BIBLIOGRAPHY OF YORKSHIRE GEOLOGY, 1920-21.

By T. SHEPPARD, M.Sc., F.G.S.

1920.

- ANON.—The North Riding, Some Minor Points [Notice of W. J. Weston's book; see under 1919]. *The Naturalist*, January, pp. 7-8.
- Carboniferous Zones. *The Naturalist*, January, p. 10.
- Type Ammonites [notice of S. S. Buckman's Monograph]. *The Naturalist*, February, p. 49; and July, p. 209.
- Mr. G. W. Lamplugh's Presidential Address: Source of Material: Distribution of Glacial Deposits; Another Version. *The Naturalist*, April, pp. 115-117.
- Prehistoric Implements, Materials used [report of T. Sheppard's paper]. *The Naturalist*, May, pp. 146-147.
- Investigation of Yorkshire Rivers. *The Naturalist*, May, pp. 150-151.
- Kettlewell: Past and Present [notice of J. C. Sowerbutt's volume]. *The Naturalist*, July, pp. 210-211.
- Hull Museum [Geological Specimen from Bridlington]. *Museums Journal*, March, pp. 150.
- Special Reports on the Mineral Resources of Great Britain. Vol. IX., Iron Ores (continued) [review of]. *Geol. Mag.*, January, pp. 38-39.
- [signed A.S.]—Obituary: Wheelton Hind, M.D., B.S., F.R.C.S., F.G.S. *Geol. Mag.*, October, pp. 476-480.
- Official Quarry Statistics. *Quarry*, March, pp. 53-54.
- ANDERSON, R. W.—A Few Notes on Coal-Dust Experiments. *Trans. N. Eng. Inst. Mining and M. Eng.*, July, pp. 46-53.
- ARBER, E. A. NEWELL [the late].—On the Fossil Flora of the Southern Portion of the Yorkshire Coalfield. Part II., Derbyshire. *Proc. Yorks. Geol. Soc.*, Vol. XIX., pt. 5, pp. 350-358.
- [BELINFANTE, L. L.; edited by].—Abstracts of the Proceedings of the Geological Society of London, Session 1919-20. Nos. 1043-1058, 96 pp.
- BERRY, EDWARD W.—Paleobotany: A Sketch of the Origin and Evolution of Floras. *Ann. Rep. Smithsonian Institution* for 1918 [published 1920], pp. 289-407.

SHEPPARD: YORKSHIRE GEOLOGY. 1920,

- BISAT, W. S.—A Preliminary Study of the Stratigraphy of the Millstone Grit. *The Naturalist*, February, pp. 53-58.
- Marine Bands, with Special Reference to those in the Millstone Grits. *The Naturalist*, May, pp. 163-167.
- The Millstone Grits West of Huddersfield. *The Naturalist*, November, pp. 347-352.
- BOSWELL, P. G. H.—Geology and the War [a paper entitled "Geochemistry and the War," communicated to Section B (Chemistry) of the British Association]. *Quarry*, April, pp. 97-99.
- BROOKS, CHARLES E. P.—The Correlation of the Quarternary Deposits of the British Isles with those of the Continent of Europe. *Ann. Rep. Smithsonian Institution* for 1917, pp. 277-375.
- BROWN, JOHN.—Commercial Minerals. *Annals Kilmarnock Glenfield Ramblers' Soc.*, Nos. 8-9, pp. 31-40.
- BUCKMAN, S. S.—Jurassic Chronology: 1—Lias: Supplement 1, West England Strata. *Quart. Journ. Geol. Soc.*, Vol. LXXXVI., pt. 1, pp. 62-103.
- Type Ammonites. Part XXIII. [Figures and describes *A. ordinarius* from Yorks.], pp. 19-24, 13 plates. Part XXIV., pp. 25-30, 16 plates [describes and figures *Quenstedticeras ordinarium* from Scarborough, *Ammonites ingens* from Pickering, *A. poculum*, Gristhorpe Bay; *A. personatus* Robin Hood's Bay, *A. erratus*, Whitby; etc. Part XXI., pp. 9-16, 14 plates [describing *A. placenta* Scarborough]; see also *The Naturalist*, July, p. 209. Part XXII., pp. 17-18, 16 plates [includes *A. tenuicostatus* from Whitby; *A. buckii* from "R. H. Bay"; and *A. retentus*, "R. H. Bay."].
- See ANON.
- BURTON, J. J.—Jurassic Flora Committee [Report of]. *The Naturalist*, January, p. 46.
- BUTTERFIELD, J. A.—The Effect of Pressure on a Conglomerate in Hole Beck, Sedbergh. *The Naturalist*, June, pp. 191-194.
- The Conglomerates underlying the Carboniferous Limestone in the N.W. of England. I., The Sedbergh Area. *The Naturalist*, August, pp. 249-252; September, pp. 281-284.
- COX, ARTHUR HUBERT, and TRUEMAN, ARTHUR E.—Intra-Jurassic Movements and the Underground Structure of the Southern Midlands. *Geol. Mag.*, May, pp. 198-208.
- CROWTHER, JOHN.—Rambles round Grassington by Hedgerow and Highway [brief geological notes], 71 pp.

- DAVIES, A. MORLEY.—An Introduction to Palæontology, 414 pp.
- EVANS, J. W. [President of Section C].—Address [on the methods by which the progress of geological research may be most effectively promoted]. *Rep. Brit. Assoc.*, 1919 [published 1920], pp. 172-187.
- FAWCETT, C. B.—A Regional Study of North East England. *Geographical Teacher*, No. 57, Vol. X., pt. 5, pp. 225-230.
- FLETCHER, J. S.—Nooks and Corners of Yorkshire [Brief Geological Notes]. London, 304 pp.
- GIBSON, WALCOT.—Coal in Great Britain : The Composition, Structure and Resources of the Coalfields, Visible and Concealed, of Great Britain, viii.+311 pp.
- GILLIGAN, ALBERT.—The Petrography of the Millstone Grit of Yorkshire. *Quart. Journ. Geol. Soc.*, Vol. LXXV., pt. 4, No. 300, pp. 251-294 ; See *The Naturalist*, November, p. 345.
- GILLIGAN, A., and PETCH, FRANK.—[Geology of South Cave]. In "A Field Excursion to South Cave" [Yorks. Geol. Soc. Programme], pp. 2-3.
- GIVEN, J. C. M.—The Divisions of the Pleistocene Period [Presidential Address]. *Proc. Liverpool Geol. Soc.*, Vol. XIII., pt. 1, pp. 2-17.
- GREENWOOD, H. W.—On the Distribution and Significance of Barium Compounds in Sedimentary Rocks, with Special Reference to the Trias. *Proc. Liverpool Geol. Soc.*, Vol. XII., pt. iv., pp. 355-361 ; see also *The Naturalist*, August, p. 245.
- GREGORY, J. W.—The Conservation of our Coal Supplies [address to Glasgow Phil. Soc]. *Nature*, March 25th, pp. 108-110.
- HADFIELD, ROBERT.—The Great Work of Sorby. *Journ. Roy. Micro. Soc.*, December, pp. 114-118.
- HARDING, O. J.—"Geographie de Luxe" [Yorks geological features described]. *Geog. Teacher*, No. 58, pp. 292-293.
- HARDINGE, F. C., and STOKES, H. G.—The Changing Face of England. *Windsor Magazine*, February, pp. 179-189.
- HARDY, F.—The Mineral Composition of the Modern Fenland Silt, with Special Reference to Carbonate Minerals. *Geol. Mag.*, December, pp. 543-551.
- HATCH, F. H.—The Iron Ore Supplies of the World. *Geol. Mag.*, November, pp. 504-517.
- HAWKINS, HERBERT LEADER.—Invertebrate Palæontology, 226 pp.
- HILL, L. G.—Stone-Dusting in Collieries. *Trans. N. of Eng. Inst. Mining and M. Eng.*, June, pp. 28-36 ; July, pp. 40-45.

- HIND, WHEELTON.—The Distribution of British Carboniferous Nautiloids. *Geol. Mag.*, September, pp. 405-411.
- On Some Carboniferous Ammonoids new to English Rocks. *Proc. Yorks. Geol. Soc.*, Vol. XIX., pt. v., pp. 359-362.
- HOLMES, JOHN.—Geology [of Skipton].—*The Naturalist*, June, pp. 184-185.
- Geological Section [of Yorks. Nat. Union; report of]. *The Naturalist*, January, p. 45.
- Yorkshire Naturalists' Union (Geological Section) [Report of]. *The Naturalist*, December, p. 403.
- I[LLINGWORTH], J. L.—Report of the [Natural History] Society's Excursion to Malham. *Olicanian*, Vol. XXII., pt. 1, pp. 15-16.
- JACKSON, J. WILFRID.—On a New Middle Carboniferous Nautiloid (*Calonautilus trapezoidalis*). *Mem. and Proc. Manchester Lit. and Phil. Soc.*, Vol. 63, pp. 1-4.
- JOHNSON, THOMAS.—The Male Flower or Microstrobilus of *Ginkgoanthus phillipsii*. *Ann. Rep. Yorks. Phil. Soc.* for 1919, pp. 1-5.
- KEEPING, HENRY.—Reminiscences of My Life. Cambridge, 2nd ed., 24 pp.
- KENDALL, P. F.—[Sigillaria, etc., in Coal Measures: in discussion on D. Davies' paper]. *Abs. Proc. Geol. Soc.*, No. 1060, p. 9.
- KING, W. B. R.—Sedgwick Museum Notes: Notes on the Genus *Sphaerocoryphe*. *Geol. Mag.*, December, pp. 532-534.
- LAKE, PHILIP, and RASTALL, R. H.—A Textbook of Geology, 3rd ed., pp. xiv.+508+33 plates.
- LAMPLUGH, G. W.—On the Supposed Raised Beach at Saltburn. *Proc. Yorks. Geol. Soc.*, Vol. XIX., pt. v., pp. 345-349.
- On a Boring at Kilnsea, Holderness. [See also under Lamplugh, 1919]. *The Naturalist*, February, pp. 63-65.
- The Anniversary Address of the President: The Structure of the Weald and Analogous Tracts. *Quart. Journ. Geol. Soc.*, Vol. LXXV., pt. 1, pp. li.-xcv.
- Anniversary Address of the President: Some Features of the Pleistocene Glaciation of England. *Quart. Journ. Geol. Soc.*, Vol. LXXVI., pp. xviii.-lxxxiii; Abstract in *Nature*, March 11th, p. 58; *The Naturalist*, April, pp. 115-117.
- See ANON.
- LAMPLUGH, G. W.; WEDD, C. B.; PRINGLE, J.—Special Reports on the Mineral Resources of Great Britain, Vol. XII., Iron Ores (contd.);

- Bedded Ores of the Lias, Oolites and Later Formations in England, pp. iv.+240. Reviewed by "R. H. R." in *Geol. Mag.*, May, 1921, pp. 230-231.
- LOUIS, H.—British Iron Ores [review of Geological Survey Special Reports, Vols. VIII., IX., X.]. *Nature*, January 1., pp. 429-431.
- M[ARR], J. E.—William Smith : His Maps and Memoirs. By Thomas Sheppard [review of]. *Geol. Mag.*, September, pp. 421-423.
- MILTON, J. H.—President's Address [1916, Palæozoic Corals]. *Proc. Liverpool Geol. Soc.*, Vol. XII., pt. iv., pp. 265-280.
- Presidential Address [1917, Brachiopoda]. *Proc. Liverpool Geol. Soc.*, Vol. XII., pt. iv., pp. 313-324.
- [E. MONTAG : editor]. Proceedings of the Liverpool Geological Society [October 10th, 1916, to April 1st, 1919 : various exhibits] *Proc. Liverpool Geol. Soc.*, Vol. XII., pt. iv., pp. iv.-xvi.
- NORTH, FREDERICK JOHN.—On *Syringothyris* Winchell, and Certain Carboniferous Brachiopoda referred to *Spiriferina* D'Orbigny. *Quart. Journ. Geol. Soc.*, November, pp. 162-227 ; abstract in *Nature*, January 29th, p. 586.
- PETCH, FRANK. See A. Gilligan.
- PRINGLE, J.—See G. W. Lamplugh.
- RASTALL, R. H.—See Philip Lake.
- SALTMARSHE, P.—The River Banks of Howdenshire : their Construction and Maintenance in Ancient Days. *Trans. East Riding Antiq. Soc.*, Vol. XXIII., pp. 1-15.
- Ancient Drainage in Howdenshire. *Trans. East Riding Antiq. Soc.*, Vol. XXIII., pp. 16-27.
- SCOTT, ALEXANDER.—The Micro-Examination of Refractory Materials. *Trans. Geol. Soc., Glasgow.*, Vol. XVI., part 3 pp., 393-414.
- SCOTT, DUKINFELD HENRY.—Studies in Fossil Botany. 3rd ed., Vol. I., Pteridophyta, 457 pp.
- SEWARD, A. C.—See H. H. T[homas].
- SEWELL, JOSEPH T.—Notes on the Geology of Whitby Sands. *Ninety-seventh Report Whitby Literary and Phil. Soc.*, pp. 1-15.
- SHEPPARD, THOMAS.—William Smith : His Maps and Memoirs, pp. i.-iv.+75-253.
- Papers and Records Relating to the Geology and Palæontology of the North of England (Yorkshire excepted) published during 1919. *The Naturalist*, February, pp. 67-71 ; March, pp. 108-111.

- SHEPPARD, THOMAS.—The Origin of the Materials Used in the Manufacture of Prehistoric Stone Weapons in East Yorkshire. *Trans. East Riding Antiq. Soc.*, Vol. XXIII., pp. 34-54. Abstract in *The Naturalist*, May, pp. 146-147.
- Remains of Elk, etc., in East Yorkshire. *The Naturalist*, September, pp. 285-288.
- [Geology of Beverley]. *The Naturalist*, December, pp. 389-390.
- Bibliography of Yorkshire Geology, 1918-19. *Proc. Yorks. Geol. Soc.*, Vol. XIX., pt. v., pp. 363-376.
- SIBLY, T. FRANKLIN.—On the Distribution of *Productus humerosus* (= *sublaevis*) and the Zonal Range of the "Brachiopod Beds" of the Midlands. *Geol. Mag.*, January, pp. 20-22.
- SOWERBUTTS, J. CROMPTON.—Kettlewell, Past and Present [Geology, pp. 13-15; Lead Mining, pp. 22-25], York, 50 pp; notice in *The Naturalist*, July, pp. 210-211.
- S[PENCER, L. J., AND OTHERS]. Mineralogical Abstracts (Vol. I., No. 4, 1920). *Min. Mag.*, December, Appendix, pp. 81-112.
- STATHER, [J. W.].—[Geology of South Cave]. In "A Field Excursion to South Cave" [Yorks. Geol. Soc. Programme], p. 2.
- Coast Erosion Committee [Report of]. *The Naturalist*, January, p. 45.
- [STEWARDSON, H. C.].—Catalogue of the more important Papers, especially those referring to Local Scientific Investigations, published by the Corresponding Societies during the year ending May 31st, 1919. *Rep. Brit. Assoc.*, 1919 [published 1920], pp. 454-464.
- STOKES, H. G.—See F. C. Hardinge.
- STRAHAN, A. [AND OTHERS].—Special Reports on the Mineral Resources of Great Britain. Vol. XIV., Refractory Materials: Fireclays. *Mem. Geol. Surv.*, pp. iv.+243.
- SWEETING, G. S.—An Index to the Proceedings of the Geologists' Association, Volumes XXI. to XXX., 1909-1919, with a Chronological List of the Longer Excursions. 44 pp.
- TAYLOR, ERNEST E.—Scarborough and Yorkshire Coast Guide [Brief Geological Notes]. Darlington, (3rd edition), 96 pp.
- T[HOMAS], H. H.—Fossil Plants: A Text-Book for Students of Botany and Geology. By A. C. Seward, Vol. IV. [review of]. *Geol. Mag.*, February, pp. 83-85.
- TRUEMAN, ARTHUR E.—See Arthur Hubert Cox.

- TWYXCROSS-RAINES, G. F.—Aldbrough Church, Holderness [brief reference to coast erosion]. *Trans. East Riding Antiq. Soc.*, Vol. XXIII., pp. 28-33.
- TYRRELL, G. W.—Geology [Review of Recent Memoirs]. *Science Progress*, April, pp. 567-572; July, 1920, pp. 24-29.
- WEDD, C. B.—See G. W. Lamplugh.
- WILD, R. P.—Notes on the Rock Specimens in the [Cheltenham] Museum. [Cheltenham] Museum Publication No. 1, 49 pp.
- WOODRUFFE-PEACOCK, E. ADRIAN.—The Ecology of Thorne Waste. *The Naturalist*, September, pp. 301-304; November, pp. 353-356; December, pp. 381-384.
- WOOLACOTT, DAVID.—On an exposure of Sands and Gravels containing Marine Shells at Easington, Co. Durham. *Geol. Mag.*, July, pp. 307-311.
- W[ROOT], H. E.—In Memoriam, Colonel Wheelton Hind. *The Naturalist*, August, pp. 265-266.
- Fallen Blocks near Blea Wyke Point. *The Naturalist*, September, p. 305.

1921.

- ANON.—Special Reports. Vol. XIII., Iron Ores . . . Pre-Carboniferous and Carboniferous [review of]. *Geol. Mag.*, February, p. 86.
- [B.S.].—A Textbook of Geology. By Philip Lake and R. H. Rastall [review of]. *Geol. Mag.*, February, pp. 83-84.
- Yorkshire Naturalists' Union Presidential Address by Professor J. E. Marr [notice of]. *Geol. Mag.*, February, pp. 91-92.
- Abstracts of the Proceedings of the Geological Society of London, 111 pp.
- Removing a Reef-Knoll. *The Naturalist*, February, pp. 58-59.
- Type Ammonites : Paratypes and Phaulomorphs. *The Naturalist*, February, pp. 60-61.
- Westphalian Measures of Yorkshire. *The Naturalist*, March, p. 91.
- Geological Notes and News. *The Naturalist*, March, p. 96.
- "Moorlog." Trees in Moorlog. The Dogger Bank Flora. Animal Remains. *The Naturalist*, May, pp. 153-154.
- Natural History in "Arms." *The Naturalist*, November, p. 358.

- ANON.—Nottinghamshire Gypsum. Quarrying 3,000 B.C. Rock Salt and Brine. *The Naturalist*, December, pp. 386-387.
- The Potash Position. *Nature*, May 12th, pp. 321-322.
- Spontaneous Combustion of Coal in Mines. *Nature*, December 29th, pp. 572-573.
- Trade and Industrial Reports, North-east Coast. *Quarry*, February, pp. 51-52 ; 55-56 ; March, pp. 111, 117.
- In Memoriam : Wheelton Hind, T.D., M.D., B.S., F.R.C.S., F.G.S. *Trans. N. Staff. F. Club*, Vol. LV., pp. 120-128.
- Coal in Great Britain By Walcot Gibson [review of]. *Sci. Prog.*, April, pp. 667-668.
- Fossil Plants [near Redcar]. *Yorks. Nat. Union Circ.*, No. 293, p. 2.
- The [South Cave] District. *Yorks. Nat. Union Circ.*, No. 295, p. 2.
- AUDLEY, JAMES A.—Silica and the Silicates [notice of]. *Quarry*, April, pp. 129-130.
- BARKER, W. R.—Geology [Wentworth]. *Yorks. Nat. Union Circ.* No. 294, p. 2.
- [BELINFANTE, L. L. : editor].—Geological Literature added to the Geological Society's Library during the year ended December 31st, 1913, 247 pp.
- BEVAN, D. W.—Glacial Erratics at Scarborough. *The Naturalist*, January, p. 4.
- BISAT, W. S.—Permian Marls at Ripon. *The Naturalist*, January, p. 4.
- *Schizodus* (*obscurus* or *truncatus* ?) near Doncaster. *The Naturalist*, January, p. 4.
- The Millstone Grits W. of Huddersfield. II.—*The Naturalist*, January, pp. 9-11.
- *Hypnum exannulatum* (Gümb.) near N. Ferriby [in Glacial Deposits]. *The Naturalist*, January, p. 55.
- The Physiography of North Britain in Millstone Grit Times. *The Naturalist*, April, pp. 131-134.
- Geology [of South Cave]. *The Naturalist*, June, p. 215.
- BLACKBURN, K. B.—*Ginkgo biloba*. *Vasculum*, February, pp. 28-31.
- BLAKESTON, W. H.—The Yorkshire Wolds. *Nat. Union of Teachers, Bridlington Souvenir*, pp. 87-91.
- BOLTON, HERBERT.—A Monograph of the Fossil Insects of the British Coal Measures, Part I. *Mem. Pal. Soc.*, Vol. LXXIII., pp. 1-80.

- BOSWELL, P. G. H.—Presidential Address : Sedimentation, Environment and Evolution in Past Ages. *Proc. Liverpool Biol. Soc.*, Vol. XXXV., pp. 5-28.
- B[RADLEY], J.—Giggleswick and Settle Ramble The Record of the Rocks. *Haworth Ramblers' Circular*, pp. 1-4.
- Newsholme, Goose Eye and Newsholme Dene [geological notes]. *Haworth Ramblers' Circular*, June 19th, pp. 2-3.
- Doubler Stones Ramble. *Haworth Ramblers' Circular*, August 14, pp. 1-4.
- The Harden Valley and Bingley Ramble. *Haworth Ramblers' Circular*, July 17th, pp. 1-4.
- BROMEHEAD, C. N.—[Petroleum in Coal Mines]. *Journ. Inst. Petroleum Technology*, July, p. 196.
- BROOKS, C. E. P.—The Evolution of Climate in North-west Europe. *Quart. Journ. Roy. Met. Soc.*, July, pp. 173-194.
- BUCKLEY, FRANCIS.—A Microlithic Industry. Marsden. Yorkshire. London : 15 pp.
- BUCKMAN, S. S.—Type Ammonites [figures *A. crassiusculus*, *A. incrassatus*, *A. crassus*, *A. huntoni* and *A. robinsoni* from the Yorkshire Lias, and *A. alligatus* from the Kelloway Rock, Scarborough]. Part XXVI., pp. 33-40, 16 plates. Part XXVII., pp. 41-42 [Descriptions of *A. erugatus* and *A. oculatus*]. Part XXVIII., pp. 43-48 [describing and figuring *A. oculatus*, *A. obliquatus* from Yorkshire]. Part XXIX., pp. 49-54 [includes *A. fabalis* Simpson, from Whitby]. Part XXX., pp. 1-4, 55-64, 16 plates [includes *A. binatus* from Scarborough],
- BURKITT, M. C.—Prehistory : A Study of Early Cultures in Europe and the Mediterranean Basin. Cambridge : 438 pp.
- BURRELL, W. H.—Peat Investigation. *The Naturalist*, May, pp. 185-186.
- BURTON, J. J.—Jurassic Flora Committee [report of]. *The Naturalist*, January, p. 45.
- BUTTERFIELD, J. A.—The Conglomerates Underlying the Carboniferous Limestone in the N.W. of England. *The Naturalist*, January, pp. 5-8 ; May, pp. 169-172 ; June, pp. 205-207.
- CHEETHAM, CHRIS. A.—Peat Investigation. *The Nat.*, March, p. 118.
- COSSMANN, M.—Buckman, S.-S., Type Ammonites, Part XXII. [and] Part XXIII. [notice of]. *Revue critique de Paleozoologie*, January, pp. 24-25. Part XXI., *tom. cit.*, April, p. 463.

- COSSMAN, M.—Harmer, P.-W., [*sic.*]—The Pliocene Mollusca of Great Britain, Vol. II., part I. . . . 1918 [notice of]. *Rev. de Géol.*, Août, pp. 409-410.
- CRABTREE, J. H.—Rocks and Fossils and How to Identify them. London : 63 pp.
- CROOK, THOMAS.—Economic Mineralogy : A Practical Guide to the Study of Useful Minerals. London : 492 pp.
- DAVISON, CHARLES.—A Manual of Seismology. Cambridge, 256 pp.
- DAWKINS, W. BOYD.—The Geography of Britain at the Time of the Arrival of Man. *Journ. Manchester Geog. Soc.*, December, pp. 1-5.
- DUCKHAM, ARTHUR.—Coal as a Future Source of Oil Fuel Supply. *Journ. Inst. Petroleum Technologists*, January, pp. 3-26.
- EDWARDS, W. N.—On a Small Bennettitalean Flower from the Wealden of Sussex [comparisons with Yorks. specimen]. *Ann. Mag. Nat. Hist.*, May, pp. 440-442.
- ELLES, GERTRUDE L.—The Study of Geological Maps. Cambridge : 74 pp ; Review in *The Naturalist*, July, p. 227.
- ELSDEN, J. VINCENT, and HOWE, J. ALLEN.—The Stones of London. *Quarry*, July, pp. 267-269 ; September, pp. 347-350 ; October, pp. 389-391 ; November, pp. 430-432 ; December, pp. 475-479.
- FIRTH, EDITH M., and TURNER, W. E. S.—The Shrinkage, Porosity and Density of British Fireclays after Firing at 1,500 degs. Cent. [abs. of paper read to *Soc. Glass Tech.*]. *Quarry*, October, p. 397.
- FLETT, J. S.—Report of the Director for the year 1920. *Rep. Geol. Surv. Board*, pp. 10-25.
- GIBSON, WALCOT.—The History and Development of the Yorkshire, Derbyshire and Nottinghamshire Coalfield [abstract]. *Geol. Mag.*, December, pp. 558-559.
- GREENWOOD, H. W.—On Certain Mineral Deposits in Stratified Rocks, with special reference to the Carboniferous and Trias. *Proc. Liverpool Geol. Soc.*, 1920-21, pp. 122-138 ; abstract in *Geol. Mag.*, June, p. 287.
- GREGORY, RICHARD [and others]—A Catalogue of British Scientific and Technical Books Covering every Branch of Science and Technology carefully Classified and Indexed. Prepared by a Committee of the British Science Guild. London : 376 pp.
- [GREIG, A.]—Geological Literature [List of Authors and Titles] added to the Geological Society's Library during the year ended December 31st, 1920. 123 pp.

- GRIGG, H. C.—Caves of Derbyshire and Yorkshire. *Proc. Spel. Soc., Bristol.* No. 1, pp. 31-33.
- HALL, T. C. F.—Imperial Institute : Monographs on Mineral Resources with Special Reference to the British Empire Lead Ores London : 127 pp. See *Geol. Mag.*, June, p. 282.
- HARMER, F. W.—The Pliocene Mollusca of Great Britain, being supplementary to S. V. Wood's Monograph of the Crag Mollusca. *Palæont. Soc.*, Vol. LXXII., pp. 485-652 ; [noticed by M. Cossmann in *Rev. de Géol.*, Août, pp. 409-410]. Vol. LXXIII., pp. 653-704.
- HOBSON, BERNARD.—The West Riding of Yorkshire. Cambridge : 188 pp. Noticed in *Geol. Mag.*, August, p. 382 ; *The Naturalist*, August, p. 272.
- The Drought and Underground Waters. *Nature*, July 28th, p. 684.
- HOLMES, ARTHUR and SMITH, STANLEY.—The Wackerfield Dyke, County Durham. *Geol. Mag.*, October, pp. 440-454.
- HOLMES, JOHN.—Geological Section [of Yorks. Nat. Union, report]. *The Naturalist*, January, pp. 44-45.
- Yorkshire Naturalists' Union : Geology. *The Naturalist*, November, p. 381.
- HOWE, J. ALLEN.—Stones and Quarries. London, x.+137 pp. Noticed in *Nature*, June 2nd, p. 423.
- See J. Vincent Elsdon.
- HUGHES, HERBERT W.—A Textbook of Coal mining : for the use of colliery managers and others. 7th edition, 578 pp.
- ISLER, C.—Well-Boring for Water, Brine and Oil : a manual of current practice. Third ed., 268 pp.
- JONES, L. RODWELL.—North England : An Economic Geography London, pp. viii.+256.
- KENDALL, PERCY FRY.—The Porosity of Rocks and its Influence upon the Field of Wells and Boreholes [Abs.]. *Water*, June 20th, pp. 199-202.
- LAMPLUGH, G. W.—Old Paving Stones from Iceland ? A question for Hull Geologists. *The Naturalist*, December, pp. 418-419.
- LAMPLUGH, G. W. ; WEDD, C. B. ; and PRINGLE, J.—Bedded Ores of the Lias [review of]. *Nature*, April 28th, pp. 261-262.
- LORD, FREDERICK.—Official Guide to Hornsea. 22 pp.
- MACALISTER, R. A. S.—A Text-book of European Archæology. Vol. I., The Palæolithic Period, Cambridge, 610 pp.

- MCDONALD, AGNES IRENE, and TRUEMAN, ARTHUR ELIJAH.—The Evolution of Certain Liassic Gastropods, with special reference to their use in Stratigraphy. *Quart. Journ. Geol. Soc.*, No. 308, pp. 297-344.
- MACVICAR, J. A.—Modern Practice in Diamond Core Drilling in the United Kingdom. *Quarry*, December, pp. 496-497. *Water*, November 21st, pp. 413-414.
- MARR, J. E.—Proceedings of the Yorkshire Geological Society. Transactions of the East Riding Antiquarian Society [review of]. *The Naturalist*, March, pp. 114-116.
- The Rigidity of North-west Yorkshire. *The Naturalist*, February, pp. 63-72.
- MASON, F. A.—Yorkshire Naturalists at Redcar. *The Naturalist*, September, pp. 310-312.
- MELDOLA, RAPHAEL. Coal and what we get from it (new ed.). London, 210 pp.
- NEWTON, CHARLES BUTTERWORTH.—Presidential Address: Water Supply and Geology of the Humber Basin. *Trans. Inst. Water Engineers* (17 pp. of "reprint"). Also *Water*, June 20, pp. 218-224.
- [PARKINSON, T. WOODHOUSE]—Donations [to the Museum]. *Ninety-eighth Rep. Whitby Lit. and Phil. Soc.*, pp. 6-7.
- PETCH, T.—Coast Erosion in Holderness. *The Naturalist*, February, p. 76.
- PRINGLE, JOHN.—A New Section near Brantinghamthorpe, Yorkshire. *The Naturalist*, June, p. 208.
- R[ASTALL], R. H.—Special Reports on the Mineral Resources of Great Britain. Vol. XII., Iron Ores (continued) [review of]. *Geol. Mag.*, May, pp. 230-231.
- REDMAYNE, RICHARD.—The Importance of Research in the Development of the Mineral Industries. *Nature*, June 30th, pp. 568-571.
- REYNOLDS, S. H. [Secretary]. Photographs of Geological Interest. Twentieth Report of Committee. *Brit. Assoc.* (Edinburgh) *Leaflet*, 10 pp.
- RICHARDSON, W. ALFRED.—The Micro-petrology of the Rock-Gypsum of Nottinghamshire. *Min. Mag.*, September, pp. 196-207; abs. *Nature*, July 7th, pp. 605-606; *The Naturalist*, December, p. 386.
- ROBERTS, JOHN.—The Carbonization of Coal at Low Temperature. *Trans. Inst. Min. Eng.*, November, pp. 9-32.

- RUSSELL, E. J.—The Improvement of Peaty Soils. Part I.—The True Peats. *Journ. Minis. Agric.*, March, pp. 1104-1113.
- SHEPPARD, T.—The Evolution of Topographical and Geological Maps [Presidential Address to Conference of Delegates, British Association]. *Rep. Brit. Assoc.* for 1920, pp. 391-404.
- List of Papers bearing upon the Zoology, Botany and Prehistoric Archæology of the British Isles, issued during June-December, 1919. *Rep. Brit. Assoc.* for 1920, pp. 406-435.
- The Origin of the Materials used in the Manufacture of Prehistoric Stone Weapons in East Yorkshire. *Hull Museum Publications*, No. 122, pp. 34-54.
- Spurn Point and the Lost Towns of the Humber. *Trans. Inst. Water Eng.* Also *Water*, July 20th, pp. 257-258; and pp. 265-266; *Nature*, October, 20th, pp. 253-254.
- Remains of *Elephas* in East Yorkshire. *The Naturalist*, February p. 76.
- *Pseudodiadema variolare* (Brongniart) in the Lower Chalk of North Lincolnshire. *The Naturalist*, May, p. 181.
- Bibliography: Papers and Records relating to the Geology of the North of England (Yorkshire excepted), published during 1920. *The Naturalist*, June, pp. 217-220; July, pp. 249-253.
- [Old Paving Stones from Iceland? A question for Hull Geologists]. *The Naturalist*, December, p. 419.
- Cristallographie et Minéralogie Pétrographie et Lithologie. Géologie Générale, Tectonique, Géographie physique [abstracts of papers in *The Naturalist*, 1915-1919]. *Revue de Géologie*, January, pp. 15-34.
- Mammifères et Reptiles [abstracts]. *Rev. de Géologie*, July, pp. 334-335.
- Paléoconchologie [notice of papers on]. *Rev. du Geol.* Août, pp. 410-411.
- Coelentérés [notice of papers on] *tom. cit.*, pp. 418-419.
- Paléophytologie [notice of papers on]. *tom. cit.*, pp. 427-428.
- Géologie Générale [abstracts of papers on]. *Revue de Geol.*, December, pp. 470-471; Hydrologie, *tom. cit.*, p. 473; *Geologie Glaciaire*, *tom. cit.*, pp. 473-474; Divers, *tom. cit.*, pp. 492-493; Stratigraphie, *tom. cit.* February, pp. 76-77; Géologie régionale, *tom. cit.*, Dec., pp. 479-480; Feb. pp. 85-86.

- SHERLOCK, R. L.—Datum-lines in the English Keuper [abs., see 1918]. *Rev. de Geol.* Août, pp. 362-363.
- Rock-Salt and Brine (Vol. XVIII. of Special Reports on the Mineral Resources of Great Britain. *Mem. Geol. Survey*), pp. vi.+123; noticed in *Geol. Mag.*, September, p. 432; *Nature*, July 28th, p. 693; *The Naturalist*, December, p. 387.
- SMITH, STANLEY. See Arthur Holmes.
- STATHER, J. W.—Yorkshire Glacial Committee [Report of]. *The Naturalist*, January, p. 45.
- Coast Erosion Committee [Report of]. *The Naturalist*, January, p. 45.
- TATTERSALL, W. M.—The Manchester Museum. *Mus. Journ.*, November, pp. 98-102.
- TAYLOR, E. G. R.—A Sketch-map Geography. A text-book of world and regional geography for the middle and upper schools. London, 147 pp.
- TAYLOR, JOHN W.—Monograph of the Land and Freshwater Mollusca of the British Isles. Part 24, pp. 113-160.
- TAYLOR, WILFRID.—Yorkshire Zoology [refers to peat remains]. *The Naturalist*, April, p. 144.
- TRUEMAN, ARTHUR ELIJAH.—See Agnes Irene McDonald.
- TURNER, W. E. S.—See Edith M. Firth.
- WATSON, D. M. S.—The Mammals of the Prehistoric Caves. *Proc. Spel. Soc., Bristol.* No. 1, pp. 36-38.
- WHEALLER, J. E. A.—The Boulders of the Travellers' Rest Gravel Pit, Cambridge. *Geol. Mag.*, May, pp. 200-205.
- WHITEHEAD, H.—More about "Moorlog"—a Peaty Deposit from the Dogger Bank in the North Sea. *Essex Naturalist*, Vol. XIX., Part iv., pp. 242-250; see also *The Naturalist*, May, pp. 153-154.
- WOOD, F. S.—The Making and Testing of Portland Cement and its use in Concrete. *Inst. of Water Eng.* (pp. 1-17 of reprint).
- WOODHEAD, T. W.—The Tolson Memorial Museum Publications Handbook, No. I., New ed., 24 pp.
- WOODRUFFE-PEACOCK, E. A.—The Ecology of Thorne Waste. *The Naturalist*, January, pp. 21-25.
- WOODWARK, T. H.—Notes on Whitby's Water Supplies. *Ninety-eighth Rep. Whitby Lit. and Phil. Soc.*, pp. 3-8.

WOOLACOTT, DAVID.—The Inter-glacial Problem and the Glacial and Post-Glacial Sequence in Northumberland and Durham. *Geol. Mag.*, January, pp. 21-32, February, pp. 60-69.

— Prof. George Alexander Louis Lebour, M.A., D.Sc., F.G.S., Murchison Medallist, Geological Society of London [obituary notice]. *Trans. Nat. Hist. Soc. North'd., Durham and Newcastle*, Vol. V., pt. ii., pp. 234-238.