 1920. Racine and Cedarville cystoids and blastoids, with notes on their echinoderms: Ohio Jour. Sci., v. 21, no. 2, p. 33-78, illus.
- 1928. A restudy of some of the Ordovician and Silurian cephalopods described by Hall: Denison Univ., Bull., v. 38, no. 8 (Sci. Lab. Jour., v. 23) p. 173-230, illus.
- 1930. Three studies of cephalopods: Denison Univ., Bull., v. 29, no. 10 (Sci. Lab. Jour., v. 24) p. 265-381, illus.
- 1932. Black River and other cephalopods from Minnesota, Wisconsin, Michigan and Ontario, pt. 1: Denison Univ., Bull., v. 32 (Sci. Lab. Jour., v. 27) p. 47-147, illus.; pt. 2, Bull., v. 33, no. 3 (Sci. Lab. Jour., v. 28) p. 1-146, 1933.
- Foley, Frank Clingan.** 1952. Sources of recharge to deep artesian aquifers in southeastern Wisconsin (abs.): G.S.A., Bull., v. 63, no. 12, pt. 2, p. 1380.
- Foley, Frank Clingan; Drescher, William James; Hendrickson, Gerth E.** 1947. Ground-water studies in Wisconsin: Am. Water Works Assoc., Jour., v. 39, no. 4, p. 369-379, illus., maps.
- Foley, Frank Clingan; Smith, Harman F.** 1955. Ground-water recharge of a deeply buried artesian aquifer in Illinois and Wisconsin, U.S.A.: Internat. Geod. Geophys. Union, Sci. Hydrology Gen. Assembly, Rome, 1954, tome 2, p. 225-231, illus.; Internat. Assoc. Sci. Hydrology, Pub. no. 37.
- Foley, Frank Clingan; Walton, William C.; Drescher, William James.** 1953. Groundwater conditions in the Milwaukee-Waukesha area, Wisconsin: U.S.G.S., Water-Supply Paper 1229, 96 p., illus.
- Folger, Anthony (and others).** 1931. Geologic descriptions of States included in central United States cross section in Guidebook, 5th Ann. Field Conf.: Kansas Geol. Soc., 96 p.
- Follansbee, Robert.** see Horton, A.H.
- Folsom, W.H.C.** 1888. On Driftless Area phenomena in Fifty Years in the Northwest: St. Paul, p. 383-384.
- Foss, J.E.** see also Kline, J.R.
- Foss, J.E.; Rust, R.H.** 1968. Soil genesis study of a lithologic discontinuity in glacial drift in western Wisconsin: Soil Sci. Soc. Am., Proc., v. 32, no. 3, p. 393-398, illus., tables; (abs.) Abs. North Am. Geol., p. 1803, Dec.
- Foster, John Wells.** 1849. Notes on the geology and topography of portions of the country adjacent to Lakes Superior and Michigan, in the Chippewa Land District: U.S., 31st Cong., 1st Sess., House Ex. Doc. 5, pt. 3; 31st Cong., 1st Sess., Senate Doc., v. 3, no. 1, p. 773-801.
- 1869. The Mississippi Valley; its physical geography, with sketches of topography, etc.: Chicago, S.C. Griggs & Co., 443 p.
- Foster, John Wells; Kimball, J.P.** 1865. Geology and metallurgy of the iron ores of Lake Superior, Iron Cliffs Company: New York, 98 p., maps.
- Foster, John Wells; Whitney, Josiah Dwight.** 1850. Report on the geology and topography of a portion of the Lake Superior land district in the State of Michigan, pt. 1, copper lands: U.S., 31st Cong., 1st Sess., House Ex. Doc. 69, 224 p., illus.
- 1851a. On the age of the sandstone of Lake Superior, with a description of the phenomena of the association of igneous rocks: Am. Assoc. Adv. Sci., Proc., v. 5, p. 22-38; (abs.) Soc. Geol. France, Bull., v. 9 (2) p. 313, 1852.
- 1851b. On the Azoic system as developed in the Lake Superior land district (abs.): Am. Assoc. Adv. Sci., Proc., v. 5, p. 4-7; Soc. Geol. France, Bull., v. 9 (2) p. 312-313, 1852.
- 1851c. Report on the geology of the Lake Superior land district, pt. II, the iron region, together with general geology: U.S., 32d Cong., Sp. Sess., Senate Ex. Doc. 4, p. 1-139, 176-177, 183-194, 195-202, illus., maps; Am. Jour. Sci., v. 15 (2) p. 295-296; v. 17, p. 11-33, 1854.
- Foster, W.R.** see Lawson, C.E.
- Fox, W.T.; Davis, R.A.** 1972. Coastal processes and beach dynamics at Sheboygan, Wisconsin: Wis. Dept. Nat. Resources, Tech. Rpt. no. 10, Contract 388-092, 94 p.
- 1973. Simulation model for storm cycles and beach erosion on Lake Michigan: G.S.A., Bull., v. 84, p. 1769-1790.
- Fraser, D.C.** 1961. A syngenetic copper deposit of Recent age: Econ. Geology, v. 56, p. 951-962.
- Fraser, G.S.** 1976. Sedimentology of the Middle Ordovician quartz arenite-carbonate transition in the upper Mississippi Valley: G.S.A., Bull., v. 87, no. 6, p. 833-845, illus., maps.
- Fraser, G.S.; Hester, N.C.** 1977. Sediments and sedimentary structures of a beach-ridge complex, southwestern shore of Lake Michigan: Jour. Sed. Petrology, v. 47, no. 3, p. 1187-1200, illus., maps.
- Frazer, Norman K.** 1966. The caves of Dane County: Wis. Speleologist, v. 5, no. 3, p. 82-93, illus.
- 1967. Caves of Green Co., Wisconsin: Wis. Speleologist, v. 6, nos. 3-4, p. 40-42, illus.
- 1968. Caves of Juneau Co., Wisconsin: Wis. Speleologist, v. 7, no. 2, p. 47-50, illus.
- 1970. The caves along the upper part of Cady Creek, Saint Croix Co., Wisconsin: Wis. Speleologist, v. 9, no. 1, p. 13-21, illus.
- Frazier, B.E.; Kiefer, Ralph W.; Krauskopf, Thomas.** 1975. Statewide wetland mapping using Landsat imagery in Shahroki, F., ed., Remote sensing of earth resources: Tullahoma, Tenn., Univ. Tenn. Space Inst., v. 4, p. 267-280, illus., map.
- Frazier, B.E.; Lee, Gerhard B.** 1971. Characteristics and classification of three Wisconsin Histosols: Soil Sci. Soc. Am., Proc., v. 35, p. 776-780.
- Fred, E.B.** see Domogalla, B.P.
- see Juday, Chancey
- Fredrickson, Edward Arthur, Jr.** see also Decker, Charles Elijah
- see also Wilson, James Lee
- 1941. Correlation of Cambro-Ordovician trilobites from Oklahoma: Jour. Paleontology, v. 15, no. 2, p. 160-163, illus.; (abs.) Oil and Gas Jour., v. 38, no. 48, p. 67, 1940.
- Freeman, K.J.; Vogel, T.A.; LaBerge, Gene L.** 1974. A quantitative textural analysis of a north central Wisconsin shear zone (abs.) in Inst. Lake Superior Geology, 20th Ann., Abs. and Field Guides: Sault Ste. Marie, Ontario, Sault College Applied Arts and Tech., p. 11-12.
- Frey, David Grover.** 1960. On the occurrence of cladocean remains in lake sediments (Wis.): Nat. Acad. Sci., Proc., v. 46, no. 6, p. 917-920, tables.
- Fricke, C.; Johnson, T.M.** 1977. Stratigraphic relationships of tills in central-southern Wisconsin (abs.): G.S.A., Abs. with Programs, v. 9, no. 5, p. 596.
- Friedman, Irving.** see Hall, Wayne E.
- Fries, Carl, Jr.** 1938. Geology and groundwater of the Trout Lake region, Vilas County, Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 31, p. 305-322, illus., maps.
- Frischknecht, Frank Conrad; Ekren, Einar Bartlett.** 1960. Mapping conductive strata by electromagnetic methods: U.S.G.S., Prof. Paper 400-B, p. B121-B125, illus.

- 1961. Electromagnetic studies of iron formations in the Lake Superior region: *Mining Eng.*, v. 13, no. 10, p. 1156-1162, illus.
- Frischknecht, Frank Conrad; Ekren, Einar Bartlett.** 1963. Evaluation of magnetic anomalies by electromagnetic measurement in Geological Survey Research 1963: U.S.G.S., Prof. Paper 475-C, p. C117-C120, illus.
- Friz, Thomas Otto.** *see also* Preston, John
- 1970. Man and the minerals of construction-how they interrelate in the seven counties of southwestern Wisconsin (abs.): *Dissert. Abs. Internat.*, Sec. B, v. 31, no. 2, p. 719B.
- 1975. Mineral resources, mining, and land-use planning in Wisconsin: *Wis. Geol. and Nat. History Survey, Inf. Circ.* 26, 61 p., illus., maps.
- Frommer, D.W.** *see* Heising, L.F.
- Frost, E.B.** 1917. The meteor of February 5, 1917: *Popular Astronomy*, v. 25, p. 253-255.
- Fruh, E. Gus (and others).** 1966. Measurements of eutrophication and trends: *Jour. Water Pollution Control Federation*, v. 38, no. 8, p. 1237-1258, illus.
- Frye, John Chapman (and others).** 1968. Definition of Wisconsinian Stage: U.S.G.S., Bull. 1274-E, p. E1-E22, illus.; (abs.) *Abs. North Am. Geol.*, p. 544, April 1969.
- Frye, John Chapman; Willman, Harold B.** 1960. Classification of the Wisconsinian Stage in the Lake Michigan glacial lobe: *Ill. State Geol. Survey, Circ.* 285, 16 p., illus.
- 1973. Wisconsinian climatic history interpreted from Lake Michigan lobe deposits and soils in Black, R.F.; Goldthwait, R.P.; Willman, H.B., eds., *The Wisconsinian Stage*: p. 135-152.
- Frye, John Chapman; Willman, Harold B.; Black, Robert Foster.** 1965. Outline of glacial geology of Illinois and Wisconsin in Wright and Frey, eds., *The Quaternary of the U.S.*: Princeton Univ. Press, p. 43-61, illus., tables.
- Fryxell, F.M.** 1927. The physiography of the region of Chicago: *Univ. Chicago Press*, 55 p., illus., maps.
- Fuller, George D.** 1935. Postglacial vegetation of the Lake Michigan region: *Ecology*, v. 16, no. 3, p. 473-487, illus., map; (abs.) *Am. Meteorol. Soc., Bull.*, v. 19, no. 5, p. 187-188.
- Fuller, Myron L.; Sanford, Samuel.** 1906. Record of deep-well drilling for 1905: U.S.G.S., Bull. 298, p. 295-6.
- Furnish, William Madison.** 1938. Conodonts from the Prairie du Chien (Lower Ordovician) beds of the upper Mississippi Valley: *Jour. Paleontology*, v. 12, no. 4, p. 318-340, illus.; (abs.) *G.S.A., Proc.*, 1937, p. 278.
- Gaenslen, George.** 1969. A trip on glacial geology in the north Kettle Moraine area: *Lore*, v. 19, no. 3, p. 85-97.
- Galkawad, Shankar T.; Hole, Francis D.** 1962. Characteristics and genesis of a podzol soil in Florence Co., Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, 1961, v. 50, p. 183-190, illus.
- 1965. Characteristics and genesis of a gravelly brunizemic regosol: *Soil Sci. Soc. Am., Proc.*, v. 29, no. 6, p. 725-728, illus.
- Gair, J.E.** *see* Cannon, W.F.
- *see* Prinz, William C.
- Galloway, Eleanor F.** *see* Wilson, Leonard Richard
- Gallup, F.L.** *see* Ries, Heinrich
- Galtsoff, P.S.** 1923-24. Limnological observations in the upper Mississippi, 1921: *U.S. Bur. Fisheries, Bull.*, v. 39, p. 347-448, illus.
- Gamble, Charles R.** *see* Patterson, James L.
- Gannett, Henry.** 1893. The average elevation of the United States: U.S.G.S., 13th Ann. Rpt., 1891-92, pt. 2, p. 283-289.
- 1895. A dictionary of geographic positions in the United States: U.S.G.S., Bull. 123, 183 p.
- 1896. Magnetic declination in the United States: U.S.G.S., 17th Ann. Rpt., 1895-96, pt. 1, p. 272-274, tables.
- Gardner, Wayne S.; Lee, G. Fred.** 1965. Oxygenation of lake sediments: *Internat. Jour. Air and Water Pollution*, v. 9, no. 9, p. 553-564.
- Garnett, T.H.** *see* Boericke, W.F.
- Garvey, Glenn D.** *see* Slota, Robert W.
- Gates, Robert Maynard.** 1942. The Baxter Hollow (Wis.) granite cupola: *Am. Mineralogist*, v. 27, no. 10, p. 699-711, illus.
- 1953. Petrogenic significance of perthite in Emmons, R.C., ed., *Selected petrogenic relationships of plagioclase*: G.S.A., Memoir 52, p. 55-70.
- Gates, T.M.** 1971. Measurement of the age of Canadian Precambrian diabase dike swarms: *Mass. Inst. Tech.*, 14th Ann. Progress Rpt., p. 36-57.
- Gaudette, Henri E.** 1965 Illite from Fond du Lac County, Wisconsin: *Am. Mineralogist*, v. 50, nos. 3-4, p. 411-417, illus, tables.
- Gavlin, S.; Byers, C.W.** 1976. Middle Ordovician (Black Riveran) communities in Wisconsin-Mifflin Submember of the Platteville Formation (abs.): *G.S.A., Abs. with Programs*, v. 8, no. 6, p. 880-881.
- Gebert, Warren A.** 1971. Low-flow frequency of Wisconsin streams: U.S.G.S., *Hydro. Inv. Atlas*, HA-390.
- 1978. Low-flow characteristics of streams in the lower Wisconsin River basin: U.S.G.S., *Water-Resources Inv.* 77-118, illus., maps.
- Gebert, Warren A.; Holmstrom, Barry K.** 1977. Low-flow characteristics at gaging stations on the Wisconsin, Fox, and Wolf Rivers, Wisconsin: U.S.G.S., *Water-Resources Inv.* 77-27, 24 p.
- Gebkin, DuWayne F.** *see* Klick, Thomas A.
- Geib, W.J.** *see also* Whitson, Andrew Robeson
- Geib, W.J. (and others).** 1920. Soil survey of Rock Co., Wisconsin: U.S.D.A., *Bur. Soils*, 51 p., map.
- 1924. Soil survey of Walworth Co., Wisconsin: U.S.D.A., *Bur. Soils*, 49 p., illus., map.
- 1929a. Soil survey of Monroe Co., Wisconsin: U.S.D.A., *Bur. Chemistry and Soils*, no. 40 (series 1923) 58 p., illus., map.
- 1929b. Soil survey of Sheboygan Co., Wisconsin: U.S.D.A., *Bur. Chemistry and Soils*, no. 18 (series 1924) 45 p., tables, map.
- 1930a. Soil survey of Calumet Co., Wisconsin: U.S.D.A., *Bureau of Chemistry and Soils*, no. 16 (series 1925) 28 p., illus., map.
- 1930b. Soil survey of Sauk Co., Wisconsin: U.S.D.A., *Bur. Chemistry and Soils*, no. 29 (series 1925) 32 p., tables, map.
- Geib, W.J.; Jones, Grove B.** 1905. Soil survey of the Carlton area, Minnesota-Wisconsin: U.S.D.A., *Bur. Soils, Field Operations*.
- Geib, W.J.; Taylor, Arthur E.; Conrey, Guy.** 1915. Soil survey of Dane Co., Wisconsin: U.S.D.A., *Bur. Soils*, 78 p., tables, map.
- Geisse, Elaine.** 1951. Syenites and nepheline syenites of Stettin, Marathon Co., Wisconsin (abs.): *G.S.A., Bull.* v.62, no. 12, pt. 2, p. 1442; *Am. Mineralogist*, v. 37, nos. 3-4, p. 291, Mar.-Apr. 1952.
- George, Harold Coulter.** 1910. Empire-Enterprise zinc mines, Wisconsin: *Eng. Mining Jour.*, v. 89, p. 1280-1282.
- 1915. The Wisconsin zinc district: *Eng. Mining Jour.*, v. 100, p. 295-300, 341-344, 385-388.
- 1917. The Wisconsin zinc district: *Am. Inst. Mining Eng. Bull.*, v. 132, p. 2045-2074; *Trans.*, v. 59, p. 117-150, illus., 1918.
- 1926. Some stalactitic forms of marcasite (lead and zinc district, Wis. and Ill.): *Oklahoma Acad. Sci., Proc.*, v. 5, 1925 (Oklahoma, Univ., Bull. (n s) no. 330, Univ. Studies no. 22) p. 125-127, illus.
- 1927. Some features of ore bodies formed in synclines by meteoritic waters: *Oklahoma Acad. Sci., Proc.*, v. 6, pt. 2, 1926 (Oklahoma, Univ., Bull. (n s) no. 348) p. 279-285, illus.
- Georgiady, Nicholas P.** *see* Romano, Louis G.
- Geraghty, James J.** *see* Miller, David William
- Gerhardt, Roger A.** 1977. Leachate attenuation in the unsaturated zone beneath three sanitary landfills in Wisconsin: *Wis. Geol. and Nat. History Survey, Inf. Circ.* 35, 93 p., illus.
- Gernay, Ronald** *see* Poff, Ronald J.
- Gerrard, Leigh P.** 1950. The Brule River of Wisconsin: *Winnetka, Ill., Westerners Brand Book*, v. 7, no. 1, 7 p.
- Gettle, Lewis E.; Kanneberg, Adolph; McDonald, Andrew R.** 1924. Water powers, 1914-1923: Madison, Wis., Wisconsin Railroad Commission, second rpt., pt. 1, hydrometric investigations; pt. 2, general water power matters, 575 p., tables.
- Gietkowski, Ron.** 1972. Caves of Sauk Co.: *Wis. Speleologist*, v. 11, no. 1, p. 1-25, illus.
- Gilbert, Grove Karl.** 1885. The topographic features of lake shores: U.S.G.S., 5th Ann. Rpt., p. 93-95.
- 1888. Changes of level of the Great Lakes: *Forum*, v. 5, p. 417-428.
- 1893a. On glacial erosion in the central plain in Geological excursion to the Rocky Mountains: Washington, Internat. Geol. Cong., 5th, *Compte Rendu*, 1891, p. 290.
- 1893b. On the Driftless Area in Geological guidebook of the Rocky Mountain Excursion: Washington Internat. Geol. Cong., 5th, *Compte Rendu*, 1891, p. 289-290.
- 1898. Recent earth movements in the Great Lakes region: U.S.G.S., 18th Ann. Rpt., pt. 2, p. 595-647.
- Gingnass, Michael.** 1906. Description of Fox, Wisconsin, and Mississippi rivers and Lake Pepin: *Wis. State Hist. Soc., Collections*, v. 17, p. 24-25.
- Glenn, R.C. (and others).** 1960. Chemical weathering of layer silicate clays in loess-derived Tama silt loam of southwestern Wisconsin in Swineford, Ada, ed., *Clays and clay minerals*, v. 8: *Nat. Conf. Clays and Clay Minerals*, 8th, Norman, Okla., Oct. 1959 Proc., p. 63-83; N.Y., Pergamon Press (*Internat. Earth Sci. Ser.*) Mon. 9.
- Glocker, Carl L.** 1974. Soil survey of Green Co., Wisconsin: U.S.D.A., *Soil Conservation Service*, 161 p., illus., maps.
- Goetz, B.; Stadnyk, L.; Whisnant, D.** 1973. Chemical and hydrological characteristics of the Wisconsin-Lake Superior drainage basin, eastern sector: *Conf. Great Lakes Research, Proc.*, no. 16, p. 243-251, illus., map.
- Goldich, Samuel S. (and others).** 1961. Summary of discussion of Precambrian geochronology of Minnesota and adjacent areas in J. Laurence Kulp, ed., *Geochronology of rock systems*: *New York Acad. Sci., Annals*, v. 91, art. 2, pt. IV, p. 442.
- 1966. Geochronology of the midcontinent region, U.S. pt. 2, northern area: *Jour. Geophys. Research*, v. 71, no. 22, p. 5389-5408.
- Goldich, Samuel S.** *see also* Morey, G.B.
- *see also* Whelan, James Arthur

- 1967. Geochronology in the Lake Superior region (abs.) in *Inst. Lake Superior Geology*, 13th Ann., East Lansing, Mich., 1967; East Lansing, Mich., Michigan State Univ., p. 13; *Canadian Jour. Earth Sci.*, v. 5, p. 715-724, 1968.
- 1972. The Penokean orogeny (abs.) in *Inst. Lake Superior Geology*, 18th Ann., 1972, Agenda and abstracts: Houghton, Mich., Michigan Tech. Univ., pt. 1, paper 25.
- Goldich, Samuel S.; Baadsgaard, Halfdan; Nier, Alfred O.** 1957. Investigation in A40/K40 dating: *Am. Geophys. Union, Trans.*, v. 38, p. 547-551.
- Goldich, Samuel S.; Nier, Alfred O.; Baadsgaard, Halfdan.** 1958. Threefold division of the Precambrian in the Lake Superior region (abs.): *Am. Geophys. Union, Trans.*, v. 39, no. 3, p. 516.
- Goldthwait, James Walter.** 1906a. Correlation of the raised beaches on the west side of Lake Michigan: *Jour. Geol.*, v. 14, no. 5, p. 411-424, illus.
- 1906b. Raised beaches on eastern Wisconsin (abs.): *Mich. Acad. Sci., Rpt.* 8, p. 98.
- 1907. The abandoned shorelines of eastern Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 17 (sci. ser. 5) 134 p., illus.
- 1908a. The altitude of the Algonquin beach and its significance (abs.): *Science*, v. 28 (n s) p. 382-383.
- 1908b. Intercision, a peculiar kind of modification of drainage: *School Sci. and Mathematics*, v. 8, no. 2, p. 129-139.
- 1908c. A reconstruction of the water planes of the extinct glacial lakes in the Lake Michigan Basin: *Jour. Geol.*, v. 16, no. 5, p. 459-476, illus.; (abs.) *Science*, v. 27 (n s) p. 724-725.
- 1910. Isobases of Algonquin and Iroquois beaches and their significance: *G.S.A., Bull.*, v. 21, p. 231, map; discussion, v. 21, p. 761-762.
- Gonthier, Joseph B.** 1975. Ground-water resources of Waukesha County, Wisconsin: *Wis. Geol. and Nat. History Survey, Inf. Circ.* 29, 47 p., illus., map.
- Good, Stanley E.; Pettijohn, Francis John.** 1949. Magnetic survey and geology of the Stager area, Iron Co., Michigan: *U.S.G.S., Circ.* no. 55, 4 p., illus., map.
- Goodacre, A.K.** see Innes, M.J.S.
- see Weber, J.R.
- Goodwin, Alan M.** 1951. Origin of Lake Superior iron ores, theory of Gruner in field trip to the Lake Superior region, May 5 to May 12, 1951: *Madison, Univ. Wis., Dept. Geology*, 1 p.
- Gorder, Lyle.** 1975. The coastal zone in northeastern Wisconsin in *Zakrzewska-Borowiecki, B., ed., Landscapes of Wisconsin, a field guide: Assoc. Am. Geog.*, p. 52-68, illus.
- Gore, Dorothy Jean.** 1963. Potash metasomatism in granitization as illustrated in the rocks of the Niagara and Neillsville areas of Wisconsin (abs.): *Dissert. Abs.*, v. 23, no. 11, p. 4314-4315.
- 1968. Potash metasomatism and granitization accomplished by baron-potassium compounds in *Internat. Geol. Cong.*, 23d, Prague, 1968, Proc., Sec. 4, *Geology of Precambrian: Prague, Academia*, p. 275-292, illus., tables; (abs.) *Abs. North Am. Geol.*, p. 549, April 1969.
- Grabau, Amadeus W.** 1903. Paleozoic coral reefs: *G.S.A., Bull.*, v. 14, p. 341-343, illus.
- 1906. Types of sedimentary overlap: *G.S.A., Bull.*, v. 17, p. 567-636.
- Graham, James D.** 1856. Report to the War Department of the surveys, commerce and improvements of the harbors of Wisconsin, Illinois, Michigan and Indiana: *Washington*, 480 p.
- 1859. Latitude and longitude of Milwaukee, Prairie du Chien, Racine and Madison: *Wis. State Hist. Soc., Collections*, v. 4, p. 395-477.
- Graham, William A.P.** 1931. A new crustacean of the family Aglaspidae from the upper Mississippi Valley: *Ohio Jour. Sci.*, v. 31, no. 2, p. 127-128, illus.
- Gram, Oscar E.** 1947. Tectonic features of the Utley meta-rhyolite (Wis.): *Jour. Geol.*, v. 55, no. 5, p. 427-438, illus., map.
- Grant, R.S.** 1976(77). Reaeration-coefficient measurements of ten small streams in Wisconsin using radioactive tracers: *U.S.G.S., Water-Resources Inv.* 76-96, 56 p.
- 1978. Reaeration capacity of the Rock River between Lake Koshkonong, Wisconsin and Rockton, Illinois: *U.S.G.S., Water Resources Inv.* 77-128.
- Grant, Ulysses Sherman.** 1900. Preliminary report on the copper-bearing rocks of Douglas Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 6 (econ. ser. 3) 55 p., maps; 2d ed., 83 p., maps, 1901.
- 1901. Junction of Lake Superior sandstone and Keweenaw traps in Wisconsin (abs.): *G.S.A., Bull.* 13, p. 6-9.
- 1903. Preliminary report on the lead and zinc deposits of southwestern Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 9 (econ. ser. 5), 103 p., illus., map.
- 1904a. Field work in the Wisconsin lead and zinc district (abs.): *G.S.A., Bull.* 15, p. 552-553; *Science*, v. 19 (n s) p. 526.
- 1904b. Investigations on the Lake Superior iron-ore deposits: *Mining Mag.*, v. 10, p. 175-183.
- 1905a. Structural relations of the Wisconsin zinc and lead deposits: *Econ. Geology*, v. 1, no. 3, p. 233-242, illus.
- 1905b. Water resources of the Mineral Point quadrangle, Wisconsin: *U.S.G.S., Water-Supply Paper* 145, p. 67-73.
- 1905c. Zinc and lead deposits of southwestern Wisconsin: *U.S.G.S., Bull.* 260, p.304-310.
- 1906a. Report on the lead and zinc deposits of Wisconsin, with an atlas of detailed maps: *Wis. Geol. and Nat. History Survey, Bull.* 14 (econ. ser. 9) 100 p., maps.
- 1906b. Structural relations of the Wisconsin zinc and lead deposits: *Econ. Geology*, v. 1, p. 233-242, illus.
- 1906c. Zinc and lead deposits in Wisconsin: *Mining Mag.*, v. 13, p. 453-460.
- Grant, Ulysses Sherman; Bain, Harry Foster.** 1904. A preglacial peneplain in the Driftless Area (abs.): *Science*, v. 19 (n s) no. 483, p. 528; *Scientific Am. Supplement*, v. 57, p. 23446.
- Grant, Ulysses Sherman; Burchard, Ernest Francis.** 1907. Description of the Lancaster and Mineral Point quadrangles (Wis.-Iowa-Illinois): *U.S.G.S., Geol. Atlas of the U.S., Lancaster-Mineral Point folio*, no. 145, 14 p., maps.
- Green, Jack H.** see also Devaul, Robert W.
- 1968. The Troy Valley of southeastern Wisconsin: *U.S.G.S., Prof. Paper* 600-C, p. C135-C139, illus.; (abs.) *Abs. North Am. Geol.*, p. 42, Jan. 1969; *Geog. Abs. (A)*, 1969, v. 1, p. 31; *G.S.A., Sp. Paper* no. 121, p. 658-659.
- Green, Jack H.; Hutchinson, Rickard D.** 1965. Ground-water pumpage and water-level changes in the Milwaukee-Waukesha area, Wisconsin, 1950-1961: *U.S.G.S., Water-Supply Paper* 1809-I, p. I1-119, illus., maps.
- Green, John C.** see Books, Kenneth G.
- see Silver, L.T.
- Gregory, John Goabby.** 1932. Southwestern Wisconsin; a history of old Crawford County: *Chicago, S.J. Clarke Publishing Co.*, 4 vols., illus.
- Gregory, John.** 1853. Industrial resources of Wisconsin: *Chicago, Langdon and Rounds*, 318 p.; 320 p., 1870.
- Grietus, Anthony.** 1969. Skeletal galena crystals: *Earth Sci.*, v. 22, no. 5, p. 214-216, illus.
- Griesemer, Allan David.** 1965. Middle Devonian brachiopods of southeastern Wisconsin: *Ohio Jour. Sci.*, v. 65, no. 5, p. 241-295, illus.
- Griffith, James S.** see Krumbein, William C.
- Grosh, Wesley A.** 1950. Investigation of the White zinc-lead district, Lafayette Co., Wisconsin: *U.S. Bur. Mines, Rpt. Inv.* 4722, 5 p., illus.
- 1960. Shallow lead diggings, Grant and Lafayette Counties, Wisconsin: *U.S. Bur. Mines, Rpt. Inv.* 5694, 59 p., illus., maps.
- 1963. The mineral industry of Wisconsin, 1962: *U.S. Bur. Mines, Minerals Yearbook*, 1962, v. 3, Area reports, p. 1161-1179, tables.
- 1964. The mineral industry of Wisconsin, 1963: *U.S. Bur. Mines, Minerals Yearbook*, 1963, v. 3, Area reports, domestic, p. 1187-1206, tables.
- 1965. The mineral industry of Wisconsin, 1964: *U.S. Bur. Mines, Minerals Yearbook*, 1964, v. 3, Area reports, domestic, p. 1105-1125, tables.
- 1977. Wisconsin in *Mining and mineral operations in the north-central states, a visitor guide: U.S. Bur. Mines*, p. 113-120, illus., map.
- Gross, Barton.** see Craddock, Campbell
- Gross, David L.** see also Berkson, Jonathan Milton
- see also Lineback, Jerry A.
- Gross, David L. (and others).** 1972. Composition of Pleistocene sediments in southern Lake Michigan, U.S.A.: *Internat. Geol. Congress, 24th Ann.*, sec. 8, p. 215-222, illus.
- Grout, Frank F.** 1910. Contribution to the petrography of the Keweenaw: *Jour. Geol.*, v. 18, p. 633-657.
- 1918. Internal structures of igneous rocks: *Jour. Geol.*, v. 26, p. 445-446.
- Gruner, John Walter.** 1930. Hydrothermal oxidation and leaching experiments, their bearing on the origin of Lake Superior hematite-limonite ores: *Econ. Geology*, v. 25, no. 7, p. 697-719; no. 8, p. 837-867, illus.
- 1937. Hydrothermal leaching of iron ores of the Lake Superior type, a modified theory: *Econ. Geology*, v. 32, no. 2, p. 121-130, illus.
- Guillou, Robert Barton.** 1957. Correlation of airborne radioactivity data and areal geology: *U.S.G.S., Rpt. TEI-700*, p. 201-204, map.
- 1958a. Correlation of airborne radioactivity data and areal geology: *U.S.G.S., Rpt. TEI-740*, p. 245-249.
- 1958b. Correlation of airborne radioactivity data and areal geology (Wis.): *U.S.G.S., Rpt. TEI-750*, p. 90-91.
- Guldenzopf, E. Charles.** 1967. The Glenwood-Platteville disconformity: *Iowa Acad. Sci., Proc.*, 1965, v. 72, p. 305-311, illus.; (abs.) *Abs. North Am. Geol.*, p. 653, May 1968.
- Gundlach, H.F.** see Anderson, F.L.
- Gustavson, Samuel A.** 1954. Michigan and Wisconsin gold, silver, copper, lead, and zinc: *U.S. Bur. Mines, Minerals Yearbook*, 1951, p. 1504-1509, tables.
- 1955. The mineral industry of Wisconsin, 1952: *U.S. Bur. Mines, Minerals Yearbook*, 1952, v. 3, Area reports, p. 983-1005, tables.
- 1956. The mineral industry of Wisconsin, 1953: *U.S. Bur. Mines, Minerals Yearbook*, 1953, v. 3, Area reports, p. 1097-1117, tables.
- 1957. The mineral industry of Wisconsin, 1954: *U.S. Bur. Mines, Minerals Yearbook*, 1954, v. 3, Area reports, p. 1145-1161, tables.

- 1961. The mineral industry of Wisconsin, 1960: U.S. Bur. Mines, Minerals Yearbook, 1960, v. 3, Area reports, p. 1125-1140, tables.
- 1962. The mineral industry of Wisconsin, 1961: U.S. Bur. Mines, Minerals Yearbook, 1961, v. 3, Area reports, p. 1131-1148, tables.
- Gutschick, Raymond Charles.** 1941. Niagaron ostracods from Burlington, Wisconsin: Ill. Acad. Sci., Trans., v. 34, no. 2, p. 164-165.
- Haanpaa, Dennis G.; Sather, LaVerne M.; Threinen, C.W.** 1970. Surface water resources of Taylor County: Wis. Dept. Nat. Resources, Lake and stream classification project, 149 p., tables, maps.
- Habermann, Gail M.; Dury, George H.** 1974. Deep weathering and duricrusting in the Driftless Area in Knox and Mickelson, eds., Late Quaternary environments of Wisconsin: Madison, Am. Quaternary Assoc., Third biennial mtg., p. 118-124, illus.
- Hackbarth, Douglas Alan.** 1971. Hydrogeologic aspects of spent sulfite liquor disposal at Peshtigo, Wisconsin: Dissert. Abs. Internat., Sec. B, v. 31, no. 12, p. 7370B.
- Hackett, Orwoll M.** 1964. Ground-water levels in the United States, 1957-61 - north central states: U.S.G.S., Water-Supply Paper 1781, 148 p.
- Hadley, David W.** 1976. Shoreline erosion in southeastern Wisconsin: Wis. Geol. and Nat. History Survey, Sp. Rpt. 5, 33 p., illus., map.
- 1977. Glacial geology of Wisconsin: Univ. Wis., UIR/Research Newsletter, v. 12, no. 1, p. 12.
- Hafford, B.C.** see Allgeier, R.J.
- Haimson, B.C.** 1978. Engineering geology, stress regime, and mechanical properties of some Precambrian rocks in south-central Wisconsin: Wis. Geol. and Nat. History Survey, Geoscience Wisconsin, v. 2, p. 25-43.
- Hall, Christopher Webber.** 1891a. Notes of a geological excursion into central Wisconsin: Minn. Acad. Nat. Sci., Bull., v. 3, p. 251-268; (abs.) Minn. Univ., Quart. Bull., v. 1, p. 114, 1893.
- 1891b. Some of the conditions controlling successful artesian-well boring in the Northwestern States (abs.): Am. Assoc. Adv. Sci., Proc., v. 39, p. 264-265.
- 1892. Structure, lithology and genesis of the Magnesian series of the Northwestern States (abs.): Minn. Acad. Nat. Sci., Bull., v. 4, p. 119-123.
- Hall, Christopher Webber; Sardeson, Frederick William.** 1895. The Magnesian series of the northwestern states: G.S.A., Bull., v. 6, p. 167-198, map; (abs.) Am. Jour. Sci., v. 46 (3) p. 303-304, 1893; Minn. Univ., Quart. Bull., v. 2, p. 19-20, 1894.
- Hall, E.B.** see Weidman, Samuel
- Hall, G.I.** see Mursky, G.
- Hall, H.C.** 1966. A review of the Keweenaw geology of the Lake Superior region in Steinhart and Smith, eds., The earth beneath the continents: Am. Geophys. Union, Geophys. Mon. 10 (Natl. Acad. Sci.-Natl. Research Council Pub. 1467) p. 3-27, illus.
- Hall, James.** see also Logan, William E.
- 1842. Notes upon the geology of the Western States: Am. Jour. Sci., v. 42 (1) art. 3, p. 51-62.
- 1843a. Geologic map of the middle and western states in Geology of New York: Albany, pt. 4, 4th or western district.
- 1843b. Notes explanatory of a section from Cleveland, Ohio, to the Mississippi River, in a southwest direction, with remarks upon the identity of the Western formations with those of New York: Assoc. Am. Geol., Rpt., p. 286, illus.
- 1851a. Description of new or rare species of fossils, from the Palaeozoic series in Foster and Whitney, Report on the geology of the Lake Superior land district, pt. 2: U.S., 32d Cong., Sp. Sess., Senate Ex. Doc. 4, p. 209-213.
- 1851b. Lower Silurian system in Foster and Whitney, Report on the geology of the Lake Superior land district, pt. 2: U.S., 32d Cong., Sp. Sess., Senate Ex. Doc., no. 4, p. 145-147; Am. Jour. Sci., v. 17 (2) p. 181-194.
- 1851c. Origin of the basins of Lakes Michigan and Huron in Foster and Whitney, Report on the geology of the Lake Superior land district, pt. 2: U.S., 32d Cong., Sp. Sess., Senate Ex. Doc. 4, p. 176-177.
- 1851d. Remarks on Lapham's the geology of the south-eastern portion of the State of Wisconsin in Foster and Whitney, Report on the geology of the Lake Superior land district, pt. 2: U.S., 32d Cong., Sp. Sess., Senate Ex. Doc. 4, p. 171-172.
- 1851e. Upper Silurian and Devonian series in Foster and Whitney, Report on the geology of the Lake Superior land district, pt. 2: U.S., 32d Cong., Sp. Sess., Senate Ex. Doc. 4, p. 152-166.
- 1852. Result of explorations in Wisconsin; read to Am. Assoc. Adv. Sci., 1851: Soc. Geol. France, Bull., v. 9 (2) p. 314.
- 1857. On the Carboniferous limestones of the Mississippi Valley (abs.): Am. Assoc. Adv. Sci., Proc., v. 10, sec. B, p. 51-69; Am. Jour. Sci., v. 23 (2) p. 187-203; Mining Mag., v. 9, p. 529-542.
- 1859. Paleontology (of New York): Albany, New York Geol. Survey, Paleontology v. 3, p. 1-96, illus.
- 1860. New species of fossils from the Niagara group of Wisconsin: Albany, N.Y., Univ., Regents, 20th Ann. Rpt. Progress 1859, 4 p.
- 1861. Report of the superintendent of the Geological Survey, exhibiting the progress of the work, January 1, 1861 (including descriptions of new species of fossils from the investigations of the Survey): Madison, Wis. Geol. Survey, 52 p.
- 1862a. Letter on the primordial of America: Soc. Geol. France, Bull., v. 19 (2) p. 725-734.
- 1862b. On a new crustacean from the Potsdam sandstone ("Aglaspis", Wis.): Canadian Naturalist and Geologist, v. 7, p. 443-445, illus.; (abs.) Am. Jour. Sci., v. 35 (2) p. 295, 1863.
- 1862c. Paleontology of Wisconsin in Hall and Whitney, Report of the geological survey of the State of Wisconsin: v. 1, chap. 9, p. 425-442.
- 1862d. Physical geography and general geology in Hall and Whitney, Report on the geological survey of the state of Wisconsin: v. 1, chap. 1, p. 1-72.
- 1863. Preliminary notice of the fauna of the Potsdam sandstone, with remarks upon the previously known species of fossils and descriptions of some new ones, from the sandstone of the upper Mississippi Valley: New York State Cabinet Nat. History, Ann. Rpt. 16, p. 119-222, illus.; (reprint) Albany Inst., Trans., 1852, v. 5, p. 93-195, illus., 1867.
- 1867. Account of some new or little known species of fossils from rocks of the age of the Niagara group: New York State Cabinet, Ann. Rpt. 20, p. 305-401, illus. (rev. ed., 1870).
- 1867. Geological map of Wisconsin, showing the relations of its geology with that of the surrounding states, compiled from the work of the geological surveys of Wisconsin and Iowa and from the surveys of D.D. Owen, Foster, and Whitney and A. Winchell: Wis. Geol. Survey, scale 1 in. = 22 miles.
- 1871. Organic remains of the Niagara group and associated limestones in Geology of Wisconsin: Albany, Paleontology, pt. 3, 94p., illus.
- 1874. On the relations of the Niagara and lower Helderberg formations and their geographical distribution in the United States and Canada: Am. Assoc. Adv. Sci., Proc., v. 22, sec. B, p. 321-335; Canadian Nat., v.7 (n s) p. 157-159, 1875.
- 1878. Note upon the history and value of the term Hudson River Group in American geological nomenclature: Am. Assoc. Adv. Sci., Proc., v. 26, p. 259-265; (abs.) Am. Jour. Sci., v. 16 (3) p. 482.
- 1879. The hydraulic beds and associated limestones at the Falls of the Ohio: Albany Inst., Trans., v. 9, p. 169-180; Paleontology of New York, v. 5, pt. 2.
- 1883. Contributions to the geological history of the American continent: Am. Assoc. Adv. Sci., Proc., v. 31, p. 29-71.
- Hall, James; Clarke, John M.** 1897. The new species of brachiopoda described in Paleontology of New York, v. 8, pts 1 & 2, 1892-1894: New York St. Geol., Ann. Rpt. 14, p. 323-402, illus., 1895; New York St. Museum, Ann. Rpt. 48, v. 2, p. 323-402, illus., 1895.
- Hall, James; Whitney, Josiah Dwight.** 1858. Report on the geological survey of the State of Iowa, embracing the results of investigations made during portions of the years 1855, 1856, 1857: Iowa Geol. Survey, v. 1, pt. 1, geology, 472 p., illus., map; (reviewed) Am. Jour. Sci., v. 27 (2) p. 103-117, 1859; (abs.) Canadian Nat., v. 3, p. 184-186; v. 5, p. 213-215, 1860.
- 1862. Report of the geological survey of the state of Wisconsin: Albany, N.Y., printed by authority of the Legislature of Wisconsin, v. I, 455 p., illus., maps.
- Hall, M.R.; Johnson, Edward, Jr.; Hoyt, J.C.** 1905. Report of progress of stream measurements for the calendar year 1904, pt. 5: U.S.G.S., Water-Supply Paper 128, 168 p.
- Hall, W. Carvel; Hoyt, J.C.** 1905. River surveys and profiles made during 1903: U.S.G.S., Water-Supply Paper 115, p. 97-111, illus.
- Hall, Wayne E.** see also Roedder, Edwin
- Hall, Wayne E.; Friedman, Irving.** 1963. Composition of fluid inclusions, Cave-In-Rock fluorite district, Illinois, and upper Mississippi Valley zinc-lead district: Econ. Geology, v. 58, no. 6, p. 886-911.
- Hall, Wayne E.; Heyl, Allen Van, Jr.** 1968. Distribution of minor elements in ore and host rock, Illinois-Kentucky fluorite district and upper Mississippi Valley zinc-lead district: Econ. Geology, v. 63, no. 6, p. 655-670.
- Halls, Henry Campbell.** 1972. Geological interpretation of geophysical data from the Lake Superior region: Dissert. Abs. Internat., Sec. B, v. 32, no. 7, p. 4016B-4017B.
- Hamblin, William Kenneth.** 1958. The Cambrian sandstones of northern Michigan: Mich. Geol. Survey Div., Pub. 51, 146 p., illus., maps.
- 1959. Paleogeographic evolution of the Lake Superior area from late Keweenaw to late Cambrian time (abs.): G.S.A., Bull., v. 70, no. 12, pt. 2, p. 1614.
- 1961. Paleogeographic evolution of the Lake Superior region from late Keweenaw to late Cambrian time: G.S.A., Bull., v. 72, no. 1, p. 1-18, illus.
- 1965. Basement control of Keweenaw and Cambrian sedimentation in Lake Superior Region: Am. Assoc. Pet. Geol., Bull., v. 49, no. 7, p. 950-958; (abs.) Am. Assoc. Pet. Geol., Bull., v. 48, no. 4, p. 529, 1964.
- Hamilton, Louis J.** see also Oakes, Edward L.
- 1971 (1972). Water for cranberry culture in the Cranmoor area of central Wisconsin in Contributions to hydrology: U.S.G.S., Water-Supply Paper 1999-I, p. I1-I20, illus.
- Hammer, Sigmund.** see also Ervin, C. Patrick
- Hammer, Sigmund; Ervin, C. Patrick.** 1976. Bouguer anomaly gravity map of Wisconsin: EOS (Am. Geophys. Union, Trans.), v. 57, no. 2, p. 85.
- Hancock, Eugene T.** 1902. The lead and zinc industry of southwestern Wisconsin: Wis. Bur. Labor and Industrial Statistics, 10th Biennial rpt., p. 1075-1092.
- Hands, Edward B.** 1970. A geomorphic map of Lake Michigan shoreline Internat. Assoc. Great Lakes Research, 13th Conf. Proc., pt. 1, p. 250-265, illus.
- Hanna, F.W.** see also Horton, R.E.

- Hanna, F.W.; Hoyt, J.C.** 1906. Report of progress of stream measurements for the calendar year 1905, pt. 7: U.S.G.S., Water-Supply Paper 171, 113 p.
- Hansen, Henry P.** 1937. Pollen analysis of two Wisconsin bogs of different age: *Ecology*, v. 18, no. 1, p. 136-148, illus., map.
- 1939. Postglacial vegetation of the driftless area of Wisconsin: *Am. Midland Naturalist*, v. 21, no. 3, p. 752-762, illus., map.
- Hanson, Christine Reinhard.** *see* Zaporozec, Alexander
- Hanson, George Fulford (chairman).** 1954? The mineral resources of Wisconsin: (Wis.) Nat. Resources Com. State Agencies, Land Subcommittee, Minerals Working Group, rpt., 27 p., illus.
- Hanson, George Fulford.** *see also* Bergstrom, Robert Edward
- *see also* Cole, W.A.
- *see also* Olcott, Perry G.
- *see also* Woollard, George P.
- 1956a. Upper Mississippi zinc-lead district: Tri-State Geological Field Conf., 20th Ann., Guidebook, Wis. Geol. and Nat. History Survey, 22 p., map.
- 1956b. Uranium prospecting in Wisconsin: *Wis. Geol. and Nat. History Survey, Inf. Circ. 2*, 4 p., illus., map.
- 1958. Do Wisconsin municipalities face a water problem?: *Wis. Academy Review*, v. 5, no. 1, p. 8-11; *The Municipality*, v. 53, no. 4.
- 1960. Low-grade iron ore in Wisconsin: *Thirtieth Star*, v. 5, no. 9, p. 3-6, illus.
- 1964a. The mineral resources of Wisconsin: *Wis. Blue Book*, p. 199-211, tables.
- 1964b. Minerals, water and soils in northern Wisconsin in *The natural resources of northern Wisconsin—a Wisconsin Academy profile*: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 53, pt. A, p. 41-44.
- Happ, Stanford Coleman.** 1943. Flotation of peaty alluvial soils (Wis., Minn.): *Am. Jour. Sci.*, v. 241, no. 10, p. 629-639, illus.
- 1944. Effect of sedimentation on floods in the Kickapoo Valley, Wisconsin: *Jour. Geol.*, v. 52, no. 1, p. 53-68, illus., map.
- Harbeck, G. Earl, Jr.** 1948. Reservoirs in the United States: U.S.G.S., Circ. 23, p. 69-70 (superseded by Water-Supply Paper 1360-A).
- Harder, Alfred H.; Drescher, William James.** 1954. Ground-water conditions in southwestern Langlade Co., Wisconsin: U.S.G.S., Water-Supply Paper 1294, 39 p., illus., map.
- Harder, Edmund Cecil.** 1906. The joint system in the rocks of southwestern Wisconsin and its relation to the drainage network: *Univ. Wis., Bull. (sci. ser. 3)* no. 5, p. 207-246, illus.
- Harris, D.L.** *see* Shoemaker, R.S.
- Harris, Hallett, Jr.** *see* Power, Steve J.
- Harrison, Samuel S.** 1969. Magnitude of waves on Lake Butte des Morts and their effect on lake depth and sediment distribution: *Univ. Wis., Water Resources Center, Tech. Rpt., OWRR A-027-WIS*, 45 p.
- 1970. Note on the importance of frost weathering in the disintegration and erosion of till in east-central Wisconsin: *G.S.A., Bull.*, v. 81, no. 11, p. 3407-3410, illus.; (abs.) *Abs. North Am. Geol.*, p. 767, May 1971.
- Hart, Richard Royce.** 1964. Biostratigraphic relations of the basal St. Peter sandstone in Northeast Iowa and southwest Wisconsin (abs.): *Dissert. Abs.*, v. 24, no. 11, p. 4630.
- Hartlaub, David E.** *see* Smith, Eugene I.
- Hartley, Thomas G.** 1966. The flora of the "Driftless Area": *Iowa Univ., Studies Nat. History*, v. 21, no. 1, 174 p., illus.
- Hase, Donald Henry.** 1951. Origin of the Lake Superior iron ores; theory of Leith and Mead in *Field trip to the Lake Superior region, May 5 to May 12, 1951*: *Madison, Univ. Wis., Dept. Geology*, 3 p.
- Haszel, Orville L.** 1968. Soil survey Pierce County, Wisconsin: U.S.D.A., Soil Conservation Service, 165 p., maps.
- 1971. Soil survey of Walworth County, Wisconsin: U.S.D.A., Soil Conservation Service, 107 p., illus., maps.
- Hatchett, J.L.** *see* Krieger, Robert Albert
- Hattery, O.C.** 1915. Survey of northern and northwestern lakes: U.S. War Dept., Corps of Eng., *Lake Survey, Detroit, Bull.* 24, 455 p.
- Hawley, Charles.** 1951a. Origin of the iron formations in *Field trip to the Lake Superior region, May 5 to May 12, 1951*: *Madison, Univ. Wis., Dept. Geology*, 4 p., illus.
- 1951b. Taconites and taconite beneficiation in *Field trip to the Lake Superior region, May 5 to May 12, 1951*: *Madison, Univ. Wis., Dept. Geology*, 2 p., illus.
- Hawley, J.E.** *see also* Bevan, Arthur P.
- Hawley, J.E.; Bevan, Arthur P.** 1934. Mineralogy and genesis of the Mayville iron ore of Wisconsin: *Am. Mineralogist*, v. 19, no. 11, p. 493-514, illus.
- Hay, Oliver Perry.** 1925. A further and detailed description of the type of *Elephas roosevelti* Hay and descriptions of three recently referred specimens: *U.S. Nat. Museum, Proc.*, v. 66, art. 34, 6 p., illus.
- Hayes, Montrose W.** 1933. Tables of drainage areas and river distances in the Mississippi River system: *U.S. Weather Bureau*, 26 p.
- Hays, Orville E.; McCall, A.G.; Bell, F.G.** 1949. Investigations in erosion control and the reclamation of eroded land at the Upper Mississippi Valley Conservation Experiment Station, LaCrosse, Wisconsin, 1933-1945: U.S.D.A., *Tech. Bull.* 973, 87 p.
- Hedburg, Eric.** 1906. The Wisconsin zinc fields: *Mining World*, v. 24, p. 61-62.
- Heim, George E., Jr.** *see* Murphy, W.G.
- Heins, R.W.** *see* DeGeoffroy, J.
- Heising, L.F.; Frommer, D.W.** 1967. Lake Superior iron resources-preliminary samples and metallurgical evaluation of selected Michigan-Wisconsin iron formations: U.S. Bur. Mines, *Rpt. Inv.* 6895, 31 p., illus., tables.
- Heller, R.L.** 1956. Status of the Prairie du Chien problem in *Guidebook for field trips: G.S.A., 69th Ann. Mtg., Minneapolis Field Trip no. 2*, p. 29-40.
- Hendel, Theresa** *see* Nichols, M. Starr
- Henderson, John R.** *see also* King, Elizabeth R.
- Henderson, John R.; Tyson, Natalie S.; Page, James R.** 1963. Aeromagnetic map of the Wausau area, Wisconsin: U.S.G.S., *Geophys. Inv. Map GP-401*, scale 1:48,000.
- Hendricks, Ernest L.** 1964a. Compilation of records of surface waters of the United States, October 1950 to September 1960 - part 4: U.S.G.S., *Water-Supply Paper 1727*, 379 p.
- 1964b. Compilation of records of surface waters of the United States, October 1950 to September 1960 - pt. 5: U.S.G.S., *Water-Supply Paper 1728*, 576 p.
- Hendrickson, Gerth E.** *see also* Foley, Frank Clingan
- Hendrickson, Gerth E.; Knutilla, R.L.; Doonan, C.J.** 1973. Hydrology and recreation of selected cold-water rivers of the St. Lawrence River basin in Michigan, New York, and Wisconsin: U.S.G.S., *Water-Resources Investigations 8-73*, 73 p., illus.
- Hendrickson, Ronald A.** *see* Mengel, Joseph T., Jr.
- Hendrickson, Walter B.** 1944. Documents, David Dale Owen and the Chippewa Land District Survey: *Wis. Mag. History*, v. 28, no. 2, p. 210-224.
- Hendrix, Thomas Eugene.** 1960a. Structural history of the east Gogebic iron range (Mich.-Wis.) (abs.): *Dissert. Abs.*, v. 21, no. 3, p. 594.
- 1960b. Structure of the east Gogebic iron range (abs.) in *Inst. Lake Superior Geology, 6th Ann., 1960*: *Madison, Univ. Wis., Dept. Geology; Wis. Geol. and Nat. History Survey*, p. 6.
- Hendrix, Thomas Eugene; Schaiowitz, M.** 1964. Gravitational structures in the Baraboo Quartzite near Baraboo, Wisconsin: *G.S.A., Bull.*, v. 75, no. 10, p. 1045-1050, illus.
- Hennepin, Louis.** 1698. A new discovery of a vast country in America, 1679-1682: *London*, v. 1, p. 180-182, p. 255-260.
- Hennings, Kevin; Soule, Gary; Peterson, Gilbert M.** 1972. Caves of Door Co., Wisconsin: *Wis. Speleologist*, v. 11, no. 3, p. 63-130, illus.
- Hennings, Kevin.** *see also* Ehr, Bob
- Hennings, Ron G.** 1974. The correlation between shallow subsurface temperature and ground water flow paths near a central Wisconsin seepage lake (abs.): *G.S.A., Abs. with Programs*, v. 6, no. 7, p. 1041-1042.
- Henry, S.G.; Van der Voo, R.** 1976. Secondary magnetization of the upper Keweenaw sediments, Nonesuch shale and Freda sandstone (abs.): *EOS (Am. Geophys. Union, Trans.)* v. 57, no. 10, p. 752.
- Henry, W.A. (and others).** 1896. Northern Wisconsin—a handbook for the homeseeker: *Madison*, 192 p., illus.
- Henwood, William Jory.** 1871. On the native copper of Lake Superior: *Royal Geol. Soc. of Cornwall, Trans.*, v. 8, pt. 1, p. 385-489.
- Herron, W.H.** 1917. Profile surveys of rivers in Wisconsin: U.S.G.S., *Water-Supply* 417, 48 p., maps.
- Hershberg, E.L.** 1976. Paleomagnetism of the Wolf River Batholith, Wisconsin (abs.): *EOS (Am. Geophys. Union, Trans.)* v. 57, no. 10, p. 752.
- Hershey, Garland.** *see* Coons, Richard L.
- Hershey, Oscar H.** 1894. The Elk Horn Creek area of St. Peter sandstone in northwestern Illinois: *Am. Geologist*, v. 14, no. 3, p. 169-179, map.
- 1896. Preglacial erosion cycles in northwestern Illinois: *Am. Geologist*, v. 18, no. 2, p. 72-100.
- 1897a. The physiographic development of the upper Mississippi Valley: *Am. Geologist*, v. 20, no. 4, p. 246-268.
- 1897b. The term Pecatonica limestone: *Am. Geologist*, v. 20, p. 66-67.
- Hester, N.C.** *see* Fraser, G.S.
- Heyl, Allen Van, Jr.** *see also* Agnew, Allen Francis
- *see also* Behre, Charles Henry, Jr.
- *see also* Hall, Wayne E.
- *see also* Hosterman, John W.
- *see also* Mudrey, Michael G., Jr.
- Heyl, Allen Van, Jr. (and others).** 1948. Geologic structure map of the Hazel Green-Shullsburg zinc-lead deposits Lafayette and Grant Counties, Wisconsin: U.S.G.S., *Mineral Inv. (strategic) Map 3-216*, scale 1:8,000, illus., text.
- 1955. Zinc-lead-copper resources and general geology of the upper Mississippi Valley district: U.S.G.S., *Bull.* 1015-G, p. 227-245, illus.

- 1959. The geology of the upper Mississippi Valley zinc-lead district (Illinois-Iowa-Wisconsin): U.S.G.S., Prof. Paper 309, 310 p., illus., map; with special sections by A.E. Flint.
- 1964. Clay-mineral alterations and other coordinated geochemical studies in the upper Mississippi Valley zinc-lead district, a progress report (abs.) in *Inst. Lake Superior Geol.*, 10th Ann., 1964: Ishpeming, Mich., Marquette Range Comm., p. 46-47.
- 1966. Isotopic study of galenas from the upper Mississippi Valley, the Illinois-Kentucky, and some Appalachian Valley mineral districts: *Econ. Geology*, v. 61, no. 5, p. 933-961, illus.
- Heyl, Allen Van, Jr.** 1964. Enargite in the zinc-lead deposits of the upper Mississippi Valley district: *Am. Mineralogist*, v. 49, nos. 9-10, p. 1458-1461, illus.
- 1967. Some aspects of genesis of stratiform zinc-lead-barite-fluorite deposits in the United States in Brown, J.S., ed., *Genesis of stratiform lead-zinc-barite-fluorite deposits (Mississippi Valley type deposits)—a symposium*: *Econ. Geology*, Mon. 3, p. 20-32.
- 1968. The upper Mississippi Valley base-metal district, in *Ore deposits of the United States, 1933-1967 (Graton-Sales Volume) v. 1*: New York, Am. Inst. Mining, Met. and Pet. Eng., p. 431-459, illus., tables; (abs.) *Abs. North Am. Geol.*, p. 709, May 1969.
- 1973. Upper Mississippi Valley lead-zinc district in *Inst. Lake Superior Geology*, 19th Ann., 1973, Technical programs and abstracts: *Wis. Geol. and Nat. History Survey*, Univ. Wis., Geology Depts., p. 13-14.
- Heyl, Allen Van, Jr.; Broughton, William A.; West, Walter S.** 1970. Guidebook to the upper Mississippi Valley base metal district: *Wis. Geol. and Nat. History Survey*, Inf. Circ. 16, 49 p., illus.
- 1973. Guidebook to the upper Mississippi Valley base-metal district: *Inst. Lake Superior Geology*, *Abs. and Field Guides*, no. 19, pt. 4, 50 p., illus., maps.
- Heyl, Allen Van, Jr.; Hosterman, John W.; Brock, M.R.** 1964. Clay-mineral alteration in the Upper Mississippi Valley zinc-lead district in *Clay and clay minerals, 12th Natl. Conf.*, Atlanta, Ga., 1963, Proc.: New York, MacMillan Co., p. 445-453, illus.
- Heyl, Allen Van, Jr.; King, Elizabeth R.** 1966. Aeromagnetic and tectonic analysis of the upper Mississippi Valley zinc-lead district: U.S.G.S., Bull. 1242-A, p. A1-A16, illus.
- Heyl, Allen Van, Jr.; Lyons, Erwin J.; Agnew, Allen Francis.** 1948. Geologic structure map of the Potosi lead-zinc area, Grant Co., Wisconsin: U.S.G.S.,
- ment yields in Wisconsin streams: U.S.G.S., *Water Resources Inv.*, 54-75, 27 p., illus.
- 1976b. Prediction of sediment yields in Wisconsin streams in *Proceedings of the Third Federal Interagency Sedimentation Conference*: Denver, p. 1-205-1-218, illus.
- Hindall, Stephen M.; Borman, Ronald G.** 1974. Water resources of Wisconsin - Lower Wisconsin River basin: U.S.G.S., *Hydro. Inv. Atlas*, HA-479, scale 1:1,000,000, 3 sheets.
- Hindall, Stephen M.; Flint, Richard Foster.** 1970. Sediment yields of Wisconsin streams: U.S.G.S., *Hydro. Inv. Atlas* HA-376, scale about 1 inch to 7 miles, text; (abs.) *Abs. North Am. Geol.*, p. 420, March 1971.
- Hindall, Stephen M.; Skinner, Earl L.** 1973. Water resources of Wisconsin-Pecatonica-Sugar River basin: U.S.G.S., *Hydro. Inv. Atlas*, HA-453, scale 1:1,000,000, 3 sheets.
- Hine, Ruth L. (ed.)** 1969. Water use, principles and guidelines for planning and management in Wisconsin: *Soil Cons. Soc. Am., Wis. Chap., Water Use and Planning Com.*, 96 p., illus.
- Hine, Ruth L.** 1970. Water on the land—irrigation and its effects on central Wisconsin streams: *Wis. Dept. Natural Resources*, 23 p., illus.
- Hinze, William James.** *see also* Carlson, B.A.
- *see also* O'Hara, Norbert W.
- 1959. A gravity investigation of the Baraboo syncline region (Wis.): *Jour. Geol.*, v. 67, no. 4, p. 417-446, illus., map.
- 1960. Application of gravity method to iron ore exploration: *Econ. Geology*, v. 55, no. 3, p. 465-484, illus., maps.
- Hitchcock, Charles H.** 1887. Geological map of the United States and part of Canada: *Am. Inst. Min. Eng., Trans.*, v. 15, p. 465-488.
- Hitchcock, Charles H.; Blake, William Phipps.** 1873. Geological map of the United States in Raymond, R.W., *Statistics of mines and mining in the States and Territories west of the Rocky Mts.*: Washington, 5th rpt., *Mining Statistics*, scale 1 inch = 90 miles; in Walker, F.A., *Statistical atlas of the United States*: Washington, 9th Census, 1870, plates 13 and 14, folio, 1874; Petermann's *Mittheilungen*, v. 21, plate 16, 1875; *Special Rpt. of Smithsonian Institution for the Centennial*, Washington, 1876; in Gray, O.W., *Atlas of the United States and the world*: Philadelphia, folio, 1877; *Reproduced (probably) by R. Ratzel, "Die Vereinigten Staaten von Nord-Amerika"*, Munchen, v. 1, 1878.
- Hite, David Marcel.** 1968. Sedimentology of the Upper Keweenaw sequence of northern Wisconsin and adjacent Michigan (abs.): *Dissert. Abs.*, Sec. B, v. 28, no. 12, pt. 1, p. 5081B.
- Hobbins, Joseph.** 1878. Health of Wisconsin, in relation to physical features, geology, climate, etc.: Milwaukee, Snyder, VanVechten and Co.'s Atlas, p. 182-187; *Descriptive America*, v. 1, p. 110-111, 1884.
- Hobbs, Harold W.** 1963. Hydrologic data for experimental agricultural watersheds in the United States 1956-59: U.S.D.A., *Soil and Water Cons. Research Div.*, Ag. Research Service, Misc. Pub. 945, 672 p., maps.
- 1968. Hydrologic data for experimental agricultural watersheds in the United States, 1962: U.S.D.A., *Soil and Water Cons. Research Div.*, Ag. Research Service, Misc. Pub. 1070, p. 169-177.
- Hobbs, Harold W.; Burford, James B.** 1970. Hydrologic data for experimental agricultural watersheds in the United States, 1963: U.S.D.A., *Soil and Water Cons. Research Div.*, Ag. Research Service Misc. Pub. 1164, 465 p.
- Hobbs, Harold W.; Crammatte, Florence B.** 1965. Hydrologic data for experimental agricultural watersheds in the United States 1960-61: U.S.D.A., *Soil and Water Cons. Research Div.*, Ag. Research Service Misc. Pub. 994, p. 221-225, maps.
- Hobbs, William Herbert.** 1892. Note on cerussite from Illinois and Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 8, p. 399-400.
- 1894. On a recent diamond find in Wisconsin and on the probable source of this and other Wisconsin diamonds: *Am. Geologist*, v. 14, p. 31-37.
- 1895a. A contribution to the mineralogy of Wisconsin: *Univ. Wis., Bull.*, v. 1 (sci. ser. 1) no. 4, p. 109-156, illus.
- 1895b. Die krystallisirten mineralien aus dem "Galena limestone" des sudlichen Wisconsin und des nordlichen Illinois: *Zeitschrift, Krystallographie und Mineralogie*, v. 25, p. 257-275.
- 1895c. Pre-Cambrian volcanoes in southern Wisconsin (abs.): *Am. Geologist*, v. 16, no. 4, p. 240; *Science*, v. 2 (n s) p. 279.
- 1896. Diamanten von Wisconsin: *Neues Jahrbuch*, 1896, v. 2, p. 249-251.
- 1899a. The diamond field of the Great Lakes: *Jour. Geol.*, v. 7, p. 375-388.
- 1899b. Emigrant diamonds of America: *Pop. Sci. Monthly*, v. 56, p. 73-83, illus.
- 1899c. A spiral fulgurite from Wisconsin: *Am. Jour. Sci.*, v. 8 (4) p. 17-20.
- 1901. Emigrant diamonds in America: *Smithsonian Inst., Ann. Rpt.*, 1901, p. 359-366.
- 1902. A meteoric iron (Algoma, Kewaunee Co., Wis.): *Science*, v. 15 (n s) p. 826.
- 1903. Meteorite from Algoma, Wisconsin: *G.S.A., Bull.*, v. 14, p. 97-116; (abs.), *Science*, v. 16 (n s) p. 260, 1902.
- 1905a. Contributions from the mineralogical laboratory of the University of Wisconsin: *Am. Geologist*, v. 36, p. 179-186.
- 1905b. Examples of joint-controlled drainage from Wisconsin and New York: *Jour. Geol.*, v. 13, no. 4, p. 363-374.
- 1911. The late glacial and post glacial uplift of the Michigan Basin: *Mich. Geol. and Biol. Survey*, Pub. 5, p. 45-46.
- Hobbs, William Herbert; Leith, Charles Kenneth.** 1907. The pre-Cambrian volcanic and intrusive rocks of the Fox River Valley, Wisconsin: *Univ. Wis., Bull.* 158, v. 3 (sci. ser. 3) no. 6, p. 247-277, illus.
- Hodge, James Thacher.** 1842. On the Wisconsin and Missouri lead region: *Am. Jour. Sci.*, v. 43, p. 35-72.
- Hoffman, James I.; Meland, Nils.** 1060au4071. of an artificial lake and associated natural lakes (abs.): *G.S.A., Abs. with Programs*, v. 3, no. 7, p. 600-601.
- Hogan, J.D.; Beatty, Marvin T.** 1963. Age and properties of Peorian loess and buried paleosols in southwestern Wisconsin: *Soil Sci. Soc. Am. Proc.*, v. 27, no. 3, p. 345-350, illus., table.
- Holden, Edwin C.** 1913. The mineral industry of Wisconsin: *Wis. Engineer*, v. 17, p. 158-173.
- Hole, Francis D.** *see also* Ableiter, J. Kenneth
- *see also* Al-Rawi, Amin Hamad
- *see also* Allan, R.J.
- *see also* Borchardt, G.A.
- *see also* Bouma, Johannes
- *see also* Buol, S.W.
- *see also* Gaikawad, Shankar T.
- *see also* Milfred, Clarence James
- *see also* Musolf, Gene Emil
- *see also* Nielsen, Gerald A.
- *see also* Noel, W.A.
- Hiatt, John L.** *see* Odom, I. Edgar
- Hilburn, Earl W.** *see* Bordner, John S.
- Hille, F.** 1904. The Baraboo iron ore (Wis.): *Eng. Min. Jour.*, v. 77, p. 875.
- Hillebrand, W.F.** *see* Clarke, Frank W.
- Hillel, D.I.** *see* Bouma, Johannes
- Hindall, Stephen M.** *see also* Bell, Edward A.
- *see also* Young, Harley L.
- 1976a. Measurement and prediction of sedi-

- see also Nygard, Iver J.
- see also Olcott, Perry G.
- see also Olson, Gerald W.
- see also Pavlik, Hannah F.
- see also Richardson, J.L.
- see also Stearns, Forest
- see also Veneman, Petrus L.M., Jr.
- see also Zaporozec, Alexander
- Hole, Francis D. (and others).** 1950. Soil survey of Richland County: Wis. Geol. and Nat. History Survey, Bull. 62C (soil ser. 45) folder, maps.
- 1952. Soil survey of Grant County: Wis. Geol. and Nat. History Survey, Bull. 62D (soil ser. 46) 14 p., maps.
- 1953. What's in that soil map?: Wis. Geol. and Nat. History Survey, Misc. Rpt., 16 p.
- 1962. Soil survey of Florence Co., Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 84 (soil ser. 59) 140 p., illus., tables, maps.
- 1968. Overlay soil map of Wisconsin: Wis. Geol. and Nat. History Survey, Misc. Rpt., 42 p., explanatory text, 11 maps, scale 1:250,000.
- Hole, Francis D.** 1941. Some observations of the glacial drifts north of the driftless area in Wisconsin: Ind. Acad. Sci., Proc., v. 50, p. 142-143.
- 1943. Correlation of the glacial border drift of north central Wisconsin: Am. Jour. Sci., v. 241, no. 8, p. 498-516, illus.
- 1953. Here's a practical soil key: What's new in crops and soils, v. 5, no. 7, 2 p., illus.
- 1956a. Soil survey of Grant County, Wis.: Wis. Geol. and Nat. History Survey, Bull. 80 (soil ser. 55) 54 p., illus., map.
- 1956b. Soil survey of Waukesha Co., Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 81 (soil ser. 56) 63 p., illus., map.
- 1967. An ancient young soil: Soil Survey Horizons, v. 8, no. 4, p. 16-19.
- 1969. The new soil map of Wisconsin: Wis. Academy Review, v. 16, no. 2, p. 2-4, illus.
- 1970. Drumlin morphology and soil relationships in Jefferson Co., Wisconsin in Pleistocene geology of southern Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ. 15 (Part F) 9 p., illus.
- 1974a. Soil association productivity analysis, general ratings with respect to crop, livestock and forest yields on soil associations of Wisconsin: Wis. Dept. Admin., 136 p.
- 1974b. Soil regions of Wisconsin: Wis. Geol. and Nat. History Survey, scale app. 1:2,730,000, 3 p., text.
- 1974c. Soils of the Menominee tribal lands: in Knox and Mickelson, eds., Late Quaternary environments of Wisconsin: Madison, Am. Quaternary Assoc., Third biennial mtg., p. 125-133, illus.
- 1974d. Wild soils of the Pine - Popple River basin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 62, p. 37-50, illus.
- 1975. Some relationships between forest vegetation and Podzol B horizons in soils of Menominee Tribal Lands, Wisconsin, U.S.A.: Pochovovdeniye (Soviet Soil Science) no. 12, p. 115-124 (in Russian).
- 1976. Soils of Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 87 (soil ser. 62) 223 p., illus., maps.
- 1977. Photo-mosaic soil map of Wisconsin, with general soil test and geographic information: Wis. Geol. and Nat. History Survey, scale 1:1,000,000, text.
- Hole, Francis D.; Beatty, Marvin T.; Klingelhoets, A.J.** 1968. Soil map of Wisconsin: Wis. Geol. and Nat. History Survey, colored wall map, scale: 1:710,000.
- Hole, Francis D.; Beatty, Marvin T.; Lee, Gerhard B.** 1966. Soil map of Wisconsin: Wis. Geol. and Nat. History Survey, Misc. Rpt., 1 p., map, text.
- Hole, Francis D.; Buol, S.W.** 1965. Relocation of soluble salts during the summer in a gray-brown podzolic soil: Soil Survey Horizons, v. 6, no. 4, p. 6-8, table.
- Hole, Francis D.; Dahlstrand, N.P.; Muckenhirn, R.J.** 1947. Soils of Langlade Co., Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 74 (soil series no. 52) 61 p., illus., maps.
- Hole, Francis D.; Lee, Gerhard B.** 1955. Introduction to the soils of Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 79 (ed. series 10) 48 p.
- Hole, Francis D.; Musolf, Gene Emil.** 1972. Lower Wisconsin River Valley soil resources and use potentials: Wis. Acad. Sci., Arts, and Letters, Trans., v. 60, p. 201-209, illus.
- Hole, Francis D.; Peterson, F.F.; Robinson, Glenn H.** 1952. The distribution of soils and slopes on the major terraces of southern Richland Co., Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 41, p. 73-82, illus.
- Hole, Francis D.; Schmude, Keith O.** 1959. Soil survey of Oneida Co., Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 82 (soil ser. 57) 59 p., illus., maps.
- Hole, Francis D.; Watterston, K.G.** 1972. Some soil water phenomena as related to manipulation of cover in the Curtis Prairie, the University of Wisconsin Arboretum; a preliminary report: Madison, Univ. Wis., Second Prairie Conf., Sept. 19, 1970, Proc., p. 49-57.
- Holland, Robert T.** 1964. Lead, Wisconsin gray gold: Wisconsin Tales and Trails, v. 5, no. 1, p. 31-34, illus.
- Holland, William T.; Jarvis, Clarence S.** 1938. Inventory of unpublished hydrologic data: U.S.G.S., Water-Supply Paper 837, 77 p.
- Holliday, Robert W.** 1955. Investigation of Chippewa copper-nickel prospect near Rockmont, Douglas Co., Wisconsin: U.S. Bur. Mines, Rpt. Inv. 5114, 11 p., illus., map.
- Holmberg, Clyde L.** see Zinner, Paul
- Holmstrom, Barry K.** see Gebert, Warren A.
- see Shearman, James O.
- Holt, Charles Lee Roy, Jr.** see also Devaul, Robert W.
- see also Weeks, Edwin P.
- Holt, Charles Lee Roy, Jr. (and others).** 1970. Hydrogeology of the Rock-Fox River basin of southeastern Wisconsin: G.S.A., Ann. Mtg., Milwaukee, Wisconsin, 1970, Field Trip Guidebook: Wis. Geol. and Nat. History Survey, Inf. Circ. 17, 47 p., illus., table; (abs.) Abs. North Am. Geol., p. 772, May.
- Holt, Charles Lee Roy, Jr.** 1956. Ground water in Pleistocene sediments in central Wisconsin (abs.): G.S.A., Bull., v. 67, no. 12, p. 1706.
- 1958. Hydrologic factors that affect water control in the zinc-lead mines of southwestern Wisconsin (abs.): Mining Eng., v. 10, no. 1, p. 44.
- 1965. Geology and water resources of Portage Co., Wisconsin: U.S.G.S., Water-Supply Paper 1796, 77 p., illus., tables.
- 1973. The sediment problem in Wisconsin's streams: Governor's Conf. on Erosion and Sediment Control, April 26-27, p. 19-30.
- Holt, Charles Lee Roy, Jr.; Skinner, Earl L.** 1973. Ground-water quality in Wisconsin through 1972: Wis. Geol. and Nat. History Survey, Inf. Circ. 22, 148 p., maps.
- Holt, Charles Lee Roy, Jr.; Young, Ken B.; Cartwright, William H.** 1964. The water resources of Wisconsin: Wis. Geol. and Nat. History Survey, 21 p., illus.
- Horberg, Leland.** 1955. Radiocarbon dates and Pleistocene chronological problems in the Mississippi Valley region: Jour. Geol., v. 63, no. 3, p. 278-286, table, map.
- Horn, M.E.** see Lee, Gerhard B.
- Horton, A.H.** see also Barrows, H.K.
- Horton, A.H. (and others).** 1914. Surface water supply of the upper Mississippi Valley: U.S.G.S., Water-Supply Paper 325, p. 125-127, 137-138.
- Horton, A.H.; Follansbee, Robert.** 1907. Surface water supply of upper Mississippi River and Hudson Bay drainages, 1906: U.S.G.S., Water-Supply Paper 207, 94 p.
- Horton, Joseph W.** see also Bannick, Donald A.
- see also Roubal, Ronald K.
- Horton, Joseph W. (and others).** 1968. Interdisciplinary study of a selected area of Lake Superior - progress report (abs.) in Inst. Lake Superior Geology, 14th Ann., 1968, Tech. Sess. Abs.: Wis. State Univ.-Superior, p. 30-32.
- 1971. Sedimentological and chemical parameters of the Lake Superior neritic zone, south shore, Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 59, p. 67-77, illus.
- Horton, R.E.; Hanna, F.W.; Hoyt, J.C.** 1906. Report of progress of stream measurements for the calendar year 1905, pt. 6: U.S.G.S., Water-Supply Paper 170, 116 p.
- Horton, R.E.; Johnson, Edward, Jr.; Hoyt, J.C.** 1905. Report of progress of stream measurements for the calendar year 1904, pt. 6: U.S.G.S., Water-Supply Paper 129, 150 p.
- Hosterman, John W.** see also Heyl, Allen Van
- Hosterman, John W.; Heyl, Allen Van, Jr.; Jolly, Janice L.** 1964. Qualitative x-ray emission analysis studies of enrichment of common elements in wallrock alternation in the upper Mississippi Valley zinc-lead district in Geol. Survey Research 1964: U.S.G.S., Prof. Paper 501-D, p. D54-D60, illus.
- Hotchkiss, William Otis (and others).** 1933. Lake Superior region: Internat. Geol. Cong., 16th Ann., U.S., 1933, Guidebook 27, Excursion C-4, 101 p., illus., maps.
- Hotchkiss, William Otis.** 1906. Rural highways of Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 18 (econ. ser. 11) 135 p., illus.
- 1907. Mining and mineral resources of Wisconsin: Am. Mining Cong., 9th Ann. Sess., Rpt. Progress, p. 220-225.
- 1910. A new model of the state of Wisconsin: Geographic Soc. Philadelphia, Bull., v. 8, no. 4, p. 65-68.
- 1911. The general structure of the Florence iron district (Wis.) (abs.): Science, v. 33 (n s) p. 464.
- 1913. The Wisconsin iron ore discovery: Excavating Engineer, v. 9, no. 8, p. 294.
- 1917. A method of measuring post-glacial time (with discussion by L.D. Burling and Frank Leverett): G.S.A., Bull., v. 28, p. 138-141.
- 1919. Geology of the Gogebic Range and its relation to recent mining developments: Eng. Min. Jour., v. 108, p. 443-452, 501-507, 537-541, 577-582, illus.
- 1923a. Exploration methods on the Gogebic Range: Am. Inst. Mining and Met. Eng., Trans., v. 68, p. 287-293; (abs.) Mining and Metallurgy, no. 163, p. 29-30, 1910.
- 1923b. Geology of the Baraboo gneiss deposits: Am. Ceramic Soc., Jour., v. 6, no. 11, p. 1160-1166, illus.
- 1923c. The Lake Superior geosyncline: G.S.A., Bull., v. 34, no. 4, p. 669-678.

- 1923d. Magnetic methods for exploration and geologic work: *Am. Inst. Mining and Met. Eng., Trans.*, v. 69, p. 36-47.
- 1923e. Recent developments in the geology of the Gogebic range (with discussion by A.C. Lane): *Lake Superior Min. Inst., 23d Ann. Mtg., Proc.*, v. 23, p. 47-55.
- Hotchkiss, William Otis; Bean, Ernest F.** 1924. Economic possibilities of manufacturing cement in Wisconsin *in* Steidtmann, E., Limestones and Marls of Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 66 (econ. ser. 22) p. 176-181.
- 1925. A brief outline of the geology, physical geography, geography, and industries of Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 67 (ed. ser. 9) 60 p.
- 1929. Mineral lands of part of northern Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 46 (econ. ser. 21), 212 p., illus., maps.
- Hotchkiss, William Otis; Bean, Ernest F.; Wheelwright, O.W.** 1915. Mineral land classification in part of northwestern Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 44 (econ. ser. 19) 378 p., illus.
- Hotchkiss, William Otis; Rooney, W.J.; Fisher, James.** 1929. Earth-resistivity measurements in the Lake Superior copper country: *Am. Inst. Mining and Met. Eng., Geophysical prospecting*, p. 51-67, illus.
- Hotchkiss, William Otis; Steidtmann, Edward.** 1914. Limestone road materials of Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 34 (econ. ser. 17) 137 p., illus., maps.
- Hotchkiss, William Otis; Thwaites, Fredrik Turville.** 1912. Map of Wisconsin, showing geology and roads, 1911: *Wis. Geol. and Nat. History Survey*, scale 1 inch = 6 miles, text.
- Hougen, Bernard O.** 1935. Insoluble residues from Wisconsin sedimentary rocks; pt. 2 no. 3, A sedimentational study of part of the Trempealeau formation in southern Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 29, p. 266-268, illus.
- Hough, Jack Luin.** *see also* Ayers, J.
- 1953. Final report on the project Pleistocene chronology of the Great Lakes region: Urbana, Univ. Illinois; Office of Naval Research, Contract no. N6ori-07133, Project NR-018-122, 105 p., illus., Jan. 31.
- 1955. Lake Chippewa, a low stage of Lake Michigan indicated by bottom sediments: *G.S.A., Bull.*, v. 66, p. 957-968.
- 1958. *Geology of the Great Lakes*: Univ. Illinois Press, p. 76-111, illus., maps.
- 1962. *Geologic framework in Pincus, H.J., ed., Great Lakes basin—a symposium*: *Am. Assoc. Adv. Sci.*, 1959, pub. 71, p. 3-27.
- 1963. The prehistoric Great Lakes of North America: *Am. Scientist*, v. 51, no. 1, p. 84-109, illus.
- 1966. Correlation of glacial lake stages in the Huron-Erie and Michigan basins: *Jour. Geol.*, v. 74, no. 1, p. 62-77, illus., tables.
- Housley, John G.** *see* Liu, Paul C.
- Hovind, J.H.** *see* Wilde, S.A.
- Howell, Benjamin Franklin (and others).** 1944. Correlations of the Cambrian formations of North America: *G.S.A., Bull.*, v. 55, no. 8, p. 993-1003, chart no. 1.
- Howell, Benjamin Franklin.** 1958. Skolithos woodi Whitfield in the Upper Cambrian of Minnesota and Wisconsin: *Wagner Free Inst. Sci., Bull.*, v. 33, no. 2, p. 16-19, illus.
- Howell, Benjamin Franklin; Landes, Robert W.** 1936. New monactellid sponges from the Ordovician of Wisconsin: *Jour. Paleontology*, v. 10, no. 1, p. 53-59, illus.; (abs.) *G.S.A., Proc.*, 1935, p. 364-365.
- Howell, Jesse V.** 1935. The Mississippi River arch: *Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook*, p. 386-389, illus., maps.
- Howell, Jesse V.; Thwaites, Frederik Turville; Jones, Daniel Johnathan.** 1935. Structural map on top of the St. Peter Sandstone: *Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook*, p. 360.
- Howell, Jesse V.; Thwaites, Fredrik Turville.** 1935. Structural map on top of the Pre-Cambrian: *Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook*, p. 354.
- Hoyt, J.C.** *see also* Hall, M.R.
- *see also* Hall, W. Carvel
- *see also* Hanna, F.W.
- *see also* Horton, R.E.
- 1904a. Report of progress of stream measurements for the calendar year 1903, pt. 1: *U.S.G.S., Water-Supply Paper* 97, 518 p.
- 1904b. Report of progress of stream measurements for the calendar year 1903, pt. 2: *U.S.G.S., Water-Supply Paper* 98, 313 p.
- Hubbard, George David.** 1900. The Blue Mound quartzite (Wis.): *Am. Geologist*, v. 25, p. 163-168.
- Hubbard, Harold A.** *see also* Schmidt, R.G.
- 1967. Keweenawan volcanic rocks near Ironwood, Michigan (abs.) *in* *Inst. Lake Superior Geology*, 13th Ann., East Lansing, Mich., 1967: East Lansing, Mich., Michigan State Univ., p. 20-21.
- 1968. Stratigraphic relationships of some Keweenawan rocks of Michigan and Wisconsin (abs.) *in* *Inst. Lake Superior Geology*, 14th Ann., 1968, Tech. Sess. Abs.: *Wis. State Univ.-Superior*, p. 35-37.
- 1972. Lower Keweenawan rocks of western Michigan (abs.): *G.S.A., Abs. with Programs*, v. 4, no. 7, p. 545.
- 1975. Lower Keweenawan volcanic rocks of Michigan and Wisconsin: *U.S.G.S., Jour. Research*, v. 3, no. 5, p. 529-541, illus., maps.
- Huber, M.E.** *see* Byers, C.W.
- Huber, Norman King.** 1959. Some aspects of the origin of the Ironwood iron-formation of Michigan and Wisconsin: *Econ. Geology*, v. 54, no. 1, p. 82-118, illus.
- Huels, Fredrick William.** 1915. The peat resources of Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 45 (econ. ser. 20) 274 p., illus., map.
- Huff, Lyman Coleman.** 1941. The sedimentology and physiography of Wisconsin glacial outwash along the Chippewa River: *Ill. State Acad. Sci., Trans.*, v. 34, no. 2, p. 167.
- Huffman, S.F.** *see* Eubenzler, G.D.
- Hughes, John D.; Kososki, David F.** 1975. A submarine channel on the floor of Green Bay, Lake Michigan, evidence for a chronology change in the development of Lake Superior: *Albany, N.Y., 18th Conf. Great Lakes Research*, p. 29.
- Hughes, Urban B.** 1916. A correlation of the peneplains of the Driftless Area: *Iowa Acad. Sci., Proc.*, v. 23, p. 125-132.
- Hull, H.J.** *see* Wilde, S.A.
- Hunt, Thomas Sterry.** 1878. Special report on the trap dikes and Azoic rocks of southern Pennsylvania, pt. 1, historical introduction: *Geol. Survey Pennsylvania, 2d survey, Rpt. E*, 253 p.
- 1880. The history of some pre-Cambrian rocks in America and Europe: *Am. Assoc. Adv. Sci., Proc.*, v. 28, p. 279-296; *Am. Jour. Sci.*, v. 19 (3) p. 268-283; *Canadian Naturalist*, v. 9 (n s) p. 257-275.
- 1883. The geology of Lake Superior: *Science*, v. 1, no. 8, p. 218-219.
- 1885. A historical account of the Taconic question in geology with a discussion of the relations of the Taconic series to the older crystalline and to the Cambrian rocks, 2d pt.: *Canada, Royal Soc., Trans.*, v. 2, sec. 4, p. 125-157; (abs.) *Science*, v. 3, p. 675-676, 1884.
- Huntington, Ellsworth.** 1898. Experiments with available road-making materials of southern Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 11, p. 249-254.
- Hurtgen, Donald C.** 1975. Summary of floods, June 29-30 in southwestern Wisconsin *in* Summary of floods in the United States during 1969: *U.S.G.S. Water-Supply Paper* 2030, p. 116-119.
- Hussakof, Louis.** 1916. Discovery of the great lake trout *Cristivomer namaycush*, in the Pleistocene of Wisconsin: *Jour. Geol.*, v. 24, p. 685-689, illus.
- Hutchinson, Rickard D.** *see also* Green, Jack H.
- 1971. Water resources of Racine and Kenosha Counties, southeastern Wisconsin: *U.S.G.S., Water-Supply Paper* 1878, 63 p., illus.
- Ikola, Rodney J.** 1968. Simple Bouguer gravity map of southern part of Duluth complex and adjacent areas, Minnesota: *Minn. Geol. Survey, Misc. Map Series M-4*, scale 1:25,000.
- Illinois State Geological Survey.** 1965. Geological science field trip Galena area, Jo Daviess Co., Illinois, and Lafayette Co., Wisconsin, Cuba City and Galena quadrangles, Sept. 1965: *Ill. Geol. Survey, Guide Leaflet* 1965D, 16 p., illus.
- Ingram, Blanche** *see* Roedder, Edwin
- Innes, M.J.S.; Goodacre, A.K.** 1967. Gravity anomalies over Lake Superior and surrounding area and their structural implications (abs.) *in* *Inst. Lake Superior Geology*, 13th Ann., East Lansing, Michigan, 1967: East Lansing, Mich. State Univ., p. 22.
- Inst. on Lake Superior Geology.** 1973. Precambrian geology of northeastern and northcentral Wisconsin: *Wis. Geol. and Nat. History Survey, Guidebook*, 19th Ann. Inst., 86 p., illus., maps.
- Irving, Roland Duer.** *see also* Chamberlin, Thomas Chrowder
- Irving, Roland Duer.** 1872. On the age of the quartzites, schists, and conglomerates of Sauk Co., Wisconsin: *Am. Jour. Sci. (with alterations)*, v. 3 (3) p. 93-99, map; *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 1, p. 129-137, map.
- 1873. Note on the age of the metamorphic rocks of Portland, Dodge Co., Wisconsin: *Am. Jour. Sci.*, v. 5 (3) p. 282-286.
- 1874a. On a hand specimen showing the exact junction of the Primordial sandstones and Huronian schists: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 2, p. 139.
- 1874b. On some points in the geology of northern Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 2, p. 107-119, map.
- 1874c. On the age of the copper-bearing rocks of Lake Superior; and on the westward continuation of the Lake Superior synclinal: *Am. Jour. Sci.*, v. 8 (3) p. 46-56, map.
- 1874d. On the occurrence of gold and silver in minute quantities in quartz from Clark County: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 2, p. 140-141.
- 1875. Note on some new points in the elementary stratification of the Primordial and Canadian rocks of south central Wisconsin: *Am. Jour. Sci.*, v. 9 (3) p. 440-443.
- 1876a. Note on the youngest Huronian rocks south of Lake Superior: *Am. Jour. Sci.*, v. 11 (3) p. 493.
- 1876b. On kaolin in Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 3, p. 3-30.
- 1877a. Geology of central Wisconsin *in* *Geology of Wisconsin*: *Wis. Geol. Survey*, v. 2, pt. 3, p. 407-636, maps (part in atlas); (abs.) *Am. Jour. Sci.*, v. 15 (3) p. 62-64, 1878.

- 1877b. Note on the age of the crystalline rocks of Wisconsin: *Am. Jour. Sci.*, v. 13 (3) p. 307-309.
- 1877c. Report (on central and northern Wis.): *Wis. Geol. Survey, Ann. Rpt.* 1876, p. 13-25.
- 1878a. The mineral resources of Wisconsin: Milwaukee, Snyder, VanVechten & Co.'s Atlas, p. 163-165.
- 1878b. Origin of the driftless region of the Northwest: *Am. Jour. Sci.*, v. 15 (3) p. 313-314, 406-407.
- 1878c. Report on the Penokee iron range: *Wis. Geol. Survey, Ann. Rpt.* 1877, p. 17-25.
- 1879. Note on the stratigraphy of the Huronian series of northern Wisconsin, and on the equivalency of the Huronian of the Marquette and Penokee districts: *Am. Jour. Sci.* v. 17(3) p. 393-398.
- 1880a. The geological structure of northern Wis. in *Geology of Wisconsin*: *Wis. Geol. Survey*, v. 3, pt. 1, p. 1-24, illus.
- 1880b. Geology of the eastern Lake Superior district in *Geology of Wisconsin*: *Wis. Geol. Survey*, v. 3, pt. 3, p. 51-214, maps.
- 1880c. The mineral resources of Wisconsin: *Am. Inst. Mining Eng., Trans.*, v. 8, p. 478-508, map.
- 1880d. Sketch of the geological structure of Wisconsin: *Am. Jour. Min. Eng., Trans.*, no. 8, p. 479-491.
- 1882. Microscopic examination of a suite of specimens from the Flambeau River Country, Wisconsin in *Geology of Wisconsin*: *Wis. Geol. Survey*, v. 4, pt. 6, appendix, p. 617-621.
- 1883a. The copper-bearing rocks of Lake Superior: *U.S.G.S., 3d Ann. Rpt.*, p. 89-188, illus.; (*abs.*) *Science*, v. 4, p. 67, 1884.
- 1883b. The copper-bearing rocks of Lake Superior: *U.S.G.S., Mon.* 5, 464 p., maps; (*abs.*) *Science*, v. 5, p. 299-300; *Science*, v. 1, p. 140-141, 359-360, 422, reviewed p. 221, 248-249, 334; *Am. Jour. Sci.*, v. 29 (3) p. 258-259, reviewed p. 67, 339-340, 1885.
- 1883c. Iron ores in *Geology of Wisconsin*: *Wis. Geol. Survey*, v. 1, pt. 3, chap. 1, p. 613-636.
- 1883d. Lithology of Wisconsin in *Geology of Wisconsin*: *Wis. Geol. Survey*, v. 1, pt. 2, chap. 3, p. 340-361.
- 1883e. Minerals of Wisconsin in *Geology of Wisconsin*: *Wis. Geol. Survey*, v. 1, pt. 2, chap. 2, p. 309-339.
- 1883f. On the nature of the induration in the St. Peters and Potsdam sandstones and in certain Archean quartzites in Wisconsin: *Am. Jour. Sci.*, v. 25 (3) p. 401-411, illus.; reviewed *Science*, v. 2, p. 52.
- 1883g. On the paramorphic origin of the hornblende of the crystalline rocks of the Northwestern States: *Am. Jour. Sci.*, v. 26 (3) p. 27-32, 321-322; v. 27, p. 130-134; v. 28, p. 464; reviewed, v. 26, p. 155.
- 1884. Report on studies of Archean of the Northwest: *U.S.G.S., 4th Ann. Rpt.*, 1882-1883, p. 28-34.
- 1885a. Divisibility of the Archean in the Northwest: *Am. Jour. Sci.*, v. 29 (3) p. 237-249, 1885.
- 1885b. Preliminary paper on an investigation of the Archean formations of the Northwestern States: *U.S.G.S., 5th Ann. Rpt.*, 1883-1884, p. 175-242; (*abs.*) *Am. Nat.*, v. 20, p. 248-249, 1886; (*abs.*) *Eng. Min. Jour.*, v. 49, p. 174-175, 1890.
- 1887. Is there a Huronian group?: *Am. Jour. Sci.*, v. 34 (3) p. 204-216, 249-263, 365-374.
- 1888. Classification of early Cambrian and Pre-Cambrian formations: *U.S.G.S., 7th Ann. Rpt.*, p. 365-454, map.
- Irving, Roland Duer; Chamberlin, Thomas Chrowder.** 1885. Observations on the junction of the eastern sandstone and the Keweenaw series on Keweenaw Point: *U.S.G.S., Bull.* 23, 124 p., illus.; *Am. Geologist*, v. 1, p. 44-57, 1888; revised, *Am. Geologist*, v. 1, p. 44-57, 1888.
- Irving, Roland Duer; Chamberlin, Thomas Chrowder; Van Hise, Charles Richard.** 1891. The crystalline schists of the Lake Superior region: London, Internat. Geol. Cong., Comptes Rendu, 4th sess., 1888, p. 156-170.
- Irving, Roland Duer; Van Hise, Charles Richard.** 1882. Crystalline rocks of the Wisconsin Valley in *Geology of Wisconsin*: *Wis. Geol. Survey*, v. 4, pt. 7, p. 623-714, maps; (*abs.*) *Phil. Mag.*, v. 18 (n s) p. 462-463.
- 1885. On secondary enlargement of mineral fragments in certain rocks: *U.S.G.S., Bull.* 8, v. 2, p. 187-240, illus.
- 1892. The Penokee iron-bearing series of Wisconsin and Michigan: *U.S.G.S., Mon.* 19, 534 p., maps; *U.S.G.S., 10th Ann. Rpt.*, p. 341-507, illus., 1890.
- Ishaq, A.M.** 1974. Application of remote sensing to the location of hydrologically active (source) areas (*abs.*): *Dissert. Abs. Internat.*, Sec. B, v. 36, no. 1, p. 364.
- Iskandar, I.K.** see also Pezzetta, John M.
- see also Syers, J.K.
- Iskandar, I.K.; Keeney, Dennis R.** 1974. Concentration of heavy metals in sediment cores from selected Wisconsin lakes: *Env. Sci. and Technology*, v. 8, p. 165-170; *Geo Abstracts*, sec. E, *Sedimentology*, v. 3, p. 306, 1975.
- Iskandar, I.K.; Wiersma, J.H.** 1975. Concentration of heavy metals in recent sediments of Green Bay-Lake Michigan: Albany, N.Y., 18th Conf. Great Lakes Research, p. 30.
- Iskandar, I.K.; Wiersma, J.H.; Mowbray, T.B.** 1975. Eutrophic status of lower Green Bay, Lake Michigan: Albany, N.Y., 18th Conf. Great Lakes Research, p. 30.
- Iverson, Cedric Lawrence.** 1951. Geomorphology of the Lake Superior Region in *Field trip to the Lake Superior region, May 5 to May 12, 1951*: Madison, Univ. Wis., Dept. of Geology, 6 p., map.
- Jackson, Charles T.** 1849. Report on the geological and mineralogical survey of the mineral lands of the United States in the State of Michigan: *U.S., 31st Cong., 1st Sess., Senate Ex. Doc.* 1, pt. 3, 935 p.
- 1859. On the Clinton iron ore: *Boston Soc. Nat. History, Proc.*, v. 6, p. 341.
- Jackson, K.C.** see Kuroda, P.K.
- Jackson, Marion L.** see Massey, H.F.
- see Borchardt, G.A.
- see Brown, B.E.
- see Fanning, Delvin Seymour
- see Weaver, R.M.
- see Whittig, Lynn D.
- Jackson, W.H.** see Roller, J.C.
- Jacobs, L.W.; Syers, J.K.; Keeney, Dennis R.** 1970. Arsenic sorption by soils: *Soil Sci. Soc. Am., Proc.*, v. 34, no. 5, p. 750-754, illus., tables.
- Jahn, Laurence R.** see Cotter, Ralph D
- James, Edwin.** 1827. Remarks on the limestones of the Mississippi lead mines: *Philadelphia Acad. Nat. Sci., Jour.*, v. 5, p. 376-380.
- James, Harold L.** see also Aldrich, Lyman T.
- see also Bayley, R.W.
- James, Harold L. (and others).** 1959. Geologic map of Iron River-Crystal Falls district, Iron Co., Michigan: *U.S.G.S., Mineral Inv. Field Studies Map MF-225*, scale 1:24,000, 3 sheets.
- 1968. Geology and ore deposits of Iron River-Crystal Falls district, Iron Co., Michigan: *U.S.G.S., Prof. Paper* 570, 134 p.
- James, Harold L.** 1955. Zones of regional metamorphism in the Precambrian of northern Michigan: *G.S.A., Bull.*, v. 66, no. 12, pt. 1, p. 1455-1488.
- 1960. Problems of stratigraphy and correlation of Pre-cambrian rocks with particular reference to Lake Superior region: *Am. Jour. Sci.*, Bradley volume, v. 258-A, p. 104-114, illus.
- 1966. Chemistry of the iron-rich sedimentary rocks: *U.S.G.S., Prof. Paper* 440-W, p. W33-W39, table.
- James, Harold L.; Clayton, R.N.** 1962. Oxygen isotope fractionation in metamorphosed iron formations of the Lake Superior region and in other iron-rich rocks in Engel, James, Leonard, eds., *Petrologic studies*, a volume in honor of A.F. Buddington: *G.S.A.*, p. 217-239, tables.
- James, Joseph Francis.** 1886. Description of a new species of "Gomphoceras" from the Trenton of Wisconsin: *Cincinnati Soc. Nat. History, Jour.*, v. 8, p. 255, illus.
- 1894. The St. Peter's sandstone: *Cincinnati Soc. Nat. History, Journal*, v. 17, no. 2, p. 115-135.
- 1897. Notes on the Potsdam and lower Magne-sian formations of Wisconsin and Minnesota (*abs.*): *Jour. Geol.*, v. 5, p. 99.
- Janke, W.E.** see Lee, Gerhard B.
- Jaquet, N.G.** 1975. Ground water/surface water relationships in the glacial province of northern Wisconsin, Snake Lake (*abs.*): *G.S.A., Abs. with Programs*, v. 7, no. 7, p. 1133.
- Jarvis, Clarence S.** see Holland, William T.
- Jenkins, Robert A.** 1973. The geology of Beecher and Pembine townships; Marinette Co., Wisconsin in *Inst. Lake Superior Geology, 19th Ann.*, 1973, Tech. program and *abs.*: *Wis. Geol. and Nat. History Survey; Univ. Wis., Geology Dept.*, p. 15-16.
- Jenny, Walter P.** 1894. The lead and zinc deposits of the Mississippi Valley: *Am. Inst. Mining Engineers, Trans.*, v. 22, p. 181-185, 208-223.
- Jipson, A. William; Lindberg, Richard.** 1967. Progress in Pri-Ru-Ta: *Soil Cons.*, v. 32, p. 249-251.
- Johannes, S.I.** see also Sather, LaVerne M.
- Johannes, S.I.; Sather, LaVerne M.; Threinen, C.W.** 1970. Surface water resources of Bayfield County: *Wis. Dept. Nat. Resources, Lake and stream classification project*, 372 p., tables, maps.
- Johnson, Douglas W.; Bates, Robert E.** 1936. Correlation of erosion surfaces in southwestern Wis. (*abs.*): *Science*, v. 3 (n s) no. 2160, p. 484-85.
- Johnson, Edward, Jr.** see Hall, M.R.
- see Horton, R.E.
- Johnson, H.A.; Thomas, B.W.** 1884. Microscopic organisms in boulder clays of Chicago and vicinity: *Am. Jour. Sci.*, v. 28 (3) p. 317-318; (*abs.*) *Science*, v. 3, p. 237; *Chicago Acad. Sci., Bull.* 1, p. 35-40.
- Johnson, Helgi.** 1932. Presence of organic structures in the centers of oolites of the Neda iron ores of Wisconsin (*abs.*): *G.S.A., Bull.*, v. 43, no. 1, p. 269-270; *Pan-Am. Geologist*, v. 57, no. 2, p. 150-151.
- Johnson, Noye M.** see also Likens, Gene E.
- Johnson, Noye M.; Likens, Gene E.** 1967. Steady-state heat flow conditions in the sediments of a small meromictic lake (*abs.*): *Am. Geophys. Union, Trans.*, v. 48, no. 1, p. 211.
- Johnson, Robert W., Jr.** 1960. A change in sedimentary facies in the Little Commonwealth area, Florence Co., Wisconsin (*abs.*) in *Inst. Lake Superior Geology, 6th Ann.*, 1960: Madison, Univ. Wis., Dept. Geology; *Wis. Geol. and Nat. History Survey*, p. 20.

- Johnson, Rudolf W.; Mengel, Joseph T., Jr.** 1969. The geology of the South Range quadrangle, Douglas Co., Wisconsin (abs.) in *Inst. Lake Superior Geology*, 15th Ann., 1969, Tech. Sess. Abs.: Wis. State Univ.-Oshkosh, Dept. Geology, p. 20-21.
- Johnson, S.H.; Farnham, Paul Rex.** 1967. Refraction seismic surveys on the mid-continent gravity anomaly in Minnesota and Wisconsin (abs.) in *Inst. Lake Superior Geology*, 13th Ann., East Lansing, Mich., 1967: East Lansing Mich., Michigan State Univ., p. 24.
- Johnson, T.M.** see Fricke, C.
- Johnson, William.** see Knox, James Clarence
- Jolliet, Louis.** 1880. Map of a vast country in America, 1674: *Revue de Geographie*, February in *Jesuit Relations, 1673-1677*: Cleveland, Burrow Bros., R.G. Thwaites, edition, v. 589, p. 86, 1900.
- Jolly, Janice L.** see Hosterman, John W.
- Jones, Daniel Johnathan.** see Howell, Jesse V.
- Jones, David G.** 1978. Geology of the iron formation and associated rocks of the Jackson County Iron Mine, Jackson County, Wisconsin (abs.) in *Inst. Lake Superior Geology*, 24th Ann., 1978, Abs. and Proc.: Univ. Wis., Milwaukee, p. 19.
- Jones, E.R.** see Whitson, Andrew Robeson
- Jones, Grove B.** see also Geib, W.J.
- Jones, Grove B.; Ayr, Orla L.** 1907. Soil survey of Racine Co., Wisconsin: U.S.D.A., Bur. Soils, Field operations 1906, 25 p., map.
- Jones, Jeanette A.** 1931. Notes on the late Ordovician strata of the Green Bay-Lake Winnebago region: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 26, p. 121-126.
- 1935. Ordovician starfish of Wisconsin: *Jour. Paleontology*, v. 9, no. 7, p. 593-595, illus.
- Jones, Thomas A.** 1969. Determination of "n" in weight frequency data: *Jour. Sed. Petrology*, v. 39, no. 4, p. 1473-1476, illus.
- Josephson, Paul D.** see Somers, Lee H.
- Juday, Chancey (and others).** 1927. Phosphorus content of lake waters of northeastern Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 23, p. 233-248, table.
- Juday, Chancey.** see also Allgeier, R.J.
- see also Birge, Edward Asahel
- see also Lohuis, Delmont
- 1914. The inland lakes of Wisconsin—hydrography and morphometry of the lakes: *Wis. Geol. and Nat. History Survey, Bull.* 27 (soil ser. 9) 137 p., maps.
- Juday, Chancey; Birge, Edward Asahel.** 1930. The highland lake district of northeastern Wisconsin and the Trout Lake limnological laboratory: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 25, p. 337-352.
- 1931. A second report on the phosphorus content of Wisconsin lake waters: *Wis. Acad. Sci., Arts and Letters, Trans.*, v. 26, p. 353-382, illus.
- 1932. Dissolved oxygen and oxygen consumed in the lake waters of northeastern Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 27, p. 415-486.
- 1933. The transparency, the color and the specific conductance of the lake waters of northeastern Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.* v. 28, p. 205-259.
- 1941. Hydrography and morphometry of some northeastern Wisconsin lakes: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 33, p. 21-72.
- Juday, Chancey; Birge, Edward Asahel; Meloche, V.W.** 1935. The carbon dioxide and hydrogen ion content of the lake waters of northeastern Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 29, p. 1-82, tables.
- 1938. Mineral content of the lake waters of northeastern Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 31, p. 223-276.
- Juday, Chancey; Birge, Edward Asahel; Meloche, V.W.** 1941. Chemical analyses of the bottom deposits of Wisconsin lakes, II: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 33, p. 99-114, illus.
- Juday, Chancey; Fred, E.B.; Wilson, F.C.** 1924. The hydrogen ion concentration of certain Wisconsin lake waters: *Am. Microscopical Soc., Trans.*, v. 43, p. 177-190.
- Juday, Chancey; Meloche, V.W.** 1943. Physical and chemical evidence relating to the lake basin seal in certain areas of the Trout Lake region of Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 35, p. 157-174, illus.
- Juday, R.E.** see Manning, W.M.
- Judson, S. Sheldon, Jr.** see also Thwaites, Fredrik Turville
- Judson, S. Sheldon, Jr.; Andrews, George William.** 1955. Pattern and form of some valleys in the Driftless Area, Wisconsin: *Jour. Geol.*, v. 63, no. 4, p. 328-336, illus.
- Judson, S. Sheldon, Jr.; Murray, Raymond Carl.** 1956. Modern hydrocarbons in two Wisconsin lakes: *Am. Assoc. Pet. Geol., Bull.*, v. 40, no. 4, p. 747-750.
- Judson, S. Sheldon, Jr.; Osmond, J. Kenneth.** 1955. Radioactivity in ground and surface water: *Am. Jour. Sci.*, v. 253, no. 2, p. 104-116, tables.
- Julien, Alexis Anastay.** 1880. Microscopic examination of eleven rocks from Ashland Co., Wisconsin in *Geology of Wisconsin*: *Wis. Geol. Survey*, v. 3, pt. 3, appendix B, p. 224-238, illus.
- Kalliokoski, Jorma O.** see also Klasner, J.S.
- 1976. Uranium and thorium occurrences in Precambrian rocks, Upper Peninsula of Michigan and northern Wisconsin, with thoughts on other possible settings; evaluation of the uranium potential of the Precambrian rocks of Michigan, Wisconsin, and eastern Minnesota: Houghton, Michigan Tech. Univ., Dept. Geology and Geological Eng. (U.S. ERDA rpt. GJBX 48-76), 294 p., illus., maps.
- Kammerer, J.C.** see MacKichan, K.A.
- Kan, Tze-Kong; Clay, C.S.; Sternberg, Ben K.** 1974. Transient electrical dipole-dipole soundings (abs.): *EOS (Am. Geophys. Union, Trans.)*, v. 55, no. 4, p. 229.
- Kanneberg, Adolph** see Gettle, Lewis E.
- Kansas Geology Society.** 1935. Paleozoic rocks of upper Mississippi Valley of Wisconsin, Illinois, Iowa, and Missouri, August 25 to Sept. 1: *Guidebook*. 19th Ann. Field Conf., 471p., illus., maps.
- Kar, Songthara Om.** 1967. Hydrograph rise times: *Colorado State Univ., Nat. Resources Center*, 124 p.
- Karges, Burton E.** 1936. A study of the insoluble residues from well samples of the Wisconsin Silurian; a precis of the thesis submitted at the U.W. for the degree of Doctor of Philosophy: *Wis. State Teachers College Bull.*, v. 30, no. 143, 8 p., illus.
- Karl, John H.** see also Mudrey, Michael G., Jr.
- see also Zietz, Isidore
- 1975. The Wisconsin aeromagnetic mapping project in *Inst. Lake Superior Geology*, 21st Ann., Tech. Sess. Abs. and Field Guides: *Marquette, Northern Mich. Univ.*, p. 31.
- Katzman, Michael M.** 1968a. The Mellen granite, Mellen, Wisconsin: *Compass*, v. 45, no. 2, p. 113-121, illus., tables.
- 1968b. Progress of geologic investigation of the Mellen Granite, Ashland Co., Wisconsin (abs.) in *Inst. Lake Superior Geology*, 14th Ann., 1968, Tech. Sess. Abs.: *Wis. State Univ.-Superior*, p. 51.
- Kaufmann, Robert Frank.** 1970. Hydrogeology of solid waste disposal sites in Madison, Wisconsin: *Univ. Wis., Water Resources Center, Tech. Rpt.*, OWRR A-018-WIS., 361 p.
- 1971. Hydrogeology of solid waste disposal sites in Madison, Wisconsin: *Dissert. Abs. Internat.*, Sec. B, v. 31, no. 11, p. 6969B.
- Kay, George Marshall.** 1928. Divisions of the Decorah Formation in northeastern Iowa: *Science*, v. 67 (ns) no. 1723, p. 16.
- 1929a. *Rafinesquina incurvata* Shepard, A Cincinnati brachiopod (abs.): *Pan-Am. Geologist*, v. 51, no. 3, p. 229; *G.S.A., Bull.*, v. 40, no. 1, p. 211.
- 1929b. Stratigraphy of the Decorah Formation: *Jour. Geol.*, v. 37, no. 7, p. 639-671, illus.
- 1930. Formations subjacent to the Black River-Trenton line (abs.): *G.S.A., Bull.*, v. 41, no. 1, p. 201; *Pan-Am. Geol.*, v. 53, no. 2, p. 156-157.
- 1931. Stratigraphy of the Ordovician Hounsfield metabentonite: *Jour. Geol.*, v. 39, no. 4, p. 361-376, tables; (abs.) *G.S.A., Bull.*, v. 42, no. 1, p. 225, 1931; *Pan-Am. Geol.*, v. 57, no. 2, p. 150, 1932.
- 1932. Base of Ordovician Galena Formation (abs.): *G.S.A., Bull.*, v. 43, no. 1, p. 268; *Pan-Am. Geologist*, v. 57, no. 2, p. 150.
- 1934. Mohawkian Ostracoda; species common to Trenton faunules from the Hull and Decorah formations: *Jour. Paleontology*, v. 8, no. 3, p. 328-343, illus.
- 1935b. Distribution of Ordovician altered volcanic materials and related clays: *G.S.A., Bull.*, v. 46, no. 2, p. 238-239, illus.; (abs.) *G.S.A., Proc.*, 1933, p. 381, 1934.
- 1935c. Ordovician Stewartville-Dubuque problems: *Jour. Geol.*, v. 43, no. 6, p. 561-590, illus., map; (abs.) *G.S.A., Proc.*, 1934, p. 356.
- 1935d. Ordovician system in the upper Mississippi Valley: *Kansas Geol. Soc.*, 9th Ann. Field Conf., *Guidebook*, p. 281-295, illus., table.
- 1938. Mohawkian Ostracoda, the lower Trenton Decorah fauna (abs.): *G.S.A., Bull.*, v. 49, no. 12, pt. 2, p. 1890.
- 1939. Stratigraphic setting, Wisconsin-Illinois district in Bastin, E.S. (and others), *Contributions to a knowledge of the lead-zinc deposits of the Mississippi Valley region*: *G.S.A., Sp. Paper* 24, p. 25-28.
- 1940. Ordovician Mohawkian Ostracoda, lower Trenton Decorah fauna: *Jour. Paleontology*, v. 14, no. 3, p. 234-269, illus.; correction, no. 6, p. 615.
- Kay, George Marshall; Apfel, Earl T.** 1930. The pre-Illinoian Pleistocene geology of Iowa (abs.): *G.S.A., Bull.*, v. 41, no. 1, p. 170-171.
- Kay, George Marshall; Atwater, Gordon Ingham.** 1935a. Basal relations of the Galena dolomite in the upper Mississippi Valley lead and zinc district: *Am. Jour. Sci.* (5th ser.) v. 29, no. 170, p. 98-111, illus.
- Keating, W.H.** 1824. Major Long's second expedition, narrative of an expedition to the source of St. Peter's River, Lake Winnepeek, Lake of the Woods, etc., performed in the year 1823, under the command of Stephen H. Long: *Philadelphia*, 2 volumes, 439, 459p.,
- Keeney, Dennis R.** see also Chalk, P.M.
- see also Iskandar, I.K.
- see also Jacobs, L.W.
- see also Konrad, John G.
- see also Syers, J.K.
- Keeney, Dennis R.; Konrad, John G.; Chesters, Gordon.** 1970. Nitrogen distribution in some Wisconsin lake sediments: *Water Pollution Control Federation Jour.*, v. 42, no. 3, pt. 1, p. 411-417, tables; (abs.) *North Am. Geol.*, p. 237, Feb. 1971.
- Keller, Carl O.** see Potzger, John Ernest
- Kellett, Betty.** see Bassler, Roy Smith

- Kellogg, Charles Edwin.** *see also* Whitson, Andrew Robeson
- 1930. Preliminary study of the profiles of the principal soil types of Wisconsin: *Wis. Geol. and Nat. History Survey, Bull. 77A* (soil ser. 54) 112 p., illus.
- Kellogg, Louise Phelps.** 1925. Early mining in the Northwest in French regime in Wisconsin and the Northwest: *Wis. State Hist. Soc.*, p. 341-363.
- Kelly, James V.** 1948. Investigation at the Fairplay zinc and lead area, Grant Co., Wis.: U.S. Bur. Mines, Rpt. Inv. 4327, 5 p., illus.
- 1949. Investigation of Rodham mine zinc and lead area, Lafayette Co., Wisconsin: U.S. Bur. Mines, Rpt. Inv. 4446, 6 p., illus.
- Kelsey, Laura E.; Ashby, Charlotte M., comp.** 1970. Cartographic records relating to the Territory of Wisconsin, 1836-1848: Washington, D.C., The National Archives, National Archives and Records Service, General Services Administration (special list no. 23) 41 p.
- Kennedy, E. Joyce; Ruch, R.R.; Shimp, N.F.** 1971. Distribution of mercury in unconsolidated sediments from southern Lake Michigan: *Ill. State Geol. Survey, Env. Geology Notes no. 44*, Studies of Lake Michigan Bottom Sediments, no. 7, 18 p., illus.
- Kennedy, Vance C.** 1956. Geochemical studies in the southwestern Wisconsin lead-zinc district: U.S.G.S., *Bull. 1000-E*, p. 187-223, illus.
- Kernen, Lee T.; Poff, Ronald J.; Threinen, C.W.** 1965. Surface water resources of Dodge County: *Wis. Cons. Dept., Lake and stream classification project*, 63 p., tables, maps.
- Kerr, Robert S.** 1960. Surface water resources of the United States: U.S., 86th Cong., 2d sess., Senate Select. Com. on National Water Resources, Com. Print 4, p. 92-93, map.
- Kettle, Martha J.** 1971. Hydrogeologic considerations in liquid waste disposal, with a case study in southeastern Wisconsin: *Technical Record*, v. 3, no. 3, 39 p.
- Keyes, Charles Rollin.** 1889. Note on the distribution of certain loess fossils: *Am. Geologist*, v. 4, p. 119-121.
- 1915. Lake Superior highlands; their origin and age: *Jour. Geol.*, v. 23, p. 569-574.
 - 1923. Circumstate correlations of Iowa's geological formations: *Pan-Am. Geologist*, v. 39, no. 4, p. 317-326.
 - 1932. What is the Galena limestone? a curious problem in regional correlation: *Pan-Am. Geologist*, v. 57, no. 4, p. 279-296.
 - 1934a. Taxonomic status of Wisconsin glacial till: *Pan-Am. Geologist*, v. 62, no. 5, p. 371-374.
 - 1934b. Willow dolomite of Upper Mississippi Valley: *Pan-Am. Geologist*, v. 61, no. 3, p. 239-240.
 - 1935. Terranal nomenclature of Owen's lower magnesian limestone: *Pan-Am. Geologist*, v. 63, no. 2, p. 155-160.
 - 1937. Extension of Wisconsin's Beloit limestone into Iowa: *Pan-Am. Geologist*, v. 67, no. 3, p. 235-237.
 - 1940. Preoccupation of formational Madison term of Wisconsin: *Pan-Am. Geologist*, v. 73, no. 1, p. 63-65.
- Kiefer, Ralph W.** *see also* Frazier, B.E.
- 1965. Land evaluation for land use planning: *Building Science*, v. 1, p. 109-126, illus., tables.
 - 1966. Airphoto interpretation for soil studies: *Univ. Wis., Eng. Experiment Station, Project Wisconsin HPR-1(2)(910)*, 122 p., illus.
 - 1967a. Landform features in the United States: *Photogrammetric Engineering*, v. 33, no. 2, p. 174-182, illus.
 - 1967b. Terrain analysis for metropolitan fringe area planning: *Am. Soc. Civ. Eng., Proc.*, v. 93, paper 5649; *Jour. Urban Plan. Dev. Div.*, no. UP 4, p. 119-139, illus., tables; (abs.) *Abs. North Am. Geol.*, p. 523, April 1968.
- Killebrew, Joseph Buckner.** 1883. Report on the culture and curing of tobacco in the United States: U.S., 10th Census, Statistics of Agriculture, v. 3, p. 583-950.
- Kim, Stephen M.; Ruch, R.R.** 1969. Illinois State Geological Survey radiocarbon dates I: *Radiocarbon*, v. 11, no. 2, p. 394-395; (abs.) *Abs. North Am. Geol.*, p. 217, Feb. 1970.
- Kimball, J.P.** *see* Foster, John Wells
- King, Elizabeth R.** *see also* Heyl, Allen Van, Jr.
- King, Elizabeth R.; Henderson, John R.; Vargo, J.L.** 1966. Aeromagnetic map of Florence-Goodman area, Florence, Forest and Marinette Counties, Wisconsin: U.S.G.S., *Geophys. Inv. Map GP-576*, scale 1:62,500.
- King, Elizabeth R.; Zietz, Isidore.** 1969. The midcontinent gravity high—Keweenaw tectonics and a possible ancestral global rift system (abs.): G.S.A., *Abs. with Programs*, pt. 7, p. 125-126.
- 1971. Aeromagnetic study of the midcontinent gravity high of central United States: *G.S.A., Bull.*, v. 82, no. 8, p. 2187-2808, illus., map.
- King, Franklin Hiram.** 1882a. Geology of the upper Flambeau Valley in Geology of Wisconsin: *Wis. Geol. Survey*, v. 4, pt. 6, p. 583-615, maps.
- 1882b. Model of Wisconsin, showing topography and geology: *River Falls, Wis.*, 42" x 46".
 - 1892. Observation and experiments on the fluctuations in the level and rate of movement of ground-water on the Wisconsin experiment station farm and at Whitewater, Wisconsin: U.S.D.A., *Weather Bureau, Bull. 5*, 75 p.; *Univ. Wis., Agr. Experimental Station*, 9th Ann. Rpt., p. 129-218, 1893.
 - 1894. Studies relating to ground-water and soil moisture: *Univ. Wis., Agr. Experimental Station*, 10th Ann. Rpt., p. 165-200, illus.
- King, Henry.** 1842. Position of lead-bearing limestone of the Upper Mississippi: *Am. Jour. Sci.*, v. 43, p. 173; *Assoc. Am. Geol., Trans.*, p. 66, 1843.
- 1844. Geology of the valley of the Mississippi from the southern part of the State of Missouri to Wisconsin River in the Territory of Iowa (abs.): *Am. Jour. Sci.*, v. 47, p. 128-130.
- King, Philip B.** 1969. The tectonics of North America—a discussion to accompany the tectonic map of North America scale 1:5,000,000: U.S.G.S., *Prof. Paper 628*, p. 33-35, map.
- 1976(77). Precambrian geology of the United States, an explanatory text to accompany the *Geologic Map of the United States*: U.S.G.S., *Prof. Paper 902*, 85 p.
- King, Rufus.** 1927. Milwaukee to St. Paul in 1855: *Wis. Mag. History*, v. 2, no. 2, p. 169-189.
- Kirby, John R.** *see also* Zietz, Isidore
- Kirby, John R.; Petty, A.J.** 1966. Regional aeromagnetic map of western Lake Superior and adjacent parts of Minnesota, Michigan and Wisconsin: U.S.G.S., *Geophys. Inv. Map GP-556*, scale 1:250,000.
- Kirchoffer, William Gray.** 1905. The sources of water supply in Wisconsin: *Univ. Wis. Bull.* 106 (eng. ser. v. 3, no. 2) p. 163-249, map.
- 1922. A new method of rating water-bearing sands and gravels: *Public Works*, 6 p., tables.
 - 1926. Increasing the capacity of ground water supplies: *Am. Water Works Assoc., Jour.*, v. 15, no. 2, p. 144-151.
- Kirkemo, Harold (and others).** 1965. Investigations of molybdenum deposits in the conterminous U.S., 1942-60: U.S.G.S., *Bull. 1182-E*, p. E1-E90, illus., tables, maps.
- Kissling, Elizabeth H.** 1960. Quantitative geomorphic analysis of stream patterns in west-central Wisconsin (abs.) in *Inst. Lake Superior Geology*, 6th Ann., 1960: Madison, Univ. Wis., Dept. Geol. y; *Wis. Geol. and Nat. History Survey*, p. 16.
- Klasner, J.S.; Bomke, D.** 1977. Crustal model studies of a regional gravity anomaly in northern Michigan and Wisconsin, extent of anomaly and its relationship to near surface geology (abs.) in *Inst. Lake Superior Geology*, 23d Ann.: Thunder Bay, p. 21.
- Klasner, J.S.; LaBerge, Gene L.; Kallikowski, Jorma O.** 1975. Geophysical evidence in support of a proposed northeast trending fault zone in central Wisconsin, northern Michigan, and Lake Superior (abs.): *EOS (Am. Geophys. Union, Trans.)* v. 56, no. 9, p. 603-604.
- Klasner, J.S.; Turner, T.** 1973. Precambrian north-south oriented faults in the western Marquette district, northern Michigan (abs.) in *Inst. Lake Superior Geology*, 19th Ann.: Madison, Wis. Geol. and Nat. History Survey, p. 17-18.
- Klemic, Harry.** *see also* West, Walter S.
- Klemic, Harry; Mrose, Mary E.** 1972. Geologic relations and x-ray crystallography of wavelite from Jackson Co., Wisconsin, and their geologic implications: U.S.G.S., *Prof. Paper 800-C*, p. C53-62, illus.
- Klemic, Harry; Ohlson, John M.** 1973. Guidebook to the geology and mineral deposits of the central part of Jackson Co. and part of Clark Co., Wisconsin: *Wis. Geol. and Nat. History Survey*, 19th Ann. *Inst. Lake Superior Geology*, 27 p., maps.
- Klemic, Harry; West, Walter S.** 1964. Geology of the Belmont and Calamine quadrangles, Wisconsin: U.S.G.S., *Bull. 1123-G*, p. 361-435, illus., map.
- Klick, Thomas A.; Gebkin, DuWayne F.; Threinen, C.W.** 1969. Surface water resources of Monroe County: *Wis. Dept. Nat. Resources, Lake and stream classification project*, 119 p., tables, maps.
- 1971. Surface water resources of Pierce County: *Wis. Dept. Nat. Resources, Lake and stream classification project*, 48 p., tables, maps.
- Klick, Thomas A.; Gebkin, DuWayne F.; Threinen, C.W.** 1970. Surface water resources of Trempealeau County: *Wis. Dept. Nat. Resources, Lake and stream classification project*, 96 p., tables, maps.
- Klick, Thomas A.; Threinen, C.W.** 1965. Surface water resources of Clark Co., Wisconsin: *Wis. Cons. Dept., Lake and stream classification project*, 94 p., maps.
- 1966. Surface water resources of Adams County: *Wis. Cons. Dept., Lake and stream classification project*, 69 p., tables, maps.
 - 1967. Surface water resources of Wood County: *Wis. Dept. Nat. Resources, Lake and stream classification project*, 91 p., tables, maps.
 - 1968. Surface water resources of Jackson County: *Wis. Dept. Nat. Resources, Lake and stream classification project*, 133 p., tables, maps.
 - 1969. Surface water resources of Juneau County: *Wis. Dept. Nat. Resources, Lake and stream classification project*, 85 p., tables, maps.
 - 1972. Surface water resources of Crawford County: *Wis. Dept. Nat. Resources, Lake and stream classification project*, 65 p., maps.
- Kline, J.R.; Foss, J.E.; Brar, S.S.** 1969. Lanthanum and scandium distribution in three glacial soils of western Wisconsin: *Soil Sci. Soc. Am., Proc.*, v. 33, no. 2, p. 287-291, illus., tables; (abs.) *Abs. North Am. Geol.*, p. 219, Feb. 1970.
- Klingelhoets, A.J.** *see also* Hole, Francis D.
- *see also* Robinson, Glenn H.
- Klingelhoets, A.J. (and others).** 1968. Classification of Wisconsin soils: *Univ. Wis., College Ag. Life Sci., Research Div., Sp. Bull. 12*, 41 p., maps.

- Klingelhoets, A.J.** 1962. Soil survey of Iowa Co., Wisconsin: U.S.D.A., Soil Conservation Service, no. 22 (series 1958) 101 p.; maps.
- 1966. General and operational soil surveys and their application in land-use planning in Soils and land-use planning-ASPO Natl. Plan. Conf., Philadelphia, Pa., 1966: Chicago, Ill., Am. Soc. Plan. Officials, p. 7-10, illus.
- Klopatek, Jeffrey.** see Stearns, Forest
- Klug, Curtis R.** 1977. The Upper Silurian of Wisconsin in Nelson, Katherine G., ed., Geology of southeastern Wisconsin: Wis. Geol. and Nat. History Survey, 41st Ann. Tri-State Field Conf. Guidebook, p. A-35-A-39, illus.
- Klug, Curtis R.; Nelson, Katherine G.** 1977. The Devonian of Wisconsin in Nelson, Katherine G., ed., Geology of southeastern Wisconsin: Wis. Geol. and Nat. History Survey, 41st Ann. Tri-State Field Conf. Guidebook, p. A-41-A-46.
- Knapp, J.G.** 1872. Ancient lakes of Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 1, p. 151-153.
- Knoll, Kenneth M.** see Bayer, Thomas N.
- Knowles, Doyle B.** see also Audini, Roy E.
- 1964. Ground-water conditions in the Green Bay area, Wisconsin, 1950-1960: U.S.G.S., Water-Supply Paper 1669-J, p. J1-J37, illus., tables.
- Knowles, Doyle B.; Dreher, Frederick C.; Whetstone, George W.** 1964. Water resources of the Green Bay area: U.S.G.S., Water-Supply Paper 1499-G, p. G1-G67, illus.
- Knowlton, Fred G.** 1946. Claystone concretions at Rufus, Wisconsin: Rocks and Minerals, v. 21, no. 1, p. 5.
- Knox, James Clarence.** see also Dury, George H.
- 1970. Stream channel adjustment to physiographic factors in small drainage basins, Iowa and southwestern Wisconsin (abs.): Dissert. Abs. Internat., Sec. B, v. 31, no. 6, p. 3473B.
- 1972a. Physiographic control on hydraulic geometry of small Midwest drainage basins (abs.): G.S.A., Abs. with Programs, v. 4, no. 7, p. 565.
- 1972b. Valley alluviation in southwestern Wisconsin: Assoc. Am. Geographers, Annals, v. 62, no. 3, p. 401-410, illus.
- 1975. The magnitude and frequency of floods in the context of Holocene climate change (abs.) in Studying the past, predicting the future: Uppsala, Sweden, Uppsala Univ., 2 p.
- Knox, James Clarence; Corcoran, W.T.** 1972. River adjustment to deforestation, 1832-1971, Platte River, Grant Co., Wisconsin (abs.): G.S.A., Abs. with Programs, v. 4, no. 5, p. 331.
- Knox, James Clarence; Johnson, William.** 1974. Late Quaternary valley alluviation in the Driftless Area of southwest Wisconsin in Knox and Mickelson, eds., Late Quaternary environment of Wisconsin: Madison, Am. Quaternary Assoc., Third biennial mtg., p. 134-162, illus.
- Knox, James Clarence; Mickelson, David M.** 1974. Late Quaternary environments of Wisconsin, a field guide: Madison Am. Quaternary Assoc., Third biennial mtg., 243 p., illus., maps.
- Knutilla, R.L.** see Hendrickson, Gerth E.
- Koch, Friedrich Karl Ludwig.** 1851. Ueber Kupfer-und Eisenerze am Lake Superior: Deutschen geologischen Gesellschaft, Zeitschrift, v. 3, p. 355-358.
- Kolata, Dennis R.** see also Willman, H.B.
- 1975. Middle Ordovician echinoderms from northern Illinois and southern Wisconsin: Jour. Paleontology, v. 49, no. 3, suppl., pt. 2 (The Paleontological Society Memoir 7) 74 p., illus., maps.
- Kolata, Dennis R.; Blake, D.B.** 1977. Animal-sediment relationships in the Champlainian (Middle Ordovician) Mifflin Formation of northern Illinois and southern Wisconsin (abs.): G.S.A., Abs. with Programs, v. 9, no. 5, p. 616.
- Kolehmainen, Victoria.** see Craddock, Campbell
- Konrad, John G.** see also Keeney, Dennis R.
- Konrad, John G. (and others).** 1970. Nitrogen and carbon distribution in sediment cores of selected Wisconsin lakes: Water Pollution Control Federation, Jour., v. 42, no. 12, p. 2094-2101, tables; (abs.) Abs. North Am. Geol., p. 958, June 1971.
- Konrad, John G.; Chesters, Gordon; Keeney, Dennis R.** 1970. Determination of organic- and carbonate-carbon in freshwater lake sediments by a microcombustion procedure (with French, German, and Russian abs.): Jour. Thermal Analysis, v. 2, no. 2, p. 199-208, illus., tables.
- Kososki, David F.** see Hughes, John D.
- Kowalke, E.F.** see Kowalke, Otto Louis
- Kowalke, Otto Louis.** 1937. An unusual pitting in Niagara limestone: Wis. Acad. Sci., Arts, and Letters, Trans., v. 30, p. 221-223, illus.
- 1947. Highest abandoned beach ridges in northern Door Co., Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 38, 1946, p. 293-298, illus., map.
- 1952. Locations of drumlins in the town of Liberty Grove, Door County, Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 41, p. 15-16, illus.
- Kowalke, Otto Louis; Kowalke, E.F.** 1938. Topography of abandoned beach ridges at Ellison Bay, Door Co., Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 31, p. 547-553, illus.
- Kowalski, Sandra J.** 1965. Packard Instrument Company radiocarbon dates I: Radiocarbon, v. 7, p. 200-204.
- Kozminshi, Zygmunt.** 1938. Amount and distribution of the chlorophyll in some lakes of northeastern Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 31, p. 411-438.
- Kraft, John C.** 1956. A petrographic study of the Oneota-Jordan contact zone in Schwartz, G.M., ed., Guidebook for field trips :G.S.A., 69th Ann. Mtg., Field trip no. 2, Lower Paleozoic of the Upper Mississippi Valley, p. 24-28.
- Kramer, David J.** see Odom, I. Edgar
- Krauskopf, Thomas.** see Frazier, B.E.
- Krey, J.; Sears, C.B.** 1896. Lake Superior and Mississippi Canal; report of examination of survey of a canal connecting Lake Superior and Mississippi River: U.S., 54th Cong., 1st Sess., House Exec. Doc. 330.
- Krieger, Robert Albert; Hatchett, J.L.; Poole, J.L.** 1957. Preliminary survey of the saline water resources of the United States: U.S.G.S., Water-Supply Paper 1374, p. 40-45, illus.
- Krueger, Harold W.; Woodard, H.H.** 1972. Potassium-argon dating of sandstone-rich beds in the St. Peter Sandstone, Wisconsin (abs.): G.S.A., Abs. with Programs, v. 4, no. 7, p. 568-569.
- Krug, W.R.** 1976(77). Simulation of streamflow of the Flambeau River at Park Falls, Wisconsin, to define low-flow characteristics: U.S.G.S., Water-Resources Inv. 76-116, 18 p.
- Krumbein, William C.** 1951. Littoral processes in lakes in Johnson, J.W., ed., Coastal engineering, Proc. 1st Conf., Oct. 1950: Barkeley, Council on Wave Research Eng. Foundation, chap. 16, p. 155-160.
- Krumbein, William C.; Griffith, James S.** 1938. Beach environment in Little Sister Bay, Wisconsin: G.S.A., Bull., v. 49, no. 4, p. 629-652, illus., maps; (abs.) G.S.A., Proc. 1936, p. 84, 1937.
- Kuhm, Herbert W.** 1954a. Giant beavers once roamed the Midwest (Wis.): Earth Sci. Digest, v. 7, no. 6, p. 3, illus.
- 1954b. Glacial potholes in Minnesota and Wisconsin: Earth Sci. Digest, v. 7, no. 7, p. 13-14, illus.
- Kulp, John Laurence (and others).** 1956. Lead and sulfur isotopic abundances in Mississippi Valley galenas: G.S.A., Bull., v. 67, no. 1, p. 123.
- Kulp, John Laurence.** 1952. The carbon 14 method of age determination: Scientific Monthly, v. 75, no. 5, p. 263, illus.
- Kumar, Naresh; Sanders, J.E.** 1976. Characteristics of shoreface storm deposits, modern and ancient examples: Jour. Sed. Petrology, v. 46, no. 1, p. 145-162, illus., maps.
- Kummel, Henry Barnard.** 1895. Some meandering rivers of Wisconsin: Science, v. 1 (n s) p. 714-716.
- Kuntz, C.S.; Perry, A.O.** 1976. History of reports on selected faults in southern and eastern Wisconsin: Geology (Boulder), v. 4, no. 4, p. 241-246, illus., maps.
- Kunz, George Frederick.** 1885. Note on finding of Eagle Diamond in Mineral Resources of the United States for 1883-1884: U.S.G.S., p. 732.
- 1891. On the occurrence of diamonds in Wisconsin: G.S.A., Bull., v. 2, p. 638-639.
- 1894a. Mineralogical notes (diamonds from Wis.): New York Acad. Sci., Trans., v. 13, p. 144-145.
- 1894b. Topaz from Texas: Am. Jour. Sci., v. 47 (3) p. 403-404.
- 1895. Precious stones: U.S.G.S., Ann. Rpt. 16, pt. 4, p. 595-596.
- Kurer, Donald C.** see Parker, Dale Edward.
- Kuroda, P.K.; Sherrill, R.D.; Jackson, K.C.** 1977. Abundances and isotopic compositions of rare gases in granites: Geochemical Journal (Japan), v. 11, no. 2, p. 75-90, illus.
- Kurtz, Vincent E.** see Bell, William Charles
- LaBerge, Gene L.** see also Freeman, K.J.
- see also Klasner, J.S.
- see also Weis, Leonard Walter
- 1960. A leptochlorite(?) from the Florence, Wisconsin area (abs.) in Inst. Lake Superior Geology, 6th Ann., 1960: Madison, Univ. Wis., Dept. Geology; Wis. Geol. and Nat. History Survey, p. 21.
- 1964. Development of magnetite in iron formations of the Lake Superior region: Econ. Geology, v. 59, no. 7, p. 1313-1342, illus.
- 1967. Evidence on the physical environment of iron-formation deposition (abs.) in Inst. Lake Superior Geology, 13th Ann., East Lansing, Mich., 1967: East Lansing, Mich., Michigan State Univ., p. 25.
- 1971. Some geology of the Marathon County volcanic belt (abs.) in Inst. Lake Superior Geology, 17th Ann., 1971, Abs. and Field Guides: Duluth, Minn., Univ. Minn., p. 39-40.
- 1972. Lineaments and mylonite zones in the Precambrian of northern Wisconsin (abs.) in Inst. Lake Superior Geology, 18th Ann., 1972, Agenda and abstracts: Houghton, Mich., Michigan Technological Univ., pt. 1, paper 27, 4 p., illus.; (abs.) G.S.A., Abs. with Programs, v. 4, no. 5, p. 332.
- 1973a. Eau Claire Dells County Park in Guidebook to the Precambrian geology of northeastern and northcentral Wisconsin: Wis. Geol. and Nat. History Survey, 19th Ann. Inst. Lake Superior Geology, pt. 2, p. 61-66, illus.
- 1973b. Contact between Wolf River Batholith and mafic volcanics in Guidebook to the Precambrian geology of northeastern and northcentral Wisconsin: Wis. Geol. and Nat. History Survey, 19th Ann., Inst. Lake Superior Geology, pt. 2, p. 67-70, map.
- 1976. Major structural lineaments in the Precambrian of central Wisconsin: Utah Geol. Assoc., Pub. No. 5 (Proc. 1st international conference on new basement tectonics) p. 508-518, illus., map.

- LaBerge, Gene L.; Myers, Paul E.** 1973. Precambrian geology of Marathon County in Guidebook to the Precambrian geology of northeastern and northcentral Wisconsin: Wis. Geol. and Nat. History Survey, 19th Ann. Inst. Lake Superior Geology, p. 31-36.
- 1976. The central Wisconsin batholith (abs.) in Inst. Lake Superior Geology, 22d Ann., Tech. Sess. Abs. and Field Guides: Minn. Geol. Survey, p. 36.
- LaBerge, Gene L.; Weis, Leonard Walter; Dutton, Carl E.** 1968. A greenstone belt in central Wisconsin? Tri-State Geol. Field Conf., 32d Ann., Guidebook, Wis. State Univ.-Oshkosh, 42 p., illus., map; (abs.) Abs. North Am. Geol., p. 605, April 1969.
- LaPaz, Lincoln.** see Broughton, William A.
- LaSalle, Robert Cavalier, sieur de.** 1902. Description of Wisconsin rivers, 1682: Wis. State Hist. Soc., Collections, v. 16, p. 105-107.
- Ladd, Harry Stephen.** 1935. Isopach map of the Maquoketa Shale: Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook, p. 342-344, map.
- Lahr, M.M.** see also Medaris, L. Gordon, Jr.
- 1972. Precambrian geology of a greenstone belt in Oconto Co., Wisconsin, and geochemistry of the Waupee metavolcanics (abs.) in Inst. Lake Superior Geology, 18th Ann., 1972, Agenda and abstracts: Houghton, Mich., Michigan Tech. Univ., paper 11.
- Lake Superior Iron Ore Assoc.** 1938. Lake Superior iron ore: Cleveland, Ohio, 364 p., illus., maps (2d ed., 1952)
- Lake, M.C.** 1925. The future of the Lake Superior district: Lake Superior Mining Inst., 24th Ann. Mtg., 15 p., tables.
- Lamar, J.E.** 1935. Isopach map of St. Peter Formation: Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook, p. 348, text.
- Lamar, W.L.** see Lohr, E.W.
- Lamey, C.A.** see Bayley, R.W.
- Landes, Robert W.** see Howell, Benjamin Franklin
- Landon, Robert E.** 1930. An analysis of beach-pebble abrasion and transportation: Jour. Geol., v. 38, no. 5, p. 437-446, illus.
- Lane, E.W.** 1934. Retrogression of levels in riverbeds below dams: Eng. News-Record, v. 112, no. 26, p. 836-838.
- 1938. Notes on the formation of sand: Am. Geophys. Union, Trans., v. 19, p. 1, p. 505-508, illus.; (abs.) Iowa Univ., Studies in Eng., Bull. 19, p. 57, 1939.
- Langton, John E.** 1977. Soil survey of Trempealeau County, Wisconsin: U.S.D.A., Soil Conservation Service, 12 p., illus., maps.
- Langton, John E.; Lee, Gerhard B.** 1964. Characteristics and genesis of some organic soil horizons as determined by morphological studies and chemical analyses: Wis. Acad. Sci., Arts, and Letters, Trans., v. 53, p. 149-157, illus., table.
- Lapham, Increase Allen.** 1840. Documentary history of the Milwaukee and Rock River Canal: Milwaukee, Milwaukee and Rock River Canal Company, 151 p.
- 1844. Elevations in Wisconsin: Am. Jour. Sci., v. 46, art. 5, p. 258-260.
- 1846. Wisconsin; its geography and topography, history, geology, and mineralogy...: Milwaukee, I.A. Hopkins, 2d ed., 208 p., illus., map; N.Y., Arno Press, 1975.
- 1847. On the existence of certain lacustrine deposits in the vicinity of the Great Lakes, usually confounded with the "drift": Am. Jour. Sci., v. 3 (2) p. 90-94, illus.
- 1850. Wisconsin, her topographical features and general adaptation to agriculture: North-western Journal of Education, Science and General Literature, v. 1, p. 46-49.
- 1851a. Geological formations of Wisconsin: Wis. State Agr. Soc., Trans. 1, v. 2, p. 122-128.
- 1851b. On the geology of the southeastern portion of the State of Wisconsin not heretofore surveyed in Foster, J.W. and Whitney, J.D., Report on the geology of the Lake Superior land district, pt. 2: U.S., 32d Cong., Sp. Sess., Senate Ex. Doc. 4, p. 167-171, illus.
- 1855. A geological map of Wisconsin: New York, scale 1 inch = 28 miles.
- 1859a. Latitude and longitude of places in Wisconsin: Wis. State Hist. Soc. Collections, v. 4, p. 359-363.
- 1859b. The Penokee iron range: Wis. State Agr. Soc., Trans., v. 5, p. 391-400.
- 1860a. Discovery of Devonian rocks near Milwaukee, Wis.: Acad. Sci., St. Louis, Trans., v. 1, p. 684; Am. Jour. Sci., v. 29 (2) p. 145.
- 1860b. The Penokee iron range (Wis.): Wis. State Agr. Soc., Trans., v. 5, p. 391-400, map.
- 1869. A new geological map of Wisconsin prepared mostly from original observations: Milwaukee, 1 inch = 15 miles.
- 1872. The Wisconsin meteorite: Am. Jour. Sci., v. 3 (3) p. 69.
- 1876. Geology in Walling, H.F., Atlas of the State of Wisconsin: Boston, p. 16-19, map.
- 1877a. Erosion of coast along Lake Michigan in Geology of Wisconsin: Wis. Geol. Survey, v. 2, pt. 2, p. 231-232.
- 1877b. Report of progress and results for the year 1873 in Geology of Wisconsin: Wis. Geol. Survey, v. 2, pt. 1, p. 5-44.
- 1877c. Report of progress and results for the year 1874 in Geology of Wisconsin: Wis. Geol. Survey, v. 2, pt. 1, p. 45-66.
- 1887. Report on iron in Wisconsin, 1858: Milwaukee Evening Wisconsin, Feb. 21, 1887, 9 p.
- 1962. First meteoric iron "find" in Wisconsin (1868): Wis. Academy Review, v. 9, no. 4, p. 158-160, illus.
- Larue, D. Knight.** 1978. Problems in paleogeographic reconstruction of the Chocoyay and lower Menominee group sedimentation, Marquette Range supergroup, Lake Superior region (abs.) in Inst. Lake Superior Geology, 24th Ann., 1978, Abs. and Proc.: Univ. Wis., Milwaukee, p. 21.
- Lasca, Norman P.** see also Mulica, Walter S.
- see also Nelson, Katherine G.
- 1970a. The drumlin field of southeastern Wisconsin in Pleistocene geology of southern Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ. 15 (Part E) 13 p., illus.
- 1970b. Pleistocene geology from Milwaukee to Kettle interlobate moraine in Pleistocene geology of southern Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ., no. 15 (Part C) 14 p., illus.
- 1970c. The Pleistocene geology of southeastern Wisconsin: an introduction in Pleistocene geology of southern Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ. 15 (Part B) 7 p., map.
- Lasca, Norman P.; Pirie, R. Gordon.** 1977. Pleistocene geology of southeast Wisconsin in Nelson, Katherine G., ed., Geology of Southeastern Wisconsin: Wis. Geol. and Nat. History Survey, 41st Ann. Tri-State Field Conf. Guidebook, p. 112 - 1110, B1-B34, illus.
- Lathbury, Alison; Bryson, Reid A.** 1958. Studies of the physiographic features of Lake Mendota-I; sublacustrine gullies: Univ. Wis., Dept. Meteorology, Report to Lakes and Streams Investigations Comm., no. 17, 28 p., maps.
- Lathrop, H.O.** 1932. The geography of the Upper Rock River Valley; a study in chorography: Wis. Acad. Sci., Arts, and Letters, Trans., v. 27, p. 1-30, illus.
- Laudon, Thomas S.** see McKee, James W.
- Lavery, N.G.; Barnes, H.L.** 1971. Zinc dispersion in the Wisconsin zinc-lead district: Econ. Geology, v. 66, no. 2, p. 226-242, illus., tables.
- Lawson, C.E.; Foster, W.R.; Mitchell, R.E.** 1965. Geophysical equipment usage in the Wisconsin Highway Commission organization in Geophysical methods and statistical soil surveys in highway engineering: Highway Research Record, no. 18, p. 42-48, illus.
- Lawson, Publius Virgilius.** 1902. Preliminary notice of the forest beds of the lower Fox: Wis. Nat. History Soc. Bull. (n s) v. 2, p. 101-173.
- 1906. Story of the rocks and minerals of Wisconsin: Appleton, Wis., Post Publishing Co., 202 p.
- LeRoux, Edmund F.** 1957. Geology and ground-water resources of Outagamie Co., Wisconsin: U.S.G.S., Water-Supply Paper 1421, 57 p., illus., map.
- 1963. Geology and ground water resources of Rock Co., Wisconsin: U.S.G.S., Water-Supply Paper 1619-X, p. X1-X50, illus., tables, map.
- Lee, G. Fred.** see also Bortleson, Gilbert Carl
- see also Boucher, Francis R.
- see also Delfino, Joseph John
- see also Gardner, Wayne S.
- see also Sridharan, N.
- see also Wentz, Dennis A.
- 1963. Studies of the iron, manganese, sulfate, and silica balances and distributions for Lake Mendota, Madison, Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., 1962, v. 51, p. 141-155, illus., tables.
- Lee, Gerhard B.** see also Beaver, Albert John
- see also Frazier, B.E.
- see also Hole, Francis D.
- see also Langton, John E.
- see also Madison, Frederick W.
- see also Parker, Dale Edward
- see also Peck, Theodore R.
- see also Petersen, G.W.
- Lee, Gerhard B. (and others).** 1968. Classification of Wisconsin soils: Univ. Wis., Coll. Agr. Life Sci., Sp. Bull. 12, 41 p.
- Lee, Gerhard B.; Horn, M.E.** 1972. Pedology of the Two Creeks section, Manitowoc Co., Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 60, p. 183-199, illus.
- Lee, Gerhard B.; Janke, W.E.; Beaver, Albert John.** 1962. Particle-size analysis of Valders drift in eastern Wisconsin: Science, v. 138, no. 3537, p. 154-155, illus.
- Lee, Gerhard B.; Janke, W.E.; Horn, M.E.** 1972. Characteristics and genetic relationships of soils and soil parent materials in the Valderan drift region of eastern Wisconsin: Internat. Assoc. Great Lakes Research, 15th Conf., Proc., p. 371-382, maps, tables.
- Lee, Gerhard B.; Manock, B.** 1974. Macromorphology and micromorphology of a Wisconsin Saprist in Aandahl, Buol, Hill, and Bailey, eds., Histosols, their characteristics, classification and use: Soil Sci. Soc. Am., Sp. Pub. No. 6, p. 47-62.
- Leighton, Morris Morgan.** 1957. The Cary-Mankato-Valders problem (Mich.-Wis.): Jour. Geol., v. 65, no. 1, p. 108-111, illus.
- 1965. The stratigraphic succession of Wisconsin loesses in the upper Mississippi River Valley: Jour. Geol., v. 73, no. 2, p. 323-345, illus., tables.

- Leighton, Morris Morgan; Brophy, John A.** 1966. Farmdale glaciation in northern Illinois and southern Wisconsin: *Jour. Geol.*, v. 74, no. 4, p. 478-499, tables, illus.
- Leighton, Morris Wellman.** 1954. Petrogenesis of a gabbro-granophyre complex in northern Wisconsin: *G.S.A., Bull.*, v. 65, no. 5, p. 401-442, illus., map; (abs) *Am. Mineralogist*, v. 38, p. 348, 1953; *G.S.A., Bull.*, v. 63, no. 12, pt. 2, p. 1274.
- Leith, Andrew.** *see also* Leith, Charles Kenneth
- 1935. The pre-Cambrian of the Lake Superior region, the Baraboo district, and other isolated areas in the upper Mississippi Valley: *Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook*, p. 320-332, illus., maps.
- Leith, Charles Kenneth.** *see also* Allen, Roland Craten
- *see also* Hobbs, William Herbert
 - *see also* Van Hise, Charles Richard
 - 1902. Pre-cambrian summaries for 1901: *Jour. Geol.*, v. 10, no. 8, p. 891-913.
 - 1903. Geologic work in the Lake Superior iron district during 1902: *U.S.G.S., Bull.* 213, p. 247-250.
 - 1904. Iron and manganese—the Lake Superior iron region during 1903: *U.S.G.S., Bull.* 225, p. 215-220.
 - 1905. A summary of Lake Superior geology with special reference to recent studies of the iron-bearing series: *Am. Inst. Mining Eng., Bi-Mo Bull.* 3, p. 453-507, map; *Trans.* 36, p. 101-153, map, 1907; Reprinted in part in Emmons, S.F., *Ore deposits*: p. 633-656, map, 1913.
 - 1912. Use of geology in iron ore exploration: *Econ. Geology*, v. 7, no. 7, p. 662-675.
 - 1914a. Precambrian correlation from a Lake Superior standpoint: Ottawa, Canada, *Congres Geologique International, Compte Rendu de la 12th Session*, 1913, p. 409-421.
 - 1914b. Relations of the plane of unconformity at the base of the Cambrian to terrestrial deposition in Late Pre-Cambrian time: Ottawa, Canada, *Congres Geologique International, Compte Rendu de la 12th Session*, 1913, p. 335-337.
 - 1925. Silicification of erosion surfaces: *Econ. Geology*, v. 20, no. 6, p. 513-523.
 - 1927. Lake Superior pre-Cambrian (abs.): *G.S.A., Bull.*, v. 38, no. 1, p. 110-111.
 - 1929. Chamberlin's work in Wisconsin: *Jour. Geol.*, v. 37, no. 4, p. 289-292, portrait.
 - 1931. Secondary concentration of Lake Superior iron ores: *Econ. Geology*, v. 26, no. 3, p. 274-288.
 - 1932. Structures of the Wisconsin and Tri-State lead and zinc deposits: *Econ. Geology*, v. 27, no. 5, p. 405-418.
 - 1934. The Precambrian: *G.S.A., Proc.*, 1933, p. 151-180.
- Leith, Charles Kenneth; Allen, Roland Craten.** 1915. Discussion of correlation of Pre-cambrian formations of Lake Superior region: *Jour. Geol.*, v. 23, no. 8, p. 703-729, table, map.
- Leith, Charles Kenneth; Lund, R.J.; Leith, Andrew.** 1935. Pre-Cambrian rocks of Lake Superior region, a review of newly discovered geologic features with a revised geologic map: *U.S.G.S., Prof. Paper* 184, 34 p., illus., map.
- Lenher, Victor.** *see* Weidman, Samuel
- Lenz, Arno T.** 1941. The flood of September, 1938, at the Big Eau Pleine Dam in Wisconsin: *Pennsylvania State College, Hydrology Conf. Proc.*, June 30- July 2, 1941; *Univ. Wis., Eng. Experiment Station, Eng. reprint no. 92*, Researches in hydraulic and sanitary engineering.
- 1944. Checking runoff by use of inflow and outflow volumes: *Am. Geophys. Union, Trans.*, v. 25, pt. 6, p. 1011-1013.
 - 1946. Spillway gate operation to prevent erosion below dams: *Modern Power and Eng.*, v. 40, no. 10, p. 66-68, illus.
- Lenz, Arno T.; Sawyer, Clair N.** 1944. Estimation of stream flow from alkalinity determinations: *Am. Geophys. Union, Trans.*, v. 25, pt. 6, p. 1005-1011.
- Leonard, Arthur Gray.** 1906. Geology of Clayton County: *Iowa Geol. Survey*, v. 16, p. 287-289.
- Leverett, Frank.** 1889. Raised beaches of Lake Michigan: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 7, p. 177-192.
- 1895. The preglacial valleys of the Mississippi and its tributaries: *Jour. Geol.*, v. 3, p. 740-763.
 - 1899a. The lower rapids of the Mississippi River: *Jour. Geol.*, v. 7, p. 1-22.
 - 1899b. Profiles across the bed of Lake Michigan: *U.S.G.S., Mon.* 38, p. 12, illus.
 - 1910. Outline of history of the Great Lakes: *Mich. Acad. Sci., 12th Ann. Rpt.*, p. 21, 25-29.
 - 1913. Iowan drift (abs. with discussion by A.P. Coleman): *G.S.A., Bull.*, v. 24, no. 4, p. 698-699.
 - 1917. Glacial lakes and their correlative ice-borders in the Superior basin: *Mich. Acad. Sci., 19th Ann. Rpt.*, p. 101-102.
 - 1921. Outline of Pleistocene history of the Mississippi Valley: *Jour. Geol.*, v. 29, no. 7, p. 615-626.
 - 1929. Moraines and shorelines of the Lake Superior region: *U.S.G.S., Prof. Paper* 154-A, p. 1-72, illus., map.
- Leverett, Frank; Sardeson, Frederick William.** 1932. Quaternary geology of Minnesota and parts of adjacent states: *U.S.G.S., Prof. Paper* 161, 149 p., maps.
- Leverett, Frank; Taylor, Frank Bursley.** 1915. The Pleistocene of Indiana and Michigan and the history of the Great Lakes: *U.S.G.S., Mon.* 53, 529 p.
- Levi, S.; Bannerjee, S.K.** 1976. On the possibility of obtaining relative paleo-magnetic intensities from lake sediments: *Earth Planet. Sci. Letters*, v. 29, p. 219-226.
- Lervorsen, A.I.** 1960. Paleogeologic maps: San Francisco, W.H. Freeman and Co., 174 p.
- Libby, Willard Frank.** *see also* Arnold, J.R.
- *see also* Berger, Rainer
 - 1952. Chicago radiocarbon dates III: *Science*, v. 116 (n s) no. 3025, p. 673-681.
 - 1954. Chicago radiocarbon dates IV: *Science*, v. 119 (n s) no. 3083, p. 135-140.
- Lidiak, Edward G.** *see* Muehlberger, William R.
- Likens, Gene E.** *see also* Johnson, Noye M.
- Likens, Gene E.; Johnson, Noye M.** 1969. Measurement and analysis of the annual heat budget for ten sediments in two Wisconsin lakes: *Limnology and Oceanography*, v. 14, no. 1, p. 115-135, illus., tables; (abs.) *Abs. North Am. Geol.*, p. 1542, Oct.; *Geographical Abs. (A)* v. 3, p. 315, 1970.
- Likens, Gene E.; Ragotzkie, Robert A.** 1965. Vertical water motions in a small ice-covered lake: *Jour. Geophys. Research*, v. 70, no. 10, p. 2333-2344, illus.
- 1966. Rotary circulation of water in an ice-covered lake: *Stuttgart, Verh. Internat. Verein. Limnol.*, v. 16, p. 126-133, illus.
- Lincoln, Francis Church.** 1946a. Exploration of the Defense zinc property, Iowa Co., Wisconsin: *U.S. Bur. Mines, Rpt. Inv.* 3948, 7 p., illus.
- 1946b. Exploration of the New Dale Rundell zinc mine, Mifflin district, Iowa Co., Wisconsin: *U.S. Bur. Mines, Rpt. Inv.* 3912, 8 p., illus., map.
- 1947a. Crow Branch lead-zinc diggings and vicinity, Grant Co., Wisconsin: *U.S. Bur. Mines, Rpt. Inv.* 4027, 5 p., illus., map.
 - 1947b. Last Chance zinc mine, Grant County, Wis.: *U.S. Bur. Mines, Rpt. Inv.* 4028, 5 p., illus., map.
 - 1948. Investigation of Coker and Bickford zinc deposits, Iowa Co., Wisconsin: *U.S. Bur. Mines, Rpt. Inv.* 4226, 20 p., illus., map.
- Lineberg, Richard.** *see* Jipson, A. William
- Lineback, Jerry A.** *see also* Berkson, Jonathan Milton
- Lineback, Jerry A. (and others).** 1971. High-resolution seismic profiles and gravity cores of sediments in southern Lake Michigan: *Ill. State Geol. Survey, Env. Geol. Notes no. 47*, Studies of Lake Michigan bottom sediments no. 8, 41 p., illus.
- Lineback, Jerry A.; Gross, David L.; Meyer, Robert P.** 1972. Geologic cross sections derived from seismic profiles and sediment cores from southern Lake Michigan: *Ill. State Geol. Survey, Env. Geol. Notes no. 54*, Studies of Lake Michigan bottom sediments-no. 9, 43 p., illus.
- 1974. Glacial tills under Lake Michigan: *Ill. Geol. Survey, Env. Geol. Notes*, no. 69, 48 p., illus., maps.
- Linebaugh, Reta E.** *see* Dutton, Carl E.
- Link, Ernest G. (and others).** 1974. Soil survey of Brown Co., Wisconsin: *U.S.D.A., Soil Conservation Service*, 119 p., illus., maps.
- Link, Ernest G.** 1973. Soil survey of Fond du Lac Co., Wisconsin: *U.S.D.A., Soil Conservation Service*, 119 p., illus., maps.
- Link, Ernest G.; Demo, Owen R.** 1970. Soil survey of Kenosha and Racine Counties, Wisconsin: *U.S.D.A., Soil Conservation Ser.*, 113 p., maps.
- Lipse, D.A.** *see* Christensen, B.I.
- Liu, Paul C.; Housley, John G.** 1969. Visual wave observations along the Lake Michigan shore: *Internat. Assoc. Great Lakes Research, 12th Conf., Proc.*, p. 608-621, illus.
- Lloyd, Charles N.; Threinen, C.W.** 1966. Farm ponds in Wisconsin: *Wis. Dept. Nat. Resources, Fish Management Division Rpt.*, no. 9, 7 p.
- Lochman, Christina; Duncan, Donald C.** 1944. Early Upper Cambrian trilobite faunas of central Montana: *G.S.A., Sp. Paper* no. 54, 181 p., illus.
- Lochman-Balk, Christina.** 1956. The Cambrian of the middle central interior states of the United States in Rodgers, J., ed., *El Sistema Cambrico, su paleogeografia y el problema de su base - symposium*: Pt. 2, p. 447-481, illus.
- Lochman-Balk, Christina; Wilson, James Lee.** 1958. Cambrian biostratigraphy in North America: *Jour. Paleontology*, v. 32, no. 2, p. 312-350, illus.
- Locke, John.** 1840. Report on the lead region of the Upper Mississippi in Owen, D.D., *Report of exploration of part of Iowa, Wisconsin, and Illinois...*: U.S., 26th Cong., 1st Sess., House Ex. Doc. 239, p. 116-159; U.S., 28th Cong., 1st Sess., Senate Ex. Doc. 407, p. 147-189, illus., 1844.
- 1842. Rocks from the lead regions of the upper Mississippi, with remarks on the geology of the West: *Am. Jour. Sci.*, v. 43, p. 147-149; (abs.) *Geologist*, p. 32-34, 1843.
- Lockwood, Richard P.** 1970. Petrology of syenites, Wausau, Wisconsin: *Compass*, v. 48, no. 1, p. 32-44, illus., tables.
- Logan, William E.; Hall, James.** 1869. Geological map of Canada and parts of the United States from Hudson Bay to Virginia River to Newfoundland, Montreal: *Canada Geol. Survey, 1866*, scale 1:1,584,000; *Atlas to Geology of Canada*, smaller scale, 1863; reviewed, *Am. Jour. Sci.*, v. 49 (2) p. 394-398, 1870.
- Lohr, E.W.; Brown, Paul N.; Lamar, W.L.** 1953. The industrial utility of public water supplies in the east north central states, 1952: *U.S.G.S., Circ.* 253, p. 125.

- Lohuis, Delmont; Meloche, V.W.; Juday, Chancey.** 1938. Sodium and potassium content of Wisconsin lake waters and their residues: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 31, p. 285-304, illus.
- Long, Stephen H.** 1860. On Driftless Area phenomena in Voyage in a six-oared skiff to the Falls of Saint Anthony in 1817: *Minnesota Historical Soc., Collections*, v. 2, pt. 1, p. 27, 29, 50.
- Lougheed, M.S.; Mancuso, Joseph John.** 1972. Morphology of magnetite in Precambrian iron formations (abs.) in *Inst. Lake Superior Geology*, 18th Ann., 1972, Agenda and abstracts: Houghton, Mich., Michigan Tech. Univ., pt. 1, paper 13.
- Love, S.K.** see Potter, William D.
- Loy, William G.** 1963a. The formation of the Duluth-Superior harbor: *Minn. Acad. Sci. Proc.*, v. 31, no. 1, p. 28-35, illus.
- 1963b. The evolution of bay-head bars in western Lake Superior in *Conf. on Great Lakes Research*, 6th Ann., Ann Arbor, Mich., Proc.: Mich. Univ., Great Lakes Research Div., Pub. 10, p. 150-157, illus.
- Ludington, Syl, Jr.** 1952. Preliminary sedimentary analysis of the Pleistocene sediments on the bottom of Lake Geneva, Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.* 1952, v. 41, p. 229-238, illus.
- Lueck, B.F.** see Wisniewski, Ted F.
- Lueck, Bernard R.** see Blabaum, Carl J.
- Lukowicz, L. Joseph.** 1972. Nearshore sedimentary structures off Terry Andrae-Kohler State Park, Wisconsin (Western Lake Michigan) (abs.): *G.S.A., Abs. with Programs*, v. 4, no. 5, p. 334.
- Lund, R.J.** see Leith, Charles Kenneth
- Lunking, W.** see Dickas, Albert B.
- Lyell, Charles.** 1867. Lake Superior in *Principles of Geology*: 10th ed., v. 1, p. 421-422.
- Lyman, W.S.** see Caine, Thomas A.
- Lyons, Erwin J.** see also Heyl, Allen Van, Jr.
- 1947. A mode of evaluation of a granitic texture—Aurora, Wisconsin area: *G.S.A., Memoir* 52, p. 101, 107-110.
- Maas, R.S.; Medaris, L. Gordon, Jr.; Van Schmus, W.R.** 1976. Penokean structures and plutonic rocks in Portage and Wood Counties, Wisconsin (abs.) in *Inst. Lake Superior Geology*, 22d Ann., Tech. Sess. Abs. and Field Guides: *Minn. Geol. Survey*, p. 38.
- MacClintock, Paul.** 1922. The Pleistocene history of the lower Wisconsin River: *Jour. Geol.*, v. 30, no. 8, p. 673-689, illus.
- MacCormick, A.J.; Stadler, Gerald J.** 1970. Institutional design for water quality management; a case study of the Wisconsin River, v. II, Sec. B, Hydrology: *Univ. Wis., Water Resources Center, Tech. Rpt. OWRR B-030-WIS*, 42 p.
- MacKichan, K.A.** 1951. Estimated use of water in the United States, 1950: *U.S.G.S., Circ.* 115, 13 p., illus.
- 1957. Estimated use of water in the United States, 1955: *U.S.G.S., Circ.* 398, 18 p.
- MacKichan, K.A.; Kammerer, J.C.** 1961 (1962). Estimated use of water in the United States, 1960: *U.S.G.S., Circ.* 456, p. 6-7, 10-11, 15-16, 22-23, 27-28, 33, 35, tables.
- Macco, Albrecht.** 1904. Die Eisenerzlagernstätten am Lake Superior: *Zeitschrift praktische Geologie*, v. 12, p. 48-53, 377-399, map.
- Mack, John W.** 1960. A regional gravity study of crustal structure in Wisconsin (abs.) in *Inst. Lake Superior Geology*, 6th Ann., 1960: Madison, Wis., Univ. Wis., Dept. Geology; *Wis. Geol. and Nat. Hist. Survey*, p. 11.
- Maclure, William.** 1818. Observations on the geology of the United States of North America...: *Am. Philosophical Soc., Trans.*, v. 1 (n s) p. 1-91, map (1809).
- Madison, Frederick W.; Lee, Gerhard B.** 1965. Some mineralogical characteristics of sandy soils in Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 54, p. 223-230, illus., table.
- Maher, Louis J., Jr.** 1970. Two Creeks Forest, Valders glaciation, and pollen grains in Pleistocene geology of southern Wisconsin: *Wis. Geol. and Nat. History Survey, Inf. Circ.* 15 (Part D), 8 p., illus.
- 1975. Palynological investigations in the western arm of Lake Superior: *Albany N.Y., 18th Conf. Great Lakes Research*, p. 40.
- Malan, Roger C.; Sterling, David A.** 1971. Distribution of uranium and thorium in Precambrian rocks of the western Great Lakes region in *Inst. Lake Superior Geology*, 17th Ann., 1971, Abs. and Field Guides: Duluth, Minn., *Univ. Minn.*, p. 42-43.
- Malueg, K.W.** see also Stewart, K.M.
- Mancuso, Joseph John.** see also Lougheed, M.S.
- 1960. Stratigraphy and structure of the McCaslin quartzite region of north-eastern Wisconsin (abs.) in *Inst. Lake Superior Geology*, 6th Ann., 1960: Madison, Univ. Wis., Dept. Geology; *Wis. Geol. & Nat. History Survey*, p. 30.
- 1961. Stratigraphy and structure of the McCaslin district Wisconsin (abs.): *Dissert. Abs.*, v. 21, no. 11, p. 3420-3421.
- 1966. Development of magnetite in iron formations of the Lake Superior region (discussion): *Econ. Geology*, v. 61, p. 408-409.
- Mangham, J.R.** 1975. The petrology and structure of the Mellen Gabbro Complex near Hurley, Wisconsin in *Inst. Lake Superior Geology*, 21st Ann., Tech. Sess. Abs. and Field Guides: Marquette, Northern Mich. Univ., p. 4.
- Manning, W.M.; Juday, R.E.** 1941. The chlorophyll content and productivity of some lakes in north-eastern Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 33, p. 363-394.
- Manock, B.** see Lee, Gerhard B.
- Mansfield, George Rogers.** 1908a. The Baraboo region of Wisconsin: *Jour. Geography*, v. 6, p. 286-292.
- 1908b. Glacial and normal erosion in Montana and Wisconsin: *Jour. Geography*, v. 6, p. 306-312.
- Marcou, Jules.** 1853. Geological map of the United States and British provinces of North America (with explanatory text and geological sections): Boston, 92 p., illus.; (abs.) *Am. Jour. Sci.*, v. 17 (2) p. 199-206.
- 1855. Ueber die geologie der Vereinigten Staaen und der englischen Provinzen von Nord-Amerika: *Petermanns Mitteilungen*, v. 1, no. 5, p. 149-159, map.
- 1858. Geology of North America, with two reports on the prairies of Arkansas and Texas, the Rocky Mts. of New Mexico, and the Sierra Nevada of California: Zurich, 144 p., illus., maps, originally made by the U.S. Government; (reviewed) J.D. Dana, *Am. Jour. Sci.*, v. 26 (2) p. 323-334; v. 27, p. 137-140, 1859; A. Agassiz, v. 27, p. 134-137, 1859.
- Marquette, Jacques.** 1698a. On fluctuation in lake level in Hennepin, L., A new discovery of a vast country in America: London, pt. 1, p. 321.
- 1698b. On the Mississippi River in Hennepin, L., A new discovery of a vast country in America: London, pt. 1, p. 325-327.
- 1900a. On fluctuation in lake level in Jesuit Relations, 1673-77: Cleveland, Burrow Bros., R.G. Thwaites ed., v. 59, p. 99.
- 1900b. On the eastern part of the central plain in Jesuit Relations, 1673-1677: Cleveland, Burrow Bros., R.G. Thwaites ed., v. 59, p. 103.
- 1900c. On the Mississippi River in Jesuit Relations, 1673-1677: Cleveland, Burrow Bros., R.G. Thwaites ed., v. 59, p. 86, 107, 109, map.
- Marsden, Ralph Walter.** see also Tyler, Stanley Allen
- 1955. Precambrian correlations in the Lake Superior region in Michigan, Wisconsin, and Minnesota in Derry, D.R., Symposium on Precambrian correlation and dating: *Geol. Assoc. Canada, Proc.*, v. 7, pt. 2, p. 107-116.
- Marsh, C. Dwight.** 1892. Notes on the depth and temperature of Green Lake: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 8, p. 214-218, illus.
- 1899. Hydrographic map of Green Lake, Green Lake Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Map no. 7*, scale 3.2 inches = 1 mile.
- Marshall, R.B.** 1914. Results of spirit leveling in Wisconsin, 1897 to 1914 inclusive: *U.S.G.S., Bull.* 570, 86 p.
- Marter, Joseph H.; Cheetham, Robert N.** 1971a. Areal measurement and nomenclature of watersheds in the southeastern Wisconsin rivers basin: *U.S.D.A., Soil Conservation Service, Southeastern Wis. Rivers Basin, reference rpt. no. 10*, 78 p.
- 1971b. The watersheds of Dane Co., Wisconsin: *U.S.D.A., Soil Conservation Service, Southeastern Wis. Rivers Basin, reference rpt. no. 5, part 1 - text*, 52 p.
- Martin, Lawrence.** 1910. The University of Wisconsin models: *Geographic Soc. Philadelphia, Bull.*, v. 8, no. 2, p. 67-69, illus.
- 1911a. The basin of Lake Superior in *The Geology of the Lake Superior region*: *U.S.G.S., Mon.* 52, p. 110-117.
- 1911b. Marginal lakes of the Lake Superior region in *The geology of the Lake Superior region*: *U.S.G.S., Mon.* 52, p. 441-453.
- 1911c. The physical geography and Pleistocene of the Lake Superior region (a discussion of the topography and glacial geology of the northern two-thirds of Wisconsin) in *The geology of the Lake Superior region*: *U.S.G.S. Mon.* 52, p. 85-117, 427-459.
- 1911d. The progressive development of resources in the Lake Superior region: *Am. Geog. Soc., Bull.*, v. 43, p. 561-572, 659-669.
- 1914. The physical geography of Wisconsin: *Jour. Geography*, v. 12, p. 226-232.
- 1915. The discovery of the painted stone—an early observation of the Driftless Area: *Jour. Geol.*, v. 14, p. 58-59.
- 1916. The gorge of the upper Mississippi as a rival of the Rhine Gorge: *Geographic Soc. Philadelphia, Bull.*, v. 14, no. 4, p. 127-147, illus.
- 1917. Rock terraces of the Driftless Area of Wisconsin (abs.): *G.S.A., Bull.*, v. 28, p. 148-149.
- 1918. Gravel terraces of the Mississippi River in Wisconsin: (abs.) *Assoc. Am. Geog., Ann.*, v. 7, p. 79.
- 1923. A Pennsylvanian's discovery of the Driftless Area: *Geographic Soc. Philadelphia, Bull.* v. 31, no. 4, p. 32-39, 140-147, illus.
- 1930. The Michigan-Wisconsin boundary case in the Supreme Court of the United States, 1923-1926: *Assoc. Am. Geographers, Annals*, v. 20, p. 105-163.
- 1932. The physical geography of Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 36 (ed. ser. 4) 2d ed., 609 p., illus., maps; *Univ. Wis. Press*, 3d ed., 608p., illus., maps, 1965.
- 1936. Cuesta vs. peneplane driftless area: *Pan-Am. Geologist*, v. 65, no. 4, p. 259-265.
- Martin, Lawrence; Williams, F.E.; Bean, Ernest F.** 1913. Baraboo Range and Devils Lake, a manual of physical geography excursions: Madison, 207 p.
- Mason, Arnold C.** see Fisher, Alfred G.
- Mason, Carol Y.** 1934. A new species of *Dicranopeltis*: *Am. Midland Naturalist*, v. 15, no. 5, p. 609-611, illus.

- Mason, Jack.** 1968. Temperature and water quality studies on the Eau Claire River, Eau Claire County: Wis. Dept. Nat. Resources, Water Resources Research Section, Bur. Research, 12 p.
- 1970. The creek will be back: Wis. Cons. Bull., v. 35, p. 14-15.
- Masse, Barbara.** 1961. Catalog of Wisconsin caves: Wis. Speleologist, v. 2, no. 1, p. 6-8.
- Massey, H.F.; Jackson, M.L.** 1952. Selective erosion of soil fertility constituents: Soil Sci. Proc., v. 16, no. 4 p. 353-356, tables.
- Mather, J.R.** see Thornthwaite, C.W.
- Mathey, C.C.** 1908. Platte River geology (Wis.): Mining World, v. 28, p. 875.
- Mathieson, John T.** 1940. The Pleistocene of part of northwestern Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 32, p. 251-272, illus.
- Matteson, C.** 1893. An illustrated history of Wisconsin from prehistoric to present periods, the story of the state interspersed with realistic events: Milwaukee, 587 p., illus., map.
- Matthai, H.F.** 1956. Index of surface-water records to September 30, 1955, pt. 5: U.S.G.S., Circ. 385, p. 11-15, 19.
- Mattis, Allen F.** see Dott, Robert H., Jr.
- 1971. Lower Keweenaw sediments of the Lake Superior region in Inst. Lake Superior Geology, 17th Ann., 1971, Abs. and Field Guides: Duluth, Minn., Univ. Minn., p. 44-46.
- 1972. Correlation of Lower Keweenaw sandstones of the Lake Superior region (abs.): G.S.A., Abs. with Programs, v. 4, no. 5, p. 336.
- 1977. Cambrian conglomerate exposure in northwestern Wisconsin; a new interpretation: Wisconsin Acad. Sci., Arts, and Letters, Trans., v. 65, p. 58-66.
- May, Edward R.** 1974. The Flambeau copper mine in 38th Ann. Tri-State Geological Field Conference, Guidebook: Univ. Wis., Eau Claire, p. 15-23.
- 1977. Flambeau—a Precambrian supergene enriched massive sulfide deposit in Geoscience Wisconsin: Wis. Geol. and Nat. History Survey, v. 1, p. 1-26, illus., map; (abs.) Econ. Geology, v. 71, no. 3, p. 701, 1976.
- McCall, A.G.** see Hays, Orville E.
- McCartney, M.C.** 1977. Statistical reliability of surficial materials maps in a portion of Dane County, Wisconsin (abs.): G.S.A., Abs. with Programs, v. 9, no. 5, p. 627.
- McCaslin, W.E.** see Philbin, P.W.
- McChesney, J.H.** 1859. Description of new species of fossils from the Paleozoic rocks of the Western States: Chicago Acad. Sci. Ext., Trans., v. 1, 76 p., illus.; (notice) Am. Jour. Sci., v. 40 (2) p. 116-119, 1865.
- 1867. Descriptions of fossils from the Paleozoic rocks of the Western States, with illustrations: Chicago Acad. Sci., Trans., v. 1, p. 1-56, illus.
- McColley, P.D.** 1971. Interim soil survey report for Columbia Co., Wisconsin: U.S.D.A., Soil Conservation Service, 187 p.
- McConnell, W.R.** 1914. Geography of the Winnebago and lower Fox River: Jour. Geography, v. 12, no. 8, p. 262-267, illus.
- McDonald, Andrew R.** see Gettle, Lewis E.
- McGee, William John.** 1884. The drainage system and the distribution of the loess in eastern Iowa: Philos. Soc. Washington, Bull., v. 6, p. 93-97.
- 1885. Map of the United States exhibiting the present status of knowledge relating to the areal distribution of geologic groups (preliminary compilation): U.S.G.S., 5th Ann. Rpt., 1883-1884, 17 1/4 by 28 inches, explanation p. 34-38.
- 1891. The Pleistocene history of northeastern Iowa: U.S.G.S., 11th Ann. Rpt., pt. 1, p. 202-206, 277, 288-289, 295-303, 353-354, 357, 550, 571-572, map.
- McGinnis, Lyle D.** 1968a. Glacial crustal bending: G.S.A., Bull., v. 79, no. 6, p. 769-776, illus.
- 1968b. Glaciation as a possible cause of mineral deposition: Econ. Geology, v. 63, no. 4, p. 390-400, illus.
- McGuinness, Charles Lee.** 1951. The water situation in the United States with special reference to ground water: U.S.G.S., Circ. 114, p. 88, 90, 94, 101-107, 124-125, illus.
- 1963. The role of ground water in the national water situation: U.S.G.S., Water-Supply Paper 1800, p. 49-50, 52, 943-960.
- 1969. Ground-water levels in the United States, 1962-66 - north-central states: U.S.G.S., Water-Supply Paper 1976, 117 p.
- McHenry, J.R.; Ritchie, J.C.** 1977. Estimating field erosion, losses from fallout cesium-137 measurements: Internat. Assoc. Hydrol. Sci., Pub. no. 122, p. 26-33, illus., tables.
- McKee, James W.; Laudon, Thomas S.** 1977. Sediments and history of Lake Butte des Morts, Wisconsin (abs.): G.S.A., Abs. with Programs, v. 9, no. 5, p. 629-630.
- McKelvey, Vincent Ellis.** see also Twenhofel, William Henry
- 1939. An Ordovician Zitteloceras from Wisconsin: Jour. Paleontology, v. 13, no. 1, p. 74-76, illus.
- 1940. Beach sediments of Trout Lake, Wisconsin: Jour. Sed. Petrology, v. 10, no. 2, p. 65-77, illus., map; (abs.) Oil & Gas Jour., v. 38, no. 48, p. 58.
- 1941. The flotation of sand in nature: Am. Jour. Sci., v. 239, no. 8, p. 594-607.
- McKnight, Edwin Thor.** see Behre, Charles Henry, Jr.
- McLaughlin, Robert.** 1967. The heartland; Illinois, Indiana, Michigan, Ohio, Wisconsin: New York, Time Inc., Time-Life Books, 192 p., illus.
- McLeod, R.S.** 1975a. A digital-computer model for estimating drawdowns in the sandstone aquifer in Dane County, Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ. 28, 91 p., illus., tables, maps.
- 1975b. A digital-computer model for estimating hydrologic changes in the aquifer system in Dane County, Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ. 30, 40 p., illus., tables, maps.
- McMiller, P.R.** see Nygard, Iver J.
- McNall, Dorothy R.** see Nichols, M. Starr
- Mead, Daniel Webster.** 1893. Notes on the hydrogeology of Illinois in relation to its water supplies: Ill. Soc. Eng. and Surveyors, 8th Ann. Rpt., p. 48-68, map.
- 1894a. The geology of Wisconsin water supplies: Rockford, Ill., 19 p., map, (priv. pub)
- 1894b. The hydro-geology of the upper Mississippi Valley and of some of adjoining territory: Assoc. Eng. Societies, Jour., v. 13, no. 7, p. 329-396, maps.
- 1911. The flow of streams and the factors that modify it, with special reference to Wisconsin conditions: Univ. Wis., Bull. 425 (eng. ser. v. 6, no. 5), 192 p., illus.
- 1913. The cause of floods and the factors that influence their intensity: Jour. Western Soc. Engineers, v. 18, no. 4, 51 p.
- Medaris, L. Gordon, Jr.** see also Anderson, James L.
- see also Maas, R.S.
- see also Myles, J.R.
- see also Van Schmus, W.R.
- Medaris, L. Gordon, Jr. (and others).** 1973a. Athelstane pink quartz monzonite and amberg grey quartz monzonite in Guidebook to the Precambrian geology of northeastern and north central Wisconsin: Wis. Geol. and Nat. History Survey, 19th Ann. Inst. Lake Superior Geology, p. 43-45.
- 1973b. The Wolf River quartz monzonite in Guidebook to the Precambrian geology of northeastern and northcentral Wisconsin: Wis. Geol. and Nat. History Survey, 19th Ann. Inst. Lake Superior Geology, pt. 2, p. 55.
- Medaris, L. Gordon, Jr.** 1973. Preliminary geologic map of Iron Mountain sheet, Wisconsin, Michigan in Guidebook to the Precambrian geology of northeastern and north central Wisconsin: Wis. Geol. and Nat. History Survey, 19th Ann. Inst. Lake Superior Geology, scale 1:250,000.
- Medaris, L. Gordon, Jr.; Anderson, James L.** 1973. Preliminary geologic map of Green Bay sheet, Wisconsin in Guidebook to the Precambrian geology of northeastern and northcentral Wisconsin: Wis. Geol. and Nat. History Survey, 19th Ann. Inst. Lake Superior Geology, scale 1:250,000.
- Medaris, L. Gordon, Jr.; Anderson, James L.; Myles, J.R.** 1973. The Wolf River batholith—a late Precambrian rapakivi massif in northeastern Wisconsin in Guidebook to the Precambrian geology of northeastern and north central Wisconsin: Wis. Geol. and Nat. History Survey, 19th Ann. Inst. Lake Superior Geology, p. 9-29, illus.
- Medaris, L. Gordon, Jr.; Myles, J.R.; Anderson, James L.** 1973. Belongia granite and Peshigo trachyandesite in Guidebook to the Precambrian geology of northeastern and northcentral Wisconsin: Wis. Geol. and Nat. History Survey, 19th Ann. Inst. Lake Superior Geology, pt. 2, p. 47-49.
- Medaris, L. Gordon, Jr.; Van Schmus, W.R.; Anderson, James L.** 1973. The Red River porphyritic quartz monzonite in Guidebook to the Precambrian geology of northeastern and north central Wisconsin: Wis. Geol. and Nat. History Survey, 19th Ann. Inst. Lake Superior Geology, pt. 2, p. 57.
- Medaris, L. Gordon, Jr.; Van Schmus, W.R.; Lahr, M.M.** 1973. The Hager rhyolite and feldspar porphyry and geology of the Mountain area in Guidebook to the Precambrian geology of northeastern and north central Wisconsin: Wis. Geol. and Nat. History Survey, 19th Ann. Inst. Lake Superior Geology, p. 51-54.
- Meddaugh, W.S.; Salotti, C.A.; Mursky, G.** 1978. The distribution of uranium and thorium in the Wolf River batholith, northeastern Wisconsin (abs.) in Inst. Lake Superior Geology, 24th Ann., 1978, Abs. and Proc.: Univ. Wis., Milwaukee, p. 24.
- Meinzer, Oscar Edward; Wenzel, Leland Keith.** 1936-40. Water levels and artesian pressure in observation wells in the United States, 1935-39: U.S.G.S., Water-Supply Papers 777, 817, 840, 845, 886.
- 1942-46. Water levels and artesian pressure in observation wells in the United States 1940-43: U.S.G.S., Water-Supply Papers 886, 908, 938, 946, 988.
- Meitzner, E.H.** see Brown, B.E.
- see Mengel, Joseph T., Jr.
- Meland, Nils.** see Hoffman, James I.
- Meloche, V.W.** see also Juday, Chancey
- see also Lohuis, Delmont
- Meloche, V.W.; Pingrey, Katherine.** 1938. The estimation of magnesium in lake water residues: Wis. Acad. Sci., Arts, and Letters, Trans., v. 31, p. 277-283.
- Meloche, V.W.; Setterquist, T.** 1933. The determination of calcium in lake water and lake water residues: Wis. Acad. Sci., Arts, and Letters, Trans., v. 28, p. 291-296.
- Mengel, Joseph T., Jr.** see also Johnson, Rudolf W.

- 1970. Geology of the western Lake Superior region; a guide for visitors: Wis. State Univ., Superior, Geology Dept., 86 p., illus.
- 1971. Geology of the Twin Ports Area Superior-Duluth in Tri-State Geol. Field Conf., 35th Ann., Guidebook: Wis. State Univ.-Superior, Dept. Geology, 82 p., illus., maps.
- 1972. Subsurface geology of the Duluth-Superior area, Minnesota-Wisconsin (abs.) in Inst. Lake Superior Geol., 18th Ann., 1972, Agenda and abstracts: Houghton, Mich., Mich. Tech. Univ., pt. 1, paper 14, 4 p.
- Mengel, Joseph T., Jr.; Hendrickson, Ronald A.** 1971. Exploration geology of Douglas Co., Wisconsin (abs.) in Inst. Lake Superior Geology, 17th Ann., 1971, Abs. and Field Guides: Duluth, Minn., Univ. Minn., p. 47-49.
- Mengel, Joseph T., Jr.; Meltzner, E.H.** 1975. Slope stability and land use planning on the red clays of the Lake Superior basin, Douglas County, Wisconsin in Inst. Lake Superior Geology, 21st Ann., Tech. Sess. Abs. and Field Guides: Marquette, Northern Mich. Univ., p. 13.
- Merrill, George Perkins.** 1891. Stones for building and decoration: New York, Wiley and Sons, p. 149-150, 213, 220, 286-287.
- 1906. Driftless area of Wisconsin in Contributions to the history of American geology: U.S. Natl. Museum, Ann. Rpt., 1904, pub. no. 135, p. 473.
- 1925. Notes on the meteoric stone of Colby, Wisconsin: U.S. Natl. Museum, Proc., v. 67, art. 2, 3 p., illus.
- Merrill, James Andrew.** 1936. The wonderland of Lake Superior: Minneapolis, Minn., Burgess Pub. Co., 67 p., illus.
- Meyer, Gerald; Wyrick, G.G.** 1966. Regional trends in water-well drilling in the United States: U.S.G.S., Circ. 533, 8p., illus.
- Meyer, Robert P.** see also Anzoleaga, Rodolfo
- see also Cohen, Theodore Jerome.
- see also Lineback, Jerry A.
- see also Moore, J. Robert
- see also Nebrija, Edgardo L.
- see also Steinhart, John S.
- 1969. High resolution seismic profiling in Green Bay (abs.) in Inst. Lake Superior Geology, 15th Ann., 1969, Tech. Sess. Abs.: Wis. State Univ.-Oshkosh, Dept. Geology, p. 22.
- Meyer, Robert P.; Steinhart, John S.; Woollard, George P.** 1960. Structure of the earth's crust in Wisconsin from explosion seismic observations (abs.) in Inst. Lake Superior Geology, 6th Ann., 1960: Madison, Univ. Wis., Dept. Geology; Wis. Geol. and Nat. History Survey, p. 10.
- Meyers, D.; Chang, L.L.Y.** 1977. Mineralogy of the red clay and its relation to slope stability in Douglas Co., Wisconsin (abs.): G.S.A., Abs. with Programs, v. 9, no. 5, p. 632-633.
- Mickelson, Peter C.; Dott, Robert H., Jr.** 1973. Orientation analysis of trough cross stratification in upper Cambrian sandstones of western Wisconsin: Jour. Sed. Petrology, v. 43, no. 3, p. 784-794, illus.
- Michigan Basin Geological Society.** 1960. Lower Paleozoic and Pleistocene stratigraphy across central Wisconsin, annual field excursion, May 1960 (guidebook): Ann Arbor, Mich., 34 p., map.
- Mickelson, David M.** see also Evenson, Edward Bernard
- see also Knox, James Clarence
- see also Nelson, Alan R.
- see also Stewart, Mark T.
- see also Whittecar, G. Richard
- 1973a. Glacial stratigraphy of the Two Rivers lowland, Wisconsin: Midwest Friends of the Pleistocene, 22d Ann. Field Conf., 6 p.
- 1973b. Summary of glacial geology of north-central Wisconsin in Inst. Lake Superior Geology, 19th Ann., 1973, Tech. program and abstracts: Wis. Geol. and Nat. History Survey; Univ. Wis., Dept. Geology, p. 24.
- Mickelson, David M.; Evenson, Edward Bernard.** 1974. Large scale involutions (convolutions?-pots?) in red till in the Manitowoc-Two Rivers-Two Creeks area of Wisconsin-periglacial features or load structures in Knox and Mickelson, eds., Late Quaternary environments of Wisconsin: Madison, Am. Quaternary Assoc., Third biennial mtg., p. 182-186, illus.
- 1975. Pre-Twocreekan age of the type Valders till, Wisconsin: Geology, v. 3, p. 587-590, illus., map.
- Mickelson, David M.; Nelson, Alan R.; Stewart, Mark T.** 1974. Glacial events in north-central Wisconsin in Knox and Mickelson, eds., Late Quaternary environments of Wisconsin: Madison, Am. Quaternary Assoc., Third biennial mtg., p. 163-181, illus.
- Mikulic, Donald G.** see also Nelson, Katherine G.
- 1977. A preliminary revision of the Silurian stratigraphy of southeastern Wisconsin in Nelson, Katherine G., ed., Geology of southeastern Wisconsin: Wis. Geol. and Nat. History Survey, 41st Ann. Tri-State Field Conf. Guidebook, p. A6-A8.
- Mikulic, Donald G.; Mikulic, Joanne L.** 1977. History of geologic work in the Silurian and Devonian of southeastern Wisconsin in Nelson, Katherine G., ed., Geology of southeastern Wisconsin: Wis. Geol. and Nat. History Survey, 41st Ann. Tri-State Field Conf. Guidebook, p. A1-A5.
- Mikulic, Joanne L.** see Mikulic, Donald G.
- Milfred, Clarence James.** 1967. Pedography of three soil profiles of Wisconsin representing the Fayette, Tama and Underhill series (abs.): Dissert. Abs., Sec. B, v. 28, no. 2, p. 432B.
- Milfred, Clarence James; Hole, Francis D.** 1970. Soils of Jefferson Co., Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 86, (soil ser. 61) 172 p., illus., map.
- Milfred, Clarence James; Hole, Francis D.; Torrie, J.H.** 1967. Sampling for pedographic model analysis of an argillic horizon: Soil Sci. Soc. Am., Proc., v. 31, no. 2, p. 244-247, illus.
- Milfred, Clarence James; Olson, Gerald W.; Hole, Francis D.** 1967. Soil resources and forest ecology of Menominee Co., Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 85 (soil ser. 60) 203 p., illus., tables, maps.
- Miller, Carl R.** see Woolhiser, David A.
- Miller, David William; Geraghty, James J.; Collins, Robert S.** 1962. Water atlas of the United States, basic facts about the nation's water resources: New York, Port Washington, Water Information Center, Inc., 2d ed., maps, text.
- Miller, E.R.** see Winchell, Alexander Newton
- Miller, James Frederick.** 1970. The Cambro-Ordovician boundary of the United States, a diachronous horizon (abs.): G.S.A., Abs. with Programs, v. 2, no. 6, p. 397.
- 1971. Conodont evolution and biostratigraphy of the upper Cambrian and lowest Ordovician: Dissert. Abs. Internat., Sec. B, v. 31, no. 12, p. 7371B-7372B.
- Miller, Norton G.; Benninghoff, William S.** 1969. Plant fossils from a Cary-Port Huron interstade deposit and their paleoecological interpretation in United States contributions to Quaternary research - Internat. Assoc. Quaternary Research, 8th Cong., Paris, 1969: G.S.A., Sp. Paper 123, p. 225-248, illus.; (abs.) Abs. North Am. Geol., p. 233, Feb. 1970.
- Miller, Samuel Almond.** 1881. Observations on the unification of geological nomenclature, with special reference to the Silurian formation of North America: Cincinnati Soc. Nat. History, Jour., v. 4, no. 4, p. 267-293.
- Miller, Theodore K.; Onesti, Lawrence J.** 1975a. A multivariate analysis of the relationship between stream order and selected hydromorphic stream properties: Internat. Assoc. Hydrol. Sci., Pub. no. 117, p. 137-146, tables.
- 1975b. The relationship between stream order and channel cross-section characteristics (abs.): G.S.A., Abs. with Programs, v. 7, no. 1, p. 96.
- 1977. Multivariate empirical test of the Leopold and Miller stream order-hydraulic geometry hypothesis: G.S.A., Bull., v. 88, no. 1, p. 85-88, illus., tables.
- Milnes, A.G.** see Distelhorst, Carl A.R.
- Milton, Charles** see Heyl, Allen Van, Jr.
- Minshall, Neal E.** 1941. Preliminary results of runoff studies at Fennimore, Wisconsin, show low rates and amounts of runoff: Am. Geophys. Union, Trans., v. 21, pt. 3, p. 871-874.
- 1948. Effect of conservation practices on runoff: Ag. Eng., v. 29, p. 201-202.
- 1949. Rates of runoff for the design of conservation structures in the upper Mississippi Valley upland loessial area: U.S.D.A., Soil Conservation Service, SCS-TP-73, 30 p.
- Mitchell, R.E.** see Lawson, C.E.
- Moerlein, George A.** 1963. Structure and stratigraphy of the Upper Keweenaw rocks in north-western Wisconsin (abs.) in Inst. Lake Superior Geology, 9th Ann., 1963: Duluth, Minn., Univ. Minn., Dept. Geology, p. 8.
- Monroe, Charles E.** 1900. A notice of a new area of Devonian rocks in Wisconsin: Jour. Geol., v. 8, p. 313-314.
- Monroe, Charles E.; Teller, Edgar E.** 1899. The fauna of the Devonian formation at Milwaukee, Wisconsin: Jour. Geol., v. 7, p. 272-283.
- Montague, James O.** 1954. Cambrian trilobite (pt. 1), Silurian trilobites (pt. 3): Earth Sci. Digest, v. 7, no. 4(5), p. 17-19, 25, illus., no. 9, p. 11-12, illus.
- Montessus de Ballore, Fernand de.** 1912. Tremblements de terre d'origine epigénique probable dans le Michigan et le Wisconsin: Acad. Sci. Paris, Compte Rendu 155, p. 1042-1043.
- Montgomery, W.W. (comp.).** 1977. Geologic map of upper Precambrian rocks of northern Wisconsin, east-central Minnesota, and western upper Michigan: Univ. Wis., Madison, scale 1:250,000.
- Monthey, L.G.** 1969. Lake size and type associated with resort locations and density in northeastern Wisconsin, pt. 1, Oneida - Vilas area: Wis. Acad. Sci., Arts, and Letters, Trans., v. 57, p. 75-98.
- Moodey, Margaret W.** see Bassler, Roy Smith
- Mooney, Harold M.** see also Craddock, Campbell
- Mooney, Harold M. (and others).** 1970a. Refraction seismic investigations of the northern midcontinent gravity high: Jour. Geophys. Res., v. 75, no. 26, p. 5056-5086, illus.; (abs.) in Inst. Lake Superior Geology, 16th Ann., 1970, Tech. Sess. Abs. and Field Guides: Thunder Bay, Ontario, Lakehead Univ., p. 28-29.
- 1970b. Seismic studies over the midcontinent gravity high in Minnesota and northwestern Wisconsin: Univ. Minn., Geol. Survey, Rpt. Inv. no. 11, 191 p., maps; (abs.) Abs. North Am. Geol., p. 975, June 1971.
- Moore, Elwood S.** 1938. Deep oxidation in the Canadian Shield: Canadian Inst. Mining Metallurgy, Trans., 1938, Bull. 313, v. 41, p. 172-182.
- Moore, Herbert.** 1969. Proposal for an artificial lake near the boundary of Wisconsin and Illinois: Internat. Assoc. Great Lakes Research, 12th Conf., Proc., p. 871-876, illus.

- Moore, J. Robert.** 1970. Manganese-rich pellets in Green Bay, an exploitable mineral resource of the Great Lakes in Offshore Technology Conference: Dallas, Texas, Offshore Tech. Conf., 2d Ann., v. 1, p. 11-19, illus.
- Moore, J. Robert; Meyer, Robert P.** 1969. Progress report on the geological-geophysical survey of Green Bay, 1968: Univ. Wis. Geophysical and Polar Research Center, Contribution no. 236, Sea Grant Program Tech. Rpt. no. 1, 16 p., illus., maps.
- Moore, J. Robert; Meyer, Robert P.; Morgan, C.L.** 1973. Investigation of the sediments and potential manganese nodule resources of Green Bay, Wisconsin: Univ. Wis., Sea Grant Program, Tech. Report WIS-SG-73-218, 144 p., illus.
- Moore, Raymond C.** 1935. The Mississippian system in the upper Mississippi Valley region: Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook, p. 239-245.
- 1955. Invertebrates and geological time scale in Poldervaart, A., ed., *Crust of the earth - a symposium*: G.S.A., Sp. Paper 62, pt. 4, p. 547-574, illus.
- Moore, Sherman.** 1948. Crustal movement in the Great Lakes area: G.S.A., Bull., v. 59, no. 7, p. 697-709, illus., map.
- Morehouse, David F.** 1969. Precise stratigraphic control of solutional activity in the Galena Formation, upper Mississippi Valley (abs.): Nat. Speleol. Soc., Bull., v. 31, no. 2, p. 40.
- Morey, Elsie Darrah.** see Morey, Philip R.
- Morey, G.B.** 1974. Cyclic sedimentation of the Solar Church Formation (Upper Precambrian, Keweenawan) southeastern Minnesota: Jour. Sed. Petrology, v. 44, no. 3, p. 872-884; (abs.) Geo Abstracts, E, Sedimentology, v. 1, p. 55-56, 1975.
- Morey, G.B.; Goldich, Samuel S.** 1977. Correlation of Precambrian rocks in the Lake Superior district, U.S.A. (abs.): G.S.A., Abs. with Programs, v. 9, p. 1103.
- Morey, Philip R.; Morey, Elsie Darrah.** 1969. Observations on epon embedded Griffin Hill Peat (Massachusetts), Two Creeks "Picea" (Wisconsin), "Cedrus panhallowii" (Sierra Nevada, Calif.), and "Callixylon" (Delaware, Ohio): Palaeontographica, Ser. B., v. 125, nos. 1-3, p. 73-80, illus.
- Morgan, Alan.** see Morgan, Anne
- Morgan, Anne; Morgan, Alan.** 1973. A preliminary note on the fossil insects in the Two Creeks Forest Bed in The "Valderan" problem, Lake Michigan Basin: Ann Arbor, Univ. Mich., Dept. Geol. and Mineral., Midwest Friends Pleistocene, 22d Ann. Field Conf., p. 35-37.
- Morgan, C.L.** see Moore, J. Robert.
- Morrill, Park.** 1897. Floods of the Mississippi River: U.S. Weather Bur., Bull. E., 79 p.
- Morris, William W.** see Bordner, John S.
- Mowbray, T.B.** see Iskandar, I.K.
- Mrose, Mary E.** see Klemic, Harry
- Muckenhirn, R.J.** see also Hole, Francis D.
- see also Nelson, Lewis B.
- Muckenhirn, R.J. (and others).** 1955. Field descriptions and analytical data of certain loess-derived gray-brown podzolic soils in the upper Mississippi River Valley: Univ. Ill., Ill. Ag. Exp. Station, Bull. 587, North Central Regional Pub. 46, 80 p., tables.
- Muckenhirn, R.J.; Dahlstrand, N.P.** 1947. Soils of Wisconsin: Wis. Geol. and Nat. History Survey, Misc. pub., folder, map.
- Mudrey, Michael G., Jr., ed.** 1978. Upper Mississippi Valley base-metal district (companion volume to Inf. Circ. 16): Wis. Geol. and Nat. History Survey, 39 p., illus.
- Mudrey, Michael G., Jr.; Broughton, William A.; Heyl, Allen Van, Jr.** 1978. Southwestern Wisconsin zinc-lead district (Field trip I) in Inst. Lake Superior Geology, 24th Ann., 1978, Abs. and Proc.: Univ. Wis., Milwaukee, p. 45.
- Mudrey, Michael G., Jr.; Karl, John H.** 1978. Aeromagnetic map of northern Wisconsin (poster session) (abs.) in Inst. Lake Superior Geology, 24th Ann., 1978, Abs. and Proc.: Univ. Wis., Milwaukee, p. 27.
- Mudrey, Michael G., Jr.; Ostrom, Meredith E.; Reinke, Gordon.** 1977. Massive sulfide deposits in Wisconsin: Univ. Wis., UIR/Research Newsletter, v. 11, no. 3, p. 2, 31.
- Muegge, O.J. (chairman).** 1954. Ground water in Wisconsin: Wis. Nat. Resources Com. State Agencies, Water Subcommittee, Ground Water Working Group Rpt., 23 p., illus.
- Muegge, O.J.** 1946. Surface water supplies of Wisconsin: Am. Water Works Assoc., Jour., v. 38, p. 717-723.
- Muehlberger, William R.** see also Bayley, R.W.
- Muehlberger, William R.; Denison, Rodger E.; Lidiak, Edward G.** 1967. Basement rocks in continental United States: Am. Assoc. Pet. Geol., Bull., v. 51, no. 12, p. 2351-2380, maps.
- Muir, John.** 1913. The story of my boyhood and youth: Boston, p. 98, 117-118.
- Mulica, Walter S.** 1974. Seasonal trends in groundwater quality in a bog-controlled recharge system (abs.): G.S.A., Abs. with Programs, v. 6, no. 6, p. 532.
- Mulica, Walter S.; Lasca, Norman P.** 1974. Hydrogeology of a major bog-controlled groundwater recharge system, southeastern Wisconsin (abs.): G.S.A., Abs. with Programs, v. 6, no. 6, p. 532-533.
- Mullens, Thomas E.** 1964. Geology of the Cuba City, New Diggings, and Shullsburg quadrangles, Wisconsin and Illinois: U.S.G.S., Bull. 1123-H, p. 437-531, illus., map.
- Munns, E.N. (and others).** 1933. Watershed and related forest influences: U.S., 73d Cong., 1st Sess., Senate Doc. 12, v. 1, p. 299-461.
- Murphy, R.E.** 1931. The geography of the northwestern Pine Barrens of Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 26, p. 69-120.
- Murphy, W.G.; Heim, George E., Jr.** 1968. Slope-stability problems, Lake Michigan bluff, Milwaukee, Wis. (abs.): G.S.A., Sp. Paper 101, p. 148.
- Murray, C. Richard.** 1968. Estimated use of water in the United States, 1965: U.S.G.S., Circ. 556, 53 p., tables.
- Murray, C. Richard; Reeves, E. Bodette.** 1972. Estimated use of water in the United States in 1970: U.S.G.S., Circ. 676, 37 p., illus., tables.
- Murray, Elaine G.** see Stobbe, Helen Ruth
- Murray, Raymond Carl.** see also Judson, S. Sheldon, Jr.
- 1953. The petrology of the Cary and Valders tills of northeastern Wisconsin: Am. Jour. Sci., v. 251, no. 2, p. 140-155, illus.
- 1956. Recent sediments of three Wisconsin lakes: G.S.A., Bull., v. 67, no. 7, p. 883-910, illus.
- Murrish, John.** 1871. Report on the geological survey of the lead regions, Wisconsin: Commissioner of the survey of the lead district: 65 p.; Wis. St. Agr. Soc., Trans., v. 10, p. 393-477, 1872.
- 1872. On the results of recent investigations in the lead regions of Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 1, p. 193.
- 1873. Report on the geological survey of the mineral regions 1872-1873: Wis. St. Agr. Soc., Trans., 11, p. 469-494.
- Mursky, G.** see also Meddaugh, W.S.
- Mursky, G.; Hall, G.I.** 1973. Quinnesec volcanics in northeastern Wisconsin in Guidebook to the Precambrian geology of northeastern and northcentral Wisconsin: Wis. Geol. and Nat. History Survey, 19th Ann. Inst. Lake Superior Geology, p. 37-42.
- Mursky, G.; Schriver, G.; Venditti, A.R.** 1973. Mineralogical and chemical studies of greenstones in Wisconsin in Inst. Lake Superior Geology, 19th Ann., 1973, Technical program and abstracts: Wis. Geol. and Nat. History Survey; Univ. Wis., Dept. Geology, p. 26-27.
- Musbach, F.L.** see also Weidman, Samuel
- Musbach, F.L. (and others).** 1914. Reconnaissance soil survey of north part of northwestern Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 32 (soil ser. 6) 92 p., map.
- Musolf, Gene Emil.** see also Hole, Francis D.
- 1971. The geography of the lower Wisconsin River Valley with emphasis on soil resources of the fluvial terraces (abs.): Dissert. Abs. Internat., Sec. B, v. 31, no. 10, p. 6058B.
- Musolf, Gene Emil; Hole, Francis D.** 1972. Lower Wisconsin River Valley soil resources and use potentials: Wis. Acad. Sci., Arts, and Letters, Trans., v. 60, p. 201-209.
- Myers, Paul E.** see Cummings, M.L.
- see LaBerge, Gene L.
- Myers, Paul E. (and others).** 1974. Geology, Wisconsin-Iowa-Illinois: Univ. Wis.-Eau Claire, Tri-State Geol. Field Conf., 38th, Guidebook, 125 p., illus., maps.
- Myers, Paul E.** 1973a. Sheared quartz diorite intrusive breccia in Guidebook to the Precambrian geology of northeastern and north central Wisconsin: Wis. Geol. and Nat. History Survey, 19th Ann. Inst. Lake Superior Geology, pt. 2, p. 79-82, illus., map.
- 1973b. Stettin syenite pluton-wall zone in Guidebook to the Precambrian geology of northeastern and north central Wisconsin: Wis. Geol. and Nat. History Survey, 19th Ann. Inst. Lake Superior Geology, pt. 2, p. 75-78, illus., map.
- 1973c. Wausau quartz syenite, Old Technical Institute in Guidebook to the Precambrian geology of northeastern and north central Wisconsin: Wis. Geol. and Nat. History Survey, 19th Ann. Inst. Lake Superior Geology, pt. 2, p. 71-74, illus.
- 1976. The Wausau syenite of central Wisconsin (abs.) in Inst. Lake Superior Geology, 22d Ann., Tech. Sess. Abs. and Field Guides: Minn. Geol. Survey, p. 42.
- Myers, Wallace Darwin, II.** 1971a. The sedimentology and tectonic significance of the Bayfield Group (Upper Keweenawan?), Wisconsin and Minnesota (abs.): Dissert. Abs. Internat., Sec. B, v. 32, no. 6, p. 3440B.
- 1971b. The sedimentology and tectonic significance of the Bayfield group, Wisconsin and Minnesota (abs.) in Inst. Lake Superior Geology, 17th Ann., 1971, Abs. and Field Guides: Duluth, Minn., Univ. Minn., p. 54-55.
- Myles, J.R.** see also Medaris, L. Gordon, Jr.
- Myles, J.R.; Medaris, L. Gordon, Jr.; Van Schmus, W.R.** 1972. Post-Penokean epizonal granites in northeastern Wisconsin (abs.): G.S.A., Abs. with Programs, v. 4, no. 5, p. 340.
- Nanz, Robert Hamilton, Jr.** 1953. Chemical composition of pre-Cambrian slates with notes on the geochemical evolution of lutites: Jour. Geol., v. 61, no. 1, p. 51-64, illus.
- Nash, Jack L.** 1964. Water for Wauwatosa through 1980: Public Works, v. 95, no. 9, p. 114-115.
- National Park Service; Wisconsin Department, Natural Resources.** 1968. A comprehensive plan for the Ice Age National Scientific Reserve, Wisconsin: Sp. Pub., 61 p.
- National Research Council, Committee on Nuclear Science.** 1965. Geochronology of North America: Nat. Acad. Sci., Nat. Research Council (Nuclear Sci. ser.) Rpt. 41 (NAS-NRC, pub. 1276) p. 102-103.

- National Research Council, Division of Earth Sciences.** 1959. Glacial map of the United States east of the Rocky Mountains: G.S.A., 1st ed., scale 1:750,000, 2 sheets.
- National Speleological Society.** 1974. Wisconsin caves in Hedges, J., ed., Field trip guidebook: Decorah, Iowa, Luther College, Natl. Speleological Soc., Iowa Grotto, p. 45-54, illus., maps.
- Nebrija, Edgardo L.; Welkie, Carol J.; Meyer, Robert P.** 1978. Offshore sand and gravel exploration in western Lake Michigan (abs.) in *Inst. Lake Superior Geology*, 24th Ann. 1978, Abs. and Proc.: Univ. Wis., Milwaukee, p. 28.
- Needham, Claude E.** 1931. A study of the New Richmond sandstone from two localities in Wisconsin: *Ill. Acad. Sci., Trans.*, v. 24, no. 2, p. 363-368.
- Nelson, Alan R.** see also Mickelson, David M.
- Nelson, Alan R.; Mickelson, David M.** 1974. Landforms of the Langlade Lobe, north-central Wisconsin in Knox and Mickelson, eds., Late Quaternary environments of Wisconsin: Madison, Am. Quaternary Assoc., Third biennial mtg., p. 187-195, illus.
- 1977. Landform distribution and genesis in the Langlade and Green Bay glacial lobes, north-central Wisconsin: *Wisconsin Acad. Sci., Arts, and Letters, Trans.*, v. 65, p. 41-57.
- Nelson, Alan R.; Mickelson, David M.; Stewart, Mark T.** 1973. Till stratigraphy and glacial history in north central Wisconsin: G.S.A., Abs. with Programs, v. 5, no. 4, p. 340-341.
- Nelson, Clemens Arvid.** see also Bell, William Charles
- see also Berg, Robert Raymond
- 1951. Cambrian trilobites from the St. Croix Valley (Minn.-Wis.): *Jour. Paleontology*, v. 25, no. 6, p. 765-784, illus.
- 1953. Revision of Croixan dikelocephalids—a comment: *Jour. Paleontology*, v. 27, no. 5, p. 734-736.
- 1956. Upper Croixan stratigraphy, upper Mississippi Valley: G.S.A., Bull., v. 67, no. 2, p. 165-183.
- Nelson, E.R.** see Paulhus, J.L.H.
- Nelson, Katherine G.** see also Klug, Curtis R.
- see also Paull, Richard A.
- 1977a. Geology of southeastern Wisconsin, a guidebook: *Wis. Geol. and Nat. History Survey*, 41st Ann. Tri-State Field Conf., editor, various paging, illus., maps.
- 1977b. Introduction to the geology of southeastern Wisconsin in Nelson, Katherine G., ed., *Geology of southeastern Wisconsin: Wis. Geol. and Nat. History Survey*, 41st ann. Tri-State Field Conf. Guidebook, p. 2-7.
- Nelson, Katherine G.; Lasca, Norman P.** 1970. Milwaukee, its geologic setting: *Geotimes*, v. 17, no. 8, p. 12-18, illus.; (abs.) *Abs. North Am. Geol.*, p. 978, June 1971.
- Nelson, Katherine G.; Mikulic, Donald C.** 1977. Silurian and Devonian stratigraphy road log in Nelson, Katherine G., ed., *Geology of southeastern Wisconsin: Wis. Geol. and Nat. History Survey*, 41st ann. Tri-State Field Conf. Guidebook, p. 11-18, A1-A34.
- Nelson, Katherine G.; Roberts, Jeanette.** 1963. The Milwaukee Formation along Lake Michigan's shore: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 52, p. 77-81.
- Nelson, Lewis B.** 1942. The nature of two associated Wisconsin soils as influenced by post-glacial erosion, topography and substratum: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 34, p. 63-72, illus.
- Nelson, Lewis B.; Muckenhirn, R.J.** 1941. Field percolation rates of four Wisconsin soils having different drainage characteristics: *Am. Soc. Agron., Jour.*, v. 33, p. 1028-1036.
- Nelson, Linden M.** see also Fassbender, Ronald L.
- Nelson, Linden M.; Fassbender, Ronald L.** 1972. Surface water resources of Outagamie County: *Wis. Dept. Nat. Resources, Lake and stream classification project*, 52 p., maps.
- Nelson, Thomas O., Company.** 1959. Atlas of the state of Wisconsin: Minn., Fergus Falls, 114 p., maps.
- Neuschel, Sherman K.** 1969. Natural gamma radioactivity map of the Minneapolis-Saint Paul area, Minnesota-Wisconsin: U.S.G.S., Geophys. Inv. Map GP-658, scale 1:250,000, text; (abs.) *Abs. North Am. Geol.*, p. 238, Feb. 1970; *Geophysical Abs.*, no. 277, p. 210, 1970.
- 1970. Aeroradioactivity survey and areal geology of the Minneapolis-St. Paul area, Minnesota - Wisconsin (ARMS-I): Springfield, VA., Clearinghouse Federal Sci. and Tech. Inf. (U.S. Atomic Energy Comm. Civil Effects Test Operations), 24 p., illus.; (abs.) *Geophysical Abs.*, no. 284, p. 1058, Sept. 1970.
- Newberry, John Strong.** 1865. Notes on the surface geology of the basin of the Great Lakes: *Boston Soc. Nat. History, Proc.*, v. 9, p. 42-46.
- 1889. The Paleozoic fishes of North America: U.S.G.S., Mon. 16, 340 p., illus.
- Newell, F.H.** 1903a. Report of progress of stream measurements for the calendar year 1901: U.S.G.S., Water-Supply Paper 75, 246 p.
- 1903b. Report of progress of stream measurements for the calendar year 1902, pt. 2: U.S.G.S., Water-Supply Paper 83, 304 p.
- Newhouse, W.H.** 1933. The temperature of formation of the Mississippi Valley lead-zinc deposits: *Econ. Geology*, v. 28, no. 8, p. 744-750.
- Newport, Thomas G.** 1962. Geology and ground-water resources of Fond du Lac Co., Wisconsin: U.S.G.S., Water-Supply Paper 1604, 52 p., illus., map.
- Newton, H.A.** 1893. Lines of structure in the Winnebago County meteorites and in other meteorites: *Am. Jour. Sci.*, v. 45 (3) p. 152-153.
- Nichols, M. Starr; Hendel, Theresa; McNall, Dorothy R.** 1946. Copper in lake muds from lakes of the Madison area: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 38, p. 333-350.
- Nichols, M. Starr; McNall, Dorothy R.** 1957. Strontium content of Wisconsin municipal waters: *Am. Water Works Assoc., Jour.*, v. 49, no. 11, p. 1493-1498.
- Nicholson, Frank.** 1903. The Wisconsin zinc fields: *Eng. Min. Jour.*, v. 76, p. 847-849.
- Nicholson, Henry Alleyne.** 1875. On the Guelph limestones of North America and their organic remains: *Geol. Mag.*, v. 12 (n s) p. 343-348.
- Nicollet, Joseph Nicolas.** 1843. Report intended to illustrate a map of the hydrographical basin of the upper Mississippi River: U.S., 26th Cong., 2d Sess., Senate Doc. no. 237, p. 72-92, 167-170.
- Nielsen, Gerald A.; Hole, Francis D.** 1963. A study of the natural processes of incorporation of organic matter into soil in the University of Wisconsin Arboretum: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 52, p. 213-227, illus.
- 1964. Earthworms and the development of co-progenous A1 horizons in forest soils of Wisconsin: *Soil Sci. Soc. Am., Proc.*, v. 28, p. 426-430.
- Nier, Alfred O.** see Goldich, Samuel S.
- Nilsen, Tor H.** 1964. Geology of the Pine River (Breakwater) quartzite conglomerates and the Keyes Lake quartzite Florence Co., Wisconsin (abs.) in *Inst. Lake Superior Geology*, 10th Ann., 1964: Ishpeming, Mich., Marquette Range Comm., p. 23-25.
- 1965. Sedimentology of Middle Precambrian Animikean quartzites, Florence Co., Wisconsin: *Jour. Sed. Petrology*, v. 35, no. 4, p. 805-817, illus.
- Noehre, A.W.** 1964 (1965). Floods in Wadsworth quadrangle, Illinois-Wisconsin: U.S.G.S., Hydrol. Inv. Atlas HA-144, scale 1:24,000.
- Noel, W.A.; Hole, Francis D.** 1958. Soil color as an indication of nitrogen content in some Wisconsin soils: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 48, p. 11-16.
- Noland, L.E.** see Chase, W.J.
- North, Frederick J.** 1913. On the genus "Syringothyris" Winchell: *Geol. Mag.*, v. 10 (5) p. 393-401, illus.
- North, H.B.** 1913. Pseudomorphs of limonite after marcasite: *Am. Jour. Sci.*, v. 35, no. 4, p. 270-272, illus.
- Norwood, Joseph Granville.** 1848. Report in Owen, David D., Report of a geological reconnaissance of the Chippewa land district of Wisconsin and the northern part of Iowa: U.S., 30th Cong., 1st Sess., Senate Ex. Doc. 57, p. 73-129, (On the Apostle Islands & south coast of Lake Superior) p. 75-77.
- 1852. Geological report of a survey of portions of Wisconsin and Minnesota in Owen, D.D., Report of a geological survey of Wisconsin, Iowa, and Minnesota: Philadelphia, p. 209-418, map.
- Novak, Irwin D.; Smosna, Richard; Dott, Robert H., Jr.** 1974. Cambrian tropical storm waves in Wisconsin (discussions and reply): *Geology (Boulder)*, v. 2, no. 12, p. 572, 613.
- Novitzki, Richard P.** 1973. Improvement of trout streams by augmenting low flows with ground water: U.S.G.S., Water-Supply Paper 2017, 52 p., illus.
- 1978. Hydrology of the Nevin wetland near Madison, Wisconsin: U.S.G.S., Water Resources Inv. 78-48, 25 p., illus.
- Nriagu, Jerome O.** 1968a. The distribution of iron in lake sediments: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 56 (1967-68) p. 153-164, illus.
- 1968b. Sulfur metabolism and sedimentary environment-Lake Mendota, Wisconsin: *Limnology and Oceanography*, v. 13, no. 3, p. 430-439, illus., tables; (abs.) *Abs. North Am. Geol.*, p. 414, March.
- Nriagu, Jerome O.; Bowser, Carl J.** 1969. The magnetic spherules in sediments of Lake Mendota, Wisconsin: *Water Research*, v. 3, no. 11, p. 833-842, illus., tables; (abs.) *Abs. North Am. Geol.*, p. 925, June 1970.
- Nussmann, David George.** 1964. Trace elements in the sediments of Lake Superior (abs.) in *Great Lakes Research*, 7th Conf., Toronto, Canada Proc.: Mich. Univ., Inst. Sci. and Technology, Great Lakes Research Div., Pub. 11, p. 170.
- 1966. Trace elements in the sediments of Lake Superior (abs.): *Dissert. Abs., Sec. B.*, v. 27, no. 2, p. 520B.
- Nuttall, Thomas.** 1821. Observations of the geological structure of the Valley of the Mississippi: *Philadelphia, Acad. Nat. Sci., Jour.*, v. 2, pt. 1, p. 14-52.
- Nygaard, Iver J.; McMiller, P.R.; Hole, Francis D.** 1952. Characteristics of some podzolic, brown forest and chernozem soils of the northern portion of the lake states: *Soil Sci. Soc. Am., Proc.*, v. 16, no. 2, p. 123-129, illus.
- O'Donnell, D. John; Churchill, Warren S.** 1954. Certain physical, chemical, and biological aspects of the Brule River, Douglas Co., Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 43, p. 201-255, illus.
- O'Hara, Norbert W.** 1971. A regional geophysical investigation of the Green Bay area: *Internat. Assoc. Great Lakes Research*, 14th Conf. Proc., p. 355-367, illus.
- O'Hara, Norbert W.; Hinze, William James.** 1971. Lake Michigan aeromagnetic survey in *Inst. Lake Superior Geology*, 17th Ann., 1971, Abs. and Field Guides: Duluth, Minn., Univ. Minn., p. 56.
- 1972. Basement geology of the Lake Michigan area from aeromagnetic studies: G.S.A., Bull., v. 83, no. 6, p. 1771-1786, illus.

- O'Hara, Norbert W.; Wold, Richard J.; Hinze, William James.** 1973. Regional gravity and magnetic study of southern Lake Michigan - southern Lake Michigan geophysical study: Internat. Assoc. Great Lakes Research, 16th Conf. Proc., 1973, p. 431-440, illus.
- Oakes, Edward L.; Cotter, Ralph D.** 1975. Water resources of Wisconsin - upper Wisconsin River basin: U.S.G.S., Hydro. Inv. Atlas, HA-536, scale 1:1,000,000, 3 sheets.
- Oakes, Edward L.; Field, Stephen J.; Seeger, Lawrence P.** 1973. The Pine-Popple River basin-hydrology of a wild river area, northeastern Wisconsin: U.S.G.S., Water-Supply Paper 2006, 54 p., illus., map.
- Oakes, Edward L.; Hamilton, Louis J.** 1973. Water resources of Wisconsin-Menominee-Oconto-Peshigo River basins: U.S.G.S., Hydro. Inv. Atlas, HA-470, scale 1:1,000,000, 4 sheets.
- Ockerman, John W.** 1926. Fauna of the Galena limestone near Appleton (Wis.): Wis. Acad. Sci., Arts, and Letters, Trans., v. 22, p. 99-142, illus.
- 1930. A petrographic study of the Madison and Jordan sandstones of southern Wisconsin: Jour. Geol., v. 38, no. 4, p. 346-353.
- Ocola, Leonidas C.** *see* Anzoleaga, Rodolfo
- Odum, I. Edgar.** *see also* Bottino, M.L.
- 1970. Mineralogy of the Franconia and adjacent formations in western Wisconsin and eastern Minnesota; a progress report (abs.): G.S.A., Abs. with Programs, v. 2, no. 6, p. 400.
- 1976. Microstructure, mineralogy and chemistry of Cambrian glauconite pellets and glauconite, central U.S.: Clays and Clay Minerals, v. 24, p. 232-238.
- Odum, I. Edgar; Doe, T.W.; Dott, Robert H., Jr.** 1976. Nature of feldspar-grain size relations in some quartz-rich sandstones: Jour. Sed. Petrology, v. 46, p. 862-870.
- Odum, I. Edgar; Hiatt, John L.; Kramer, David J.** 1970. Potash feldspar in the Franconia Formation, Wisconsin and Minnesota in Forum on geology of industrial minerals, 6th, Proc.: Mich. Geol. Survey, Miscellany, no. 1, p. 37-47, illus., map.
- Odum, I. Edgar; Woodard, H.H.** 1974. Syngenetic sandstone beds from Middle Ordovician St. Peter Sandstone, Wisconsin (discussion and reply): Jour. Geol., v. 82, no. 1, p. 112-119, illus.
- Oehmcke, Arthur A.; Truax, Wayne C.** 1964. The Wolf River in The natural resources of northern Wisconsin—a Wisconsin Academy profile: Wis. Acad. Sci., Arts, and Letters, Trans., v. 53, pt. A, p. 9-20, illus.
- Ohlson, John M.** *see also* Klemic, Harry
- 1973. The iron ore deposits at Black River Falls, Wisconsin, geology and operations in Inst. Lake Superior Geology, 19th Ann., 1973, Tech. program and abstracts: Wis. Geol. and Nat. History Survey; Univ. Wis. Dept. Geology, p. 28.
- Olcott, Perry G.** 1966. Geology and water resources of Winnebago Co., Wisconsin: U.S.G.S., Water-Supply Paper 1814, 61 p., illus., tables, map.
- 1968. Water resources of Wisconsin, Fox-Wolf River Basin: U.S.G.S., Hydrol. Inv. Atlas, HA-321, scale app. 1 in. to 16 miles, 4 sheets, text.
- 1970. Report on sink holes near Knapp, Dunn Co., Wisconsin: Wis. Speleologist, v. 9, no. 2, p. 44-45.
- Olcott, Perry G.; Hole, Francis D.; Hanson, George Fulford.** 1967. Preliminary report on the irrigation potential of Dunn Co., Wisconsin: Wis. Geol. and Nat. History Survey, Sp. Rpt. 1, 17 p., illus., tables.
- Oliver, J.** *see* Rexin, Elmer E.
- Olmstead, Robert; Borman, Ronald G.** 1968. The origin and development of Pop's Cave: Wis. Speleologist, v. 7, no. 2, p. 57-66, illus.
- Olmsted, James Frederick.** 1967a. Mineralogy and petrology of the Mineral Lake intrusion, northwestern Wisconsin (abs.) in Inst. Lake Superior Geology, 13th Ann., 1967: East Lansing, Mich. State Univ., p. 29-30.
- 1967b. Petrology of a differentiated anorthositic intrusion in northwestern Wisconsin (abs.): Dissert. Abs., Sec. B., v. 27, no. 9, p. 3152B.
- 1969a. Petrology of the Mineral Lake intrusion, northwestern Wisconsin in Isachsen, Y.W., ed., Origin of anorthosite and related rocks: New York State Mus. and Sci. Service Mem. 18, p. 149-161, illus., tables; (abs.) Abs. North Am. Geol., p. 1921, Dec. 1970.
- 1969b. Petrology of the Rearing Pond intrusion, Mellen, Wisconsin (abs.) in Inst. Lake Superior Geology, 15th Ann., 1969, Tech. Sess. Abs.: Wis. State Univ.-Oshkosh, Dept. Geology, p. 29.
- Olsen, Edward J.** 1962. Nickeliferous lazulite from Baraboo, Wisconsin: Am. Mineralogist, v. 47, nos. 5-6, p. 773-774, tables.
- Olsen, Edwin E.** 1953. History of diamonds in Wisconsin: Gems and Gemology, v. 7, no. 9, p. 284-285.
- Olsen, Gerald W.** *see also* Milfred, Clarence James
- Olsen, Gerald W.; Hole, Francis D.** 1968. The fragipan in soils of northeastern Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 56, p. 173-184, illus.; (abs.) Abs. North Am. Geol., p. 1845, Dec. 1968.
- Olsen, J.S.** 1958a. Lake Michigan dune development, pt. 1, wind velocity profiles: Jour. Geol., v. 66, no. 3, p. 254-263.
- 1958b. Lake Michigan dune development, pt. 2, plants as agents and tools in geomorphology: Jour. Geol., v. 66, no. 4, p. 345-351.
- 1958c. Lake Michigan dune development, pt. 3, lake-level, beach and dune oscillations: Jour. Geol., v. 66, no. 5, p. 473-483.
- Olsen, Keith S.** 1967a. The mineral industry of Wisconsin, 1965: U.S. Bur. Mines Minerals Yearbook, 1965, v. 3, Area reports, domestic, p. 889-906, tables.
- 1967b. The mineral industry of Wisconsin, 1966: U.S. Bur. Mines, Minerals Yearbook, 1966, v. 3, Area reports, domestic, p. 853-869, tables.
- 1968. The mineral industry of Wisconsin, 1967: U.S. Bur. Mines, Minerals Yearbook, 1967, v. 3, Area reports, domestic, p. 859-872, tables.
- 1970. The mineral industry of Wisconsin, 1968: U.S. Bur. Mines, Minerals Yearbook, 1968, v. 3, Area reports, domestic, p. 805-818, tables.
- Olsen, Keith S.; Rand, Estelle E.** 1971. The mineral industry of Wisconsin, 1969: U.S. Bur. Mines, Minerals Yearbook, 1969, v. 3, Area reports, domestic, p. 813-827, tables.
- Onesti, Lawrence J.** *see also* Miller, Theodore K.
- 1972. Stream sinuosity as it relates to the drainage network hierarchy of the Pecatonica River, southwest Wisconsin (abs.): G.S.A., Abs. with Programs, v. 4, no. 5, p. 342.
- Oros, Margaret O. (and others).** 1973. Oil and gas developments in north mid-continent in 1972: Am. Assoc. Pet. Geol., Bull., v. 57, no. 8, p. 1485-1491, illus.
- 1974. Oil and gas developments in north mid-continent in 1973: Am. Assoc. Pet. Geol., Bull., v. 58, no. 8, p. 1668-1674, illus.
- Orr, Ellison.** 1907. Exposures of Iowan and Kansan (?) drift, east of the usually accepted west boundary line of the Driftless Area: Iowa Acad. Sci., Proc., v. 14, p. 231-236.
- Orsborn, John F.** 1966. The prediction of piezometric groundwater levels in observation wells based on prior occurrences: Water Resources Research, v. 2, no. 1, p. 139-144, illus., tables.
- 1970. Drainage density in drift-covered basins: Am. Soc. Civ. Eng., Proc., v. 96, paper 7033, Jour. Hydraulics Div., no. HY 1, p. 183-192, illus., tables; (abs.) Abs. North Am. Geol., p. 1735, Nov.
- Osmond, J. Kenneth.** *see* Judson, S. Sheldon, Jr.
- Ostenso, Ned A.** *see* Wold, Richard J.
- Ostrander, Allen Roys.** 1941. Heavy mineral assemblages from Upper Cambrian formations exposed at Coon Valley and Victory, Wisconsin: Ind. Acad. Sci., Proc., v. 49, p. 145-150, illus.; (abs.) Mo. Acad. Sci., Proc., v. 5, no. 4, p. 129, 1940.
- Ostrom, Meredith E.** *see also* Mudrey, Michael G., Jr.
- *see also* Zietz, Isidore
- 1964. Pre-Cincinnatian Paleozoic cyclic sediments in the upper Mississippi Valley; a discussion: Kansas Geol. Survey, Bull. 169, v. 2, p. 381-398.
- 1965. Cambro-Ordovician stratigraphy of southwest Wisconsin, Tri-State Geol. Field Conf., 29th Ann., Guidebook: Wis. Geol. and Nat. History Survey, Inf. Circ. 6, 57 p., illus., table.
- 1966. Cambrian stratigraphy in western Wisconsin Michigan Basin Geol. Soc., Ann. Field Conf., Guidebook: Wis. Geol. and Nat. History Survey, Inf. Circ. 7, 79 p., illus.
- 1967a. Geologic cross section, Alger Co., Michigan - Walworth Co., Wisconsin in Correlation problems of the Cambrian and Ordovician outcrop areas, Northern Peninsula of Mich: Mich. Basin Geol. Soc., Ann. Field Excursion 1967, p. 36-41, illus.
- 1967b. Paleozoic stratigraphic nomenclature for Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ. 8, 4 p., illus.
- 1969. Champlainian Series (Middle Ordovician) in Wisconsin: Am. Assoc. Pet. Geologists, Bull., v. 53, no. 3, p. 672-678, illus.; (abs.) Abs. North Am. Geol., p. 1253, August 1969.
- 1970a. Directory of Wisconsin mineral producers 1968: Wis. Geol. and Nat. History Survey, Inf. Circ. 12, 68 p.
- 1970b. Sedimentation cycles in the Lower Paleozoic rocks of western Wisconsin in Field trip guidebook for Cambrian-Ordovician geology of western Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ. 11, p. 10-34, illus.
- 1971a. Geology field trip southwestern Dane County: Wis. Geol. and Nat. History Survey, 10 p., illus.
- 1971b. Preliminary report on results of physical and chemical tests of Wisconsin siliceous sandstones: Wis. Geol. and Nat. History Survey, Inf. Circ. 18, 61 p., illus., tables.
- 1973. Exploration for copper in Wisconsin: Skillings' Mining Review, v. 62, no. 36, p. 1, 6-7, 10, illus.
- 1976. Mineral resource potential: Wis. Geol. and Nat. History Survey, Sp. Rpt. 6, p. 5-23, illus., maps., tables, geol. sketch maps.
- 1978. The importance of minerals to Wisconsin: Univ. Wis., UIR/Research Newsletter, v. 12, no. 3, p. 22-23, 29.
- Ostrom, Meredith E.; Davis, Richard A., Jr.; Cline, Lewis M.** 1970. Field trip guidebook for Cambrian-Ordovician geology of western Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ. 11, 131 p., illus.
- Owen, David Dale.** *see also* Shumard, Benjamin Franklin
- 1840. Mineral lands of the United States: U.S., 26th Cong., 1st Sess., House Ex. Doc. 239, 161 p.
- 1843. On the geology of the Western States (abs.): Am. Jour. Sci., v. 45, p. 151-152, 163-165; read to Am. Assoc. Geol. by R.I. Murchison, British Assoc., Rpt., v. 12, Trans., p. 44-45.
- 1844a. Report of a geological exploration of part of Iowa, Wisconsin, and Illinois... in 1839: U.S., 28th Cong., 1st Sess., Senate Ex. Doc. 407, 191 p., illus., maps.

- 1844b. Review of the New York geological reports: *Am. Jour. Sci.*, v. 46, p. 143-157; v. 47, p. 354-380; v. 48, p. 296, 316, 1845; (2) v. 1, p. 43-70, 1846; v. 3, p. 164-171, 1847.
- 1846. On the geology of the Western States of the North America: *Geol. Soc. London, Quarterly Jour.*, v. 2, p. 433-447, illus.; (abs.) *Geol. Soc. London, Proc.*, v. 4, p. 1-4, 1843.
- 1847. Preliminary report containing outlines of the progress of the geological survey of Wisconsin and Iowa: U.S., Gen. Land Office, Rpt. 1847; U.S., 30th Cong., 1st Sess., Senate Ex. Doc. 2, p. 160-173.
- 1848a. Report of a geological reconnaissance of the Chippewa land district of Wisconsin and incidentally a portion of the Kickapoo country and of a part of Iowa and of the Minnesota Territory: U.S., 30th Cong., 1st Sess., Senate Ex. Doc. 57, 134 p., illus., map.
- 1848b. Exploration du Wisconsin: *Soc. Geol. France, Bull.*, v. 5 (2) p. 294-296.
- 1851a. Abstract of an introduction to the final report on the geological surveys made in Wisconsin, Iowa, and Minnesota, in the years 1847, 1848, 1849, 1850, containing a synopsis of the geological features of the country: *Am. Assoc. Adv. Sci., Proc.*, v. 5, p. 119-131; (abs.) *Soc. Geol. France, Bull.*, v. 9 (2) p. 313-314, 1852.
- 1851b. On the paleontology of the lowest sandstones of the Northwest: *Am. Assoc. Adv. Sci., Proc.*, v. 5, p. 169-172.
- 1852a. Remarks on the geology of Wisconsin, Iowa, and Minnesota: *Philadelphia Acad. Nat. Sci., Proc.*, v. 6, p. 189-191.
- 1852b. Report of a geological survey of Wisconsin, Iowa, and Minnesota, and incidentally a portion of Nebraska Territory: Philadelphia, Lippincott, Grambo and Co., 638 p., illus., map; (abs.) *Franklin Inst. Jour.*, v. 27 (3) p. 131-133, 182-186, 268-270, 347-349, 1854; *Am. Jour. Sci.*, v. 15 (2) p. 296-299, 1853; v. 16, p. 86-95, 1853.
- 1855. Catalogue of geological specimens collected by D.D. Owen and deposited in the Smithsonian Inst.: *Smithsonian Report for 1854*, p. 393-396.
- Page, James R.** *see* Henderson, John R.
- Palmer, Allison Ralph.** 1951. "Pemphigaspis," a unique Upper Cambrian trilobite: *Jour. Paleontology*, v. 25, no. 6, p. 762-764, illus.
- Palmer, Harris A.** 1954. A review of the Interstate Park, Wisconsin bison find: *Iowa Acad. Sci., Proc.*, 1954, v. 61, p. 313-319, illus.
- Palmquist, Robert Clarence.** 1966. Geomorphic development of part of the Driftless Area, southwest Wisconsin (abs.): *Dissert. Abs. Internat., Sec. B*, v. 26, no. 9, p. 5372.
- 1969a. The configuration of the Prairie du Chien - St. Peter contact in southwestern Wisconsin - an example of an integrated geological-geophysical study: *Jour. Geol.*, v. 77, no. 6, p. 694-702, illus.; (abs.) *Abs. North Am. Geol.*, p. 750, May 1970.
- 1969b. Underfit rivers, an evaluation of the criteria (abs.): *G.S.A., Sp. Paper* 121, p. 667-668.
- Pammel, L.H.** 1907. A comparative study of the vegetation of swamp, clay, and sandstone areas in western Wisconsin, south-eastern Minnesota, northeastern central, and south-eastern Iowa: *Davenport Acad. Sci., Proc.*, v. 10, p. 32-126.
- Parder, J.** *see* Farrand, William R.
- Parham, W.E.; Austin, G.** 1967. Clay minerals of the Glenwood Formation, southeastern Minnesota and adjacent areas: *Jour. Sed. Petrology*, v. 37, p. 863-868.
- Parker, Dale Edward.** 1971. I, Use of remote sensing techniques for soil mapping in northern Wisconsin landscapes; II, Delineation of a flood plain by interpretation of panchromatic and color aerial photographs (abs.): *Dissert. Abs. Internat., Sec. B*, v. 31, no. 11, p. 6377B-6378B.
- Parker, Dale Edward; Kurer, Donald C.; Steingraeber, Joseph A.** 1970. Soil survey of Ozaukee Co., Wisconsin: U.S.D.A., Soil Conservation Service, 92 p., maps.
- Parker, Dale Edward; Lee, Gerhard B.; Yanggen, Douglas A.** 1970. Using soil maps to delineate floodplains in a glaciated low-relief landscape: *Jour. Soil and Water Cons.*, v. 25, no. 3, p. 96-99, illus., tables; (abs.) *Abs. North Am. Geol.*, p. 90, Jan. 1971.
- Parker, Michael.** 1967. Studies on the distribution of cobalt in lakes (abs.): *Dissert. Abs., Sec. B*, v. 28, no. 3, p. 1281B-1282B.
- Parker, Richard A.** 1893. The iron ore region of Lake Superior: *Eng. Mag.*, v. 6, p. 152-175, 285-303.
- Parmalee, Paul W.** 1959. Animal remains from the Raddatz Rockshelter, Sk5, Wisconsin: *Wis. Archeologist*, v. 40, no. 2, p. 83-90.
- Parrish, W. Scott.** 1969. Depth to water table in Dane Co., Wisconsin: Madison, City Engineering Div., Sp. Project Section, scale 1:125,000.
- Patenaude, Robert William.** 1964. Regional aeromagnetic map of Wisconsin: *Univ. Wis., Dept. Geology, Geophysics, and Polar Research Center*, scale approx. 1 inch to 9 miles; (abs.) in *Inst. Lake Superior Geology*, 10th Ann., 1964: Ishpeming, Mich., Marquette Range Comm., p. 52.
- 1966. A regional aeromagnetic survey of Wisconsin in Steinhardt and Smith, eds., *The earth beneath the continents*: *Am. Geophys. Union, Geophys. Mon.* 10 (Natl. Acad. Sci-Natl. Research Council Pub. 1467) p. 111-126, illus.
- 1968. A regional aeromagnetic survey of Wisconsin (abs.): *Dissert. Abs., Sec. B*, v. 28, no. 8, p. 3342B-3343B; *Abs. North Am. Geologist*, p. 1513, Oct. 1968.
- Patterson, James L.; Gamble, Charles R.** 1968. Magnitude and frequency of floods in the United States - pt. 5: U.S.G.S., Water-Supply Paper 1678, p. 203-303.
- Patzer, Robert A.** *see* Clocker, Carl L.
- Paul, C.H.** 1935. Inventory of the water resources of the Mississippi River drainage area: U.S. Natl. Resources Com. Rpt., 64 p.
- Paul, C.R.C.** 1967. "Hallicystis attenuata", a new calcocystitid cystoid from the Racine dolomite of Wisconsin: *Univ. Mich., Mus., Paleontology Contr.*, v. 21, no. 11, p. 231-253, illus., (abs.) *Abs. North Am. Geol.*, p. 232, Feb. 1968.
- Paulhus, J.L.H.; Nelson, E.R.** 1967. The March, May 1965 floods in the upper Mississippi, Missouri and Red River of the north basins: U.S. Dept. of Commerce, Env. Science Services Admin., Tech. Rpt. WB-4, 100 p., tables, map.
- Paull, Rachel K.** *see also* Paull, Richard A.
- Paull, Rachel K.; Paull, Richard A.** 1977. Geology of Wisconsin and the Upper Peninsula, including parts of adjacent states: Dubuque, Kendall/Hunt Publishing Co., 232 p., illus., maps.
- Paull, Richard A.** *see also* Paull, Rachel K.
- *see also* Smith, Eugene I.
- 1968. Geological vandalism—a serious threat to earth-science education (abs.): *G.S.A., Sp. Paper* 101, p. 158.
- Paull, Richard A.; Paull, Rachel K.; Nelson, Katherine G.** 1977. The Upper Ordovician Neda formation and Lower Silurian Mayville dolomite in Dodge County, Wisconsin in Nelson, Katherine G., ed., *Geology of southeastern Wisconsin*: *Wis. Geol. and Nat. History Survey*, 41st Ann. Tri-State Field Conf. Guidebook, p. III1-III8 - C3-C18.
- Pavlik, Hannah F.; Hole, Francis D.** 1974. An analysis of soil-scape fabric in adjacent ground moraine and drumlin terrains near Beaver Dam in southeastern Wisconsin in Knox and Mickelson, eds., *Late Quaternary environments of Wisconsin*: Madison, Am. Quaternary Assoc., Third biennial mtg., p. 196-208, illus.
- 1977. Soil-scape analysis of slightly contrasting terrains in southeastern Wisconsin: *Soil Sci. Soc. Am., Proc.*, v. 41, p. 407-413.
- Peabody, L.P.** 1968. Ramblings in northern Wisconsin: *Hobbies*, v. 73, p. 127.
- Peale, Albert C.** 1886. Lists and analyses of the mineral springs of the United States: U.S.G.S., *Bull.* 32, p. 151-157.
- 1894. Natural mineral waters of the United States: U.S.G.S., 14th Ann. Rpt., 1892-1893, pt. 2, p. 60, 77, 80, 88.
- Pease, H.** 1958. Did Wisconsin go to the glacier?: *Science Digest*, v. 44, p. 66-9.
- Peck, Theodore R.; Lee, Gerhard B.** 1961. Soil survey of Marquette Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 83 (soil ser. 58) 95 p., illus., tables, map.
- Peel, J.S.** 1975. A new Silurian gastropod from Wisconsin and the ecology of uncoiling in Palaeozoic gastropods: *Geol. Soc. Denmark, Bull.*, v. 24, no. 3-4, p. 211-221, illus.
- Peltonen, D.R.; Salotti, C.A.; Taylor, Robert W.** 1978. Relations between soil geochemistry and bedrock geology, Iron Co., Wisconsin (abs.) in *Inst. Lake Superior Geology*, 24th Ann., 1978, *Abs. and Proc.*: *Univ. Wis., Milwaukee*, p. 30.
- Pence, W.L.** 1911. Failure of the Dells and Hatfield Dams and the devastation of Black River Falls, Wisconsin, Oct. 6, 1911: *Eng. News*, v. 66, no. 16, p. 482-489, illus.
- Penhallow, David Pearce.** 1908. Some fossil plants from the middle Devonian of Milwaukee, Wisconsin: *Wis. Nat. History Soc., Bull.* 6, p. 8-12, illus.
- Pennington, J.W.** *see* Evans, T.A., Jr.
- Pentland, Arthur Gerald.** 1931. The heavy minerals of the Franconia and Mazomanie sandstones, Wisconsin: *Jour. Sed. Petrology*, v. 1, no. 1, p. 23-36.
- Percival, James Gates.** 1854. The Hazelgreen (lead) mine, Wisconsin; its geological aspect: *Mining Mag.*, v. 2, p. 631-632.
- 1855a. Annual report on the geological survey of the State of Wisconsin: *Wis. Geol. Survey*, 101 p., map.
- 1855b. Geology of Wisconsin: *Mining Mag.*, v. 4, 345-361; v. 5, p. 113-128, 217-229.
- 1855c. Report on the iron region of Dodge and Washington Counties, with maps: Milwaukee, Starrs' Book & Job Printing Office, 13 p., illus.
- 1856a. The primary rocks: *Wis. Geol. Survey, Ann. Rpt.*, 1856, p. 103-111.
- 1856b. (Second) annual report of the geological survey of the State of Wisconsin: *Wis. Geol. Survey*, 111 p.; German ed. 103 p., Milwaukee.
- Perrot, Nicolas.** 1902. Memoire sur les moeurs, coutumes et religion des sauvages de l'Amerique septentrionale, 1656-62: *Wis. State Hist. Soc., Collections*, v. 16, p. 17-19, translation.
- Perry, A.O.** *see* Kuntz, C.S.
- Perry, T.G.** *see also* Bork, Kennard B.
- 1962. Spechts Ferry (Middle Ordovician) bryozoan fauna from Illinois, Wisconsin, and Iowa: *Ill. Geol. Survey Div., Circ.* 326, 36 p., illus.
- Person, Elaine** *see* Preston, Richard S.
- Peske, G. Richard; Tappen, N.C.** 1970. Microscopic examination of human femurs buried at Washington Island, Wisconsin: *Am. Antiquity*, v. 35, no. 4, p. 463-465, illus.
- Peterman, Z.E.** *see* Sims, P.K.
- *see* Van Schmus, W.R.

- Petersen, G.W.; Corey, R.B.** 1966. A modified Chang and Jackson procedure for routine fractionation of inorganic soil phosphates: *Soil Sci. Soc. Am., Proc.*, v. 30, no. 5, p. 563-565, illus.
- Petersen, G.W.; Lee, Gerhard B.; Chesters, Gordon.** 1968. A comparison of red clay glacio-lacustrine sediments in northern and eastern Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.* 1967-68, v. 56, p. 185-196, illus., tables; (abs) *North Am. Geol.*, p. 1849, December 1968; *Geographical Abs. (A)* v. 6, p. 548, 1969.
- Peterson, A.E.** see Dixon, R.M.
- Peterson, Alvin M.** 1948. Palisades and coulees; the scenic Mississippi Valley from Prairie du Chien to Red Wing: *Modern Printing Co.*, 77 p.
- Peterson, Eunice.** 1927. Block faulting in St. Croix Valley (Minn.): *Jour. Geol.*, v. 35, no. 4, p. 368-374, illus.
- 1929. The Dresbach Formation of Minnesota: *Buffalo Soc. Nat. Sci., Bull.*, v. 14, no. 2, 48 p., illus.
- Peterson, F.F.** see Hole, Francis D.
- Peterson, Gilbert M.** see Hennings, Keven
- 1968. Caves of Richland Co., Wis.: *Wis. Speleologist*, v. 7, no. 3, p. 78-109, illus., v. 9, no. 11, p. 22-25, 1970.
- 1969. Historical background on the Atkinson lead mine, Grant Co., Wisconsin: *Wis. Speleologist*, v. 8, no. 3, p. 54-74, illus.
- Peterson, S.F.** see Dosen, R.C.
- see Wilde, S.A.
- Petrufeso, F.A.** see Balsley, James R., Jr.
- Pettijohn, Francis John.** see also Good, Stanley E.
- 1957. Paleocurrents of the Lake Superior Precambrian quartzites: *G.S.A., Bull.*, v. 68, no. 4, p. 469-480.
- Petty, A.J.** see Kirby, John R.
- Pezzetta, John M.** 1974. Sedimentation off the Kewaunee nuclear power plant: *Univ. Wis., Sea Grant College Program, tech. rpt.* 221, 59 p., illus.
- Pezzetta, John M.; Iskandar, I.K.** 1976. Sediment characteristics in the vicinity of the Pulliam power plant, Green Bay, Wisconsin: *Env. Geol.*, v. 1, no. 3, p. 155-165, tables, maps.
- Philbin, P.W.; McCaslin, W.E.** 1967. Aeromagnetic map of part of the Beechwood Quadrangle, Michigan and Wisconsin: *U.S.G.S., Geophys. Inv. Map GP-603*, scale 1:62,500.
- Philbin, P.W.; Vargo, J.L.** 1966a. Aeromagnetic map of parts of the Ironwood and Wakefield quadrangles, Gogebic County, Michigan and Iron and Vilas Counties, Wisconsin: *U.S.G.S., Geophys. Inv. Map GP-578*, scale 1:62,500.
- 1966b. Aeromagnetic map of parts of the Thomaston, Carp River, North Ironwood, and Little Girls Point quadrangles, Gogebic and Ontonagon Counties, Michigan, and Iron Co., Wisconsin: *U.S.G.S., Geophysics Inv. Map GP-579*, scale 1:62,500.
- Phillips, John Van Cleve.** 1854. The geology of the Upper Mississippi lead region: *Mining Mag.*, v. 2, no. 2, p. 129-138, illus.
- Phillips, John.** 1970. Wisconsin's wetland soils; a review: *Wis. Dept. Nat. Resources, Research Report* 57, 22 p., illus.
- Piening, Ronald.** see also Poff, Ronald J.
- Piening, Ronald; Poff, Ronald J.; Threinen, C.W.** 1967. Surface water resources of Lafayette County: *Wis. Dept. Nat. Resources, Lake and stream classification project*, 82 p., tables, maps.
- Piening, Ronald; Threinen, C.W.** 1968. Surface water resources of Iowa County: *Wis. Dept. Nat. Resources, Lake and stream classification project*, 107 p., maps.
- Pierce, R.S.** 1953. Oxidation-reduction potential and specific conductance of ground water: *Soil Sci. Soc. Am., Proc.*, v. 17, no. 1, p. 61-64.
- Pike, Z.M.** 1810. An account of expeditions to the sources of the Mississippi, etc., during the years 1805, 1806, and 1807: *Philadelphia*, p. 2-4, 10-23, 43-50, 94-102.
- Pinckney, Darrell M.; Rafter, T. Athol.** 1972. Fractionation of sulfur isotopes during ore deposition in the upper Mississippi Valley zinc-lead district: *Econ. Geology*, v. 67, p. 315-328, illus.
- Pingrey, Katherine.** see Meloche, V.W.
- Pirie, R. Gordon.** see Lasca, Norman P.
- Place, J.T.** see Christensen, B.I.
- Platt, R.S.** 1928. A detail of regional geography (Door Peninsula): *Assoc. Am. Geographers, Annals*, v. 18, p. 81-126.
- Poff, Ronald J.** see also Ball, Joseph R.
- see also Kern, Lee T.
- see also Piening, Ronald
- see also Threinen, C.W.
- see also Weber, John J.
- Poff, Ronald J.; Gernay, Ronald; Threinen, C.W.** 1964. Surface water resources of Ozaukee County: *Wis. Cons. Dept., Lake and stream classification project*, 53 p., tables, maps.
- Poff, Ronald J.; Piening, Ronald; Threinen, C.W.** 1968. Surface water resources of Jefferson County: *Wis. Dept. Nat. Resources, Lake and stream classification project*, 71 p., tables, maps.
- Poff, Ronald J.; Threinen, C.W.** 1961a. Surface water resources of Green County: *Wis. Cons. Dept., Lake and stream classification project*, 28 p., tables, maps.
- 1961b. Surface water resources of Kenosha County: *Wis. Cons. Dept., Lake and stream classification project*, 37 p., tables, maps.
- 1961c. Surface water resources of Racine County: *Wis. Cons. Dept., Lake and stream classification project*, 37 p., tables, maps.
- 1961d. Surface water resources of Walworth County: *Wis. Cons. Dept., Lake and stream classification project*, 47 p., tables, maps.
- 1962a. Surface water resources of Dane County: *Wis. Cons. Dept., Lake and stream classification project*, 61 p., maps, tables.
- 1962b. Surface water resources of Washington County: *Wis. Cons. Dept., Lake and stream classification project*, 65 p., tables, maps.
- 1963a. Surface water resources of Marquette County: *Wis. Cons. Dept., Lake and stream classification project*, 68 p., tables, maps.
- 1963b. Surface water resources of Waukesha County: *Wis. Cons. Dept., Lake and stream classification project*, 69 p., tables, maps.
- 1964. Surface water resources of Milwaukee County: *Wis. Cons. Dept., Lake and stream classification project*, 39 p., tables, maps.
- 1965a. Surface water resources of Columbia Co., Wisconsin: *Wis. Cons. Dept., Lake and stream classification project*, 55 p., tables, maps.
- 1965b. Surface water resources of Door County: *Wis. Cons. Dept., Lake and stream classification project*, 66 p., tables, maps.
- 1966. Surface water resources of Kewaunee County: *Wis. Cons. Dept., Lake and stream classification project*, 50 p., tables, maps.
- Pohl, Erwin R.** 1929a. The Devonian of Wisconsin, pt. I, lamellibranchiata: *Milwaukee Public Museum, Bull.*, v. 11, no. 1, p. 1-100, illus.
- 1929b. Faunal studies and their bearing on the correlation of the Wisconsin Devonian (abs.): *G.S.A., Bull.*, v. 40, no. 1, p. 222; *Pan-Am. Geologist*, v. 51, no. 3, p. 234.
- 1929c. Middle Devonian pelecypods of Wisconsin and their bearing on correlation: *Wash. Acad. Sci., Jour.*, v. 19, no. 3, p. 53-59.
- 1930. Devonian formations of the Mississippi Basin: *Tennessee Acad. Sci., Jour.*, v. 5, no. 2, p. 54-63.
- 1931. Faunal study of the Wisconsin Devonian: *George Washington Univ., Bull., Summaries of Doctoral Theses 1925-28*, p. 105-107.
- Pollack, Sidney Solomon.** 1956. The mineralogy of a gray-brown podzolic soil and a humic-gley soil of southeastern Wisconsin: *Dissert. Abs.*, v. 16, no. 4, p. 761-762.
- Pond, Alonzo W.** 1945. Calcite oolites or "cave pearls" found in the Cave of the Mounds (Blue Mounds, Wis.): *Jour. Sed. Petrology*, v. 15, no. 2, p. 55-58, illus.
- 1951. Guidebook of Cave of the Blue Mounds, Wisconsin: *Madison, Wis., Straus Printing Co.*, 34 p., illus.
- 1964. Wisconsin underground: *Wis. Tales and Trails*, v. 5, no. 1, p. 23-27, illus.
- Poole, J.L.** see Krieger, Robert Albert
- Porter, J.W.** 1876. Oldhamia in Wisconsin: *Am. Jour. Sci.*, v. 12 (3) p. 226.
- Posepny, Franz.** 1894. The genesis of ore deposits: *Am. Inst. Mining Eng., Trans.*, v. 23, p. 303-4.
- Posselt, C.** 1856. Die Kupfer-Distrikte des Obersee's, Lake Superior: *Neues Jahrbuch für Mineralogie, Geologie, und Paläontologie*, p. 1-10.
- Potter, Paul Edwin; Pryor, Wayne Arthur.** 1961. Dispersal centers of Paleozoic and later clastics of the upper Mississippi Valley and adjacent areas: *G.S.A., Bull.*, v. 72, no. 8, p. 1195-1250, illus.
- Potter, W.P.** 1962. Estimating peak rates of runoff from small watersheds in Wisconsin: *U.S. Dept. Commerce, Bur. Public Roads, Hydro. Eng. Circ.* 4, 11 p.
- Potter, William D.; Love, S.K.** 1942. Hydrologic studies at the Coon Creek demonstration project SCS-Wis.-1, Coon Valley, 1934-40: *U.S.D.A., Soil Conservation Service, Hydro. Div. Research, SCS-TP-46*, 4 p., illus.
- Potzger, John Ernest.** see also Zumberge, James Herbert
- 1942. Pollen spectra from four bogs on the Gillen Nature Reserve, along the Michigan-Wisconsin state line: *Am. Midland Naturalist*, v. 28, no. 2, p. 501-511, illus., map.
- 1943. Pollen study of five bogs in Price and Sawyer Counties, Wisconsin: *Butler Univ. Bot. Studies*, v. 6, paper 5, p. 54-64, illus.
- 1946. Phytosociology of the primeval forest in central-northern Wisconsin and upper Michigan and a brief post-glacial history of the lake forest formation: *Ecol. Monographs*, v. 16, no. 3, p. 211-250, illus., map; (abs.) *Ind. Acad. Sci., Proc.*, v. 54, 1944, p. 80, 1945.
- Potzger, John Ernest; Keller, Carl O.** 1943. A pollen study of four bogs along the southern border of Vilas Co., Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 35, p. 147-156, illus.
- Potzger, John Ernest; Richards, Ruth Rebekah.** 1942. Forest succession in the Trout Lake, Vilas Co., Wisconsin area, a pollen study: *Butler Univ. Bot. Studies*, v. 5, paper 14, p. 179-189, illus.
- Powell, Louis Harvey.** 1935. A study of the Ozarkian faunas of southeastern Minnesota: *St. Paul Inst. Sci. Mus., Bull.*, no. 1, 80 p., illus.

- Power, Steve J.; Harris, Hallett, Jr.** 1971. Water and natural resources study for the Shawano Lake Area Council of Governments: Northeastern Wis. Regional Planning Comm., 100 p.
- Powers, Elliot Holcomb.** 1935a. Isopach map of the Prairie du Chien Group: Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook, p. 350-351, text.
- 1935b. The Prairie du Chien problem: Iowa Univ. Studies in Nat. History, v. 16, no. 6 (ns 298) p. 419-450, illus., map; (abs.) G.S.A., Proc. 1934, p. 101-102.
- 1935c. Stratigraphy of the Prairie du Chien (upper Mississippi Valley): Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook, p. 390-394, illus., maps.
- Powers, William E.** *see also* Ball, John Rice
- 1936. The evidences of wind abrasion: Jour. Geol., v. 44, no. 2, pt. 1, p. 214-219.
- 1946. The Dells and Devils Lake region, Wisconsin: Chicago Naturalist, v. 9, no. 4, p. 74-86, illus., map.
- 1958. Final report on the geomorphology of the Lake Michigan shoreline: Northwestern Univ.; Office of Naval Research, Contract no. Nonr-1228(07), Project no. NR-387-015, 103 p., illus., maps.
- Prentiss, D.** *see* Rixin, Elmer E.
- Preston, John; Strauss, Eric; Friz, Thomas Otto.** 1974. Model mineral reservation and mine zoning ordinance: Wis. Geol. and Nat. History Survey, Inf. Circ. 24, 43 p.
- Preston, Richard S.; Person, Elaine; Deevey, Edward Smith, Jr.** 1955. Yale natural radiocarbon measurements II: Science, v. 122 (n s) no. 3177, p. 954-960.
- Pride, D.E.** 1976. Identification of Cu, Pb, Zn, and Ni anomalies in lakes from the Clam Lake and Monico regions, northern Wisconsin (abs.): G.S.A., Abs. with Programs, v. 8; no. 4, p. 504.
- 1977. Two-sample technique for determining the influence of soil organic matter on copper concentration: Jour. Geochem. Explor., v. 7, no. 3, p. 361-371, illus., map.
- Prinz, William C.** *see also* Sims, P.K.
- 1965. Marinette Quartz Diorite and Hoskin Lake Granite of northeastern Wisconsin in Cohee, G.V. and West, W.S., Changes in stratigraphic nomenclature by the U.S. Geological Survey, 1964: U.S.G.S., Bull. 1224-A, p. A53-A55.
- Prinz, William C.; Gafr, J.E.; Cannon, W.F.** 1975. Greenstone in Inst. on Lake Superior Geology, 21st Ann., Guidebook 2: Marquette, Northern Mich. Univ., p. 41-85.
- Prokopovich, Nikola.** 1953. Silification in the Oneota dolomite (Wis.): Jour. Sed. Petrology, v. 23, no. 3, p. 174-179, illus.
- Pronin, D.T.** *see* Dosen, R.C.
- Prout, Hiram A.** 1851. Description of a new graptolite found in the Lower Silurian rocks near the Falls of the St. Croix River: Am. Jour. Sci., v. 11 (2) p. 187-191, illus.
- Prouty, C.E.** 1960. Lower Paleozoic and Pleistocene stratigraphy across central Wisconsin: Mich. Basin Geol. Soc., Ann. Field Excursion, 34 p.
- Pryor, Wayne Arthur.** *see also* Amaral, Eugene J.
- *see also* Potter, Paul Edwin
- Pryor, Wayne Arthur; Amaral, Eugene J.** 1971. Large-scale cross-stratification in the St. Peter Sandstone: G.S.A., Bull., v. 82, no. 1, p. 239-243, illus.; (abs.) Abs. North Am. Geol., p. 990, June 1971.
- 1973. Depositional environments of ancient sediments deduced by textural analyses, an evaluation (abs.): G.S.A., Abs. with Programs, v. 5, no. 7, p. 773-774.
- Pulsifer, H.B.** 1913. Development of the Wisconsin zinc field: Mining World, v. 38, p. 1231-1233.
- Pumpelly, Raphael.** *see also* Brooks, Thomas Benton
- 1878. Metasomatic development of the copper-bearing rocks of Lake Superior: Am. Acad. Arts, Proc., v. 13, p. 253-310; (abs.) Am. Jour. Sci., v. 16 (3) p. 143-144.
- 1880. Lithology of the Keweenaw or copper-bearing system in Geology of Wisconsin: Wis. Geol. Survey, v. 3, pt. 2, p. 27-49, tables.
- Purdue, Albert Homer.** 1906. Structural relations of the Wisconsin zinc and lead deposits: Econ. Geology, v. 1, p. 391-392.
- Putnam, Bayard T.** 1886. Notes on the samples of iron ore collected in Connecticut and Massachusetts, New York, New Jersey, Michigan and northern Wisconsin, west of the 100th meridian: U.S., 10th Census, v. 15, p. 83-87, 89-144, 145-177, 179-221, 421-455, 469-505, maps.
- Quimby, George Irving.** 1958. Fluted points and geochronology of the Lake Michigan basin (Mich.-Wis.): Am. Antiquity, v. 23, no. 3, p. 247-254, illus.
- Raasch, Gilbert Oscar.** *see also* Bays, Carl A.
- *see also* Edwards, Ira
- *see also* Twenhofel, William Henry
- *see also* Wanenmacher, Joseph M.
- 1927. Scenic aspects of the Penokee Range: Milwaukee Public Museum, Yearbook, 1926, v. 6, p. 180-188, illus.
- 1928. The Appel collection of lead region minerals (Wis.): Milwaukee Public Museum, Yearbook, 1927, v. 7, p. 185-192, illus.
- 1934. Wisconsin Cambrian merostomata (abs.): G.S.A., Proc., 1933, p. 335.
- 1935a. Devonian of Wisconsin: Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook, p. 261-267, illus.
- 1935b. Paleozoic strata of the Baraboo area: Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook, p. 405-414, illus.
- 1935c. Stratigraphy of the Cambrian system of the upper Mississippi Valley: Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook, p. 302-315, 2 figs.
- 1936. Upper Cambrian (St. Croixan) faunas of the type region (abs.): G.S.A., Proc., 1935, p. 385-386.
- 1939. Cambrian merostomata: G.S.A., Sp. Paper 19, 146 p., illus.
- 1950. Current evaluation of the Cambrian-Keweenaw boundary (Wis.): Ill. State Acad. Sci., Trans., 1950, v. 43, p. 137-150, illus.
- 1952a. Oneota Formation, Stoddard quadrangle, Wisconsin: Ill. State Acad. Sci., Trans., 1952, v. 45, p. 85-95, illus.
- 1952b. Revision of Croixan dikelocephalids: Ill. Acad. Sci., Trans., 1951, v. 44, p. 137-151, illus.; Ill. State Geol. Survey, Circ. 179, p. 137-151, illus., 1952.
- 1958. The Baraboo (Wis.) monadnock and paleo-wind direction in Raasch, G.O., ed., Polar wandering and continental drift-a symposium: Alberta Soc. Petroleum Geologists, Jour., v. 5 (16) no. 7, p. 183-187, illus.
- Raasch, Gilbert Oscar; Unfer, Louis, Jr.** 1964 (1966). Transgressive-regressive cycle in Croixan sediments (Upper Cambrian), Wisconsin in Symposium on cyclic sedimentation: Kansas State Geol. Survey, Bull. 169, v. 2, p. 427-440, illus.
- Radisson, Pierre Esprit, sieur de.** 1888. On Chequamegon Point in 1661 in The fourth voyage of Radisson: Wis. State Hist. Soc., Collections, v. 11, p. 72.
- Rafter, T. Athol.** *see* Pinckney, Darrell M.
- Ragotzkie, Robert A.** *see also* Likens, Gene E.
- 1974. The Great Lakes rediscovered: Am. Sci., v. 62, no. 4, p. 454-464, illus.
- Ragotzkie, Robert A.; Ahmsbrak, W.F.; Synowiec, A.** 1969a. The hydrography of Chequamegon Bay: Univ. Wis., Marine Studies Center, Tech. Rpt. no. 1, 56 p.
- 1969b. Summer thermal structure and circulation of Chequamegon Bay, Lake Superior—a fluctuating system: Internat. Assoc. Great Lakes Research, 12th Conf., Proc., p. 686-704, illus.
- Rand, Estelle E.** *see* Olson, Keith S.
- Rand, Lenox H.** 1958. The mineral industry of Wisconsin, 1956: U.S. Bur. Mines, Minerals Yearbook, 1956, v. 3, Area reports, p. 1247-1263, tables.
- 1959a. The mineral industry of Wisconsin, 1957: U.S. Bur. Mines, Minerals Yearbook, 1957, v. 3, Area reports, p. 1205-1215, tables.
- 1959b. The mineral industry of Wisconsin, 1958: U.S. Bur. Mines, Minerals Yearbook, 1958, v. 3, Area reports, p. 1031-1045, tables.
- 1960. The mineral industry of Wisconsin, 1959: U.S. Bur. Mines, Minerals Yearbook, 1959, v. 3, Area reports, p. 1095-1111, tables.
- Randall, G.W.** *see* Wilde, S.A.
- Rank, P.J.** *see* Dickerson, R.S.
- Ranney, Richard Willard.** 1967. Soil forming processes in gossoboralfs of west-central Wisconsin (abs.): Dissert. Abs., Sec. B, v. 28, no. 2, p. 433B.
- Ranney, Richard Willard; Beatty, Marvin T.** 1969. Clay translocation and albic tongue formation in two gossoboralfs of west-central Wisconsin: Soil Sci. Soc. Am., Proc., v. 33, no. 5, p. 768-775, illus., tables; (abs.) Abs. North Am. Geol., p. 1097, July 1970.
- Rasmussen, Donald L.** 1971. Microvertebrates from a fissure deposit in the "Driftless Area" of southwestern Wisconsin (abs.): G.S.A., Abs. with Programs, v. 3, no. 4, p. 275-276.
- Rassam, Ghassan Noel.** 1968. Studies on the Platteville Formation of Minnesota, Iowa, and Wisconsin (abs.): Dissert. Abs., Sec. B, v. 28, no. 12, pt. 1, p. 5084B.
- Raymond, Percy Edward.** 1916. New and old Silurian trilobites from southeastern Wisconsin, with notes on the genera of "Illaenidae": Harvard College, Mus. Comp. Zoology, Bull. 60, p. 3-41, illus.
- 1921. A contribution to the description of the fauna of the Trenton group: Canada Geol. Survey, Nat. Museum Bull., no. 31, 64 p., illus.
- Raymore, Donald K.** 1966. Wisconsin rivers and lakes, workhorses for power, for transport, for pleasure: Milwaukee, Wis. Advertising Service, (Wideview pub.) 64 p., illus.
- Read, William Franklin.** 1956. Evolution of corrosion zones in limestone and dolomite (Wis.) (abs.): G.S.A., Bull., v. 67, no. 12, p. 2, p. 1726.
- 1962. Wisconsin meteorite investigations: Wis. Academy Review, v. 9, no. 4, p. 152-155, illus.
- 1963. The Zenda meteorite: Wis. Acad. Sci., Arts, and Letters, Trans., v. 52, p. 153-158, illus.
- 1964. Two more finds at the Smithville meteorite locality: Tennessee Acad. Sci., Jour., v. 39, no. 3, p. 285-290, illus.
- 1965. The Hedden-Stockwell meteorite detector: Meteoritics, v. 2, no. 4, p. 369-370.
- 1968. The Oshkosh meteorite: Meteoritics, v. 4, no. 2, p. 137-140, illus.
- Read, William Franklin; Stockwell, H.O.** 1966. The Trenton meteorites: Wis. Acad. Sci., Arts, and Letters, Trans., v. 55, p. 77-85, illus.
- Read, William Franklin; Weis, Leonard Walter.** 1962. Northeastern Wisconsin in Tri-State Geol. Field Conf., 26th Ann., Guidebook: Appleton, Wis., Lawrence College, 22 p., map.

- Rebello, Dennis P.** *see also* Banks, Philip O.
— 1965. Petrology of the Amberg Precambrian crystalline complex, northeastern Wisconsin (abs.) in *Inst. Lake Superior Geology*, 11th Ann., 1965: St. Paul, Minn., Univ. Minn., p. 28.
- Reeves, E. Bodette.** *see* Murray, C. Richard
- Reinke, Gordon.** *see* Mudrey, Michael G., Jr.
- Renwick, Margaret O.; Zinner, Paul.** 1947. Winskell-Andrews-Lyne zinc deposits, Lafayette Co., Wisconsin: U.S. Bur. Mines, Rpt. Inv. 4090, 5 p., illus., map.
- Resser, Charles Elmer.** *see also* Ulrich, Edward Oscar
— 1933. Preliminary generalized Cambrian time scale: G.S.A., Bull., v. 44, no. 4, p. 751-753; (abs.) G.S.A., Bull., v. 44, pt. 1, p. 190-191.
— 1935. Nomenclature of some Cambrian trilobites: Smithsonian Misc. Coll., v. 93, no. 5, 46 p.
— 1937. Third contribution to nomenclature of Cambrian trilobites: Smithsonian Misc. Coll., v. 95, no. 22, 29 p.
- Reuss, Henry S. (and others).** 1976. On the trail of the Ice Age, a hiker's and biker's guide to Wisconsin's Ice Age National Scientific Reserve and Trail: Wisconsin American Revolution Bicentennial Commission, 77 p., illus., maps.
- Rexin, Elmer E.** 1964. Alaskan earthquake excited Nunn-Bush well: *Earth Science*, v. 17, no. 4, p. 152-156.
- Rexin, Elmer E.; Oliver, J.; Prentiss, D.** 1962. Seismically-induced fluctuations of the water level in the Nunn-Bush well in Milwaukee: *Seismol. Soc. Am., Bull.*, v. 52, no. 1, p. 17-35.
- Rexin, Elmer E.; Vorhis, Robert C.** 1967. Hydroseismograms from the Nunn-Bush Shoe Co. well, Wisconsin in Hydrologic effects of the earthquake of March 27, 1964, outside Alaska: U.S.G.S., Prof. Paper 544-C, p. C10-C13, illus.
- Reynolds, Charles A.** *see* Steingraeber, Joseph A.
- Reynolds, Robert Ramon.** *see also* Ewoldt, Harold Boaden
— 1958. Factors controlling the localization of ore deposits in the Shullsburg area, Wisconsin-Illinois zinc-lead district: *Econ. Geology*, v. 53, no. 2, p. 141-163, illus.
— 1964. Formation of ore deposits by water of compaction: *Econ. Geology*, v. 59, no. 4, p. 723-724.
- Rice, Henry M.** 1867. Mineral regions of Lake Superior as known from their earliest discoveries to 1865: *Minnesota State Historical Soc., Collections*, p. 8-12.
- Richards, Ruth Rebekah.** *see* Potzger, John Ernest
- Richardson, J.L.; Hole, Francis D.** 1978. Influence of vegetation on water repellency in selected western Wisconsin soils: *Soil Sci. Soc. Am., Jour.*, v. 42, no. 3, p. 465-467, tables.
- Richarz, Stephen.** 1928. Metamorphism of the Lake Superior iron formations (abs.): G.S.A., Bull., v. 39, no. 1, p. 165-166; *Pan-Am. Geologist*, v. 49, no. 1, p. 74-75.
- Richter, D.; Simmons, G.; Siegfried, R.W.** 1975. Combined petrographic and scanning electron microscopy of micro-structures in igneous rocks: EOS (Am. Geophys. Union, Trans.), v. 56, no. 6, p. 447.
- Ries, Heinrich.** 1903. The clays of the United States east of the Mississippi River: U.S.G.S., Prof. Paper 11 (A, econ. geol. ser. 21; B, descrip. geol. ser. 24) p. 67, 262-272, maps.
— 1906. The clays of Wisconsin and their uses: *Wis. Geol. and Nat. History Survey, Bull.* 15 (econ. ser. 10) 259 p., illus.
- Ries, Heinrich; Gallup, F.L.** 1906. Report on the molding sands of Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 15 (econ. ser. 10) p. 192-247, illus.
- Riley, N. Allen.** 1947. Structural petrology of the Baraboo Quartzite (Wis.): *Jour. Geol.*, v. 55, no. 6, p. 453-475, illus., map.
- Ritchie, J.C.** *see* McHenry, J.R.
- Ritchie, James S.** 1857. Wisconsin and its resources; with Lake Superior, its commerce and navigation: Philadelphia, Charles Desilver, 312 p., illus., maps.
- Rivot, L.E.** 1855. Voyage au Lac Supérieur: *Annales des Mines*, v. 7 (5) p. 173-328, map; *Mining Mag.*, v. 6, p. 28-37, 99-106, 207-213, 414-418, 1856; v. 7, p. 249-255, 359-367, 1856; v. 9, p. 60-65, 1857; (map also issued separately)
— 1856. Notice sur le Lac Supérieur: *Annales des Mines, Memoires*, v. 10 (5) p. 365-474.
- Roberts, Bruce A.** *see* Engel, Robert J.
- Roberts, Jeanette.** *see* Nelson, Katherine G.
- Robinson, Arthur H.; Culver, Jerry B.** 1974. The atlas of Wisconsin: Univ. Wis. Press, 111 p., illus., maps.
- Robinson, Glenn H.** *see* Hole, Francis D.
- Robinson, Glenn H. (and others).** 1958. Soil survey of Barron Co., Wisconsin: U.S.D.A., Soil Conservation Service, no. 1 (series 1948) 103 p., illus., maps.
- Robinson, Glenn H.; Klingelhoets, A.J.** 1959. Soil survey of Richland Co., Wisconsin: U.S.D.A., Soil Conservation Service, no. 9 (series 1949) 42 p., maps.
— 1961. Soil survey of Grant County, Wis.: U.S.D.A., Soil Conservation Service, no. 10 (soil series 1951) 98p., maps.
- Robinson, R.F.** 1963. Surveys for potential sources of aggregates: Highway Research Board, Highway Research Record, no. 1, p. 8-12, illus.
- Rockford Map Publishers.** 1973. Wisconsin state atlas: Rockford, Ill., 246 p. (rev. ed.) illus., maps.
- Roder, D.L.; Cameron, Eugene N.** 1973. The petrology and chemistry of the Round Lake intrusion, northwestern Wisconsin in *Inst. Lake Superior Geology*, 19th Ann., 1973, Tech. program and abs.: *Wis. Geol. and Nat. History Survey; Univ. Wis., Geology Depts.*, p. 30.
- Roderick, G.L.** 1975. Properties of some glacial soils in Wisconsin in *The engineering behaviour of glacial materials: Birmingham, United Kingdom, The Midland Soil Mechanics and Found. Eng. Soc.*, p. 75-82, tables.
- Roedder, Edwin; Ingram, Blanche; Hall, Wayne E.** 1963. Studies of fluid inclusions-(pt.) 3, extraction and quantitative analysis of inclusions in the milligram range: *Econ. Geology*, v. 58, no. 3, p. 353-374.
- Roethe, A.J.** 1896. The lead and zinc fields of Wisconsin: *Eng. Mining Jour.*, v. 61, p. 88-89.
- Rohlich, G.A.** 1963. Origin and quantities of plant nutrients in Lake Mendota in *Frey, D.G., ed., Limnology in North America: Madison, Univ. Wis. Press*, p. 75-88, illus.
- Rohn, Oscar.** 1903. The Baraboo iron range (Sauk Co., Wis.): *Eng. Min. Jour.*, v. 76, p. 615-617.
- Roller, J.C.; Jackson, W.H.** 1966. Seismic-wave propagation in the upper mantle; Lake Superior, Wisconsin to Denver, Colorado in *Steinhart and Smith, eds., The earth beneath the continents: Am. Geophys. Union, Geophys. Mon.* 10, p. 270-275, illus.
- Romano, Louis G.; Georgiady, Nicholas P.** 1967. Exploring Wisconsin: Chicago, Follett Pub. Co., rev., 160 p., illus.
- Romberger, S.B.** 1973. Upper Mississippi Valley base metal deposits, experimental solutions to problems of ore genesis in *Inst. Lake Superior Geology*, 19th Ann., 1973, Technical program and abstracts: *Wis. Geol. and Nat. History Survey; Univ. Wis., Geology Depts.*, p. 31.
- Rominger, Carl Ludwig.** 1862. True position of the so-called Waukesha limestone of Wisconsin: *Am. Jour. Sci.*, v. 34 (2) p. 136.
- 1881. Menominee iron region: *Geol. Survey of Michigan*, v. 4, pt. 2, p. 208-241.
— 1895. Upper Peninsula of Michigan, iron and copper regions: *Geol. Survey of Michigan*, v. 5, pt. 1, p. 53-56.
- Rooney, W.J.** *see* Hotchkiss, William Otis
- Rose, Gordon D.** *see* Shariff, Ismail
- Rose, James.** *see* Cherkauer, Douglas S.
- Roshardt, Mary A.** *see* Dott, Robert H., Jr.
- Ross, Clarence Samuel.** *see also* Savage, Thomas Edmund
Ross, Clarence Samuel; Shannon, Earl V. 1926. The minerals of bentonite and related clays and their physical properties: *Am. Ceramic Soc., Jour.*, v. 9, no. 2, p. 77-96, illus.
- Rossmann, Ronald (and others).** 1972. Inter-element geochemistry of Lake Michigan ferromanganese nodules: *Internat. Assoc. Great Lakes Research*, 24th IGC, sec. 10, contrib. no. 142.
- Rossmann, Ronald.** *see also* Bowser, Carl J.
— *see also* Callender, Edward
— 1972. Elemental sources and sinks associated with two rivers entering Green Bay, Lake Michigan: *Internat. Assoc. Great Lakes Research*, 15th Conf., Proc., p. 62.
- Rossmann, Ronald; Callender, Edward.** 1968. Manganese nodules in Lake Michigan: *Science*, v. 162, no. 3858, p. 1123-1124, illus., table.
— 1969. Geochemistry of Lake Michigan manganese nodules: *Internat. Assoc. Great Lakes Research*, 12th Conf., Proc., p. 306-316, illus., tables.
- Rostvedt, J.O.** 1965. Summary of floods in the United States during 1960: U.S.G.S., Water-Supply Paper 1790-B, p. 27-28, 53-57, 98, map.
- Roth, Fillibert.** 1898. On the forestry conditions of northern Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 1 (econ. ser. 1) 78 p., map; U.S.D.A., Bull. 16, 1898.
- Rothwell, Bret.** *see* Stieglitz, Ronald D.
- Roubal, Ronald K.** *see also* Bannick, Donald A.
- Roubal, Ronald K.; Horton, Joseph W.; Bannick, Donald A.** 1974. Sediments-logical and water quality characteristics of northern Wisconsin rivers tributary to Lake Superior: *Hamilton, Ontario, Internat. Assoc. Great Lakes Research*, 17th Conf., p. 188-189.
- Roy, Edward Carl, Jr.** 1963. Checklist of Pleistocene and living mollusca of Wisconsin: *Sterkiana*, no. 10, p. 5-21.
— 1964. Pleistocene non-marine mollusca of northeastern Wisconsin: *Sterkiana*, no. 15, p. 5-77, illus., tables.
— 1965. Pleistocene non-marine mollusca of northeastern Wisconsin (abs.): *Dissert. Abs.*, v. 25, no. 12, pt. 1, p. 7206.
- Royce, J.** 1960. The occurrence of carbonates other than iron at depth in Lake Superior iron formations (abs.) in *Inst. Lake Superior Geology*, 6th Ann., 1960: *Madison, Univ. Wis., Dept. Geology; Wis. Geol. and Nat. History Survey*, p. 29.
- Royce, Stephen.** 1925. Certain advances in geological information relative to the Lake Superior iron deposits: *Lake Superior Min. Inst., 24th Ann. Mtg., Proc.*, v. 24, p. 149-181.
— 1936. Geology of the Lake Superior iron deposits: *Lake Superior Min. Inst., Proc.*, v. 29, p. 68-107; *Mining Cong. Jour.*, v. 22, no. 3, p. 16-30, 41, illus.
— 1938. Geology of the iron ranges; the influence of geological conditions on mining practice in Lake Superior iron ores: *Cleveland, Lake Superior Iron Assoc.*, p. 27-61, illus.
- Rubin, Meyer.** *see* Black, Robert Foster

- Ruch, R.R.** see Kennedy, E. Joyce
— see Kim, Stephen M.
- Ruedemann, Rudolf.** 1933. The Cambrian of the upper Mississippi Valley, pt. 3, graptolitoidea: Milwaukee Pub. Museum, Bull. v. 12, no. 3, p. 307-348, illus.
- Ruedemann, Rudolf; Shrock, Robert R.** 1939. A new Wisconsin Upper Cambrian foraminifera: Am. Jour. Sci., v. 237, no. 1, p. 66-71, illus.
- Ruggles, Daniel.** 1836. Geological and miscellaneous notice of the region around Fort Winnebago, Michigan Territory: Am. Jour. Sci., v. 30, p. 1-8.
— 1843. On the tides of the North American lakes, with observations at Green Bay: Am. Jour. Sci., v. 45, p. 18-27, illus.
- Ruotsala, A.P.** 1974. Composition and tectonic setting of middle Precambrian lavas, Crystal Falls area, Michigan (abs.) in Inst. Lake Superior Geology, 20th Ann., 1974, Abs. and Field Guides: Sault Ste. Marie, Ontario, Sault College Applied Arts and Tech., p. 28.
- Russell, Israel Cook.** 1905. The influence of caverns on topography: Science, v. 21 (n.s) p. 30-32.
— 1907. Surface geology of portions of Menominee, Dickinson, and Iron Counties, Michigan: Mich. Geol. Survey, Ann. Rpt., 1906, p. 7-91, illus.
- Rust, R.H.** see Foss, J.E.
- Ryling, Roy W.** 1961. A preliminary study of the distribution of saline water in the bedrock aquifers of eastern Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ. 5, 23 p., illus., tables.
- Sager, P.E.** see Stewart, K.M.
- Saint John, John R.** 1846. True description of the Lake Superior Country; its rivers, coasts, bays, harbours, islands, and commerce: New York, William H. Graham, p. 42-52, illus., maps.
- Salem, Mohammad Zarif.** 1970. Characteristics, genesis and classification of some soils of Afghanistan and a study of ant pedoturbation in a Wisconsin forest soil (abs.): Dissert. Abs. Internat., sec. B, v. 31, no. 2, p. 470B-471B.
- Salisbury, Rollin Duer.** see also Chamberlin, Thomas Crowder
— 1883. Chemical analysis in Geology of Wisconsin: Wis. Geol. Survey, v. 1, pt. 2, chap. 1, p. 303-308.
— 1884a. Geology, soil, vegetation, zoology, mines, quarries, and mineral springs of Wisconsin: Descriptive America, v. 1, p. 109-116.
— 1884b. On the Driftless Area: Descriptive America, v. 1, p. 109; Wis. Acad. Sci., Arts, and Letters, Trans., v. 6, p. 48, 1885.
— 1885a. Columnar structure in subaqueous clay: Science, v. 5, no. 114, p. 287.
— 1885b. Notes on the dispersion of drift copper: Wis. Acad. Sci., Arts, and Letters, Trans., v. 6, p. 42-50, map.
— 1891. On the northward and eastward extension of pre-Pleistocene gravels in the basin of the Mississippi: Am. Geologist, v. 8, p. 195, 238; (abs.) G.S.A., Bull., v. 3, p. 183-186, 1892.
— 1894. A phase of superglacial drift (abs.): Am. Assoc. Adv. Sci., Proc., v. 42, p. 180.
— 1895. Preglacial gravels on the quartzite range near Baraboo, Wisconsin: Jour. Geol., v. 3, no. 6, p. 655-667.
— 1896. Loess in the Wisconsin drift formation: Jour. Geol., v. 4, p. 929-937.
— 1900. Wisconsin description and travel: Madison, Wisconsin, 151 p.
- Salisbury, Rollin Duer; Atwood, Wallace W.** 1897. Drift phenomena in the vicinity of Devil's Lake and Baraboo, Wisconsin: Jour. Geol., v. 5, p. 131-147, maps.
— 1900. The geography of the region about Devil's Lake and the Dalles of the Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 5 (ed. ser. 1) 151 p., illus.
- Salotti, C.A.** see Meddaugh, W.S.
— see Peltonen, D.R.
- Sandberg, Walt.** 1972. Good hunting in the Badger State, rockhounding Wisconsin for Ice Age treasures: Rock and Gem, January, p. 60-63.
- Sander, Phil.** 1962. A buried forest in Kenosha County: Wis. Academy Review, v. 9, no. 2, p. 49-51, illus.
- Sanders, J.E.** see Kumar, Naresh
- Sanford, Samuel.** see Fuller, Myron L.
- Sanker, Narayan P.V.** 1963. Strings of magnetic anomalies with exponentially decreasing amplitudes observed in Kansas and Wisconsin, U.S.A.: (India) Natl. Geophys. Research Inst., Bull., v. 1, no. 1, p. 17-24, illus.
- Sardeson, Frederick William.** see also Hall, Christopher Webber
— see also Leverett, Frank
— 1892. The lower Silurian formations of Wisconsin and Minnesota compared (abs.): Univ. Minn., Quart. Geol. Bull., v. 1, p. 29.
— 1896a. The fauna of the Magnesian series: Minn. Acad. Nat. Sci., Bull., v. 4, p. 92-105, illus.
— 1896b. The Galena and Maquoketa series: Am. Geologist, v. 18, p. 346-368; v. 19, p. 21-35, 91-111, 180-190, illus., 1897.
— 1896c. The St. Peter sandstone: Minn. Acad. Nat. Sci., Bull., v. 4, no. 1, p. 64-88, illus., (abs.) Univ. Minn., Quart. Bull., v. 1, p. 29-30, 1892.
— 1897a. Nomenclature of the Galena and Maquoketa series: Am. Geologist, v. 19, no. 5, p. 330-336.
— 1897b. On glacial deposits in the Driftless Area: Am. Geologist, v. 20, p. 392-403.
— 1897c. On Streptelasma profundum (Owen) S. coniculum Hall: Am. Geologist, v. 20, no. 5, p. 277-292, illus.
— 1898. Intraformational conglomerates in the Galena series: Am. Geologist, v. 22, p. 315-323.
— 1901a. The lower Silurian formations of Wisconsin and Minnesota compared: Minn. Acad. Nat. Sci., Bull., v. 3, p. 319-326.
— 1901b. Paleozoic fossils in the drift: Minn. Acad. Nat. Sci., Bull., v. 3, p. 317-318.
— 1902. On the deceptive fossilization of certain pelecypod species and on the genus Eurymaa: Am. Geologist, v. 30, no. 1, p. 39-45, illus.
— 1907. Galena series: G.S.A., Bull., v. 18, p. 179-194; (abs.) Science, v. 25, (n.s) p. 771.
— 1926a. Beloit Formation and bentonite: Pan-Am. Geologist, v. 45, no. 5, p. 383-392, illus.; v. 46, no. 1, p. 11-24, illus.
— 1926b. Peter sandstones and its buttes: Pan-Am. Geologist, v. 45, no. 3, p. 211-224.
— 1926c. Shakopee dolomite and its cone-dones: Pan-Am. Geologist, v. 45, no. 1, p. 29-48.
— 1927. Shore-line of Galena seas: Pan-Am. Geologist, v. 47, no. 5, p. 331-342.
— 1928. Bentonite seams in stratigraphic correlation: Pan-Am. Geologist, v. 50, p. 107-116.
— 1932. Fauna of the Jordan sandstone: Pan-Am. Geologist, v. 58, no. 2, p. 103-106.
— 1933. Stratigraphic affinities of Glenwood shales: Pan-Am. Geologist, v. 60, no. 2, p. 81-90.
— 1934. Shakopee Formation: Pan-Am. Geologist, v. 62, no. 1, p. 29-34.
- 1936a. Cambric of upper Mississippi region: Pan-Am. Geologist, v. 65, no. 5, p. 339-347.
— 1936b. Pleistocene St. Croix River: Pan-Am. Geologist, v. 65, p. 189-208.
— 1937. Stromatotrypatto Pachydictya and allies: Pan-Am. Geologist, v. 67, no. 1, p. 19-30, illus.; no. 2, p. 99-107.
— 1940. Dolomitization and ore genesis of Galena limestone: Pan-Am. Geologist, v. 73, no. 3, p. 193-202.
- Sartz, Richard S.** 1967. Winter thaws can raise ground-water levels in Driftless Area: St. Paul, Minn., U.S. Forest Service, Northcentral Forest-Exp. Station, Research Note NC-35, 2 p.
— 1970. Effect of land use on the hydrology of small watersheds in south-western Wisconsin in Symposium on the results of research on representative and experimental basins: Internat. Assoc. Sci. Hydrol., Pub. no. 96, p. 286-295, illus.
— 1976. Sediment yields from steep lands in the Driftless Area: Fed. Inter-Agency Sediment Conf., Proc., no. 3, p. 1.123-1.131, illus., tables.
— 1977. Soil erosion in the Lake States Driftless Area, a historical perspective: Wis. Acad. Sci., Arts, and Letters, Trans., v. 65, p. 5-15.
- Sartz, Richard S.; Curtis, Willie R.; Tolsted, D.N.** 1977. Hydrology of small watersheds in Wisconsin's driftless area: Water Resources Res., v. 13, no. 3, p. 524-530, illus., map.
- Sather, LaVerne M.** see also Blackman, Robbin R.
— see also Haanpaa, Dennis G.
— see also Johannes, S.I.
- Sather, LaVerne M.; Johannes, S.I.; Threinen, C.W.** 1971. Surface water resources of Rusk County: Wis. Dept. Nat. Resources, Lake and stream classification project, 97 p., tables, maps.
- Sather, LaVerne M.; Threinen, C.W.** 1961a. Surface water resources of Polk County: Wis. Cons. Dept., Lake and stream classification project, 145 p., tables, maps.
— 1961b. Surface water resources of St. Croix County: Wis. Cons. Dept., Lake and stream classification project, 51 p., tables, maps.
— 1962. Surface water resources of Dunn Co., Wisconsin: Wis. Cons. Dept., Lake and stream classification project, 49 p., tables, maps.
— 1963. Surface water resources of Chippewa Co., Wisconsin: Wis. Cons. Dept., Lake and stream classification project, 154 p., tables, maps.
— 1964a. Surface water resources of Barron County: Wis. Cons. Dept., Lake and stream classification project, 135 p., tables, maps.
— 1964b. Surface water resources of Eau Claire Co., Wisconsin: Wis. Cons. Dept., Lake and stream classification project, 61 p., tables, maps.
— 1966. Surface water resources of Ashland County: Wis. Cons. Dept., Lake and stream classification project, 127 p., tables, map.
— 1968. Surface water resources of Sawyer County: Wis. Dept. Nat. Resources, Lake and stream classification project, 214 p., tables, maps.
- Sauvage, E.** 1875. Notice sur les minerais de fer du Lac Supérieur: Annales des Mines, v. 8 (7) p. 1-35, illus.
- Savage, Thomas Edmund.** 1915. Alexandrian rocks of northeastern Illinois and eastern Wisconsin (abs.): G.S.A., Bull., v. 26, p. 95.
— 1916. Alexandrian rocks of northeastern Illinois and eastern Wisconsin: G.S.A., Bull., v. 27, p. 305-324.
- Savage, Thomas Edmund; Ross, Clarence Samuel.** 1916. The age of the iron ore in eastern Wisconsin: Am. Jour. Sci., v. 41 (4) p. 187-193.

- Sawkins, F.J.** 1968. The significance of Na/K and C1/SO4 ratios in fluid inclusions and subsurface waters, with respect to the genesis of Mississippi Valley-type ore deposits: *Econ. Geology*, v. 63, no. 8, p. 935-942.
- Sawyer, Clair N.** *see* Lenz, Arno T.
- Sayre, A.N. (and others).** 1947-57. Water levels and artesian pressures in observation wells in the U.S., 1944-55: U.S.G.S., Water-Supply Papers 1018, 1025, 1073, 1098, 1128, 1158, 1167, 1193, 1223, 1267, 1323, and 1406, pt. 3.
- Scanlan, Peter Lawrence.** 1937. *Prairie du Chien*: Menasha, Wis., George Banta Publishing Co., p. 213-218.
- Schaefer, F.T.** 1958. Some observations on lake level trends in southeastern Wisconsin: *Wis. Academy Review*, v. 5, no. 4, p. 145-148.
- Schafer, Joseph.** 1932. The Wisconsin lead region: *Wis. Hist. Soc., Wis. Domesday Book, General studies v. III*, 341 p., illus.
- Schafer, Paul Abbott.** 1932. Origin of the Wisconsin lead and zinc deposits: *Wis. State Hist. Soc., Wisconsin Domesday Book, General studies, v. III*, p. 256-266.
- Schaiowitz, M.** *see* Hendrix, Thomas Eugene
- Schlatter, Janet M.** 1964. Glens and hollows: *Wis. Tales and Trails*, v. 5, no. 1, p. 27-31.
- Schlundt, Herman.** 1910. The radioactivity of some spring waters at Madison, Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 16, pt. 2, no. 5, p. 1245-1251, tables.
- Schmidt, R.G.** 1976. Geology of the Precambrian W (Lower Precambrian) rocks in western Gogebic County, Michigan: U.S.G.S., Bull. 1407, 40 p., map.
- Schmidt, R.G.; Hubbard, Harold A.** 1972. Penokean orogeny in the central and western Gogebic region, Michigan and Wisconsin: *in* Inst. Lake Superior Geology, Guidebook 1, 18th Ann., Abs. and Field Guides: Houghton, Mich. Tech. Univ., p. A1-A27.
- Schmude, Keith O.** *see also* Hole, Francis D.
- 1971. Soil survey of Washington Co., Wisconsin: U.S.D.A., Soil Conservation Service, 105 p., illus., maps.
- Schnabel, Robert Wayne.** 1955. The uranium deposits of the United States: U.S.G.S., Mineral Inv. Res. Appraisals Map, MR 2, scale, 1:5,000,000, text.
- Schneider, William J.** 1968. Water data for metropolitan areas: U.S.G.S., Water-Supply Paper 1871, p. 389-397.
- Schnetzler, C.C.** *see* Bottino, M.L.
- Schoolcraft, Henry Rowe.** *see also* Allen, James
- 1821a. Account of native copper on the southern shore of Lake Superior: *Am. Jour. Sci.*, v. 3, p. 201-216.
- 1821b. Narrative journal of travels through the Northwestern regions of the U.S., extending from Detroit through the great chain of American lakes to the sources of the Mississippi River, performed as a member of the expedition under Cass, in 1820: Albany, p. 191-204, 321-383, illus., map.
- 1834. Exploration of the St. Croix and Burntwood (or Brule) Rivers, narrative of an expedition through the upper Mississippi to Itasca Lake, the actual source of the river, embracing an exploratory trip through the St. Croix and Burntwood (or Brule) Rivers in 1832: New York, p. 123-144, 157-159, 294-307, maps.
- 1842. On the production of sand storms and lacustrine beds, by causes associated with the North American lakes: *British Assoc., Report*, v. 12, Trans. of sections, p. 42-44; (abs.) *Am. Jour. Sci.*, v. 44, p. 368-370, 1843.
- 1851. Personal memoirs of a residence of thirty years with the Indian tribes on the American frontiers; with brief notices of passing events, facts, and opinions, A.D. 1812 to A.D. 1842: Philadelphia, Lippincott, Grambo, and Co., p. 352-396.
- 1855. Summary narrative of an exploratory expedition to the source of the Mississippi River in 1820; resumed and completed by the discovery of its origin in Itasca Lake in 1832: Philadelphia, 588 p.
- Schriver, G.** *see* Mursky, G.
- Schubring, Selma Langenhan.** 1926. A statistical study of lead and zinc mining in Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 22, p. 9-98, illus.
- Schuchert, Charles (ed.)** 1943. *Wisconsin in Stratigraphy of the eastern and central United States*: New York, Wiley and Sons, pt. 6, chap. 26, p. 730-75, illus.
- Schuchert, Charles.** *see also* Winchell, Newton Horace
- Schultz, Alfred Reginald.** *see also* Weidman, Samuel
- 1905. (Underground waters of) Wisconsin district: *in* Fuller, M.L., *Underground water of the eastern United States*: U.S.G.S., Water-Supply Paper 114, p. 233-241.
- 1907. Some observations on the movements of underground water in confined basins: *Jour. Geol.*, v. 15, no. 2, p. 170-181, tables.
- Schumacher, D.** 1971. Devonian biostratigraphy in Conodonts and biostratigraphy of the Wisconsin Paleozoic: *Wis. Geol. and Nat. History Survey, Inf. Circ.* 19, p. 55-77.
- Schuon, S.R.** 1976. Dolomitization of carbonate muds, Ordovician and Pliopleistocene (abs.): G.S.A., Abs. with Programs, v. 8, no. 6, p. 1091.
- Schwartz, G. Frederick.** 1903. The diminished flow of the Rock River in Wisconsin and Illinois, and its relation to the surrounding forests: U.S.D.A., Bur. Forestry, Bull. 44, 27 p., illus.
- Schwartz, George Melvin (ed.)** 1956. Guidebook for field trips: G.S.A., 69th Ann. Mtg., 472 p., illus.
- Schwartz, George Melvin.** *see also* Bath, Gordon D.
- *see also* Stauffer, Clinton Raymond
- Schweger, Charles Earl.** 1969. Pollen analysis of Iola Bog and paleoecology of the Two Creeks Forest bed, Wisconsin: *Ecology*, v. 50, no. 5, p. 859-868, illus.; (abs.) *Abs. North Am. Geol.*, p. 1275, August 1970.
- Schwenk, Carl G.** 1977. Discovery of the Flambeau deposit, Rusk Co., Wisconsin: *in* *Geoscience Wisconsin*: *Wis. Geol. and Nat. History Survey*, v. 1, p. 27-42; (abs.) *Econ. Geology*, v. 71, no. 3, p. 702, 1976.
- Scotfield, W.H.** *see* Ulrich, Edward Oscar
- Scott, E.R.** *see also* Behre, Charles Henry, Jr.
- Scott, E.R.; Behre, Charles Henry, Jr.** 1934. Structural control of ore deposition in the Wisconsin-Illinois lead-zinc district (abs.): *Ill. Acad. Sci., Trans.*, v. 27, no. 2, p. 117.
- Scott, Gertrude.** 1962. The mysterious monument: *Wis. Academy Review*, v. 9, no. 3, p. 97-99, illus.
- Scott, Irving Day.** 1914. The spacing of fracture systems and its influence on the relief of the land: *Beitrag zur Geophysik*, v. 13, p. 163-181, 241-260.
- Scott, Robert Clyde; Barker, Franklin Butt.** 1962. Data on uranium and radium in ground water in the United States, 1954-1957: U.S.G.S., Prof. Paper 426, p. 112-113, table.
- Sears, C.B.** *see* Krey, J.
- Seeger, Lawrence P.** *see* Oakes, Edward L.
- Seeland, David A.** 1969. Cambrian winds of the north-central and northeast United States (abs.): G.S.A., Abs. with Programs, pt. 7, p. 203-204.
- 1973. A geochemical reconnaissance for gold in the sedimentary rocks of the Great Lakes region, Minnesota to New York: U.S.G.S., Bull. 1305, 16 p.
- Setterquist, T.** *see* Meloche, V.W.
- Shacklette, Hansford T. (and others).** 1971. Elemental composition of surficial materials in the conterminous United States: U.S.G.S., Prof. Paper 574-D, 71 p., illus.
- Shacklette, Hansford T.; Cuthbert, Margaret E.** 1967. Iodine content of plant groups as influenced by variation in rock and soil type: *in* *Relation of geology and trace elements to nutrition*: G.S.A., Sp. Paper, no. 90, p. 31-46, illus.
- Shaler, Nathaniel S.** 1893. The geological history of harbors: U.S.G.S., 13th Ann. Rpt., pt. 2, p. 203.
- Shannon, Earl V.** *see* Ross, Clarence Samuel
- Shariff, Ismail; Rose, Gordon D.** 1966. The nature and extent of irrigation in Wisconsin: *Univ. Wis., Econ. Research Service*, 29 p., tables, map.
- Shaw, James.** 1873. On the Driftless Area: *Geol. Survey Illinois*, v. 5, p. 4-5, 30-33; *Econ. Geology of Illinois*, v. 3, p. 25-28, 1882.
- Shea, John D.G.** 1853. Discovery and exploration of Mississippi Valley with the original narratives of Marquette, Allouez, Membre, Hennepin, and Anastase Douay: New York, Redfield, 267 p., map.
- Shearman, James O.** 1970. Floods on Rock River in northern Rock Co., Wisconsin: U.S.G.S., Hydro. Inv. Atlas, HA-393, scale 1:16,000, text.
- Shearman, James O.; Holmstrom, Barry K.** 1971a. Floods of Rock River in northeastern Jefferson Co., Wisconsin: U.S.G.S., Hydro. Inv. Atlas, HA-394, scale 1:24,000, text.
- 1971b. Floods on Rock River in southwestern Jefferson Co., Wisconsin: U.S.G.S., Hydro. Inv. Atlas, HA-413, scale 1:24,000, text.
- Sheerar, Lewis L.** 1948. A progress report on hydrologic research in the Wisconsin River Valley: *West Snow Conf., Proc.*, p. 77-81, charts.
- 1963. Model for river regulation: *Am. Soc. Civ. Eng., Jour., Waterways and Harbours Div.*, v. 89, no. WW 4, p. 13-27, illus.
- Sheldon, J.P.** 1838. On the mining country in Wisconsin: U.S., 25th Cong., 2d Sess., Sen. Doc. 411, serial no. 318, 14 p.
- Shelton, S.M.** *see* Engel, A.L.
- Shepard, Francis P.** 1937. Origin of the Great Lakes basins: *Jour. Geol.*, v. 45, no. 1, p. 76-88, maps; *Smithsonian Inst., Ann. Rpt.* 1937, pub. 3451, p. 269-277, maps, 1938; (abs.) *Ill. Acad. Sci., Trans.*, v. 25, no. 4, p. 152, 1933.
- Shepherd, George Frederick.** 1931. The significance of Van Hise Rock (in Baraboo River, near Ableman, Wis.): *Rocks and Minerals*, v. 6, no. 4, p. 172-174, illus.
- Sherman, L.K.** 1935. Inventory of the water resources of the Great Lakes, St. Lawrence River and Red River of the north drainage area: U.S. Natl. Resources Com. Rpt., 48 p., maps.
- Sherrill, Marvin G.** *see also* Bell, Edward A.
- 1975. Ground-water contamination in the Silurian dolomite of Door Co., Wisconsin: *Ground Water*, v. 13, no. 2 (sp. issue) p. 209-213, illus., maps.
- Sherrill, R.D.** *see* Kuroda, P.K.
- Shimer, Hervey W.** *see* Grabau, Amadeus W.
- Shimp, N.F.** *see* Kennedy, E. Joyce
- Shipton, W.D.** 1915. The occurrence of barite in the lead and zinc district of Iowa, Illinois, and Wisconsin: *Iowa Acad. Sci., Proc.*, v. 22, p. 237-239.
- 1916a. A new stratigraphic horizon in the Cambrian system of Wisconsin: *Iowa Acad. Sci., Proc.*, v. 23, p. 142-145.
- 1916b. A note on fulgurites from Sparta, Wisconsin: *Iowa Acad. Sci., Proc.*, v. 23, p. 141.

- Shoemaker, R.S.; Harris, D.L.** 1955. Quantitative use of X-ray diffraction for analysis of iron oxides in Gogebic taconite of Wisconsin: *Mining Eng.*, v. 7, no. 5, p. 476-480, illus.; A.I.M.E., Trans., 1955, v. 202, 1956.
- Shrock, Robert R.** *see also* Cummings, Edgar R.
- *see also* Ruedemann, Rudolf
 - 1935a. Insoluble residues from Wisconsin sedimentary rocks, pt. 1, insoluble residues as an aid in the study of sedimentary rocks: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 29, p. 257-260, illus.
 - 1935b. Silurian geology of Wisconsin (abs.): G.S.A., Proc., 1934, p. 107-108.
 - 1939a. Geological aspects of Washington Island, Wisconsin (abs.): G.S.A., Bull., v. 50, no. 12, pt. 2, p. 2009-2010.
 - 1939b. Wisconsin Silurian bioherms (organic reefs): G.S.A., Bull., v. 50, no. 4, p. 529-562, maps; (abs.) v. 49, no. 12, pt. 2, p. 1922, 1938.
 - 1940a. Geology of Washington Island and its neighbors, Door Co., Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 32, p. 199-227, illus., maps.
 - 1940b. Rectangular mud cracks (Wis.): *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 32, p. 229-232, illus.
- Shukla, S.S. (and others).** 1971. Sorption of inorganic phosphate by lake sediments: *Soil Sci. Soc. Am., Proc.*, v. 35, no. 2, p. 244-249, illus., tables.
- Shumard, Benjamin Franklin.** 1852. Geological report of local, detailed observations in the valleys of Minnesota, Mississippi, and Wisconsin rivers... *In* Owen, D.D., Report of a geological survey of Wisconsin, Iowa, and Minnesota...: Philadelphia, p. 477-531.
- 1863. Notice of some new and imperfectly known fossils from the Primordial zone (Potsdam sandstone and calciferous sand group) of Wisconsin and Missouri: *Acad. Sci. St. Louis, Trans.*, v. 2, p. 101-107.
- Shumard, Benjamin Franklin; Owen, David Dale.** 1851. On the number and distribution of fossil species in the Paleozoic rocks of Iowa, Wisconsin and Minnesota: *Am. Assoc. Adv. Sci., Proc.*, v. 5, p. 235-239.
- Sieber, T.G.; Teimann, T.D.** 1968. Formation of artificial acmite above 500 degrees F. during the extraction of silica from Wisconsin Gogebic taconite by digestion in sodium hydroxide solutions: *Society of Mining Engineers, Trans.*, p. 192-194.
- Siegfried, R.W.** *see* Richter, D.
- Sikich, Matthew G.** 1958. The mineral industry of Wisconsin, 1955: U.S. Bur. Mines, Minerals Yearbook, 1955, v. 3, Area reports, p. 1183-1200, tables.
- Silver, L.T.; Green, J.C.** 1972. Time constants for Keweenaw igneous activity (abs.): G.S.A., Abs. with Programs, v. 4, no. 7, p. 665-666.
- Silver, L.T.; Green, John C.** 1963. Zircon ages for Middle Keweenaw rocks of the Lake Superior region (abs.): *Am. Geophys. Union, Trans.*, v. 44, p. 107.
- Simmons, G.** *see also* Richter, D.
- Simmons, G. (and others).** 1976. Microcracks in GT-2 core (abs.): *EOS (Am. Geophys. Union Trans.)*, v. 57, no. 4, p. 327.
- Sims, P.K.** 1976a. Early Precambrian rocks in north-central United States, a brief summary: *Geotraverse Conf., Proc.*, Univ. Toronto, Ontario, p. 42-44.
- 1976b. Middle Precambrian age of volcanogenic massive sulfide deposits in northern Wisconsin *in* Inst. Lake Superior Geology, 22nd Ann. Abs. and Field Guides: St. Paul, Minn. Geol. Survey, p. 57.
 - 1976c. The Penokean fold belt in Lake Superior region, an intracratonic Precambrian mobile belt: G.S.A., Abs. with Programs, v. 8, no. 6, p. 1109.
 - 1976d. Presidential address—Precambrian tectonics and mineral deposits, Lake Superior Region: *Econ. Geology*, v. 71, no. 6, p. 1092-1118.
- Sims, P.K.; Peterman, Z.E.** 1976. Geology and Rb-Sr ages of reactivated Precambrian gneisses and granite in the Marenisco-Watersmeet area, northern Michigan: U.S.G.S., *Jour. Research*, v. 4, no. 4, p. 405-414.
- 1978. Precambrian geologic framework of northern Wisconsin (abs.) *in* Inst. Lake Superior Geology, 24th Ann., 1978, Abs. and Proc.: Univ. Wis., Milwaukee, p. 35.
- Sims, P.K.; Peterman, Z.E.; Prinz, William C.** 1977. Geology and Rb-Sr age of Precambrian W Puritan quartz monzonite, northern Michigan: U.S.G.S., *Jour. Research*, v. 5, no. 2, p. 185-192.
- Sims, P.K.; Zietz, Isidore.** 1967. Aeromagnetic and inferred Precambrian paleogeologic map of east-central Minnesota and part of Wisconsin: U.S.G.S., *Geophys. Inv. Map GP-563*, scale 1:250,000, separate text.
- Skillings, David N., Jr.** 1970. Jackson County Iron Company: *Skillings' Mining Review*, v. 59, no. 24, p. 1, 10-14, illus.
- Skinner, Earl L.** *see also* Hindall, Stephen M.
- *see also* Holt, Charles Lee Roy, Jr.
 - *see also* Young, Harley L.
- Skinner, Earl L.; Borman, Ronald G.** 1973. Water resources of Wisconsin-Lake Michigan basin: U.S.G.S., *Hydro. Inv. Atlas, HA-432*, scale 1:1,000,000, 4 sheets.
- Skinner, F.S.** 1922. Survey of Fox River Wisconsin *in* Weeks, John W., Fox River, Wisconsin: U.S., 67th Cong., 2d Sess., House Doc. 146, p. 38-62, illus.
- Slichter, Charles S.** 1902. The motions of underground waters: U.S.G.S., *Water-Supply Paper* 67, p. 16, 21, 59-60, map.
- Sloan, Robert E.** 1956. Lower Paleozoic of the upper Mississippi Valley *in* Schwartz, G.M., ed., Guidebook for field trips: G.S.A., 69th Ann. Mtg., field trip no. 2, 110 p., illus.
- Sloss, D.A. (and others).** 1967. River magnitude and frequency in the United States: U.S. Army Tank Automotive Command, Tech. rpt. no. 9784(LL116), p. 164-177, illus.
- Slota, Robert W.** 1969. Soil survey of Vernon Co., Wisconsin: U.S.D.A., Soil Conservation Service, 82 p., maps.
- Slota, Robert W.; Garvey, Glenn D.** 1961. Soil survey of Crawford Co., Wisconsin: U.S.D.A., Soil Conservation Service, no. 18 (series 1958) 85 p., maps.
- Slothower, C.E.** 1914. The Driftless Area of Wisconsin: *Jour. Geography*, v. 12, no. 8, p. 267-274, illus.
- Small, Thomas W.** 1972. Morphological properties of Driftless Area soils relative to slope aspect and position: *Prof. Geog.*, v. 24, p. 321-326.
- 1974a. Hillslope form and process in selected watersheds near Mineral Point, Wisconsin *in* Knox and Mickelson, eds., Late Quaternary environments of Wisconsin: Madison, Am. Quaternary Assoc., Third biennial mtg., p. 209-215, illus.
 - 1974b. The spatial distribution of hillslope form and process in selected Driftless Area watersheds, southwestern Wisconsin: *Dissert. Abs. Internat.*, Sec. B, v. 34, no. 10, p. 5022B-5023B.
- Smith, Eugene I.** 1975a. Chemical characteristics of the Marquette rhyolite, Green Lake Co., Wisconsin (abs.): G.S.A., Abs. with Programs, v. 7, no. 6, p. 860.
- 1975b. Mineralogy and chemistry of the Precambrian Marquette rhyolite, Green Lake County, Wisconsin *in* Inst. Lake Superior Geology, Tech. Sess. Abs. and Field Guides: Marquette, Northern Mich. Univ., p. 9.
 - 1978a. Introduction to Precambrian rocks of south-central Wisconsin *in* Geoscience Wisconsin: *Wis. Geol. and Nat. History Survey*, v. 2, p. 1-18.
 - 1978b. A new Precambrian surface contour map for south-central Wisconsin (abs.) *in* Inst. Lake Superior Geology, 24th Ann., 1978, Abs. and Proc.: Univ. Wis., Milwaukee, p. 36.
 - 1978c. Precambrian rhyolite, granite, and quartzite inliers in south-central Wisconsin *in* Inst. Lake Superior Geology, 24th Ann., 1978, Abs. and Proc.: Univ. Wis., Milwaukee, Field Trip III, p. 47.
- Smith, Eugene I.; Hartlaub, David E.** 1974. Precambrian Marquette rhyolite, Green Lake Co., Wisconsin; volcanic stratigraphy, petrography and flow direction determination: G.S.A., Abs. with Programs, v. 6, no. 6, p. 546.
- Smith, Eugene I.; Paul, Richard A.; Mudrey, Michael G., Jr., eds.** 1978. Precambrian inliers in south-central Wisconsin: *Wis. Geol. and Nat. History Survey, Field Trip Guidebook No. 2*, 89 p., illus. (prepared for 24th ann. mtg., Inst. Lake Superior Geology, May 9-14, 1978.)
- Smith, George Otis.** 1909. Reports on studies of glacial phenomena in Wisconsin: U.S.G.S., *Ann. Rpt.*, v. 30, p. 35.
- Smith, Guy-Harold.** *see also* Trewartha, Glenn T.
- 1931. Physiography of Baraboo range of Wisconsin: *Pan-Am. Geologist*, v. 56, no. 2, p. 123-140, illus.
- Smith, Harman F.** *see* Foley, Frank Clingan
- Smith, Harold Theodore Uhr.** 1949a. Periglacial features in the Driftless Area of southern Wisconsin: *Jour. Geol.*, v. 57, no. 2, p. 196-215, illus.; (abs.) G.S.A., Bull., v. 52, no. 12, pt. 2, p. 1934, 1941.
- 1949b. Physical effects of Pleistocene climatic changes in nonglaciated areas *in* Flint, R.F., Pleistocene research; a review by members of the Committee on Interrelations of Pleistocene Research, National Research Council: G.S.A., Bull., v. 60, no. 9, p. 1508, illus.
- Smith, John Lawrence.** 1869. A new meteoric iron, "the Wisconsin meteorites," with some remarks on the Widmannstättian figures: *Am. Jour. Sci.*, v. 47 (2) p. 271-272; v. 3 (3) p. 69, 1872; *Acad. Sci. Paris, Comptes Rendu* 68, p. 620-621, 1869.
- 1876. An account of a new meteoric stone that fell on the 25th of March, 1865, in Wisconsin, identical with the Meno meteorites: *Am. Jour. Sci.*, v. 12 (3) p. 207-209; *Acad. Sci. Paris, Comptes Rendu* 83, p. 161-163.
- Smith, L.A.** 1941. Deep wells in sandstone rock: *Water Works Eng.*, v. 94, p. 710-712.
- Smith, Leonard S.** 1899a. Hydrographic map of the Chain-O-Lakes: *Wis. Geol. and Nat. History Survey*, no. 5, 22" x 21", scale 6 inches = 1 mile.
- 1899b. Hydrographic map of the Delavan and Lauderdale Lakes: *Wis. Geol. and Nat. History Survey*, no. 6, 23" x 17", scale 4 inches = 1 mile.
 - 1899c. Hydrographic map of Elkhart Lake: *Wis. Geol. and Nat. History Survey*, no. 2, 16" x 13", scale 5 inches = 1 mile.
 - 1899d. Hydrographic map of Lake Beulah together with Booth and East Troy Lakes: *Wis. Geol. and Nat. History Survey*, no. 3, 23" x 20", scale 6 inches = 1 mile.
 - 1899e. Hydrographic map of Lake Geneva: *Wis. Geol. and Nat. History Survey*, no. 1, 18" x 11", scale 2 inches = 1 mile.
 - 1899f. Hydrographic map of the Oconomowoc-Waukesha Lake district: *Wis. Geol. and Nat. History Survey*, no. 4, 30" x 19", scale 2 inches = 1 mile.
 - 1900. Hydrographic map of Lake Mendota, Dane Co., Wisconsin: *Wis. Geol. and Nat. History Survey*, no. 8, 24" x 20", scale 6 inches = 1 mile.
 - 1901a. Hydrographic map of Big Cedar Lake: *Wis. Geol. and Nat. History Survey*, no. 9, 18" x 14", 2.9 inches = 1 mile.

- 1901b. Hydrographic map of Lake Monona: Wis. Geol. and Nat. History Survey, no. 10, 18" x 17", scale 4 inches = 1 mile.
- 1906. Water powers of northern Wisconsin: U.S.G.S., Water-Supply Paper 156, 145 p., illus.
- 1908. The water powers of Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 20 (econ. ser. 13) 354 p., illus.
- 1909. Wisconsin's water power resources: Wis. Engineer, v. 13, p. 273-285.
- Smith, Matthew Clair.** 1947. Copper deposits of Douglas Co., Wisconsin: U.S. Bur. Mines, Rpt. Inv. 4088, 7 p., illus.
- Smith, Raymond.** *see* Webb, William M.
- Smith, Richard.** 1914. The occurrence of oil and gas in Michigan: Mich. Geol. and Biological Survey, pub. 14 (geol. ser. 11) p. 232-233.
- Smith, S.A.** *see also* Born, S.M.
- Smith, S.A. (and others).** 1972. Lake deepening by sediment consolidation—Jyme Lake: Madison, Upper Great Lakes Reg. Comm., Inland Lake Demonstration Project, 36 p.
- Smith, S.A.** 1975. Sediment drainage and consolidation as a renewal technique in a small bog lake: Internat. Assoc. Hydrol. Sci., Stud. Rep. Hydrol., no. 19, p. 501-511, illus.
- Smith, S.G.** 1973. Ecological studies of the surface waters of the Whitewater Creek watershed, Walworth, Rock, and Jefferson Counties, Wisconsin: Univ. Wis., Water Resources Center, 75 p.
- Smith, T. Jefferson.** *see also* Steinhart, John S.
- Smith, T. Jefferson; Steinhart, John S.; Aldrich, Lyman T.** 1966. Lake Superior crustal structure: Jour. Geophys. Research, v. 71, no. 4, p. 1141-1172.
- Smith, Tom D.** *see also* Ball, Joseph R.
- Smith, Tom D.; Ball, Joseph R.** 1971. Surface water resources of Grant County: Wis. Dept. Nat. Resources, Lake and stream classification project, 93 p., maps.
- Smith, William G.** 1904. Soil survey of the Viroqua area, Wisconsin: U.S.D.A., Bur. Soils, Field operations 1903, 20 p., illus., map.
- Smosna, Richard** *see* Novak, Irwin D.
- Snyder, Frank G.** 1970. Structural lineaments and mineral deposits, eastern United States in Rausch and Mariacher, eds., AIME World Symposium on Mining and Metallurgy of Lead and Zinc: New York, Am. Inst. Mining, Metallurgical, Petroleum Eng., Inc., v. 1, chap. 3, p. 76-94.
- Soderman, Jarmo Georg William.** 1963. Petrography of algal bioherms in the Burnt Bluff Group (Silurian), Wisconsin (abs.): Dissert. Abs., v. 23, no. 11, p. 4320.
- Soderman, Jarmo Georg William; Carozzi, Albert V.** 1963. Petrography of algal bioherms in Burnt Bluff Group (Silurian), Wisconsin: Am. Assoc. Pet. Geol., Bull., v. 47, no. 9, p. 1682-1708, illus., tables.
- Somers, Lee H.** 1968. A research dive in the Great Lakes: Limnos, v. 1, no. 2, p. 2-5.
- Somers, Lee H.; Josephson, Paul D.** 1968. Bottom sediments of southwestern Lake Michigan: Inter. Assoc. Great Lakes Research, 11th Conf. Proc., p. 245-252, illus., table.
- Soule, Gary** *see* Hennings, Keven
- Southeastern Wisconsin Regional Planning Commission.** 1963. The natural resources of southeastern Wisconsin: SEWRPC, Planning Rpt. 5, 161 p., tables, maps.
- 1966a. A comprehensive plan for the Root River watershed: SEWRPC, Planning Rpt. 9, 286 p., tables, maps.
- 1966b. Milwaukee River watershed planning program prospectus: SEWRPC, 55 p., illus.
- 1966c. Soils of southeastern Wisconsin: SEWRPC, Planning Rpt. 8, 403 p., illus.
- 1966d. Water quality and flow of streams in southeastern Wisconsin: SEWRPC, Tech. Rpt. 4, 342 p., tables, maps.
- 1969-70. A comprehensive plan for the Fox River watershed: SEWRPC, Fox River Watershed Study, Planning Rpt. 12, v. 1-2, 445p., 497 p., tables, maps.
- 1969. Menomonee River planning program prospectus: SEWRPC, 70 p., illus., maps.
- 1970. A comprehensive plan for the Milwaukee River watershed; inventory findings and forecasts: SEWRPC, Planning Rpt. 13, v. 1, 514 p., tables, maps.
- 1971. A comprehensive plan for the Milwaukee River watershed, alternative plans and recommended plan: SEWRPC, Planning Rpt. 13, v. 2, 625 p., maps.
- Spencer, J.W.** 1891. Origin of the basins of the Great Lakes of America: Am. Geologist, v. 7, p. 86-97.
- 1894. Review of the history of the Great Lakes: Am. Geologist, v. 14, p. 289-301.
- Spicer, Herbert Cecil.** 1950. Investigation of bedrock depths by electrical-resistivity methods in the Ripon-Pond du Lac area, Wisconsin: U.S.G.S., Circ. 69, 37 p., illus.
- 1952. Electrical resistivity studies of subsurface conditions near Antigo, Wisconsin: U.S.G.S., Circ. 181, 19 p., illus.
- 1954. Resistivity methods applied to some ground water studies (abs.): Geophysics, v. 19, no. 3, p. 632.
- Spiroff, Kiril.** 1952. Stilbite-Mellen, Wisconsin: Rocks and minerals, v. 27, nos. 1-2, p. 60; nos. 3-4, p. 149-150.
- Spraberry, James A.** 1964. Summary of reservoir sediment deposition surveys made in the United States through 1960: U.S.D.A., Misc. Pub. no. 964, p. 19-20.
- Spurr, Josiah Edward.** 1924. Upper Mississippi lead and zinc ores: Eng. Min. Jour.-Press, v. 117, nos. 6-7, p. 246-250, 287-292, illus.
- Squier, George Hull.** 1884. Depth of the glacial submergence on the upper Mississippi: Science, v. 4, p. 160.
- 1897. Studies in the driftless region of Wisconsin: Jour. Geol., v. 5, p. 825-836; v. 6, p. 182-192, 1898; v. 7, p. 79-82, 1899.
- 1908. Peculiar local deposits on bluffs adjacent to the Mississippi: Wis. Acad. Sci., Arts, and Letters, Trans. 16, pt. 1, no. 3, p. 258-274.
- Sridharan, N.; Lee, G. Fred.** 1974. Phosphorus studies in lower Green Bay, Lake Michigan: Jour. Water Pollution Control Federation, v. 46, no. 4, p. 684-696, illus.
- Stablein, Newton Kingman, III.** 1974. Nature and origin of feldspars of the Tunnel City Group, central and southern Wisconsin: Dissert. Abs. Internat., Sec. B, v. 35, no. 6, p. 2827.
- Stablein, Newton Kingman, III; Dapples, Edward C.** 1977. Feldspars of the Tunnel City Group (Cambrian), western Wisconsin: Jour. Sed. Petrology, v. 47, no. 4, p. 1512-1538, illus., tables.
- Stabler, H.** *see* Dole, Richard B.
- Stadler, Gerald J.** *see* MacCormick, A.J.
- Stadnyk, L.** *see* Goetz, B.
- Stainbrook, Merrill Addison.** 1935. Stratigraphy of the Devonian of the upper Mississippi Valley: Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook, p. 248-260, illus.
- Stark, John T.** 1930. Pre-Cambrian water-laid tuff in the Baraboo, Wisconsin district: Jour. Geol., v. 38, no. 5, p. 466-471, illus.
- 1932. Igneous rocks in the Baraboo district, Wisconsin: Jour. Geol., v. 40, no. 2, p. 119-139, illus.
- Stauffer, Clinton Raymond.** 1925a. The Jordan sandstone: Jour. Geol., v. 33, no. 7, p. 699-713.
- 1925b. Mineralization of the Platteville-Decorah contact zone in the Twin City region: G.S.A., Bull., v. 36, no. 4, p. 615-622; (abs.) no. 1, p. 169; Pan-Am. Geologist, v. 43, no. 2, p. 158-159.
- 1927. Age of the red clastic series of Minnesota: G.S.A., Bull., v. 38, no. 3, p. 469-477; (abs.) no. 1, p. 122; Pan Am.-Geologist, v. 47, no. 2, p. 154.
- 1935. Conodonts of the Glenwood beds: G.S.A., Bull., v. 46, no. 1, p. 125-168, illus.; (abs.) G.S.A., Proc., 1933, p. 340-341, 1934.
- 1940. Fauna of the Van Oser beds (Minn.): Jour. Paleontology, v. 14, no. 1, p. 54-56, illus.
- Stauffer, Clinton Raymond; Schwartz, George Melvin; Thiel, George A.** 1939. St. Croixian classification of Minnesota: G.S.A., Bull., v. 50, no. 8, p. 1227-1243; (abs.) G.S.A., Bull., v. 49, no. 12, pt. 2, p. 1901-1902, 1938.
- Stauffer, Clinton Raymond; Thiel, George Alfred.** 1941. The Paleozoic and related rocks of southeastern Minnesota: Minn. Geol. Survey, Bull. 29, 261 p., illus.
- Stearns, Forest; Hole, Francis D.; Klopatek, Jeffrey.** 1974. Soils of the Lake Michigan drainage basin, an overview: Argonne National Lab, Environmental Status of the Lake Michigan region, v. 9, ANL/ES-40, 22 p.
- Steckley, Robert C.** 1972. Determination of paleotectonic principal stress direction, including analysis of joints by optical diffraction: U.S. Bur. Mines, Rpt. Inv. 7706, 18 p.
- Steidman, Edward.** 1910. The secondary structures of the eastern part of the Baraboo Quartzite Range, Wisconsin: Jour. Geol., v. 18, no. 3, p. 259-270, illus.
- Steidtmann, Edward.** *see also* Hotchkiss, William Otis
- 1915. Summaries of Pre-Cambrian literature of North America for 1909, 1910, 1911, and part of 1912: Jour. Geol., v. 23, nos. 1, 2, 3, 5, 6.
- 1920. Summaries of Pre-Cambrian literature of North America: Jour. Geol., v. 28, no. 6, p. 558-568.
- 1924. Limestones and marls of Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 66 (econ. ser. 22) 208 p., illus.
- 1975. Origin of dolomite as disclosed by stains and other methods in Carozzi, A.V., ed. Sedimentary rocks, concepts and history: Shoupsburg, Pa., Dowden, Hutchinson and Ross, Inc., p. 359-385, illus.
- Steingraeber, Joseph A.** *see also* Engel, Robert J.
- *see also* Parker, Dale Edward.
- Steingraeber, Joseph A.; Reynolds, Charles A.** 1971. Soil survey of Milwaukee and Waukesha Counties, Wisconsin: U.S.D.A., Soil Conservation Service, 177 p., illus., map.
- Steinhart, John S.** *see also* Meyer, Robert P.
- *see also* Smith, T. Jefferson
- 1964. Lake Superior seismic experiment—shots and travel times: Jour. Geophys. Research, v. 69, no. 24, p. 5335-5352.
- Steinhart, John S.; Meyer, Robert P.; Woollard, George P.** 1961. Wisconsin-Upper Michigan, 1958-1959 in Explosion studies of continental structure: Carnegie Inst., Pub. 622, chap. 8, p. 248-304, illus., tables.
- Steinhart, John S.; Smith, T. Jefferson, eds.** 1966a. The earth beneath the continents; a volume of geophysical studies in honor of Merle A. Tuve: Am. Geophys. Union, Geophys. Monograph 10, Natl. Acad. Sci.-Natl. Research Council Pub. 1467, p. 1-289, illus.

- Steinhart, John S.; Smith, T. Jefferson.** 1966b. Time terms and structure in western Lake Superior region in Steinhart and Smith, eds., *The earth beneath the continents*: Am. Geophys. Union, Geophys. Mon. 10, (Nat. Acad. Sci.-Natl. Research Council Pub. 1467) p. 198-204, illus.
- Stephenson, David A.** see Born, S.M.
— see Dudley, John G.
- Sterling, David A.** see Malan, Roger C.
- Sternberg, Ben K.** see also Kan, Tze-Kong
— 1975. Surveys and models of electrical conductivity anomalies in Wisconsin (abs.): EOS (Am. Geophys. Union, Trans.) v. 56, no. 9, p. 604.
- Sternberg, Ben K.; Clay, C.S.; Bentley, Charles R.** 1974. Controlled source electromagnetic soundings in northern Wisconsin (abs.): EOS (Am. Geophys. Union, Trans.) v. 55, no. 4, p. 228.
- Stewart, C.B.** 1911. Storage reservoirs at the headwaters of the Wisconsin and their relation to stream flow: Wis. State Board of Forestry, 60 p.
- Stewart, K.M.; Malueg, K.W.; Sager, P.E.** 1966. Comparative winter studies on dimictic and meromictic lakes: Internat. Assoc. Theoretical and Applied Limnology, v. 16, p. 47-57, illus.
- Stewart, Mark T.** see also Mickelson, David M.
— see also Nelson, Alan R.
— 1974. Clay minerals of a possible Sangamon soil, Little Platte River, southwestern Wisconsin in Knox and Mickelson, eds., *Late Quaternary environments of Wisconsin*: Madison, Am. Quaternary Assoc., Third biennial mtg., p. 216-219, illus.
— 1977. An integrated geologic, hydrologic and geophysical investigation of drift aquifers, western Outagamie County, Wisconsin (abs.): Dissert. Abs. Internat., Sec. B, v. 37, no. 8, p. 3829B-3830B.
- Stewart, Mark T.; Mickelson, David M.** 1974. Clay mineralogy and relative age of tills in north-central Wisconsin in Knox and Mickelson, eds., *Late Quaternary environments of Wisconsin*: Madison, Am. Quaternary Assoc., Third biennial mtg., p. 220-232, illus.
- Stickie, B.A.** 1914. The influence of the Mississippi River in the development of Wisconsin: Jour. Geography, v. 12, no. 8, p. 274-279.
- Stieglitz, Ronald D.** 1969. A study of freshwater sand grain surfaces by scanning electron microscope: Internat. Assoc. Great Lakes Research, 12th Conf., Proc., p. 351-356, illus.
- Stieglitz, Ronald D.; Rothwell, Bret.** 1972. Scanning electron microscopy of heavy minerals of Lake Michigan beach and dune sands from Terry Andrae-Kohler State Park, Wisconsin (abs.): G.S.A., Abs. with Programs, v. 4, no. 5, p. 350.
- Stirewalt, G.L.** see also Dalziel, Ian W.D.
— 1974. Dynamic analysis of natural intragranular kinks in quartz from the Baraboo Quartzite, Wisconsin, comparison with results from deformation lamellae (abs.): G.S.A., Abs. with Programs, v. 6, no. 6, p. 548.
- Stirewalt, G.L.; Dalziel, Ian W.D.** 1973. Dynamic analysis of the Baraboo syncline, Wisconsin (abs.): EOS (Am. Geophys. Union, Trans.) v. 54, no. 4, p. 457.
- Stirewalt, G.L.; Sullivan, Catherine E.** 1975. The significance of natural intragranular kink bands in the dynamic analysis of deformed quartz from the Baraboo Quartzite, Wisconsin (abs.): G.S.A., Abs. with Programs, v. 7, no. 4, p. 540-544.
- Stobbe, Helen Ruth; Murray, Elaine G.** 1956. A new occurrence of eucolite near Wausau, Marathon Co., Wisconsin: Am. Mineralogist, v. 41, nos. 11-12, p. 932-935, illus.
- Stockton, John.** 1845. Report of the Secretary of War on the condition and government of the mineral lands on Lake Superior: U.S. Land Office, Report of 1845, 22 p., maps.
- Stockwell, C.H.** 1962. A tectonic map of the Canadian shield in The tectonics of the Canadian shield: Royal Soc. Canada Sp. Pub., v. 4, p. 6-15, illus.
- Stockwell, H.O.** see Read, William Franklin
- Stoekeler, Joseph H.** 1966. Frost penetration and trafficability on silt loam soil in northern Wisconsin as affected by soil and snow treatment: North Logger Timber Processer, v. 15, no. 4, p. 18-19, 38-39.
- Stoekeler, Joseph H.; Voskuil, Glenn J.** 1959. Water-temperature reduction in shortened spring channels of southwestern Wisconsin trout streams: Am. Fisheries Soc., Trans., v. 88, no. 4, p. 286-288.
- Stonehouse, Harold B.** 1969a. The Precambrian around and under the Michigan basin in Studies of the Precambrian of the Michigan basin: East Lansing, Michigan Basin Geol. Soc., p. 15-27, maps.
— 1969b. Studies of the Precambrian of the Michigan basin: East Lansing, Michigan Basin Geol. Soc., annual field excursion, 95 p., illus., maps.
- Stratton, Charles Glen.** 1943. The older drift of Wisconsin: Scientific Monthly, v. 56, no. 1, p. 45-49, illus.
- Strauss, Eric** see Preston, John
- Strong, Moses (and others).** 1882. The quartzites of Barron and Chippewa counties in Geology of Wisconsin: Wis. Geol. Survey, v. 4, pt. 5, p. 573-581.
- Strong, Moses.** see also Chamberlin, Thomas Crowder
— 1877a. Geology and topography of the lead region in Geology of Wisconsin: Wis. Geol. Survey, v. 2, pt. 4, p. 645-752, maps (in atlas).
— 1877b. On the Driftless Area: Wis. Geol. Survey, Ann. Rpt., 1876, p. 10.
— 1880. The geology of the upper St. Croix district in Geology of Wisconsin: Wis. Geol. Survey, v. 3, pt. 6, p. 363-428, illus., map, ed. by T.C. Chamberlin.
— 1882. Geology of the Mississippi region north of the Wisconsin River in Geology of Wisconsin: Wis. Geol. Survey, v. 4, pt. 1, p. 3-98, illus.
— 1883. Lead and zinc ores in Geology of Wisconsin: Wis. Geol. Survey, v. 1, pt. 3, chap. 2, p. 637-655.
- Stuhr, S.W.; Cameron, Eugene N.** 1976. Geology of the Round Lake Intrusion Sawyer Co., Wisconsin (abs.) in Inst. Lake Superior Geology, 22d Ann., Tech. Sess. Abs. and Field Guides: St. Paul, Minn. Geol. Survey, p. 62.
- Stumm, Erwin.** 1967. "Planalveolitella"—a new genus of Devonian tabulate corals, with a redescription of "Planalveolites foughti" (Edwards and Haimé): Univ. Mich., Museum, Paleontology Contr., v. 21, no. 2, p. 67-72, illus.
- Stuntz, G.R.** 1870. On some recent geological changes in northeastern Wisconsin: Am. Assoc. Adv. Sci., Proc., v. 18, p. 205-210.
- Subramanian, V.** 1974. Origin of surface pits on quartz grains from Cambrian sandstones (abs.): Geol. Assoc. Canada-Mineralogical Assoc. Canada, Ann. mtg., program abs., p. 91.
- Suess, Hans E.** 1954. U.S.G.S. radiocarbon dates, pt. 1: Science, v. 120 (n s) no. 3117, p. 467-473.
- Sullivan, Catherine E.** see Stirewalt, G.L.
- Summers, William K.** 1962. Water temperature in a well near Wild Rose, Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., 1961, v. 50, p. 221-232, illus., table.
— 1965. Geology and ground-water resources of Waushara Co., Wisconsin: U.S.G.S., Water-Supply Paper 1809-B, p. B1-B32, illus., tables, map.
— 1972. Specific capacities of wells in crystalline rocks: Ground Water, v. 10, no. 6, p. 37-47, illus., maps.
- Sumner, John Stewart.** 1956. Geophysical studies of the Waterloo Range, Wisconsin (abs.): Dissert. Abs., v. 16, no. 4, p. 732.
- Sutherland, Joyce.** see Davis, Ronald B.
- Suttner, Lee J.** 1968. Sedimentologic hypothesis for differentiation of eskers and crevasse fillings (abs.): G.S.A., Sp. Paper 115, p. 399.
- Sutton, Arle Herbert.** 1935. Stratigraphy of the Silurian system of the upper Mississippi Valley: Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook, p. 268-280, illus., map.
- Swain, Albert M.** see Veneman, Petrus L.M., Jr.
- Swain, F.M.; Austin, G.** 1969. Summary of Precambrian, Cambrian, and Ordovician biostratigraphy of Minnesota and western Wisconsin in Shallow-water Precambrian and Paleozoic communities, Minnesota and western Wisconsin: North Am. Paleontological Convention, 1969, Chicago, Guidebook Field Trip no. 1, p. 1-22, tables.
- Swanson, R.A.** see Eubenzler, G.D.
- Swartz, Charles Kephart.** 1942. Correlation of the Silurian formations of North America: G.S.A., Bull., v. 53, no. 4, chart 3, p. 533-538, illus.
- Sweet, Edmund Theodore.** 1876a. Catalogue of the Wisconsin State mineral exhibit at Philadelphia 1876 (includes descriptions of formations) in The State of Wisconsin and a catalogue of its exhibits at the Centennial at Philadelphia, 1876: Madison, Wis., p. 1-57.
— 1876b. Notes on the geology of northern Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 3, p. 40-55.
— 1878. Report on Douglas and Bayfield Counties: Wis. Geol. Survey, Ann. Rpt., 1877, p. 4-9.
— 1880. Geology of the western Lake Superior district in Geology of Wisconsin: Wis. Geol. Survey, v. 3, pt. 5, p. 303-362, illus., maps.
- Swezey, Goodwin Deloss.** 1882. On some points in the geology of the region about Beloit, Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 5, p. 194-204.
— 1893. Evidence of two premorainic glacial movements (abs.): Nebr. Acad. Sci., Pub. 3, p. 11; Science, v. 21, no. 533, p. 216, 1893.
- Syers, J.K.** see also Jacobs, L.W.
— see also Weaver, R.M.
- Syers, J.K.; Iskandar, I.K.; Keeney, Dennis R.** 1973. Distribution and background levels of mercury in sediment cores from selected Wisconsin lakes: Water, Air and Soil Pollution, v. 2, no. 1, p. 105-118; (abs.) Geo. Abstracts, Sec. E, Sedimentology, v. 2, p. 135, 1975.
- Synowiec, A.** see Ragotzkie, Robert A.
- Takahashi, Taro.** 1960. Supergene alteration of zinc and lead deposits in limestone: Econ. Geology, v. 55, no. 6, p. 1083-1115, illus.
- Tank, Ronald W.** 1970. Ventifacts associated with the Cambrian-Precambrian unconformity at Nekoosa, Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 58, p. 147-151, illus.; (abs.) Abs. North Am. Geol., p. 116, Jan. 1971.
- Tappen, N.C.** see Peske, G. Richard
- Taylor, Alfred R.** 1964. Geology of the Rewey and Mifflin quadrangles, Wisconsin: U.S.G.S., Bull. 1123-F, p. 279-360, illus., map.
- Taylor, Arthur E.** see Geib, W.J.
- Taylor, Frank Bursley.** see also Leverett, Frank
— 1894a. A reconnaissance of the abandoned shore lines of Green Bay (Wis. and Mich.): Am. Geologist, v. 13, p. 316-327, map.
— 1894b. A reconnaissance of the abandoned shore lines of the south coast of Lake Superior: Am. Geologist, v. 13, p. 365-383, map.

- 1895. Niagara and the Great Lakes: *Am. Jour. Sci.*, v. 49 (3) p. 249-270.
- 1913. The glacial and postglacial lakes of the Great Lakes region: *Smithsonian Inst., Ann. Rpt.*, 1912, no. 2201, p. 291-327.
- 1915. History of the Great Lakes: *U.S.G.S., Mon.* 53, p. 321, 326-328, 431, 459, 460, 509, 510, illus.
- Taylor, H.** 1922. Report of the board of engineers for rivers and harbors in Weeks, John W., Fox River, Wisconsin: U.S., 67th Cong., 2d Sess., House Doc. 146, p. 9-14.
- Taylor, Robert W.** *see* Cherkauer, Douglas S.
- *see* Peltonen, D.R.
- Telmann, T.D.** *see* Sieber, T.G.
- Teller, Edgar E.** *see also* Monroe, Charles E.
- 1900. The Hamilton formation at Milwaukee, Wisconsin: *Wis. Nat. History Soc., Bull.*, v. 1 (n s) p. 47-56, illus.
- 1906. Notes of the fossil fish spine *Phlyctenacanthus telleri* Eastman: *Wis. Nat. History Soc., Bull.*, v. 4 (n s) p. 162-167, illus.
- 1910. An operculated gastropod from the Niagara Formation of Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 16, p. 1286-1288, illus.
- 1911. A synopsis of the type specimens of fossils from the Paleozoic formations of Wisconsin: *Wis. Nat. History Soc., Bull.*, v. 9, p. 170-271.
- Templeton, Justus Stevens, Jr.** 1948. Members of the Glenwood formation in northern Illinois and southern Wisconsin (abs.): *G.S.A., Bull.*, v. 59, no. 12, pt. 2, p. 1357.
- 1950. The Mt. Simon sandstone in northern Illinois: *Ill. State Acad. Sci., Trans.*, 1950, v. 43, p. 151-159, illus.; *Ill. State Geol. Survey, Circ.* 170, p. 151-159, illus., 1951.
- Tenney, H.A.** 1854. On the Driftless Area in Daniels' First annual report on the Geological Survey of the State of Wisconsin: *Madison*, p. 69-74.
- Terry, Owen W.** 1948. Churn drilling at the McIlhon zinc deposit, Iowa Co., Wisconsin: *U.S. Bur. Mines, Rpt. Inv.* 4307, 8 p., illus.
- Tester, Allen Crawford.** 1935. Isopach map of the Devonian System: *Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook*, p. 338-339, text.
- Theiler, John J.** *see* Heyl, Allen Van, Jr.
- Thein, Maung.** 1967. A petrological study of the Upper Cambrian rocks in parts of Wisconsin and Minnesota (abs.): *Dissert. Abs., Sec. B*, v. 27, no. 7, p. 2420B.
- Thiel, Edward C.** *see also* Craddock, Campbell
- 1956. Correlation of gravity anomalies with the Keweenawan geology of Wisconsin and Minnesota: *G.S.A., Bull.*, v. 67, no. 8, p. 1079-1100, illus., map.
- Thiel, George Alfred.** *see also* Stauffer, Clinton Raymond
- 1935. Sedimentary and petrographic analysis of the St. Peter Sandstone: *G.S.A., Bull.*, v. 46, no. 4, p. 559-614, illus., map.
- Thiesmeyer, Lincoln Reuber; Digman, Ralph E.** 1942. Wind-cut stones in Kansan drift of Wisconsin: *Jour. Geol.*, v. 50, no. 2, p. 174-188, illus., map.
- Thomas, B.W.** *see* Johnson, H.A.
- Thomas, Delbert D.** 1962. Soil survey of Buffalo Co., Wisconsin: *U.S.D.A., Soil Conservation Service*, no. 13 (series 1957) 103 p., maps.
- 1964. Soil Survey of Pepin Co., Wisconsin: *U.S.D.A., Soil Conservation Service*, no. 29 (series 1958) 141 p., maps.
- 1977. Soil survey of Eau Claire Co., Wisconsin: *U.S.D.A., Soil Conservation Service*, 144 p., illus., maps.
- Thomas, Harold Edgar.** 1951. The conservation of ground water: *McGraw-Hill*, p. 104, 117, 119.
- 1952. Groundwater regions of the United States—their storage facilities in The physical and economic foundation of natural resources: *U.S. Cong., House Comm. Interior and Insular Affairs*, v. 3, 78 p., illus.
- Thomas, Kirby.** 1900. Copper mining in northern Wisconsin: *Mines and Minerals*, v. 21, p. 102.
- 1902. Glacial gold in Wisconsin: *Eng. Mining Jour.*, v. 74, p. 248.
- Thompson, Carl.** *see* Whitson, Andrew Robeson
- Thompson, Daniel Q.** 1959. Biological investigation of the upper Fox River: *Wis. Cons. Dept., Special Wildlife Rpt.* no. 2, 41 p., illus., maps.
- Thomson, John W., Jr.** *see* Bean, Ernest F.
- Thorntwaite, C.W.; Mather, J.R.; Carter, D.B.** 1958. Three water balance maps of eastern North America: *Washington, D.C., Resources for the Future, Inc.*, p. 47.
- Thorpe, W.G.** 1964. Mineral resources study, Indian reservations, Minnesota and Wisconsin - Bur. Indian Affairs Contract 14-20-0650-1081, Final Rpt.: *New York, Burns and Roe*, 89 p., illus., tables.
- Threinen, C.W.** *see also* Andrews, Lloyd M.
- *see also* Ball, Joseph R.
- *see also* Black, John J.
- *see also* Blackman, Robbin R.
- *see also* Carlson, Harland
- *see also* Fassbender, Ronald L.
- *see also* Haanpaa, Dennis G.
- *see also* Johannes, S.I.
- *see also* Kernen, Lee T.
- *see also* Klick, Thomas A.
- *see also* Lloyd, Charles N.
- *see also* Piening, Ronald
- *see also* Poff, Ronald J.
- *see also* Sather, LaVerne M.
- *see also* Weber, John J.
- 1962. Wolf River watershed: *Wis. Cons. Dept.*, 55 p., tables, maps.
- Threinen, C.W.; Poff, Ronald J.** 1963. The geography of Wisconsin's trout streams: *Wis. Acad. Sci., Arts, and Letters*, v. 52, p. 57-75, illus.
- 1964. Supply and demand of surface water resources of southeastern Wisconsin: *Wis. Cons. Dept., Misc. Rpt.* 12, 48 p., illus.
- Thresher, John E.** 1973. The formation of the Pittsville (Wisconsin) migmatite in Inst. Lake Superior Geology, 19th Ann., 1973, Tech. program and abs.: *Wis. Geol. and Nat. History Survey, Univ. Wis., Geology Depts.*, p. 37.
- Thurman, E.M.** *see also* Van Schmus, W.R.
- Thurman, E.M.; Van Schmus, W.R.** 1973. Rb-Sr age of Precambrian volcanic and plutonic inliers in southeastern Wisconsin (abs.): *G.S.A., Abs. with Programs*, v. 5, no. 4, p. 358.
- Thurston, A.W.** 1923. Correlations of well drilling in northern Illinois with outcroppings of early Paleozoic beds in Wisconsin: *Ill. State Acad. Sci., Trans.*, v. 16, p. 342-346.
- Thwaites, Amy M.** 1931. Recent stream incision: *Jour. Geol.*, v. 39, no. 7, p. 653-654, illus.
- Thwaites, Fredrik Turville.** *see also* Bean, Ernest F.
- *see also* Ekern, George Lewis
- *see also* Hotchkiss, William Otis
- *see also* Howell, Jesse V.
- *see also* Twenhofel, William Henry
- 1912. Sandstones of the Wisconsin coast of Lake Superior: *Wis. Geol. and Nat. History Survey, Bull.* 25 (sci. ser. 8) 117 p., illus., map.
- 1914. Recent discoveries of Clinton iron ore in eastern Wisconsin: *U.S.G.S., Bull.* 540, p. 338-342.
- 1921. A glacial gravel seam in limestone at Ripon, Wisconsin: *Jour. Geol.*, v. 29, no. 1, p. 57-65, illus.
- 1923. The Paleozoic rocks found in deep wells in Wisconsin and northern Illinois: *Jour. Geol.*, v. 31, no. 7, p. 529-555, illus.; (abs.) *G.S.A., Bull.*, v. 34, no. 1, p. 73.
- 1926. The origin and significance of pitted outwash: *Jour. Geol.*, v. 34, no. 4, p. 308-319, illus.
- 1928a. The development of the theory of multiple glaciations in North America, the central district: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 23, p. 44-164.
- 1928b. Pre-Wisconsin terraces of the Driftless Area of Wisconsin: *G.S.A., Bull.*, v. 39, no. 2, p. 621-641, illus.; (abs.) v. 39, no. 1, p. 219; *Pan-Am. Geologist*, v. 49, no. 2, p. 148.
- 1929. Glacial geology of part of Vilas Co., Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 24, p. 109-125, illus.
- 1931a. Buried pre-Cambrian of Wisconsin: *G.S.A., Bull.*, v. 42, no. 3, p. 719-750, illus.; (abs.) no. 1, p. 218; *Pan-Am. Geologist*, v. 55, no. 4, p. 304.
- 1931b. Geologic cross section of central United States, Michigan, Wisconsin, Illinois: *Kansas Geol. Soc., 4th Ann. Field Conf., Guidebook*, p. 66-70.
- 1934a. Outline of glacial geology: *Ann Arbor, Edward Bros., Inc.*, 1st ed., 129 p., illus.
- 1934b. Well logs in the northern peninsula of Michigan showing the Cambrian section: *Mich. Acad. Sci., Arts, and Letters, Papers*, v. 19, p. 413-426, illus.
- 1935a. Physiography of the Baraboo district, Wisconsin: *Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook*, p. 395-404, illus., maps.
- 1935b. Structural map on top of the Dresbach Formation: *Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook*, p. 356.
- 1935c. Zones of mineralization of underground waters in Minnesota, Iowa, Illinois and Wisconsin: *Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook*, p. 415-416, illus., maps.
- 1937. Pleistocene of part of northeastern Wisconsin (abs.): *G.S.A., Proc.*, 1936, p. 108-109.
- 1940. Buried pre-Cambrian of Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 32, p. 233-242, illus., maps.
- 1943. Pleistocene of part of northeastern Wisconsin: *G.S.A., Bull.*, v. 54, no. 1, p. 87-144, illus., maps.
- 1949. Geomorphology of the basin of Lake Michigan: *Mich. Acad. Sci., Papers*, v. 33, p. 243-251, illus.
- 1952. Carbon 14; new approach to the glacial age: *Wis. Mag. History*, v. 35, p. 277-279.
- 1953. Northeastern Wisconsin: *Friends of the Pleistocene, Upper Midwest Div., 4th Ann., Field Guide*, 26 p., illus., maps.
- 1956. The occurrence and chemical quality of ground water in Wisconsin: *Univ. Wis., Eng. Exp. Station, rpt.* no. 8, p. 49-59, illus.

- 1957. Buried pre-Cambrian of Wisconsin: Wis. Geol. and Nat. History Survey, scale 1:2,500,000, 1 sheet.
- 1959. Landforms of the Baraboo District, Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., 1958, v. 47, p. 137-159, illus.
- 1960. Evidences of dissected erosion surfaces in the Driftless Area: Wis. Acad. Sci., Arts, and Letters, Trans., v. 49, p. 17-49; (abs.) G.S.A., Bull., v. 69, no. 12, pt. 2, p. 1653, 1958.
- 1962. The base of the St. Peter Sandstone in southwestern Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., 1961, v. 50, p. 203-219.
- Thwaites, Fredrik Turville; Bertrand, Kenneth J.** 1957. Pleistocene geology of the Door Peninsula, Wisconsin: G.S.A., Bull., v. 68, no. 7, p. 831-879, illus., maps.
- Thwaites, Fredrik Turville; Judson, S. Sheldon, Jr.** 1950. Central and eastern Wisconsin: Friends of the Pleistocene, Midwest group, 1st Ann. Field Conf., illus., maps.
- Thwaites, Fredrik Turville; Twenhofel, William Henry.** 1921. Windrow formation; an upland gravel formation of the Driftless and adjacent areas of the upper Mississippi Valley: G.S.A., Bull., v. 32, no. 2, p. 293-314, illus.; (abs.) v. 31, no. 1, p. 133, 1920.
- Thwaites, Reuben Gold.** 1895. Notes on early lead mining in the Fever or Galena River region: Wis. State Hist. Soc., Collections, v. 8, p. 271-292.
- 1902. Down historic waterways, 1890: Chicago, p. 17-293.
- Todd, James Edward.** 1882. A description of some fossil tracks from the Potsdam sandstone: Wis. Acad. Sci., Arts, and Letters, Trans., v. 5, p. 276-281, illus.
- Tolsted, D.N.** see Sartz, Richard S.
- Torrie, J.H.** see Milfred, Clarence James
- Trach, J.** see Wilde, S.A.
- Trainer, David W., Jr.** 1928. Molding sands of Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 69 (econ. ser. 23) 103 p., illus., tables.
- Tressler, Willis L.; Domogalla, B.P.** 1931. Limnological studies of Lake Wingra: Wis. Acad. Sci., Arts, and Letters, Trans., v. 26, p. 331-351.
- Trewartha, Glenn T.** 1932. The Prairie du Chien terrace; geography of a confluence site: Assoc. Am. Geographers, Annals, 1932, v. 22, p. 119-158, illus.
- Trewartha, Glenn T.; Smith, Guy-Harold.** 1941. Surface configuration of the driftless cuestasform hill land (Upper Mississippi Valley): Assoc. Am. Geographers, Annals, v. 31, no. 1, p. 25-45, illus., maps.
- Trimble, S.W.** 1975. Response of Coon Creek, Wisconsin to soil conservation measures in Zakrzewska-Borowiecki, B., ed., Landscapes of Wisconsin, a field guide: Assoc. Am. Geog., p. 24-29, illus., map.
- 1976. Sedimentation in Coon Creek Valley, Wisconsin: Fed. Inter-Agency Sediment Conf., Proc., no. 3, p. 5.100-5.112, illus., tables, maps.
- Tripp, R.P.** 1974. New encrinurid trilobites from the Galena Formation (Ordovician) of Wisconsin and Iowa: Jour. Paleontology, v. 48, no. 3, p. 484-488, illus.
- Tripp, H.M.** 1932a. Examination of the Fox River, Wisconsin: U.S., 72d Cong., 1st Sess., House Doc. 212, 24 p., map.
- 1932b. Menominee River, Michigan and Wisconsin: U.S., 72 Cong., 1st Sess., House Doc. no. 141, 107 p., tables, map.
- 1932c. Wolf River, Wisconsin: U.S., 72d Cong., 1st Sess., House Doc. 276, 104 p., tables, maps.
- Trotta, Lee C.** see also Borman, Ronald G.
- Trotta, Lee C.; Cotter, Ralph D.** 1973. Depth to bedrock in Wisconsin: Wis. Geol. and Nat. History Survey, scale 1:1,000,000.
- Trow, James.** 1978. Possibilities for uranium-gold quartz-pebble ores in the Lake Superior region in the light of a new model for Elliot Lake-Witwatersrand genesis (abs.) in Inst. Lake Superior Geology, 24th Ann., 1978, Abs. and Proc.: Milwaukee, Univ. Wis., p. 38.
- Trowbridge, Arthur Carleton.** 1915. Physiographic studies in the Driftless Area (abs.): G.S.A., Bull., v. 26, p. 76.
- 1917a. The history of Devil's Lake, Wisconsin: Jour. Geol., v. 25, p. 344-372, maps.
- 1917b. The origin of the St. Peter Sandstone: Iowa Acad. Sci., Proc., v. 24, p. 171-175.
- 1921. The erosional history of the Driftless Area: Univ. Iowa, Studies in Natural History (1) no. 40, v. 9, no. 3, 127 p., illus.
- 1934. Upper Mississippi Valley structure: G.S.A., Bull., v. 45, no. 3, p. 519-528, map; (abs.) Proc., 1933, p. 114.
- 1935a. General preliminary statement: Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook, p. 19-23.
- 1935b. Structural map on top of the Jordan Sandstone: Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook, p. 358.
- Trowbridge, Arthur Carleton; Atwater, Gordon Ingham.** 1931. Stratigraphy and structure of the upper Mississippi Valley (abs.): G.S.A., Bull., v. 42, no. 1, p. 219-220; Pan-Am. Geologist, v. 55, no. 4, p. 305.
- 1934. Stratigraphic problems in the upper Mississippi Valley: G.S.A., Bull., v. 45, no. 1, p. 21-80.
- Truax, Wayne C.** see Oehmcke, Arthur A.
- Trueman, J. Douglas.** 1912. The value of certain criteria for the determination of the origin of foliated crystalline rocks: Jour. Geol., v. 20, p. 228-258, p. 300-315.
- Truman, Harry V.** 1937. Fossil evidence of two prairie invasions of Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 30, p. 35-42, tables.
- Turner, J.M.** see Turner, Lura J.
- Turner, Lura J.; Turner, J.M.** 1898. Handbook of Wisconsin, its history and geography: Burlington, Wis., 266 p., illus., maps.
- Turner, T.** see Klasner, J.S.
- Twenhofel, William Henry (and others).** 1944. The sediments of four woodland lakes, Vilas Co., Wisconsin: Am. Jour. Sci., v. 242, no. 1, p. 19-44, illus.; no. 2, p. 85-104, illus.; (abs.) G.S.A., Bull., v. 53, no. 12, pt. 2, p. 1811, 1942.
- 1945. Sediments of Trout Lake, Wisconsin: G.S.A., Bull., v. 56, no. 12, pt. 1, p. 1099-1142, illus., maps.
- 1954. Correlation of the Ordovician formations of North America: G.S.A., Bull., v. 65, no. 3, p. 247-298, illus.
- Twenhofel, William Henry.** see also Fisher, Alfred G.
- see also Thwaites, Fredrik Turville
- see also Tyler, Stanley Allen
- see also Wanenmacher, Joseph M.
- 1919. Pre-cambrian and carboniferous algal deposits: Am. Jour. Sci., v. 48, no. 287, p. 339-352, illus.
- 1923. The negligible oil possibilities of Wisconsin: Am. Assoc. Pet. Geol., Bull., v. 7, no. 6, p. 653-660, map.
- 1933. The physical and chemical characteristics of the sediments of Lake Mendota, a fresh-water lake of Wisconsin: Jour. Sed. Petrology, v. 3, no. 2, p. 68-76, illus.; (abs.) G.S.A., Bull., v. 44, pt. 1, p. 104-105.
- 1934. The second annual Tri-State Geological Field Conference of the upper Mississippi Valley: Science, v. 80 (n.s) no. 2086, p. 591-592.
- 1936. The greensands of Wisconsin: Econ. Geology, v. 31, no. 5, p. 472-487, map.
- 1938. A new species of receptaculites (*R. Pedunculatus*) from the Silurian strata of eastern Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 31, p. 545-546, illus.
- 1939. The cost of soil in rock and time: Am. Jour. Sci., v. 237, no. 11, p. 771-780.
- 1945. Several Upper Cambrian fossils from the upper Mississippi Valley and a giant graptolite from the lower Middle Ordovician of Newfoundland: Jour. Paleontology, v. 19, no. 6, p. 633-636, illus.
- Twenhofel, William Henry; Broughton, William A.** 1939. The sediments of Crystal Lake, an oligotrophic lake in Vilas Co., Wisconsin: Am. Jour. Sci., v. 237, no. 4, p. 231-252, illus.; (abs.) G.S.A., Bull., v. 49, no. 12, pt. 2, p. 1904, 1938.
- Twenhofel, William Henry; Carter, Stuart L.; McKelvey, Vincent Ellis.** 1942. The sediments of Grassy Lake, Vilas County, a large bog lake of northern Wisconsin: Am. Jour. Sci., v. 240, no. 8, p. 529-546, illus.; (abs.) G.S.A., Bull., v. 52, no. 12, pt. 2, p. 1936-1937, 1941.
- Twenhofel, William Henry; Feray, Dan Edwards.** 1945. Bottom sediments of Green Lake, Wisconsin: Jour. Sed. Petrology, v. 15, no. 3, p. 93-102, illus.
- Twenhofel, William Henry; McKelvey, Vincent Ellis.** 1937. The bottom sediments of Lake Monona, a fresh-water lake of southern Wisconsin: Jour. Sed. Petrology, v. 7, no. 2, p. 67-77, illus.; Natl. Research Council Ann. Rpt., 1936-37, App. 1, Rpt. Comm. Sedimentation, p. 105-106; (abs.) G.S.A., Proc., 1936, p. 109.
- 1939. The sediments of Devils Lake, a eutrophic-oligotrophic lake of southern Wisconsin: Jour. Sed. Petrology, v. 9, no. 3, p. 105-121, illus., map.
- 1942. The sediments of Little Long (Hiawatha) Lake, Wisconsin: Jour. Sed. Petrology, v. 12, no. 1, p. 36-50, illus., maps.
- Twenhofel, William Henry; Raasch, Gilbert Oscar; Thwaites, Fredrik Turville.** 1934. Cambrian strata of Wisconsin (abs.): G.S.A., Proc., 1933, p. 114.
- 1935. Cambrian strata of Wisconsin: G.S.A., Bull., v. 46, no. 11, p. 1687-1743, illus.
- Twenhofel, William Henry; Thwaites, Fredrik Turville.** 1919. The Paleozoic section of the Tomah and Sparta quadrangles, Wisconsin: Jour. Geol., v. 27, no. 8, p. 614-633, illus.
- Twin Cities Office of Mineral Resources.** see U.S. Bureau of Mines
- Tychsen, Paul C.** see Dickas, Albert B.
- Tyler, Richard G.** 1946. Polluted streams cleared up by aeration: Civ. Eng., v. 16, p. 348-349.
- Tyler, Stanley Allen (and others).** 1940. Studies of the Lake Superior Pre-Cambrian by accessory-mineral methods: G.S.A., Bull., v. 51, no. 10, p. 1429-1537, illus.
- Tyler, Stanley Allen.** see also Bailey, Sturges W.
- see also Cline, Lewis M.
- 1936. Heavy minerals of the St. Peter Sandstone in Wisconsin: Jour. Sed. Petrology, v. 6, no. 2, p. 55-84, illus., map; (abs.) G.S.A., Proc., 1935, p. 112-113.
- Tyler, Stanley Allen; Marsden, Ralph Walter.** 1937. Heavy mineral methods applied to the Pre-Cambrian rocks of the south shore of Lake Superior (abs.): Am. Mineralogist, v. 22, no. 12, pt. 2, p. 15.
- Tyler, Stanley Allen; Twenhofel, William Henry.** 1952. Sedimentation and stratigraphy of the Huronian of Upper Michigan: Am. Jour. Sci., v. 250, no. 1, p. 1-27; no. 2, p. 118-151, illus., maps.
- Tyson, Natalie S.** see Henderson, John R.

- Uber, Harvey A.** 1962. The kettle moraines of eastern Wisconsin: *Wis. Academy Review*, v. 9, no. 4, p. 161-165, illus.
- Uglow, W.L.** 1914. A study of the methods of mine valuation and assessments: *Wis. Geol. and Nat. History Survey, Bull. 41* (econ. ser. 18) 73 p., illus.
- Ulrich, Edward Oscar.** *see also* Winchell, Newton Horace
- 1892. New lamellibranchiata (Ordovician, Minn. and Wis.): *Am. Geologist*, v. 10, p. 96-104, illus.; (abs.) *Minn. Univ., Quart. Bull.*, v. 1, p. 59-60.
 - 1895. On lower Silurian bryozoa of Minnesota: *Geol. Minn.*, v. 3, pt. 1, chap. 4, p. 135-137, 168-170, 251-252, 266, 268-269, 284, 299, 302-307, 317, illus.
 - 1897a. The lower Silurian lamellibranchiata of Minnesota: *Geol. Minn.*, v. 3, pt. 2, chap. 6, p. 491, 494, 515, 529, 537, 543, 544, 553, 554, 624, 626, illus.
 - 1897b. The lower Silurian ostracoda of Minnesota: *Geol. Minnesota*, v. 3, pt. 2, chap. 7, p. 636, 638, 640, 692, illus.
 - 1911a. Bearing of the Paleozoic bryozoa on paleogeography: *G.S.A., Bull.*, v. 22, p. 252-257.
 - 1911b. Revision of the Paleozoic systems: *G.S.A., Bull.*, v. 22, p. 281-680.
 - 1914a. Cambrian geology and paleontology, *Dikelocephalus* and other genera of the *Dikelocephalinae*: *Smithsonian Misc. Coll.*, v. 57, no. 13, p. 354-412, illus.
 - 1914b. The Ordovician-Silurian boundary: *Ottawa, Canada, Internat. Geol. Cong.*, 12th, 1913, *Compte Rendu*, p. 593-667, maps.
 - 1916. Correlation by displacements of the strand-line and the function and proper use of fossils in correlation: *G.S.A., Bull.*, v. 27, p. 451-490.
 - 1920. Major causes of land and sea oscillations: *Wash. Acad. Sci., Jour.*, v. 10, no. 3, p. 57-78, illus.; *Smithsonian Inst., Ann. Rpt.*, 1920, p. 321-337, illus.
 - 1924. Notes on new names in table of formations and on physical evidence of breaks between Paleozoic systems in Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 21, p. 71-107, illus.
- Ulrich, Edward Oscar; Cooper, Gustav Arthur.** 1936. New Silurian brachiopods of the family *Triplesidae*: *Jour. Paleontology*, v. 10, no. 5, p. 331-347, illus.
- Ulrich, Edward Oscar; Resser, Charles Elmer.** 1930. The Cambrian of the upper Mississippi Valley, pt. 1, *Trilobita, Dikelocephalinae and Osceolinae*: *Milwaukee Public Museum, Bull.*, v. 12, no. 1, p. 1-122, illus.
- 1933. The Cambrian of the upper Mississippi Valley, pt. II, *Trilobita, Saukinae*: *Milwaukee Public Museum, Bull.*, v. 12, no. 2, p. 123-306, illus.
- Ulrich, Edward Oscar; Scofield, W.H.** 1897. The lower Silurian gastropoda of Minnesota: *Geol. Minn.*, v. 3, pt. 2, chap. 10, p. 829-842, 862-872, 877-881, 900-901, 908, 964-965, 968-972, 979, 994-998, 1003-1007, 1018, 1022, 1030-1032, 1034-1036, 1039-1049, 1052-1056, 1065-1068, 1072, 1076, illus.
- Unfer, Louis, Jr.** *see* Raasch, Gilbert Oscar
- United States Army, Corps of Engineers (and others).**
- 1970a. Fluvial sediment: Rock Island District, Upper Mississippi River Comprehensive Basin Study, v. 3, app. G, 100 p., illus., maps.
 - 1970b. Surface water hydrology: St. Paul District, Upper Mississippi River Comprehensive Basin Study, v. 3, app. D, 113 p., illus., maps.
- United States Army, Corps of Engineers.** 1935. Report on the sedimentary characteristics of the upper Mississippi River: St. Paul District, 294 p., illus.
- 1946. Beach erosion study, Lake Michigan shoreline of Milwaukee Co., Wisconsin: U.S., 79th Cong., 2d Sess., House Doc. 526.
 - 1959. Water resources development in Wisconsin: Chicago District, 33 p., illus., maps.
 - 1965. Review survey report on Trempealeau River, Wisconsin for flood control: St. Paul District, separate paging, illus.
 - 1966. Flood plain information report on the Des Plaines River, Illinois and Wisconsin: Chicago District, 36 p., maps.
 - 1967. Flood plain information report for Turtle Creek, Rock Co., Wisconsin: Rock Island District; Wis. Dept. Nat. Resources, Div. Resources Development, 60 p., illus., tables, maps.
 - 1968a. Flood plain information, Rock River, Beloit, Wisconsin: Rock Island District, Flood Plain Inf. Study, 55 p., illus.
 - 1968b. Flood plain information, Rock River, Janesville, Wisconsin: Rock Island District, Flood Plain Inf. Study, 53 p., illus.
 - 1970a. Flood control: Chicago District, Upper Mississippi River Comprehensive Basin Study, v. 5, app. I, 225 p., illus., maps.
 - 1970b. Flood plain information, Manitowoc Co., Wisconsin: Chicago District, 67 p., illus., tables, maps.
- United States Atomic Energy Commission; United States Geological Survey.** 1968. Preliminary reconnaissance for uranium in Arkansas, Illinois, Kentucky, Michigan, Minnesota, Missouri, Ohio, and Wisconsin, 1952-1956: U.S. Atomic Energy Comm. Rpt. RME-150, 89 p., illus.
- United States Bureau of Mines.** 1927-1933. Mineral resources of the United States: Dept. Commerce, annual, 1924-1931, tables.
- 1933-197-. Minerals yearbook: Dept. Interior, annual, 1932/33-197-, tables.
- United States Bureau of Mines; Twin Cities Office of Mineral Resources.** 1970. Mineral resources: Upper Mississippi River Comprehensive Basin Study, v. 3, app. F, 122 p., tables, maps.
- United States Bureau of the Census.** 1958-1971. Wisconsin mineral industry, 1954-1967: v. 2, Area Statistics, chap. 48, paging varies, tables, map.
- United States Congress, House.** 1922. Report on reexamination of Fox River, Wisconsin: 67th Cong., 2d Sess., House Doc. 146, 170 p., illus., maps.
- 1967. Watershed projects: 90th Cong., 1st Sess., Hearings before Subcom. on Cons. and Credit of Ag. Com., p. 142-147.
 - 1969. Apostle Islands National Lakeshore hearing before the Subcommittee on National Parks and Recreation of the Committee on Interior and Insular Affairs, House of Representatives... on H.R. 555 and S. 621, Bills to provide for the establishment of the Apostle Islands National Lakeshore in the State of Wisconsin, and for other purposes... August 19, 1969: Washington, 91st Congress, 1st Sess., 2 pts. (Serial no. 91-9)
- United States Department Agriculture, Research Service.** 1957. Monthly precipitation and runoff for small agricultural watersheds in the United States: Soil and Water Cons. Research Branch, p. 29.1-32.6.
- 1958. Annual maximum flows from small agricultural watersheds in the United States: Soil and Water Cons. Research Branch, p. 29.1-32.6.
 - 1960. Selected runoff events for small agricultural watersheds in the United States: Soil and Water Cons. Research Branch, p. 29.1-31.4, illus.
- United States Department Agriculture, Soil Conservation Service.** 1961. Report for flood control in the Milwaukee River watershed: 15 p., maps.
- 1964. Engineering test data and interpretations for major soils of Wisconsin: Madison, Wis., 70 p.
 - 1967a. Soil survey laboratory data and descriptions for some soils of Wisconsin: Soil Survey Invest. Rpt. No. 17, 225 p.
 - 1967b. Watershed work in Wisconsin: 17 p., illus.
 - 1969. Wisconsin soils, their properties and uses: Madison, Wis., 216 p.
- United States Department Interior, Federal Water Quality Administration, Great Lakes Region.** 1970. Water supply and quality control: Upper Mississippi River Comprehensive Basin Study, v. 4, app. H, 342 p., tables, maps.
- United States Forest Service.** 1940. Influences of vegetation and watershed treatments on runoff, silting, and stream flow: U.S.D.A., Misc. Pub. 397, 80 p., illus.
- United States Geological Survey.** *see also* American Geophysical Union
- *see also* U.S. Atomic Energy Commission
 - 1883-1926. Mineral resources of the United States: annual, 1882-1923.
 - 1902. Operations at river stations, 1901: Water-Supply Paper 65, 334 p.
 - 1910-197-. Surface water supply of the United States, 1907-197-: Water-Supply Papers 244-5, 264-5, 284-5, 304-5, 324-5, 354-5, 384-5, 404-5, 434-5, 454-5, 474-5, 504-5, 524-5, 544-5, 564-5, 584-5, 604-5, 624-5, 644-5, 664-5, 684-5, 699-700, 714-5, 729-30, 744-5, 759-60, 784-5, 804-5, 824-5, 854-5, 874-5, 894-5, 924-5, 954-5, 974-5, 1004-5, 1034-5, 1054-5, 1084-5, 1114-5, 1144-5, 1174-5, 1207-8, 1237-8, 1277-8, 1337-8, 1387-8, 1437-8, 1507-8, 1557-8, 1627-8, 1707-8, 1911-14.
 - 1916. Primary traverse in Illinois, Wisconsin, Minnesota, North Dakota, and South Dakota, 1913-1915: *Bull.* 644-E, p. 225-296.
 - 1923. Primary traverse in Illinois and Wisconsin, 1916-1918: *Bull.* 709-E, p. 167-186.
 - 1943-197-. Quality of surface waters of the United States, 1941-197-: Water-Supply Papers 942, 950, 970, 1022, 1030, 1050, 1102, 1132, 1162, 1186-7, 1197-8, 1250-1, 1290-1, 1350-1, 1400-1, 1450-1, 1520-1, 1571-2, 1642-3, 1742-3, 1882-3, 1942-3, 1948-9, 1955-6, 1962-3, 1992-3, 2012-3, 2094, .
 - 1949-197-a.
 - 1949-197-b. Index of surface-water records, pt. 5, Hudson Bay and upper
 - 1955. Floods of 1952 in the basins of the upper Mississippi River and Red River of the north: Water-Supply Paper 1260-C, p. 427-446, 521-522, illus.
 - 1958. Compilation of records of surface-waters of the United States through September 1950, pt. 4: Water-Supply Paper 1307, p. 21-152.
 - 1959 (1960). Ground-water levels in the United States, 1956: Water-Supply Paper 1456, p. 64-76.
 - 1959a. Compilation of records of surface-waters of the United States through September 1950, pt. 5: Water-Supply Paper 1308, p. 275-294, 297-337, 343-357, 362-424, 440-457.
 - 1959b. Madison and vicinity, Wisconsin: Metropolitan area map, scale 1:24,000, 38" x 45".
 - 1959c. Milwaukee and vicinity, Wisconsin: Metropolitan area map, scale 1:24,000, 44" x 68".
 - 1961-1964. Surface water records of Wisconsin: annual.
 - 1965-197-. Water resources data for Wisconsin 1965-197-: pt. 1, surface water records; pt. 2, water quality records, annual.
 - 1966. Wisconsin state topographic map: scale 1:500,000.
 - 1967a. Aeromagnetic map of part of the Beechwood quadrangle, Michigan and Wisconsin: Geophy. Inv. Map GP-603, scale 1:62,500.
 - 1967b. Aeromagnetic map of Iron River and vicinity, Michigan and Wisconsin: Geophy. Inv. Map GP-605, scale 1:62,500.

- 1968a. Aeromagnetic map of central Pine Co., Minnesota, and adjacent parts of Wisconsin: Geophys. Inv. Map GP-636, scale 1:62,500.
- 1968b. Shaded relief of the state of Wisconsin: scale 1:500,000.
- 1968c. Wisconsin state base map: scale 1:500,000.
- 1968d. Wisconsin state base map: scale 1:1,000,000.
- 1969. Ground-water levels in the United States, 1962-1966, North-Central States: Water-Supply Paper 1976, p. 94-117, map.
- 1970a. Aeromagnetic map of the Menominee - Northland area, Dickinson, Marquette, and Menominee Counties, Michigan, and Marinette Co., Wisconsin: Geophys. Inv. Map GP-711, scale 1:62,500, 2 sheets.
- 1970b. Ground water and geology: Upper Mississippi River Comprehensive Basin Study, v. 3, app. E, 74 p., tables, maps.
- 1972a. Aeromagnetic map of central Gogebic Co., Michigan, and northern Vilas Co., Wisconsin: Geophys. Inv. Map GP-828, scale 1:62,500.
- 1972b. Aeromagnetic map of the Watersmeet Region, Ontonagon and Gogebic Counties, Michigan, and Vilas Co., Wisconsin: Geophys. Inv. Map GP-831, scale 1:62,500.
- 1972c. Iron-formation in Jackson Co., Wisconsin: Prof. Paper 800-A, p.A3.
- 1973. Wisconsin state base map with highways and contours: 1968 edition, scale 1:500,000.
- United States Geological Survey; Wisconsin Geological and Natural History Survey.** 1976. Mineral and water resources of Wisconsin: U.S. Cong., 2d Sess., Committee on Interior and Insular Affairs, 185 p., illus., maps.
- United States Mississippi River Commission.** 1883. Results of gauging operations on the upper Mississippi River, from December 1880 to October 1881: U.S., Engineering Dept., Rpt. 1883, pt. 3, p. 2226-2265, illus.
- United States National Resources Planning Board.** 1934. Report of the Mississippi Valley Committee: Public Works Administration Rpt., 234 p., illus., maps.
- 1937. Drainage basin committees reports: Committee Rpts., Wis. nos. 44, 45, 46, 57, 58, 59, 60.
- 1938. Drainage basin problems and programs, 1937: Committee Rpt., 154 p.
- United States Waterways Experiment Station.** 1930. Sediment investigations on the Mississippi River and its tributaries prior to 1930: Vicksburg, Miss., Waterways Expt. Station Paper H, 84 p.
- University Wisconsin, Superior; Center for Lake Superior Environmental Studies.** 1973. Wisconsin's Lake Superior basin water quality study: Univ. Wis., Superior; Ashland, Northland College, Sigurd Olson Institute Env. Studies, 199 p.
- University Wisconsin.** 1935. The university and the erosion problem: U.W. Science Inquiry, pub. 1 (gen. ser. 1881) 46 p.
- 1936. The University and conservation of Wisconsin waters: U.W. Bull. 2193 (gen. ser. 1977), U.W. Science Inquiry, pub. 2, 79 p., illus.
- 1977. The geology of Wisconsin, Wisconsin's geological history, Wisconsin's Geological Survey, Wisconsin's mineral potential: Univ. Wis., UIR/Newsletter, v. 11, no. 3, p. 2-15.
- University Wisconsin; Agr. Experimental Station.** 1960. Soils of the north central region of the United States: Bull. 544, North central regional publication no. 76, 192 p., illus., maps.
- University Wisconsin; Dept. Geology.** 1951. Field trip to the Lake Superior region, May 5 to May 12, 1951: Madison, 1 vol. (various paging) illus., maps.
- University Wisconsin; Geophysical and Polar Research Center, Dept. Geology.** 1966. Magnetic anomaly map of state of Wisconsin: Skillings' Mining Review, v. 55, no. 5, p. 32, scale 1:2,700,000.
- University Wisconsin; Sea Grant Program.** 1971. Geo-environmental and mineral resources: Public Inf. rpt. no. 5, 28 p., illus.
- University Wisconsin; Wis. Clay Minerals Committee.** 1964. Guidebook to field trips in southern Wisconsin: Clay Minerals Soc., 1st mtg., 13th North American Clay Minerals Conf., 40 p., illus., maps.
- Upchurch, Sam B.** 1972. Natural weathering and chemical loads in the Great Lakes: Internat. Assoc. Great Lakes Research, 15th Conf., Proc., p. 401-415, tables.
- Upham, Warren.** 1879. Terminal moraines of the North American ice sheet: Am. Jour. Sci., v. 18 (3) p. 81-92, 197-198.
- 1881. Glacial drift and its terminal moraines: Minn. Geol. and Nat. History Survey, 9th Ann. Rpt., 1880, p. 281-356, illus.; (abs.) Am. Jour. Sci., v. 23 (3) p. 62-63, 1882.
- 1894a. The Madison type of drumlins: Am. Geologist, v. 14, p. 69-83; (abs.) Am. Geologist, v. 13, p. 222-223; Univ. Minn., Quart. Bull., v. 2, p. 93.
- 1894b. The western Superior glacial lake and the later glacial Lakes Warren and Algonquin: Minn. Geol. and Nat. History Survey, 22d Ann. Rpt., p. 54-66.
- 1896a. Origin and age of the Laurentian Lakes and of Niagara Falls: Am. Geologist, v. 18, p. 169-177.
- 1896b. The St. Croix River before, during, and after the ice age in Hazzard, George H. (comp.) Lectures, laws, papers, pictures, pointers, Interstate Park, Dalles of the St. Croix: St. Paul, p. 45-58.
- 1898. Time of erosion of the Upper Mississippi, Minnesota, and St. Croix Valleys (abs.): Science, v. 8 (n s) no. 197, p. 470; Am. Assoc. Adv. Sci., Proc., v. 47, p. 297-298; Am. Geologist, v. 22, p. 258-259.
- 1900. Pleistocene ice and river erosion in the St. Croix Valley of Minnesota and Wisconsin: G.S.A., Bull., v. 12, p. 13-24.
- 1903. Glacial Lake Nicolet and the portage between the Fox and Wisconsin rivers: Am. Geologist, v. 32, p. 105-115, 330-331.
- 1905. Age of the St. Croix Dalles: Am. Geologist, v. 35, p. 347-355.
- 1906. Glacial and modified drift of the Mississippi Valley from Lake Itasca to Lake Pepin: Minn. Acad. Sci., Bull., v. 4, p. 299-305.
- Upper Mississippi River Comprehensive Basin Study Coordinating Committee.** 1972. Upper Mississippi River comprehensive basin study: Main report and 17 appendixes in 9 volumes, paged separately, illus., maps.
- Valastro, S., Jr.; Davis, E. Mott.** 1970. University of Texas at Austin radiocarbon dates VII: Radiocarbon, v. 12, no. 1, p. 249-280; (abs.) Geophysical Abs., no. 284, p. 988, Sept. 1970.
- Vallejo, Luis E.** see Edil, Tuncer B.
- Van Hise, Charles Richard (and others).** 1901. The iron ore deposits of the Lake Superior region: U.S.G.S., Ann. Rpt. 21, pt. 3, p. 305-434, maps.
- Van Hise, Charles Richard.** see also Chamberlin, Thomas Crowder
- see also Irving, Roland Duer
- 1886. Upon the origin of the mica schists and black mica slates of the Penokee-Gogebic iron-bearing series: Am. Jour. Sci., v. 31 (3) p. 453-459, map; (abs.) Am. Nat., v. 20, p. 723-724.
- 1889. The iron ores of the Penokee-Gogebic series of Michigan and Wisconsin: Am. Jour. Sci., v. 37 (3) p. 32-48, illus.; (abs.) Nature, v. 39, p. 310; Am. Geologist, v. 3, p. 197-198.
- 1890. Remarks on certain questions of equivalency and structure of the crystallines of the Northwest: G.S.A., Bull., v. 1, p. 390-391, 393.
- 1891. An attempt to harmonize some apparently conflicting views of Lake Superior stratigraphy: Am. Jour. Sci., v. 41 (3) p. 117-137; Reviewed by A.C. Lawson, Am. Geologist, v. 7, p. 320-327, 388.
- 1892a. Correlation papers; Archean and Algonkian: U.S.G.S., Bull. 86, p. 51-208, map.
- 1892b. The iron ores of the Lake Superior region: Wis. Acad. Sci., Arts, and Letters, Trans., v. 8, p. 219-227.
- 1892c. The Penokee iron-bearing series of northern Wisconsin and Michigan: U.S.G.S., Mon. 19, 634 p.
- 1893a. Excursion to Lake Superior, sketch of Pre-Cambrian geology south of Lake Superior, with references to illustrate localities: Washington, Internat. Geol. Cong., 5th, Compte Rendu, 1891, p. 489-512, maps.
- 1893b. A historical sketch of the Lake Superior region to Cambrian time: Jour. Geol., v. 1, p. 113-128.
- 1893c. Some dynamic phenomena shown by the Baraboo quartzite ranges of central Wisconsin: Jour. Geol., v. 1, no. 4, p. 347-355.
- 1895. The origin of the dells of the Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 10, p. 556-560.
- 1896. A central Wisconsin base-level: Science, v. 4 (n s) p. 57-59.
- 1901. Some principles controlling the deposition of ores: Am. Inst. Mining Eng., Trans., v. 30, p. 102-109; (abs.) Eng. Min. Jour., v. 72, p. 699-702; San Francisco, Mining and Scientific Press, v. 83, p. 269-270, 286.
- 1904. A treatise on metamorphism: U.S.G.S., Mon. 47, p. 585, 587, 1177-1178.
- Van Hise, Charles Richard; Bain, Harry Foster.** 1903. Lead and zinc deposits of the Mississippi Valley, U.S.A.: England, Inst. Mining Engineers, Trans., v. 23, p. 376-434, maps.
- Van Hise, Charles Richard; Bayley, W.S.** 1900. Menominee, Michigan, special folio: U.S.G.S., Geologic Atlas, Folio 62, 13 p., maps.
- Van Hise, Charles Richard; Leith, Charles Kenneth.** 1909. Pre-Cambrian geology of North America: U.S.G.S., Bull. 360, p. 178-196, 717-724, maps.
- 1911. The geology of the Lake Superior region: U.S.G.S., Mon. 52, 641 p., illus., maps; (abs.) Wash. Acad. Sci., Jour., v. 1, no. 5, p. 157-160.
- Van Rooyen, D.J.** see Bouma, Johannes.
- Van Schmus, W.R.** see also Anderson, James L.
- see also Bickford, M.E.
- see also DuBois, James F.
- see also Maas, R.S.
- see also Medaris, L. Gordon, Jr.
- see also Myles, J.R.
- see also Thurman, E.M.
- 1972. Geochronology of Precambrian rocks in the Penokean fold belt subprovince of the Canadian Shield (abs.) in Inst. Lake Superior Geology, 18th Ann., 1972, Agenda and abs.: Houghton, Mich., Mich. Tech. Univ., pt. 1, paper 32, 3 p.
- 1973a. Chronology of Precambrian rocks in Wisconsin in Guidebook to the Precambrian geology of northeastern and northcentral Wisconsin: Wis. Geol. and Nat. History Survey, Inst. Lake Superior Geology, 19th Ann., Guidebook, p. 1-8, map.

- 1973b. Geochronology of Precambrian rocks in eastern Wisconsin in *Inst. Lake Superior Geology*, 19th Ann., 1973, Tech. program and abs.: *Wis. Geol. and Nat. History Survey; Univ. Wis., Geology Depts.*, p. 41.
- 1973c. Chronology of Precambrian igneous and metamorphic events in eastern Wisconsin and upper Michigan (abs.): *EOS (Am. Geophys. Union, Trans.)* v. 54, no. 4, p. 495.
- 1974. Chronology of Precambrian events in Wisconsin (abs.): *EOS (Am. Geophys. Union, Trans.)* v. 55, no. 4, p. 465.
- 1976. Early and middle Proterozoic history of the Great Lakes area, North America, in *Global tectonics in Proterozoic times: Royal Soc. (London) Philos., Trans., A.*, v. 280, p. 605-628.
- 1978. Geochronology of the southern Wisconsin rhyolites and granites in *Geoscience Wisconsin: Wis. Geol. and Nat. History Survey*, v. 2, p. 19-24.
- Van Schmus, W.R.; Anderson, James L.** 1977. Gneiss and migmatite of Archean age in the Precambrian basement of central Wisconsin: *Geol.*, v. 5, p. 45-48, illus.; (abs.) *Inst. Lake Superior Geology*, 22d Ann., Tech. Sess. Abs. and Field Guides, p. 67.
- Van Schmus, W.R.; Medaris, L. Gordon, Jr.; Banks, Philip O.** 1975. Geology and age of the Wolf River Batholith, Wisconsin: *G.S.A., Bull.*, v. 86, p. 907-914, illus., maps.
- Van Schmus, W.R.; Thurman, E.M.; Peterman, Z.E.** 1975. Geology and Rb-Sr chronology of Middle Precambrian rocks in eastern and central Wisconsin: *G.S.A., Bull.*, v. 86, no. 9, p. 1255-1265, illus., maps.
- Van der Voo, R.** see Henry, S.G.
- Vanasse, Theodore C.** 1946. Crystal Cave, Wisconsin: *Nat. Speleo. Soc., Bull.*, no. 8, p. 42-43.
- Vargo, J.L.** see King, Elizabeth R.
- see Philbin, P.W.
- Venditti, A.R.** see Mursky, G.
- Veneman, Petrus L.M., Jr.** see also Bouma, Johannes.
- Veneman, Petrus L.M., Jr.; Swain, Albert M.; Hole, Francis D.** 1974. Soils and varved sediments of the Lake Emrick drainage basin in Marquette County, central Wisconsin in Knox and Mickelson, eds., *Late Quaternary environments of Wisconsin: Madison, Am. Quaternary Assoc., Third biennial mtg.*, p. 233-243, illus.
- Veneman, Petrus L.M., Jr.; Vepraskas, M.J.; Bouma, Johannes.** 1976. The physical significance of soil mottling in a Wisconsin toposequence: *Geoderma*, v. 15, no. 2, p. 103-118, illus.
- Vepraskas, M.J.** see Veneman, Petrus L.M., Jr.
- Vickers, Rollin C.** 1953a. North-central district (Mich.-Wis. and S. Dakota): *U.S.G.S., Rpt. TEI-330*, p. 204-208.
- 1953b. North-central district (Mich.-Wis. and S. Dakota): *U.S.G.S., Rpt. TEI-390*, p. 202-205.
- 1954. North-central district (Mich.-Wis. and S. Dakota): *U.S.G.S., Rpt. TEI-440*, p. 171-173, map.
- 1956. Airborne and ground reconnaissance of part of the syenite complex near Wausau, Wisconsin: *U.S.G.S., Bull.* 1042-B, p. 25-44, map.
- Vierthaler, Arthur A.** 1958. Wisconsin diamonds: *Wis. Academy Review*, Spring, p. 53-55.
- 1961a. There are diamonds in Wisconsin: *Lapidary Jour.*, v. 15, no. 1, p. 18, 20, 22, 26.
- 1961b. Wisconsin diamonds: *Gems and Gemology*, v. 10, no. 7, p. 210-215, illus.
- 1962. Exploring underwater for rare minerals: *Lapidary Jour.*, v. 16, no. 1, p. 4-38, illus.
- Villemonete, J.R. (and others).** 1973. Remote sensing in the mixing zone in *Remote sensing and water resources management: Urbana, Ill., Am. Water Resources Assoc., Proc.* no. 17, p. 368-386, illus.
- Vogel, T.A.** see Freeman, K.J.
- Voigt, L.P.** 1958. Wisconsin lakes: *Wis. Cons. Dept., Pub.* 218-58, 35 p.
- von Hake, Carl A.** 1978. Earthquake history of Wisconsin: *U.S.G.S., Earthquake Inf. Bull.*, v. 10, no. 3, p. 100-102.
- Vorhis, Robert C.** see Rexin, Elmer E.
- Voskuil, Glenn J.** see Stoeckeler, Joseph H.
- Voss, John.** 1934. Postglacial migration of forests in Illinois, Wisconsin, and Minnesota: *Botan. Gazette*, v. 96, no. 1, p. 3-43, illus., map.
- Votaw, Robert Barnett.** 1972. Conodont biostratigraphy of the Black River Group (Middle Ordovician) and equivalent rocks of the eastern midcontinent, North America: *Dissert. Abs. Internat.*, Sec. B, v. 33, no. 2, p. 787B.
- Wadsworth, Marshman E.** see also Whitney, Josiah Dwight
- 1880. Notes on the geology of the copper and iron districts of Lake Superior: *Harvard College, Museum Comparative Zoology, Bull.* 7 (geol. ser. 1) p. 1-157, illus.; reviewed, *Am. Jour. Sci.*, v. 20 (3) p. 330-332; (abs.) v. 22, p. 403-408, 1881.
- 1883a. Keweenaw Point geology: *Science*, v. 1, no. 5, p. 248-249; reviewed v. 1, no. 5, p. 140-141.
- 1883b. Note on Prof. R.D. Irving's paper on the paramorphic origin of the hornblende of the crystalline rocks of the Northwestern states: *Am. Jour. Sci.*, v. 26 (3) p. 155; reviewed p. 321-322.
- 1883c. The Potsdam and St. Peter's sandstones: *Science*, v. 2, no. 23, p. 52, review *Am. Jour. Sci.*, v. 25 (3) p. 401.
- 1884. Some instances of atmospheric action on sandstone (in Wis.): *Boston Soc. Nat. Hist., Proc.*, v. 22, p. 201-203; (abs.) *Am. Jour. Sci.*, v. 28 (3) p. 466-467; *Science*, v. 1, p. 146, 1883.
- Wadsworth, William B.** 1963. Textural variation within a quartz diorite pluton (Twelvefoot Falls pluton), north-eastern Wisconsin: *G.S.A., Bull.*, v. 74, no. 3, p. 243-250, illus., tables.
- Wagner, George.** 1905. On an interesting fossil *Unio* from Wisconsin: *Nautilus*, v. 18, p. 97-100, illus.
- Wahnschaffe, Felix.** 1892. Mittheilungen über das glacialgebiet Nordamerikas; I. die endmoränen von Wisconsin und Pennsylvania: *Deutsche Geol. Gesellschaft, Zeitschrift*, Band 44, Heft. 1, p. 107-122.
- Walcott, Charles Doolittle.** 1879a. Descriptions of new species of fossils from the Chazy and Trenton limestones: *New York St. Museum, Ann. Rpt.* 31, p. 68-71.
- 1879b. Descriptions of new species of fossils from the Trenton limestone: *New York St. Museum, Ann. Rpt.* 28, p. 93-97 (doc. ed. l876).
- 1883a. The Cambrian System in the United States and Canada (abs.): *Washington Philos. Soc., Bull.*, v. 6, p. 98-102; (abs.) *Science*, v. 2, p. 801-802.
- 1883b. The Utica slate and related formations of the same geological horizon: *Albany Inst., Trans.*, v. 10, p. 1-17.
- 1890. Description of new forms of upper Cambrian fossils: *U.S. National Museum, Proc.*, v. 13, p. 267-279, illus.
- 1891a. Correlation papers, Cambrian; the Cambrian group of rocks in North America: *U.S.G.S., Bull.* 81, p. 171-181, 330-339, table, map.
- 1891b. The North American continent during Cambrian time: *U.S.G.S., 12th Ann. Rpt.*, pt. 1, p. 523-568, map.
- 1912. Cambrian brachiopoda: *U.S.G.S., Mon.* 51, pt. 1, 872 p.; pt. 2, plates, p. 114-119, 159.
- 1914. Cambrian geology and paleontology, II, no. 13, *Dikeloccephalus* and other genera of the *Dikeloccephalinae*: *Smithsonian Misc. Coll.*, v. 57, p. 345-412, illus.; (abs.) *Wash. Acad. Sci., Jour.*, v. 4, p. 371-373.
- 1916. Cambrian trilobites in Cambrian geology and paleontology, III: *Smithsonian Misc. Coll.*, v. 64, no. 3, p. 157-258; no. 5, p. 303-456.
- 1924. Cambrian and lower Ozarkian trilobites in Cambrian geology and paleontology, V: *Smithsonian Misc. Coll.*, v. 75, no. 2, p. 53-60, illus.
- 1925. Cambrian and Ozarkian trilobites in Cambrian geology and paleontology, V: *Smithsonian Misc. Coll.*, v. 75, no. 3, p. 59-146, illus.
- Walker, Margaret.** 1953. The development of a diplograptid from the Platteville limestone: *Geol. Mag.*, v. 90, no. 1, p. 1-16, illus.
- Walter, Earl; Cannard, R.E.** 1945. Ranney type collectors solve Manitowoc's water problem: *Am. City*, v. 60, no. 9, p. 112-113, illus.
- Walton, William C.** see Foley, Frank Clingan
- Wanenmacher, Joseph M.; Twenhofel, William Henry; Raasch Gilbert Oscar.** 1934. The Paleozoic strata of the Baraboo area, Wisconsin: *Am. Jour. Sci.*, v. 28 (5) no. 163, p. 1-30, illus.
- Wang, C.C.** 1932. A petrographic study of heavy minerals of Wisconsin igneous rocks, U.S.A.: *Geol. Soc. China, Bull.*, v. 11, no. 4, p. 425-459, illus.
- Ward, Henry L.** 1917. A new meteorite (Colby, Clark Co., Wis.): *Science*, v. 46 (n s) p. 262-263.
- Ward, Lester F.** 1889. The geographical distribution of fossil plants: *U.S.G.S., 8th Ann. Rpt. 1886-1887 pt. 2*, p. 894.
- Warner, J.H.** 1905. The Waterloo quartzite (southern Wis.): *Mining World*, v. 22, no. 16, p. 420-422.
- Warren, Gouverneur Kemble.** 1867. Survey of the upper Mississippi River, report to the Secretary of War, of the surveys of the upper Mississippi and its tributaries: *U.S. 39th Cong., 2d Sess., Sen. Doc. Lib.* 15, p. 116; *40th Cong., 2d Sess., House Ex. Doc.*, no. 1, app. D., p. 6, 1868.
- 1868. On certain physical features of the upper Mississippi River: *Am. Nat.*, v. 2, p. 497-502.
- 1876. Report on the transportation route along the Wisconsin and Fox rivers in the State of Wisconsin between the Mississippi River and Lake Michigan: *U.S., 44th Cong., 1st Sess., Senate Ex. Doc.* 28, 114 p., maps; *U.S. War Dept., Chief Eng., Ann. Rpt.*, 1876, U.S. 44th Cong., 2d Sess., House Ex. Doc. 1, pt. 2, v. 2, pt. 2, app. T 2, p. 189-298; (abs.) *Am. Jour. Sci.*, 13 (3) 152-155, 1877.
- 1878. Valley of the Minnesota River and of the Mississippi River to the junction of the Ohio, its origin considered: *Am. Jour. Sci.*, v. 16 (3) p. 417-431.
- Warry, N.D.** 1975. A copper anomaly in the waters of Lake Superior: *Albany, N.Y., Internat. Assoc. Great Lakes Research*, 18th Conf., p. 66.
- Wasson, P.A.** see Evans, T.A., Jr.
- Watson, Bruce G.** 1963. Characteristics and classification of glacial tills and associated soils in Columbia Co., Wisconsin: *U.S.D.A., Soil Conservation Service, Wis. Div.*, 46 p., maps.
- 1966. Soil survey of Lafayette County: *U.S.D.A., Soil Conservation Service, Bull.* 27 (series 1960) 137 p., maps.
- Watterston, K.G.** see Hole, Francis D.
- Weaver, R.M.; Jackson, Marion L.; Syers, J.K.** 1976. Clay mineral stability as related to activities of aluminum, silicon, and magnesium in matrix solution of montmorillonite-containing soils: *Clays and Clay Minerals*, v. 24, no. 5, p. 246-252, illus., tables.

- Webb, Thompson, III.** 1970a. A comparison of climatic change during the postglacial between Wisconsin and east-central Minnesota (abs.): G.S.A., Abs. with Programs, v. 2, no. 7, p. 717.
- 1970b. The postglacial climatic sequence in Wisconsin and eastern Minnesota, estimates derived from multivariate statistical analysis of fossil pollen data (abs.): Seattle, Wash., Am. Quaternary Assoc., 1st mtg., p. 146.
- 1974. A vegetational history from northern Wisconsin, evidence from modern and fossil pollen: Am. Midland Naturalist, v. 92, no. 1, p. 12-34, illus., maps.
- Webb, Thompson, III; Bryson, Reid A.** 1972. Late- and postglacial climatic change in the northern Midwest, U.S.A., quantitative estimates derived from fossil spectra by multivariate statistical analysis: Quaternary Research, v. 2, p. 70-115.
- Webb, William M.; Smith, Raymond.** 1961. The bedrock geology of Lake Michigan (abs) in Conference on Great Lakes research, Proceedings: Univ. Mich., Ann Arbor, Great Lakes Research Div., Pub. 7, p. 146.
- Weber, J.R.; Goodacre, A.K.** 1966. A reconnaissance underwater gravity survey of Lake Superior in Steinhart and Smith, eds., The earth beneath the continents: Am. Geophys. Union, Geophys. Mon. 10, p. 56-65, illus.
- Weber, John J.** *see also* Fassbender, Ronald L.
- Weber, John J. (and others).** 1969. Surface water resources of Fond du Lac County: Wis. Dept. Nat. Resources, Lake and stream classification project, 84 p., tables, maps.
- Weber, John J.; Desparte, Michael; Threinen, C.W.** 1968. Surface water resources of Manitowoc County: Wis. Dept. Nat. Resources, Lake and stream classification project, 97 p., tables, maps.
- Weber, John J.; Poff, Ronald, Jr.; Threinen, C.W.** 1968. Surface water resources of Sheboygan County: Wis. Dept. Nat. Resources, Lake and stream classification project, 81 p., tables, maps.
- Webster, Ruth M.** *see* Wilson, Leonard Richard
- Weeks, Edwin P.** 1964a. Field methods for determining vertical permeability and aquifer anisotropy: U.S.G.S., Prof. Paper 501-D, p. D193-D198, illus.
- 1964b. Use of water-level recession curves to determine the hydraulic properties of glacial outwash in Portage Co., Wisconsin: U.S.G.S., Prof. Paper 501-B, p. B181-184, table, map.
- 1969. Determining the ratio of horizontal to vertical permeability by aquifer-test analysis: Water Resources Research, v. 5, no. 1, p. 196-214, illus., table; (abs.) Abs. North Am. Geol., p. 1130, July.
- Weeks, Edwin P.; Ericson, D.W.; Holt, Charles Lee Roy, Jr.** 1965. Hydrology of the Little Plover River Basin, Portage Co., Wisconsin and the effects of water resource development: U.S.G.S., Water-Supply Paper 1811, 78 p., illus., tables, map.
- Weeks, R.A.** *see* West, Walter S.
- Welking, Milan W. (and others).** 1973. Nitrate content of well water in west-central Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 61, p. 259-265, illus.
- Weidman, Samuel.** 1895. On the quartz keratophyre and associated rocks of the north range of the Baraboo Bluffs: Univ. Wis., Bull. (sci. ser. 1) no. 2, 22 p., map; (abs.) Science, v. 1 (n s) p. 67.
- 1898. A contribution to the geology of the pre-Cambrian igneous rocks of the Fox River Valley, Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 3 (sci. ser. 2) 63 p., illus., map.
- 1903a. Note on the amphibole hudsonite previously called a pyroxene: Am. Jour. Sci., v. 15 (4) p. 227-232, illus.
- 1903b. Preliminary report on the soils and agriculture conditions of north central Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 11 (econ. ser. 7) 68 p., illus.; 2d ed., 1908.
- 1903c. The pre-Potsdam peneplain of the pre-Cambrian of north central Wisconsin: Jour. Geol., v. 11, p. 289-313, illus.
- 1904a. The Baraboo iron-bearing district of Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 13 (econ. ser. 8) 190 p., map.
- 1904b. Iron ores of Wisconsin with special reference to the Baraboo district: Wis. Engineer, v. 9, 31-45, map; (abs.) Eng. Min. Jour., v. 79, p. 610-612, 1905.
- 1904c. Widespread occurrence of fayalite in certain igneous rocks of central Wisconsin: Jour. Geol., v. 12, no. 6, p. 551-561, illus.; (abs.) Science, v. 19 (n s) p. 526; (abs.) G.S.A., Bull., v. 15, p. 551-552; Sci. Am. Supplement, v. 57, p. 23446.
- 1907a. The geology of north central Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 16 (sci. ser. 4) 697 p., illus., maps.
- 1907b. Irvingite, a new variety of lithiamicite: Am. Jour. Sci., v. 23 (4) p. 451-454.
- 1908. General petrology of Wisconsin igneous rocks (abs.): Science, v. 27 (n s) p. 723.
- 1911. The glacial lake of the Fox River valley and Green Bay and its outlet (abs.): Science, v. 33 (n s) p. 467.
- 1913. Pleistocene succession in Wisconsin (abs.): G.S.A., Bull., v. 24, p. 697-698; Science, v. 37 (n s) p. 456-457.
- Weidman, Samuel; Hall, E.B.; Musbach, F.L.** 1911. Reconnaissance soil survey of part of northwestern Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 23 (econ. ser. 14) 102 p., illus., maps.
- Weidman, Samuel; Lenher, Victor.** 1907. Marignacite, a new variety of pyrochlore from Wausau, Wisconsin: Am. Jour. Sci., v. 23 (4) p. 287-292.
- Weidman, Samuel; Schultz, Alfred Reginald.** 1915. The underground and surface water supplies of Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 35 (econ. ser. 17) 664 p., illus., map.
- Weidman, Samuel; Wood, Percy O.** 1911. Reconnaissance soil survey of Marinette County: Wis. Geol. and Nat. History Survey, Bull. 24 (soil ser. 1) (econ. ser. 15) 44 p., illus., map.
- Weis, Leonard Walter.** *see also* LaBerge, Gene L.
- *see also* Read, William Franklin
- 1964. Origin of the Tigerton anorthosite (abs.) in Inst. Lake Superior Geology, 10th Ann., 1964: Ishpeming, Mich., Marquette Range Comm., p. 31.
- 1966. The origin of the Tigerton anorthosite (abs.): Dissert. Abs., v. 26, no. 7, p. 3874-3875.
- 1973. The Tigerton anorthosite in Guidebook to the Precambrian geology of northeastern and north-central Wisconsin: Wis. Geol. and Nat. History Survey, Inst. Lake Superior Geology, 19th Ann., p. 59.
- Weis, Leonard Walter; LaBerge, Gene L.; Dutton, Carl E.** 1969. Central Wisconsin volcanic belt—Inst. Lake Superior Geology, 15th Ann., 1969, Guidebook: Wisconsin State Univ.—Oshkosh, Dept. Geology, 33 p., illus.
- Weitz, John H.** 1942. High-grade dolomite deposits in the United States: U.S. Bur. Mines, Inf. Circ. 7226, p. 35-42.
- Welkie, Carol J.** *see* Nebrija, Edgardo L.
- Weller, Stuart.** 1897. "Cryptodiscus" Hall: Jour. Geol., v. 5, no. 8, p. 803-808, illus.
- 1898. Descriptions of Devonian crinoids and blastoids from Milwaukee, Wisconsin: New York Acad. Sci., Annals, v. 11, p. 117-124, illus.
- 1900. The paleontology of the Niagara limestone of the Chicago area, the crinoidea: Chicago Acad. Sci., Nat. History Survey, Bull., v. 4, p. 1-153.
- 1902. *Crotalocrinus cora* (Hall) from Niagaran of Illinois and Wisconsin: Jour. Geol., v. 10 no. 5, p. 532-534, illus.
- 1907. The paleontology of the Niagara limestone of the Chicago area, the trilobita: Chicago Acad. Sci., Nat. History Survey, Bull., v. 4, p. 163-281.
- Wendland, W.M.** *see* Bryson, Reid A.
- Wentworth, Chester K.** 1936. An analysis of the shapes of glacial cobbles: Jour. Sed. Petrology, v. 6, no. 2, p. 85-96, illus., tables.
- Wentz, Dennis A.; Lee, G. Fred.** 1969. Sedimentary phosphorus in lake cores—observations on depositional pattern in Lake Mendota: Env. Sci. and Technology, v. 3, no. 8, p. 754-759, illus., table; (abs.) Abs. North Am. Geol., p. 286, Feb. 1970; Geog. Abs. (A) v. 1, p. 88, 1970.
- Wenzel, Leland Keith.** *see* Meinzer, Oscar Edward
- West, G.F.** *see* Berry, M.J.
- West, R.M.; Dallman, John E.** 1978. Late Pleistocene vertebrate fossil record of Wisconsin: G.S.A., Abs. with Programs, 12th Ann. Mtg., Ann Arbor.
- West, Richard Gilbert.** 1961. Late and postglacial vegetational history in Wisconsin, particularly changes associated with the Valdres readvance: Am. Jour. Sci., v. 259, no. 10, p. 766-783, illus.
- West, Walter S.** *see also* Heyl, Allen Van, Jr.
- *see also* Klemic, Harry.
- *see also* Whitlow, Jesse W.
- 1971. Geologic map of the Ellenboro quadrangle, Grant Co., Wisconsin: U.S.G.S., Geol. Quad. Map GQ-959, scale 1:24,000, text.
- West, Walter S.; Blacet, Philip M.** 1971. Geologic map of the Lancaster quadrangle, Grant Co., Wisconsin: U.S.G.S., Geol. Quad. Map GQ-949, scale 1:24,000, text.
- West, Walter S.; Klemic, Harry.** 1961. Relation of fold structures to distribution of lead and zinc mineralization in the Belmont and Calamine quadrangles, Lafayette Co., Wisconsin, Art. 296: U.S.G.S., Prof. Paper 424-D, p. D9-D12, illus.
- West, Walter S.; Weeks, R.A.** 1977. Zinc and lead resources of Wisconsin: Univ. Wis., UIR/Research Newsletter, v. 12, no. 1, p. 10.
- Westbrook, W.T.** *see* Cole, W.A.
- Westphal, Klaus W.** 1974. New fossils from the Middle Ordovician Plattville Formation of southwest Wisconsin: Jour. Paleontology, v. 48, no. 1, p. 79-83, illus.
- Wheeler, Herbert Allen.** 1906a. Is the drilling sufficiently deep in the Wisconsin zinc region?: Eng. Min. Jour., v. 82, p. 167-169.
- 1906b. The Wisconsin zinc district, an old lead and zinc producing district which modern machinery and methods have rendered profitable: Mines and Minerals, v. 26, p. 368-372.
- 1908. The ore bodies of Etna Hill, Wisconsin: Mines and Minerals, v. 28, p. 320.
- Wheelwright, O.W.** *see* Hotchkiss, William Otis
- Whelan, James Arthur; Goldich, Samuel S.** 1961. New data for hisingerite and neotocite: Am. Mineralogist, v. 46, nos. 11-12, p. 1412-1423, illus., tables.
- Whetstone, George W.** *see* Knowles, Doyle B.
- Whisnant, D.** *see* Goetz, B.
- Whitbeck, Roy Hughes.** 1911. Contrasts between the glaciated and the driftless portions of Wisconsin: Geographic Soc. Philadelphia, Bull., v. 9, no. 3, p. 12-21, 114-123.
- 1912. Industries of Wisconsin and their geographic basis: Assoc. Am. Geographers, Annals, v. 2, p. 55-64.

- 1913a. Economic aspects of the glaciation of Wisconsin: *Assoc. Am. Geographers, Annals*, v. 3, p. 62-87.
- 1913b. The geography and industries of Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 26 (ed. ser. 3) 94 p., illus.
- 1915. The geography of the Fox-Winnebago Valley: *Wis. Geol. and Nat. History Survey, Bull.* 42 (ed. ser. 5) 109 p., illus.
- 1921. Geography and economic development of southeastern Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 58 (ed. ser. 6) 252 p., illus., maps.
- White, D.P.** *see* Wilde, S.A.
- White, George W.** 1964. Early discoverers-(pt. 1), early description and explanation of kettle holes, Charles Whittlesey (1808-1886): *Jour. Glaciology*, v. 5, no. 37, p. 119-222, illus.
- White, Walter S.** *see also* Books, Kenneth G.
- *see also* Dutton, Carl E.
- White, Walter S. (and others).** 1971. Keweenaw stratigraphy of westernmost Michigan in *Inst. Lake Superior Geology, 17th Ann., Abs. and Field Guides: Duluth, Minn., Univ. Minn.*, p. 71-72.
- White, Walter S.** 1966a. Geologic evidence for crustal structure in the western Lake Superior basin in Steinhart, J.S. and Smith, T.J., eds., *The earth beneath the continents: Am. Geophys. Union, Mon. 10 (Natl. Acad. Sci.- Natl. Research Council Pub. 1967)* p. 28-41, illus.
- 1966b. Tectonics of the Keweenaw basin, western Lake Superior region: *U.S.G.S., Prof. Paper 524-E*, p. E1-E23, illus., maps; (abs.) *U.S.G.S., Prof. Paper 525-A*, p. A81, 1965.
- 1972a. The base of the upper Keweenaw, Michigan and Wisconsin: *U.S.G.S., Bull.*, v. 1354-F, 23 p., illus.
- 1972b. Keweenaw flood basalts and continental rifting (abs.): *G.S.A., Abs. with Programs*, v. 4, no. 7, p. 732-734.
- 1978. A theoretical basis for exploration for native copper in northern Wisconsin: *U.S.G.S., Circ.* 769, 19 p.
- Whitfield, Robert Parr.** 1878. Preliminary descriptions of new species of fossils from the lower geological formations of Wisconsin: *Wis. Geol. Survey, Ann. Rpt.*, 1877, p. 50-89.
- 1880a. Descriptions of new species of fossils from the Paleozoic formations of Wisconsin: *Wis. Geol. Survey, Ann. Rpt.*, 1879, p. 44-71.
- 1880b. On the occurrence of true "Lingula" in the Trenton limestones: *Am. Jour. Sci.*, v. 19 (3) p. 472-475, illus.
- 1882. Paleontology in *Geology of Wisconsin: Wis. Geol. Survey, v. 4, pt. 3*, p. 161-363, illus.
- 1883. List of Wisconsin fossils in *Geology of Wisconsin: Wis. Geol. Survey, v. 1, pt. 2, chap. 4*, p. 362-375.
- 1894. On new forms of marine algae from the Trenton limestone, with observations on "Buthograptus lusus" Hall: *Am. Mus. Nat. History, Bull.*, v. 6, p. 351-358, illus.
- 1895. Republication of descriptions of fossils from the Hall collection in the American Museum of Natural History from the report of progress for 1861 of the geological survey of Wisconsin by James Hall, with illustrations from the original type specimens not heretofore figured: *Am. Mus. Nat. History, Memoirs*, v. 1, pt. 2, p. 39-74, illus.
- 1896. Notice and description of new species and a new genus of Phyllocaridae: *Am. Mus. Nat. History, Bull.*, v. 8, p. 299-304, illus.
- Whiting, Henry.** 1831. Remarks on the supposed tides and periodic rise and fall of the North American lakes: *Am. Jour. Sci.*, v. 20, p. 205-219
- Whitley, Richard.** 1966. Preliminary comparison of the petrography, mineralogy, and geochemistry of Precambrian granites near Butternut, Wisconsin: *Compass*, v. 44, no. 1, p. 30-42, illus., tables.
- Whitlow, Jesse W.; Brown, C. Ervin.** 1963. Geology of the Dubuque north quadrangle, Iowa-Wisconsin- Illinois: *U.S.G.S., Bull.* 1123-C, p. 139-168, illus., map.
- Whitlow, Jesse W.; West, Walter S.** 1966a. Geologic map of the Dickeyville quadrangle, Grant Co. Wisconsin: *U.S.G.S., Geol. Quad. Map GQ-488*, scale 1:24,000, text.
- 1966b. Geologic map of the Kieler quadrangle, Grant Co., Wisconsin, and Jo Daviess Co., Illinois: *U.S.G.S., Geol. Quad. Map GQ-487*, scale 1:24,000, text.
- 1966c. Geology of the Potosi quadrangle, Grant Co. Wisconsin, and Dubuque Co., Iowa: *U.S.G.S., Bull.* 1123-I, p. 533-571, illus., map.
- Whitney, Josiah Dwight.** *see also* Foster, John Wells
- *see also* Hall, James
- 1854. The metallic wealth of the United States: Philadelphia, p. 403-417, 477, 481-482.
- 1857. Remarks on the Huronian and Laurentian systems of the Canada Geological Survey: *Am. Jour. Sci.*, v. 23 (2) p. 305-314.
- 1858. On Prairie du Chien terrace: *Geol. Survey Iowa*, v. 1, p. 15-16.
- 1860. Note on the geological position of the Lake Superior sandstone: *Mining Mag.*, v. 1 (2) p. 435-446.
- 1862a. Economical and mining geology in Hall and Whitney, Report on the geological survey of the state of Wisconsin: v. 1, chap. 6, p. 221-420, illus.
- 1862b. Mineralogy in Hall and Whitney, Report on the geological survey of Wisconsin: v. 1, chap. 5, p. 193-220.
- 1862c. Physical geography and surface geology in Hall and Whitney, Report on the geological survey of Wisconsin: v. 1, chap. 3, p. 93-139, illus.
- 1862d. Report on the lead region—introductory and historical in Hall and Whitney, Report on the geological survey of the state of Wisconsin: v. 1, chap. 2, p. 73-92.
- 1862e. Stratigraphical geology in Hall and Whitney, Report on the geological survey of the state of Wisconsin: v. 1, chap. 4, p. 140-193.
- 1866. The first description of the Driftless Area: *Geol. Survey of Illinois*, v. 1, p. 160-162; *Economical Geology of Illinois*, v. 1, p. 123-124, 1862.
- 1877. Report of a geological survey of the upper Mississippi lead region: *Kentucky Geol. Survey, Rpt. Progress*, v. 2 (n s) p. 293-300.
- 1882. Geology of the lead region: *Economical Geology of Illinois*, v. 1, p. 118-162; *Geol. Survey of Illinois*, v. 1, p. 153-207, map, 1866.
- Whitney, Josiah Dwight; Wadsworth, Marshman E.** 1884. The Azoiic system and its proposed subdivisions: *Harvard College, Museum Comparative Zoology, Bull.* 7, p. 331-565; review *Am. Jour. Sci.*, v. 28 (3) p. 313-314.
- Whitson, Andrew Robeson (and others).** 1913. Soil survey of Waushara Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 28 (soil ser. 2) 63 p., illus., map.
- 1914a. Soil survey of Bayfield Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 31 (soil ser. 5) 51 p., illus., map.
- 1914b. Soil survey of Fond du Lac Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 37 (soil ser. 7) 85 p., illus., map.
- 1914c. Soil survey of Iowa Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 30 (soil ser. 4) 61 p., map.
- 1914d. Soil survey of Juneau Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 38 (soil ser. 8) 93 p., illus., map.
- 1914e. Soil survey of Kewaunee Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 39 (soil ser. 9) 84 p., illus., map.
- 1914f. Soil survey of La Crosse Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 40 (soil ser. 10) 77 p., illus., map.
- 1914g. Soil survey of Waukesha Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 29 (soil ser. 3) 82 p., illus., map.
- 1915. Soil survey of Vilas and portions of adjoining counties, Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 43 (soil ser. 11) 77 p., illus., map.
- 1916a. Reconnaissance soil survey of north-eastern Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 47 (soil ser. 12) 87 p., illus., map.
- 1916b. Soil survey of Columbia Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 49 (soil ser. 14) 84 p., illus., map.
- 1916c. Soil survey of Jefferson Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 48 (soil ser. 13) 77 p., illus., map.
- 1916d. Soil survey of the north part of north central Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 50 (soil ser. 15) 80 p., illus., map.
- 1917a. Soil survey of Buffalo Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 54-A (soil ser. 23) 76 p., illus., map.
- 1917b. Soil survey of Dane Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 53A (soil ser. 20), 86 p., illus., map.
- 1918a. Reconnaissance soil survey of the south part of north central Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 52A (soil ser. 16) 108 p., illus., map.
- 1918b. Soil survey of Portage Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 52C (soil ser. 18) 79 p., illus., map.
- 1918c. Soil survey of Wood Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 52B (soil ser. 17), 86 p., illus., map.
- 1919. Soil survey of Door Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 52D (soil ser. 19), 72 p., illus., map.
- 1921a. Soil survey of Outagamie Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 54-D (soil ser. 26) 78 p., illus., map.
- 1921b. Soil survey of Waupaca Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 54C (soil ser. 25) 84 p., illus., map.
- 1922. Soil survey of Rock Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 53B (soil ser. 21) 80 p., illus., map.
- 1923a. Soil survey of Jackson Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 54B (soil ser. 24) 85 p., illus., map.
- 1923b. Soil survey of Racine and Kenosha Counties: *Wis. Geol. and Nat. History Survey, Bull.* 56B (soil ser. 29) 94 p., illus., map.
- 1924a. Soil survey of Adams Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 61D (soil ser. 42) 83 p., illus., map.
- 1924b. Soil survey of Walworth County: *Wis. Geol. and Nat. History Survey, Bull.* 56C (soil ser. 30) 98 p., illus., map.
- 1925a. Soil survey of Calumet Co., Wisconsin: *Wis. Geol. and Nat. History Survey, Bull.* 61A (soil ser. 39) 28 p., illus., map.
- 1925b. Soil survey of Sauk County: *Wis. Geol. and Nat. History Survey, Bull.* 60C (soil ser. 36) illus., map.

- 1926a. Soil survey of Manitowoc County: Wis. Geol. and Nat. History Survey, Bull. 59B (soil ser. 32) illus., map.
- 1926b. Soil survey of Washington and Ozaukee Counties: Wis. Geol. and Nat. History Survey, Bull. 59C (soil ser. 33) 93 p., illus., map.
- 1927a. Soil survey of Trempealeau County: Wis. Geol. and Nat. History Survey, Bull. 60D (soil ser. 37) illus., map.
- 1927b. Soil survey of Winnebago County: Wis. Geol. and Nat. History Survey, Bull. 61B (soil ser. 40) 34 p., illus., map.
- 1928. Soil survey of Vernon Co., Wis.: Wis. Geol. and Nat. History Survey, Bull. 60E (soil ser. 38) 43 p., illus.
- 1929a. Soil survey of Bayfield Co., Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 72-A (soil ser. 50) 44 p., illus., map.
- 1929b. Soil survey of Brown County: Wis. Geol. and Nat. History Survey, Bull. 62A (soil ser. 43) 27 p., illus., map.
- 1929c. Soil survey of Green Lake County: Wis. Geol. and Nat. Hist. Survey, Bull. 61C (soil ser. 41) 79 p., illus., map.
- 1929d. Soil survey of Sheboygan County: Wis. Geol. and Nat. History Survey, Bull. 59A (soil ser. 31) 77 p., illus., map.
- 1930a. Soil survey of Green County: Wis. Geol. and Nat. History Survey, Bull. 53C (soil ser. 22) 82 p., illus., map.
- 1930b. Soil survey of Pierce County: Wis. Geol. and Nat. History Survey, Bull. 60A (soil ser. 34) 71 p., illus., map.
- 1947. Soil survey of Langlade County: Wis. Geol. and Nat. History Survey, Bull. 74 (soil ser. 52) 61 p., illus., map.
- 1948. Soil survey of Barron County: Wis. Geol. and Nat. History Survey, Bull. 73 (soil ser. 51) map.
- Whitson, Andrew Robeson.** 1927. Soils of Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 68 (soil ser. 49) 270 p., illus., map.
- 1930. Soil Survey of Crawford County: Wis. Geol. and Nat. History Survey, Bull. 62B (soil ser. 44) 39 p., illus., map.
- 1931. Soil survey of Monroe County: Wis. Geol. and Nat. History Survey, Bull. 60B (soil ser. 35) 93 p., illus., map.
- Whitson, Andrew Robeson; Ableiter, J. Kenneth.** 1931. Soils of Vilas County in Bordner, J.S., and Morris, W.W., Land economic inventory of northern Wisconsin, Vilas County: Wis. Dept. Ag. and Markets, Bull. 123, p. 29-34.
- Whitson, Andrew Robeson; Dunnewald, T.J.; Thompson, Carl.** 1919. The soils of northern Wisconsin: Univ. Wis., Agr. Experimental Station, Bull. 306, 40 p., illus., maps.
- 1921. Soil survey of northern Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 55 (soils ser. 27) 46 p., illus., map.
- Whitson, Andrew Robeson; Geib, W.J.; Dunnewald, T.J.** 1919. Soil survey of Milwaukee Co., Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 56A (soil ser. 28) 63 p., illus., map.
- Whitson, Andrew Robeson; Geib, W.J.; Kellogg, Charles Edwin.** 1929. The soils of Bayfield County in Land economic inventory of northern Wisconsin, Bayfield County: Wis. Dept. of Agr. and Markets, Bull. no. 100, p. 1-44, illus.
- Whitson, Andrew Robeson; Jones, E.R.** 1907. Drainage conditions of Wisconsin: Wis. Agr. Experimental Station, Bull. 146, 47 p.
- Whittecar, G. Richard; Mickelson, David M.** 1976. A theory of the formation of drumlins based upon their internal structures, Waukesha, Wisconsin, balance between erosion and growth (abs.): G.S.A., Abs. with Programs, v. 8, no. 6, p. 1168-1169.
- 1977. Sequence of till deposition and erosion in drumlins: Boreas, v. 6, no. 2, p. 213-217, illus., maps.
- Whittig, Lynn D.; Jackson, Marion L.** 1955. Interstratified layer silicates in some soils of northern Wisconsin in Milligan, W.O., ed., Clays and clay minerals: Natl. Research Council, Pub. 395, p. 322-336, illus.
- 1956. Mineral content and distribution as indexes of weathering in the Omega and Ahmeek soils of northern Wisconsin in Swineford, A., ed., Clays and clay minerals: Natl. Research Council, Pub. 456, p. 362-371, tables.
- Whittlesey, Charles.** 1851a. The ancient and present beaches of Lake Michigan in Foster, J.W. and Whitney, J.D., Report on the geology of the Lake Superior land district, pt. 2: U.S., 32d Cong., Sp. Sess., Senate Ex. Doc. 4, p. 270-273, illus.
- 1851b. Artesian wells in the red clay of Green Bay in Foster, J.W. and Whitney, J.D., Report on the geology of the Lake Superior land district, pt. 2: U.S., 32d Cong., Sp. Sess. Senate Ex. Doc. 4, p. 393-395.
- 1851c. The dip, bearing, and thickness of the Silurian groups in Foster, J.W. and Whitney, J.D., Report on the geology of the Lake Superior land district, pt. 2: U.S., 32d Cong., Sp. Sess., Senate Ex. Doc. no. 4, p. 177-183.
- 1851d. Magnetic variations—comparison of terrestrial and astronomical measurements in Foster, J.W. and Whitney, J.D., Report on the geology of the Lake Superior land district, pt. 2: U.S., 32d Cong., Sp. Sess., Senate Ex. Doc. no. 4, p. 347-350, tables.
- 1851e. On the observed fluctuations of the surfaces of the lakes in Foster, J.W. and Whitney, J.D., Report on the geology of the Lake Superior land district, pt. 2: U.S., 32d Cong., Sp. Sess., Senate Ex. Doc. 4, p. 319-331.
- 1851f. On the "superficial deposits" of the northwestern part of the United States: Am. Assoc. Adv. Sci., Proc., v. 5, p. 54-59; (abs.) Soc. Geol. France, Bull., v. 9 (3) p. 318-319.
- 1851g. Remarks upon the section from the Falls of Wolf River, through Navarino to Lake Michigan in Foster, J.W. and Whitney, J.D., Report on the geology of the Lake Superior land district, pt. 2: U.S., 32d Cong., Sp. Sess., Senate Ex. Doc., 4, p. 174-176.
- 1852a. Geological report on that portion of Wisconsin bordering on the south shore of Lake Superior in Owen, D.D., Report of a geological survey of Wisconsin, Iowa, and Minnesota: Philadelphia, p. 421-473.
- 1852b. Two months in the copper regions of Lake Superior in Fugitive Essays: Hudson, Ohio, Sawyer, Ingersoll and Co., p. 282-344.
- 1853. Drift of the northern and western states: Cleveland, Annals of Science, v. 1, no. 4, p. 47-48.
- 1858. Report of progress for the region between the Oconto and Menomonee rivers in Report of the commissioners of the geological survey (of Wis.): Madison, p. 5-7.
- 1859a. The fluctuations of the water level at Green Bay: Am. Jour. Sci., v. 27 (2) no. 81, p. 305-310.
- 1859b. Paleontology and the moral sense in Fugitive Essays: Cleveland, Ohio, no. 2, 7 p., maps (1875).
- 1860a. On the drift cavities, or "potash kettles" of Wisconsin: Am. Assoc. Adv. Sci., Proc., v. 13, p. 297-301.
- 1860b. On the origin of the Azoic rocks of Michigan and Wisconsin: Am. Assoc. Adv. Sci., Proc., v. 13, p. 301-308.
- 1863. The Penokee mineral range, Wisconsin: Boston Soc. Nat. History, Proc., v. 9, p. 235-244; in Geology of Wisconsin: Wis. Geol. Survey, v. 3, p. 216-223, 1880.
- 1865a. Marangoin River iron property, T.44 North, R.5 West, Ashland County: Cleveland, Ohio, Fairbanks, Benedict and Co., 7 p.; in Fugitive Essays: Cleveland, Ohio, no. 2 (1875).
- 1865b. The Montreal River Copper Location T.47 North, R.1 East, Ashland, County in Fugitive Essays: Cleveland, Ohio, no. 2, 3 p. (1875).
- 1865c. Opinike (or Potatoe) River property T.46 North, R.1 West, Ashland County in Fugitive Essays: Cleveland, Ohio, 3 p. (1875).
- 1865d. Tyler's Fork location, copper lands, T.45 North, R.2 West, Ashland County in Fugitive Essays: Cleveland, Ohio, no. 2, 3 p. (1875).
- 1866. On the fresh-water glacial drift of the northwestern states (Great Lakes region): Smithsonian Contributions, v. 15, article 3 (197) 32 p., illus.
- 1867. On the ice movements of the glacial era in the valley of the St. Lawrence: Am. Assoc. Adv. Sci., Proc., v. 15, p. 430-54.
- 1868. Abstract of remarks upon the occurrence of iron in masses: Am. Assoc. Adv. Sci., Proc., v. 16, p. 97-107.
- 1872a. Lake Komon iron property, Oconto Co., Wisconsin in Fugitive essays: Cleveland, Ohio, no. 2, 4 p. (1875).
- 1872b. Property of the Magnetic Iron Company, Ashland Co., Wisconsin in Fugitive Essays: Cleveland, Ohio, no. 2, 7 p. (1875).
- 1876. Physical geology of Lake Superior (abs.): Am. Assoc. Adv. Sci., Proc., v. 24, sec. B, p. 60-72, map.
- Wichmann, Arthur.** 1880. Microscopical investigations of Huronian rocks from the iron region of Lake Superior in Geology of Wisconsin: Wis. Geol. Survey, v. 3, pt. 7, chap. 5, p. 600-656.
- Wiersma, J.H.** see Iskandar, I.K.
- Wight, O.W.** 1877. Report of progress and results for the year 1875 in Geology of Wisconsin: Wis. Geol. Survey, v. 2, pt. 1, p. 67-89.
- Wignall, T.K.** see DeGeoffrey, J.
- Witala, S.W.** 1965. Magnitude and frequency of floods in the United States - part 4: U.S.G.S., Water-Supply paper 1677, 357 p.
- Wilcox, Oswin W.** 1905. The so-called alkali spots of the younger drift sheets: Jour. Geol., v. 13, no. 3, p. 259-263.
- Wilcox, Ray E.** 1935. Insoluble residues from Wisconsin sedimentary rocks; pt. 2, studies of Wisconsin sedimentary rocks; no. 4; insoluble residues of the Mendota (St. Lawrence) dolomite: Wis. Acad. Sci., Arts, and Letters, Trans., v. 29, p. 268-271, illus.
- 1936. Occurrence of large zircon needles in a basic pegmatite: Am. Mineralogist, v. 21, no. 7, p. 459.
- Wilde, S.A. (and others).** 1953. Influence of forest cover on the state of the ground-water table: Soil Sci. Soc. Am., Proc., v. 17, p. 65-67.
- Wilde, S.A.; Hull, H.J.** 1937. Use and function of peat in forest nurseries: Am. Soc. Agron., Jour., v. 29, p. 229-313.
- Wilde, S.A.; Randall, G.W.** 1951. Chemical characteristics of ground water in forest and marsh soils of Wisconsin: Wis. Acad. Sci., Arts, and Letters, Trans., v. 40, pt. 2, p. 251-259.
- Wilde, S.A.; Trach, J.; Peterson, S.F.** 1950. Electrochemical properties of ground water in major types of Wisconsin organic soils: Soil Sci. Soc. Am., Proc., 1949, v. 14, p. 279-281.
- Wilde, S.A.; Wilson, F.G.; White, D.P.** 1949. Soils of Wisconsin in relation to silviculture: Wis. Cons. Dept., Pub. no. 525-49, p. 171.
- Wilde, S.A.; Youngberg, C.T.; Hovind, J.H.** 1950. Changes in composition of ground water, soil fertility, and forest growth produced by the construction and removal of beaver dams: Jour. Wildlife Management, v. 14, no. 2, p. 124-128, illus., tables.

- Wiley, A.J.** see Wisniewski, Ted F.
- Wilgus, Wallace L.** see also Ellsworth, Elmer William
— 1933. Heavy minerals of the Dresbach sandstone of western Wisconsin: *Jour. Sed. Petrology*, v. 3, no. 2, p. 83-91, illus.
- Wilke, Robert F.** see Cheetham, Robert N.
- Williams, Charles R.; Blandy, John F.** 1862. Some contributions to a knowledge of the constitution of the copper ranges of Lake Superior: *Am. Jour. Sci.*, v. 34 (2) p. 112-120.
- Williams, F.E.** see Martin, Lawrence
- Williams, George H.** 1884. On the paramorphosis of pyroxene to hornblende in rocks: *Am. Jour. Sci.*, v. 28 (3) p. 259-268.
- Williams, Gordon R. (and others).** 1940. Natural water loss in selected drainage basins: U.S.G.S., Water-Supply Paper 846, 62 p., illus.
- Williams, Gordon R.; Crawford, Lawrence C.** 1940 (1941) Maximum discharges at stream-measurement stations through Dec. 31, 1937: U.S.G.S., Water-Supply Paper 847, 272 p.
- Williams, J.D.H. (and others).** 1971. Characterization of inorganic phosphate in noncalcareous lake sediments: *Soil Sci. Soc. Am., Proc.*, v. 35, no. 4, p. 556-561, illus.
- Williams, William G.** 1846. Report of the survey of Green Bay: U.S., 29th Cong., 1st Sess., Exec. Doc. 170, map.
- Willman, H.B.; Kolata, Dennis R.** 1978. The Platteville and Galena groups in northern Illinois: *Ill. Geol. Survey, Circ.* 502, 75 p., illus., maps.
- Willman, Harold B.** see Frye, John Chapman
- Wilson, F.C.** see Juday, Chancey
- Wilson, F.G.** see Wilde, S.A.
- Wilson, James Lee.** see also Lochman-Balk, Christina
- Wilson, James Lee; Fredrickson, Edward Arthur, Jr.** 1950. The "Irvingella major" ("Ptychopleurites") faunzone of the upper Cambrian: *Am. Jour. Sci.*, v. 248, no. 12, p. 891-902, illus.
- Wilson, Leonard Richard.** 1932. The Two Creeks forest bed, Manitowoc Co., Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 27, p. 31-46, illus.; (abs.) *Am. Meteorol. Soc., Bull.*, v. 19, no. 5, p. 186, 1938.
— 1935. Lake development and plant succession in Vilas Co., Wisconsin: *Ecological Monographs*, v. 5, p. 207-247, illus.
— 1936. Further studies of the Two Creeks forest bed, Manitowoc Co., Wisconsin: *Torrey Bot. Club, Bull.*, v. 63, p. 317-325.
— 1937. The postglacial history of the forest of northwestern Wisconsin (abs.): *Iowa Acad. Sci., Proc.*, v. 43, p. 158.
— 1938a. Further fossil studies of the Two Creeks forest bed, Manitowoc Co., Wisconsin (abs.): *Am. Meteorol. Soc., Bull.*, v. 19, no. 5, p. 186; *Torrey Bot. Club, Bull.*, v. 63, no. 6, p. 317-325, illus., 1936.
— 1938b. The Nipissing flora of the Apostle Islands (Wis.) region (abs.): *Am. Meteorol. Soc., Bull.*, v. 19, no. 5, p. 186-187; *Iowa Acad. Sci., Proc.*, v. 42, p. 138, 1935; *Torrey Bot. Club Bull.*, v. 62, no. 9, p. 533-535, 1935.
— 1938c. The post-glacial history of vegetation in northwestern Wisconsin: *Rhodora*, v. 40, no. 472, p. 137-175, illus.
- Wilson, Leonard Richard; Cross, Aureal T.** 1943. A study of the plant microfossil succession in the bottom deposits of Crystal Lake, Vilas Co., Wisconsin and the peat of an adjacent bog: *Am. Jour. Sci.*, v. 241, no. 5, p. 307-315, illus.
- Wilson, Leonard Richard; Galloway, Eleanor F.** 1937. Microfossil succession in a bog in northern Wisconsin: *Ecology*, v. 18, no. 1, p. 113-118, illus.
- Wilson, Leonard Richard; Webster, Ruth M.** 1942a. Fossil evidence of wider post-Pleistocene range for butternut and hickory in Wisconsin: *Rhodora*, v. 44, no. 527, p. 409-414, illus.; (a reply) v. 46, no. 545, p. 149-155, 1944.
— 1942b. Microfossil studies of three northcentral Wisconsin bogs: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 34, p. 177-193, illus.
- Wimmer, Edward Joseph.** 1929. A study of two limestone quarry pools: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 24, p. 363-399.
- Winchell, Alexander Newton (and others).** 1920. Handbook of mining in the Lake Superior region: Minneapolis, Am. Inst. Mining and Met. Eng., Lake Superior mtg., 260 p., illus., maps.
- Winchell, Alexander Newton; Miller, E.R.** 1918b. The dustfalls of March, 1918: *Missouri Weather Rev.*, v. 46, p. 502-506.
— 1919. Further notes on the dustfall of March 9, 1918: *Am. Jour. Sci.*, v. 47 (4) p. 133-134.
— 1922. The great dustfall of March 19, 1920: *Am. Jour. Sci.*, v. 3 (5) p. 349-364.
- Winchell, Alexander.** 1864. Notice of a small collection of fossils from the Potsdam sandstone of Wisconsin and the Lake Superior sandstone of Michigan: *Am. Jour. Sci.*, v. 37 (2) p. 226-232.
— 1891. American opinion on the older rocks: *Geol. Survey Minnesota*, 18th Rpt., p. 65-219.
- Winchell, Horace Vaughan.** see Winchell, Newton Horace
- Winchell, Newton Horace.** 1871. The glacial features of Green Bay of Lake Michigan, with some observations on a probable former outlet of Lake Superior: *Am. Jour. Sci.*, v. 2 (3) p. 15-19.
— 1874. Geological notes from early explorers in the Minnesota Valley: *Minnesota Acad. Sci., Bull.* 1, p. 153-156.
— 1877. On the Driftless Area: *Minn. Geol. and Nat. History Survey*, 5th Ann. Rpt., p. 9, 34-38; 1st Ann. Rpt., p. 46, 61, 1873; 4th Ann. Rpt., p. 5, 21, 59-62, 1870; *Geology of Minnesota*, v. 1, p. 117, 213, 227, 245, 260, 275, 278, 311-312, 317, 406, 1884; v. 2, p. 2, 14-15, 398, 1888.
— 1881. The geology of the upper Mississippi and St. Louis Valleys in History of the upper Mississippi Valley: Minneapolis, Minnesota Historical Company, p. 700-707.
— 1883. The Lake Superior rocks: *Science*, v. 1, no. 12, p. 334.
— 1885a. The crystalline rocks of the Northwest: *Am. Assoc. Adv. Sci., Proc.* 33, p. 363-379; *Am. Nat.*, v. 18, p. 984-1001, 1884; *Minn. Geol. and Nat. History Survey*, 13th Ann. Rpt. p. 124-140, 1885; (abs.) *Science*, v. 4, p. 238-240, 1884; *Am. Jour. Sci.*, v. 30 (3) p. 397, 1885.
— 1885b. Fossils from red quartzite at Pipestone: *Minn. Geol. and Nat. History Survey*, 13th Ann. Rpt. 1884, p. 65-72, 68-70; (abs.) *Am. Jour. Sci.*, v. 30 (3) p. 396-397; *Science*, v. 6, p. 220, 1885.
— 1888a. Changes of level in Lake Pepin: *Geology of Minnesota*, v. 2, p. 3-6, 25-26.
— 1888b. A great primordial quartzite: *Am. Geologist*, v. 1, no. 3, p. 173-178.
— 1895a. The age of the Galena limestone: *Am. Geologist*, v. 15, no. 1, p. 33-39.
— 1895b. The Keweenawan according to the Wisconsin geologists: *Am. Geologist*, v. 16, p. 75-86.
— 1895c. The latest eruptives of the Lake Superior region: *Am. Geologist*, v. 16, no. 5, p. 269-274.
— 1895d. A rational view of the Keweenawan: *Am. Geologist*, v. 16, p. 150-162.
- 1904. The Baraboo iron ore: *Am. Geologist*, v. 34, p. 242-253.
- Winchell, Newton Horace; Schuchert, Charles.** 1895a. The lower Silurian brachiopoda of Minnesota in *Geology of Minnesota*: *Minn. Geol. and Nat. History Survey*, v. 3, pt. 1, chap. 5, p. 339-341, 349-351, 354-355, 360, 365, 372-374, 378-380, 382, 385-395, 398, 401-407, 411-424, 427-431, 433-439, 441-444, 446-452, 455-457, 459-468, 474, illus.
— 1895b. Sponges, graptolites and corals from the Lower Silurian of Minnesota in *Geology of Minnesota*: *Minn. Geol. and Nat. History Survey*, v. 3, pt. 1, chap. 3, p. 57-59, 64-65, 66-67, 79, 85, 88-91, illus.
- Winchell, Newton Horace; Ulrich, Edward Oscar.** 1897. The lower Silurian deposits of the upper Mississippi province, a correlation of the strata with those in the Cincinnati, Tennessee, New York, and Canadian provinces, and the stratigraphic and geographic distribution of the fossils in *The Geology of Minnesota*: *Minn. Geol. and Nat. History Survey*, *Paleo.*, v. 3, pt. 2, p. lxxxiii-cxxvii.
- Winchell, Newton Horace; Winchell, Horace Vaughan.** 1891. The iron ores of Minnesota, their geology, discovery, development, qualities, and origin, and comparison with those of other iron districts: *Geol. Survey Minnesota*, *Bull.* 6, p. 23, 146-147, 157-161, illus., maps; (abs.) *Eng. Mining Jour.*, v. 52, p. 3; *Am. Geologist*, v. 7, p. 370-374.
- Winslow, Arthur.** 1893. Notes on the lead and zinc deposits of the Mississippi Valley and the origin of the ores: *Jour. Geol.*, v. 1, no. 5, p. 612-619.
— 1894a. The genesis of ore deposits—a discussion of the paper of Prof. Posenopy: *Am. Inst. Mining Eng., Trans.*, v. 23, p. 588-589.
— 1894b. Lead and zinc deposits: *Missouri Geol. Survey*, v. 6, sec. 1, p. 135-149, maps.
- Wirth, Harvey E.** 1947. Ground water supplies of Wisconsin: *Am. Water Works Assoc., Jour.* v. 39, no. 1, p. 93-100, tables.
- Wisconsin Committee on Water Pollution.** 1965. Wisconsin surface water quality, 1961-1964: Madison, 96 p., map.
- Wisconsin Conservation Department.** 1957. Wisconsin trout streams: *Wis. Cons. Dept. Pub.* 213-51, 23 p.
— 1958a. Smallmouth bass streams in Wisconsin: *Pub.* 224, 11 p.
— 1958b. Wisconsin lakes: *Pub.* 218-58, 35 p.
— 1959a. Rock County wetlands: Game Management Div., Wis. wetland inventory, 96 p., maps.
— 1959b. Walworth County wetlands: Game Management Div., Wis. wetland inventory, 80 p., tables, maps.
— 1960a. Columbia County wetlands: Game Management Div., Wis. wetland inventory, 108 p., maps.
— 1960b. Racine and Kenosha County wetlands: Game Management Div., Wis. wetland inventory, 92 p., tables, maps.
— 1960c. Waukesha County wetlands: Game Management Div., Wis. wetland inventory, 78 p., maps.
— 1961a. Dane County wetlands: Game Management Div., Wis. wetland inventory, 150 p., tables, maps.
— 1961b. Dodge County wetlands: Game Management Div., Wis. wetland inventory, 114 p., tables, maps.
— 1961c. Fond du Lac County wetlands: Game Management Div., Wis. wetland inventory, 102 p., tables, maps.
— 1961d. Jefferson County wetlands: Game Management Div., Wis. wetland inventory, 82 p., tables, maps.
— 1962a. Green County wetlands: Research and Planning Div., 78 p., tables, maps.

- 1962b. Winnebago County wetlands: Research and Planning Div., Wis. wetland inventory, 78 p., tables, maps.
- 1963a. Green Lake County wetlands: Research and Planning Div., Wis. wetland inventory, 64 p., tables, maps.
- 1963b. Marquette County wetlands: Research and Planning Div., Wis. wetland inventory, 76 p., tables, maps.
- Wisconsin Department Administration, State Planning Office.** 1974a. Generalized soil limitations for use of septic systems: Land resources analysis program, no. 1, scale 1:500,000, text.
- 1974b. Generalized soil limitations to construction activities: Land resources analysis program, no. 2, scale 1:500,000, text.
- 1974c. Generalized soil erosion hazard: Land resources analysis program, no. 3, scale 1:500,000, text.
- 1974d. Major public open space: Land resources analysis program, no. 4, scale 1:500,000, text.
- 1974e. Lands of special public policy designation: Land resources analysis program, no. 5, scale 1:500,000, text.
- 1974f. Major areas of potential flood hazard and steep slope: Land resources analysis program, no. 6, scale 1:500,000, text.
- 1974g. Generalized land cover - interpreted from ERTS-1 satellite imagery: Land resources analysis program, no. 7, scale 1:500,000, text.
- 1974h. Generalized soil productivity for field crops: Land resources analysis program, no. 8, scale 1:500,000, text.
- 1974i. Generalized soil productivity for canning crops: Land resources analysis program, no. 9, scale 1:500,000, text.
- 1976. Glacial deposits of Wisconsin, sand and gravel resource potential: Land resources analysis program, David Hadley and James Pelham, compilers, no. 10, scale 1:500,000, text.
- Wisconsin Department Natural Resources.** *see also* National Park Service
- 1967a. Model county flood plain zoning ordinance using detailed soils survey information and experienced flood maps: Div. Resource Development, 25 p.
- 1967b. Model flood plain zoning ordinance for a city or village: Div. Resource Development, 27 p., illus.
- 1967c. Wisconsin's flood plain management program: Div. Resource Development, 29 p.
- 1968. Flood plain management Baraboo River, City of Baraboo: Div. Env. Protection, 9 p., maps.
- 1970a. Public water supply data: Div. Environmental Protection, 101 p.
- 1970b. Wisconsin lakes: Pub. 218-70, 75 p.
- Wisconsin Department Natural Resources; Wisconsin Geological and Natural History Survey.** 1976. Zoning and financial incentives for reservation of mineral lands in Wisconsin: Wis. Geol. and Nat. History Survey Sp. Rpt. 6, 151 p., illus., tables, maps.
- Wisconsin Geological and Natural History Survey.** *see also* United States Geological Survey
- *see also* Wisconsin Department Natural Resources
- 1911. Geology and road map of Wisconsin: Baltimore, A. Hoen & Co., printer, scale 1 inch = 6 miles.
- 1961. Hydrographic map of Madison area lakes: scale 1:24,000.
-
- 1964. Glacial deposits of Wisconsin: scale app. 1:2,700,000, text.
- 1965a. Early vegetation of Wisconsin: scale app. 1:2,700,000, text.
- 1965b. Geological map of Wisconsin: scale 1:1,000,000, revision of 1949 by E.F. Bean.
- 1968. Aeolian silt and sand deposits of Wisconsin: scale app. 1:2,700,000, text.
- 1971. Geologic map of Wisconsin: scale app. 1:2,700,000, text.
- Wisconsin Michigan Power Company.** 1945-197-. Monthly weather bulletin and Menominee River data summary (with annual summaries): tables, charts.
- Wisconsin Natural Resources Committee of State Agencies.** 1957. The natural resources of Wisconsin: pt. 1, chap. 2, p. 12-16, pt. 3, chap. 5, p. 104-110, pt. 4, chap. 2, p. 118-130, illus., map.
- Wisconsin Speleological Society.** 1960. Index to Wisconsin caves: Wis. Speleologist, v. 1, no. 1, p. 4-15.
- Wisconsin State Planning Board.** 1938a. The Fox River Valley; a study of the Fox-Wolf watershed as it is affected by the river and its fluctuations: Bull. 5, 69 p., illus.
- 1938b. The proposed Wisconsin-Fox Rivers development plan: Bull. 6, 75 p.
- 1939a. The Horicon Marsh: Bull. 9, 38 p., maps.
- 1939b. Wisconsin land inventory for Lafayette County: 20 p.
- 1940. The Milwaukee River basin - a study of rainfall and runoff, floods and the possibilities of flood control: Bull. 10, 69 p., maps.
- Wisniewski, Stanley P.** 1934. Choice millerite collection at Milwaukee: Oregon Mineralogist, v. 2, no. 12, p. 18.
- Wisniewski, Ted F.; Wiley, A.J.; Lueck, B.F.** 1956. Ponding and soil filtration for disposal of spent sulphite liquor in Wisconsin: Tech. Assoc. Pulp, Paper Industry, v. 39, no. 2, p. 65-71.
- Wittry, Warren L.** *see also* Black, Robert Foster
- 1959. The Raddatz rockshelter, Sk 5, Wisconsin: Wis. Archeologists, v. 40, no. 2, p. 33-69.
- 1964. Earliest man in the upper Great Lakes area: Cranbrook Inst. Sci., Newsletter, v. 34, no. 3, p. 34-40, illus.
- Wold, Richard J.** *see also* O'Hara, Norbert W.
- 1968. Geophysical study of Lake Superior (abs.) in Inst. Lake Superior Geology, 14th Ann., 1968, Tech. Sess. Abs.: Wis. State Univ., Superior, p. 11.
- 1969. Shallow seismic studies in western Lake Superior (abs.) in Inst. Lake Superior Geology, 15th Ann., 1969, Tech. Sess. Abs.: Wis. State Univ., Oshkosh, Dept. Geology, p. 41.
- Wold, Richard J.; Berkson, Jonathan Milton.** 1977. Bouguer gravity anomaly map of Lake Superior: U.S.G.S., Misc. Field Studies Map, MF-884, scale 1:500,000.
- Wold, Richard J.; Ostenso, Ned A.** 1966. Aeromagnetic, gravity, and sub-bottom profiling studies in western Lake Superior in Steinhart, J.S. and Smith, T.J., eds., The earth beneath the continents: Am. Geophys. Union, Mon. 10, p. 66-94, illus.; (abs.) in Inst. Lake Superior Geology, 12th Ann., 1966: Sault Ste. Marie, Mich., Mich. Tech. Univ., p. 29.
- Woll, F.W.** 1896. The marls of Wisconsin: Univ. Wis., Agr. Exp. Station, Bull. 51, 16 p.
- Wood, Percy O.** *see* Weidman, Samuel
- Woodard, H.H.** *see also* Krueger, Harold W.
- *see also* Odom, I. Edgar
- 1972. Syngenetic sanidine beds from middle Ordovician Saint Peter sandstone, Wisconsin: Jour. Geol., v. 80, no. 3, p. 323-332.
- Woodman, E.E.** 1882. The pipestone of Devils' Lake: Wis. Acad. Sci., Arts, and Letters, Trans., v. 5, p. 251-254.
- Woodward, David A.** 1971. Landforms of Wisconsin: Wis. Geol. and Nat. History Survey, scale 1:2,700,000.
- 1972. Landforms of Wisconsin: Wis. Geol. and Nat. History Survey, scale 1:1,000,000.
- Woolhiser, David A.; Miller, Carl R.** 1963. Case histories of gully control structures in southwestern Wisconsin: U.S.D.A., Ag. Research Service, ARS 41-60, 28 p.
- Woollard, George P.** *see also* Coons, Richard L.
- *see also* Meyer, Robert P.
- *see also* Steinhart, John S.
- Woollard, George P.; Hanson, George Fulford.** 1954. Geophysical methods applied to geologic problems in Wisconsin: Wis. Geol. and Nat. History Survey, Bull. 78 (sci. ser. 15) 255 p., illus.
- Wooster, Lyman C.** 1878. Work in St. Croix, Dunn, and adjacent counties: Wis. Geol. Survey, Ann. Rpt., 1877, p. 36-41.
- 1882. Geology of the lower St. Croix district in Geology of Wisconsin: Wis. Geol. Survey, v. 4, pt. 2, p. 99-159, illus.; (abs.) Am. Jour. Sci., v. 27 (3) p. 149, 1884.
- 1884. Transition from the copper-bearing series to the Potsdam: Am. Jour. Sci., v. 27 (3) p. 463-465.
- Workman, Lewis Edwin (and others).** 1935. Mississippi Valley geologic cross section: Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook, p. 362-372, illus.
- Workman, Lewis Edwin.** 1935. Isopach map of the Silurian System in the Mississippi Valley: Kansas Geol. Soc., 9th Ann. Field Conf., Guidebook, p. 340-341, text.
- 1950. The Neda formation in northeastern Illinois: Ill. State Acad. Sci., Trans., 1950, v. 43, p. 176-182, illus.; Ill. State Geol. Survey, Circ. 170, p. 176-182, illus., 1951.
- Workman, Lewis Edwin; Bell, Alfred Hannam.** 1948. Deep drilling and deeper oil possibilities in Illinois: Am. Assoc. Pet. Geol., Bull., v. 32, no. 11, p. 2041-2062, map.
- Works, L.P.** 1941. Rhenium-bearing molybdenite in northern Wisconsin: Rocks and Minerals, v. 16, no. 3, p. 92-93.
- Wright, Charles E.** 1876. Geology of Lake Superior iron district in Swineford, A.P., History and review of the copper, iron, and other interests of the south shore of Lake Superior: Marquette, p. 132-145.
- 1877a. Microscopic lithology in Geology of Wisconsin: Wis. Geol. Survey, v. 2, pt. 3, p. 637-642.
- 1877b. Report on work in the Menominee and Penokee regions: Wis. Geol. Survey, Ann. Rpt., 1876, p. 18-23.
- 1878. Preliminary survey report of the Pine River Iron District in Oconto County: Wis. Geol. Survey, Ann. Rpt., 1877, p. 33-36, illus.
- 1880a. The geology of the Menominee iron range in Geology of Wisconsin: Wis. Geol. Survey, v. 3, pt. 8, p. 665-734, illus.
- 1880b. The Huronian series west of Penokee Gap in Geology of Wisconsin: Wis. Geol. Survey, v. 3, pt. 4, p. 239-301, maps.
- Wright, Clarence A.** 1915. Mining and milling of lead and zinc ores in the Wisconsin district, Wisconsin: U.S. Bur. Mines, Tech Paper 95, 38 p.
- Wright, H.E., Jr.** 1964. The classification of the Wisconsin glacial stage: Jour. Geol., v. 72, p. 628-637, table.

- 1971. Retreat of the Laurentide ice sheet from 14,000 to 9,000 years ago: *Quaternary Research*, v. 1, p. 316-330.
- Wright, O.A.** 1872. On the mineral well at Waterloo, Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 1, p. 154.
- Wu, S.M.** see De Geoffroy, J.
- Wurman, E.** 1960a. A mineralogical study of a gray-brown podzolic soil in Wisconsin derived from glauconitic sandstone: *Soil Sci.*, v. 89, no. 1, p. 38-44, illus., maps.
- 1960b. Pedogenic and petrogenic characteristics of soil profiles developed in silt-mantled acid shale (Wis.): *Soil Sci.*, v. 90, no. 6, p. 348-356, illus., maps.
- 1962. The geologic material-its impact on soil profile characteristics in west central Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, 1961, v. 50, p. 191-202, illus., tables.
- Wyman, Jeffries.** 1862. Observations upon the mammalian remains of extinct and existing species found in the crevices of the lead-bearing rock, and in the superficial accumulations within the lead region of Wisconsin and Iowa in Hall and Whitney, Report on the geological survey of Wisconsin: v. 1, chap. 7, p. 421-423.
- Wyrick, G.G.** see Meyer, Gerald
- Yanggen, Douglas A.** see Parker, Dale Edward
- Yehle, Lynn Alois.** 1954. Soil tongues and their confusion with certain indicators of periglacial climate (Wis.): *Am. Jour. Sci.*, v. 252, no. 9, p. 532-546, illus.
- Young, A.A.** 1882a. Further observation on the crystallized sands of the Potsdam sandstone of Wisconsin: *Am. Jour. Sci.*, v. 24 (3) p. 47-49.
- 1882b. On sandstones having the grains in part quartz crystals: *Am. Jour. Sci.*, v. 23 (3) p. 257.
- Young, C.T.** 1975a. Electrical resistivity measurements at a power plant site to determine bedrock depths and to trace conductive contaminants in groundwater (abs.): *EOS (Am. Geophys. Union, Trans.)* v. 56, no. 9, p. 598.
- 1975b. Magnetotelluric measurements in Precambrian Wisconsin: *EOS (Am. Geophys. Union, Trans.)* v. 56, no. 6, p. 357.
- 1977. Magnetotellurics over conductive structures in northern Wisconsin (abs.): *Geophysics*, v. 42, no. 7, p. 1549.
- Young, Grant M.** 1969. Stratigraphical and sedimentological comparison of early Proterozoic rocks of southeast Wyoming and the Great Lakes region (abs.) in *Inst. Lake Superior Geology*, 15th Ann., 1969, Tech. Sess. Abs.: Wisconsin State Univ., Oshkosh, Dept. Geology, p. 45-46.
- Young, Harley L.** 1977. Digital-computer model of the sandstone aquifer in southeastern Wisconsin (abs.): *G.S.A., Abs. with Programs*, v. 9, no. 5, p. 669.
- Young, Harley L.; Borman, Ronald G.** 1974. Water resources of Wisconsin-Trempealeau-Black River basin: *U.S.G.S., Hydro. Inv. Atlas HA-474*, scale 1:1,000,000, 4 sheets.
- Young, Harley L.; Hindall, Stephen M.** 1972. Water resources of Wisconsin-Chippewa River basin: *U.S.G.S., Hydro. Inv. Atlas, HA-386*, scale 1:1,000,000, 4 sheets.
- 1973. Water resources of Wisconsin-St. Croix River basin: *U.S.G.S., Hydro. Inv. Atlas, HA-451*, scale 1:1,000,000, 4 sheets.
- Young, Harley L.; Skinner, Earl L.** 1974. Water resources of Wisconsin-Lake Superior basin: *U.S.G.S., Hydro. Inv. Atlas, HA-524*, scale 1:1,000,000, 3 sheets.
- Young, Ken B.** see also Holt, Charles Lee Roy, Jr.
- 1962. Surface-water investigations program in Wisconsin: *Wis. Academy Review*, v. 9, no. 2, p. 63-69.
- Young, Ruth Celeste** see Boardman, Leona
- Youngberg, C.T.** see Wilde, S.A.
- Zablocki, C.J.** 1966. Electrical properties of some iron-formations and adjacent rocks in the Lake Superior region in *Mining geophysics: Tulsa, Okla., Soc. Explor. Geophysicists*, v. 1, Case histories, p. 465-492.
- Zahner, Robert** see Farrand, William R.
- Zakrzewska, Barbara.** 1970. Paleo-geographic implications of clay ball deposits under Valderan till in eastern Wisconsin: *Wis. Acad. Sci., Arts, and Letters, Trans.*, v. 58, p. 153-162, illus.; (abs.) *Abs. North Am. Geol.*, p. 128, Jan. 1971.
- 1971. Valleys of driftless areas: *Assoc. Am. Geographers, Annals*, v. 61, no. 3, p. 441-459, illus.
- Zakrzewska-Borowiecki, Barbara.** 1975a. Land forms of southeastern Wisconsin in *Zakrzewska-Borowiecki, B., ed., Landscapes of Wisconsin*, a field guide: *Assoc. Am. Geog.*, p. 30-51, illus.
- 1975b. Landscapes of Wisconsin, a field guide (ed.): *Assoc. Am. Geog.*, 122 p., illus., maps.
- Zapffe, Carl.** 1927. Reserves of Lake Superior manganese iron-ores: *Am. Inst. Mining and Met. Eng., Trans.*, v. 75, p. 346-369, illus.
- Zaporozec, Alexander.** 1971. Ground-water investigations index of Wisconsin: *Univ. Wis., Water Resources Center, Hydraulic and Sanitary Lab.*, 29 p., illus.
- 1974. Hydrogeologic evaluation of solid waste disposal in south central Wisconsin: *Wis. Dept. Nat. Resources, Tech. Bull. No. 78*, 31 p., illus., maps.
- 1975. Hydrogeologic aspects of ground-water management in Wisconsin (abs.): *Dissert. Abs. Internat.*, Sec. B, v. 36, no. 8, p. 3835B.
- Zaporozec, Alexander; Hanson, Christine Reinhard.** 1974. Bibliography and index of Wisconsin groundwater, 1851-1972: *Wis. Geol. and Nat. History Survey, Sp. Rpt. 2*, 100 p., map.
- Zaporozec, Alexander; Hole, Francis D.** 1976. Resource suitability analysis in regional planning -- with special reference to Wisconsin, U.S.A.: *Geoforum*, v. 7, p. 13-22.
- Zawacki, R.L.** see Ziegler, A.M.
- Zeasman, O.R.** see Bates, C.G.
- Ziegler, A.M.; Zawacki, R.L.** 1969. Fossil communities in the Lower Silurian deposits of the midwestern United States (abs.): *G.S.A., Sp. Paper 121*, p. 672.
- Zietz, Isidore.** see also King, Elizabeth R.
- see also Sims, P.K.
- 1978. A new detailed aeromagnetic map covering most of the Precambrian shield in Wisconsin (abs.) in *Inst. Lake Superior Geology*, 24th Ann., 1978, Abs. and Proc.: *Univ. Wis., Milwaukee*, p. 41.
- Zietz, Isidore; Karl, John H.; Ostrom, Meredith E.** 1977. Preliminary aeromagnetic map covering most of the exposed Precambrian terrane in Wisconsin: *U.S.G.S., Misc. Field Studies Map, MF-888*, scale 1:250,000.
- Zietz, Isidore; Kirby, John R.** 1971. Aeromagnetic map of the western part of the northern peninsula, Michigan and part of northern Wisconsin: *U.S.G.S., Geophys. Inv. Map, GP-750*, scale 1:250,000.
- Zimmerman, E.H.** see Bedford, B.L.
- Zimmerman, James H.** see also Bedford, B.L.
- 1970. Plant ecology of the Baraboo Hills in Dalziel and Dott, *Geology of the Baraboo District, Wisconsin: Wis. Geol. and Nat. History Survey, Inf. Circ. 14*, p. 78-81, table.
- Zimmermann, Richard A.** 1969. Sediment-ore-structure relations in barite and associated ores and sediments in the upper Mississippi Valley zinc-lead district near Shullsburg, Wisconsin: *Mineralium Deposita*, v. 4, no. 3, p. 248-259 (incl. Ger. abs.) illus.
- Zinner, Paul.** see also Renwick, Margaret O.
- Zinner, Paul; Holmberg, Clyde L.** 1947. Investigation of the iron-bearing formation of the western Gogebic range, Iron Co., Wisconsin: *U.S. Bur. Mines, Rpt. Inv. 4155*, 48 p., illus., map.
- Zube and Dega Associates.** 1964. Wisconsin's Lake Superior shoreline: *Wis. Dept. Nat. Resources, Div. Resource Development, Bull. 3*, 42 p., illus.
- Zube, Ervin H.** 1963. Taconite and the landscape Lake Superior south shore area: *Wis. Dept. Nat. Resources, Div. Resource Development*, 34 p.
- Zumberge, James Herbert.** see also Farrand, William R.
- Zumberge, James Herbert; Potzger, John Ernest.** 1956. Late Wisconsin chronology of the Lake Michigan Basin correlated with pollen studies: *G.S.A., Bull.*, v. 67, no. 3, p. 271-288, illus.
- Zwickey, Wayne R.** 1969. Exploration of the Round Lake anomaly, Sawyer Co., Wisconsin (abs.) in *Inst. Lake Superior Geology*, 15th Ann., 1969, Tech. Sess. Abs.: *Wis. State Univ., Oshkosh, Dept. Geology*, p. 47.

