

North of England Institute of Mining and Mechanical Engineers
Nicholas Wood Memorial Library

Geology

a resource guide

As you would expect the Institute Library has geological material that is mainly restricted to that relevant to mining activity. Though some material is about geology in general, much concerns particular minerals. The collection's strength is in older material.

Books

The geology book stock is mainly textbooks, treatises and some conference proceedings on general aspects of geology and on geology relating to coal and other minerals. Most books are from the 20th Century, but some are from the 19th Century by pioneering geologists such as Lyell, De La Beche and Buckland.

Government reports

1871 *Report of the commissioners appointed to inquire into the several matters relating to coal in the United Kingdom*. Reserves, usage, wastefulness. 3 vols.

1873 *Select Committee on the present dearness and scarcity of coal; together with the proceedings of the committee, minutes of evidence, and appendix*.

1903-5 *Royal Commission on Coal Supplies*. First report 1903. Final report, including regional surveys + evidence, appendices. 1905. Also *Digest of evidence given before the Royal Commission on Coal Supplies, 1901-1905 reprinted from the Colliery Guardian*.

Journals

Minerals, geology

The Library has a range of journals from the UK and elsewhere from the mid 19th century to recent times – though there are few titles after 2000. Some have long runs – though there may be gaps in coverage; others just a few years.

Some journals where there are only a few issues have been omitted from this list.

American Association of Petroleum Geologists, Bulletin 1958-82

Boletin geologico y minero [Spain] 1975-78

British Geological Survey Reports 1984-88

Colonial Museum and Geological Survey of New Zealand, Annual Reports 1867-1907

Edinburgh Geological Society, Transactions 1866, 1898-1915

Geological Society, Journal 1975-90

Geological Society Newsletter 1977-88

Geological Society of America, Bulletin 1958-82

Geological Society of London, Quarterly Journal 1845-1962

Geological Society of South Africa, Transactions 1896-97

Geological Survey of Canada, Index of publications 1845-1982
Geological Survey of Great Britain, Bulletin 1939-75
Geological Survey of Great Britain, Wartime Pamphlets 1941-46
Geological Survey of South Africa 1985-87
Geological Survey of United Kingdom, Summary of progress 1899-1964
Geological Survey, Memoirs
Geologie en Mijnbouw [Royal Geological and Mining Society of the Netherlands] 1976-84
Geologist 1858-62
Geologists Association, Transactions 1859-1917
Geology exploration and mining in British Columbia 1969, 1974-78
Geology today 1991-95
Geophysics 1981-85
Geoscientist 1991-94
Geotechnical and geological engineering 1991-94
Geotechnique: international journal of soil mechanics 1964-75
Imperial Institute, Bulletin 1926-30
Indian minerals 1972-82
Industrial minerals 1968-98
Institute of Geological Sciences, Annual Report 1965-85
Institute of Geological Sciences, Reports 1969-83
Institute of Geological Sciences, Mineral assessment reports 1975-83
Institute of Petroleum Technologists, Journal 1914-27
Institute of Petroleum, Journal 1944-73
Instituto Geologico de Mexico, Parergones del 1903-06
International geological Congress: report of 18th Session 1948
International journal of coal geology 1980-97
International mining and minerals 1998-2002
Kaiserlich-Koniglichen Geologischen Reichanstalt, Abhandlung [Royal Geological Institution, Vienna] 1852 - 1911
Kaiserlich-Koniglichen Geologigischen Reichanstalt, Jahrbuch [Royal Geological institution, Vienna] 1850 - 1912
Kaiserlich-Koniglichen Geologischen Reichanstalt, Verhandlungen [Royal Geological Institution, Vienna] 1867-1912
Land and minerals surveying, formerly Chartered land surveyor/Chartered minerals surveyor 1979-90
Magyarhoni Foldtani Tarsulat, Munkalatai [Hungarian Geological Society] 1867-70
Manchester Geographical Society, Journal 1890-1913
Manchester Geological Society, Transactions (later Geological and Mining Society.) 1840-1914
Mine and quarry: official journal of the Minerals Engineering Society. Formerly Mining and minerals engineering 1970-2002
Mineral resources in Canada: metallic ores 1958-62
Mineral resources in Canada: non-ferrous and precious metals 1958-61
Mineralogical magazine (and Journal of the Mineralogical Society) 1964-68
Minerals and energy bulletin, News from CSIRO Institute of Energy and Earth Resources 1980-87
Minerals and mineral products [Australia] 1976-79
Minerals and the environment , later Environmental geochemistry and health 1980-87
Minerals science and engineering: a review journal 1969-76
Minerals yearbook (US) 1934-70
Minerals, statistical and other data - a report for the Republic of South Africa 1969-79
Mines and minerals 1898-1912
Mining annual review (later includes Metals and minerals annual review) 1964-99
Revue de l'industrie minerale 1921-84
Mining Geological and Metallurgical Institute of India, Transactions 1907-52
New South Wales, Geological Survey, Mineral Resources 1898-1916

New Zealand Geological Survey, Bulletin 1906-09
New Zealand journal of geology and geophysics 1972-87
Petroleum review 1990-2011
Petroleum situation 1973-82
Quarterly journal of engineering geology 1978-90
Royal Geological and Mining Society of the Netherlands, Journal 1976-84
Royal Geological Society of Cornwall, Transactions 1818, 1889-96
Societe de l'Industrie Minerale: Bulletin 1855-1913
Societe de l'Industrie Minerale: Comptes-rendus mensuels des reunions 1878 - 1913
South Africa, Annals of the Geological Survey 1971-85
South Africa, Geological Survey Bulletins 1974-85
South Africa, Geological Survey, Memoirs 1974,1982
South Africa, Report of the Director of Geological Survey 1974-84
South Africa, Seismology Series (and catalogue of earthquakes) 1975-84
South African Geology, Bibliography and Subject Index 1972-83
Tasmania Department of Mines Geological Survey, Bulletins 1902-15
Vish Mino-Geolozkhu Institut Sofia Gogishnik [Higher Institute of Mines and Geology, Sofia] 1980-81
Western Australia, Geological Survey, Annual Report 1971-80
Western Australia, Geological Survey, Bulletin 1909-16
Yorkshire Geological and Polytechnic Society, Proceedings 1840-1911

UK Mining

This list is of mining journals that have geological content.

North of England Institute of Mining and Mechanical Engineers, Transactions. 1852-1920

Institution of Mining Engineers, Transactions. 1899-1960 then *Mining engineer* 1960-94, then *Mining technology* 1995-97

Institution of Mining and Metallurgy, Transactions 1892-2001

National Association of Colliery Managers, Minutes of Proceedings 1889-1967

Chesterfield and Derbyshire Institute of Mining, Civil and Mechanical Engineers, Transactions 1871-1898

Midland Institute of Mining, Civil and Mechanical Engineers, Transactions 1869-89

Mining Association and Institute of Cornwall, Transactions 1885-92

Mining Institute of Cornwall, Proceedings 1876-83

Mining Institute of Scotland, Transactions. 1880 - 1929

North Staffordshire Institute of Mining and Mechanical Engineers, Transactions. 1878-79 - 14 1899

South Staffordshire and East Worcestershire Institute of Mining Engineers, Transactions 1875-1890

South Wales Institute of Engineers, Transactions. 1857-59 - 1981

Research reports

The Institute Library has a large collection of British Coal Utilisation Research Association (BCURA) research papers and the Coal Research Establishment (CRE) reports, pamphlets and papers. These are in process of being listed.

Statistics – mineral production

Publications will give production and maybe value, exports, transport, often by county and sometimes by mine.

Fuller details of these and some other sources are in the Library's publication *Mining and mineral statistics: a resource guide*

Compilations - metalliferous mines

Burt, Roger, Waite, Peter & Burnley, Ray *The Durham and Northumberland mineral statistics: metalliferous and associated minerals 1845-1913*. University of Exeter, 1983.

Burt, Roger; Atkinson, Michael; Burnley, Ray & Waite, Peter. *The Derbyshire mineral statistics: metalliferous and associated minerals 1845-1913*. University of Exeter, 1981

Other titles in this series are not held by NEIMME.

Gill, Mike & Burt, Roger *The mines of Yorkshire: metalliferous and associated minerals*. 2003. (*British Mining* (72)).

Regular UK mining and energy statistics publications – in chronological order from 1848

Statistics of the produce of copper, tin, lead and silver from the mines of the United Kingdom, with the exports and imports of these metals, from 1848 to 1852 in *Records of the School of Mines and of science applied to the arts Vol 1 parts 1-4* 1853

Robert Hunt's *Mineral statistics* 1853-1881 [NEIMME has all]

Mining and mineral statistics of the United Kingdom of Great Britain and Ireland 1882-1887. [NEIMME has all]

Mineral statistics of the United Kingdom of Great Britain and Ireland with the Isle of Man 1888-1896 [NEIMME has all]

Annual general report upon the mineral industry of the United Kingdom of Great Britain and Ireland 1894-1896 [Part of the annual Mines Inspectors reports. NEIMME has all]

Mines Inspectors reports Part III Output 1897-1919 [NEIMME has all.]

Board of Trade Mines Department *Statistical summary [statement] of output and of the costs, production, proceeds and profits of the coal mining industry* 1920-1946 [NEIMME has 1920, 1921-33, 1934-1939]

National Coal Board *Quarterly statistical summary* [NEIMME has 1947-50]

National Coal Board *Statistical tables for the year...* [NEIMME has 1973-1974, 1976-1977, 1978-1979]

Ministry of Fuel and Power *Statistical digest* [NEIMME: 1946-7, 1948-1967]

Ministry of Power *Digest of energy statistics*, [NEIMME: 1968-71]

Department of Energy *Digest of United Kingdom energy statistics* [NEIMME: 1972-78, 1981-86]

Note: Coal statistics are summarised in *Colliery Year Book* from 1922-1965

Worldwide statistics

Coal tables. Statement showing the coal production, consumption, and number of persons

employed, in the principal countries of the world, in each year from ... to ..., as far as the particulars can be stated. [There are variations in the title.]

Published covering various periods between 1883 and 1924. [NEIMME has 1883-1893, 1883-1894, 1883-1895, 1883-1896, 1883-1899, 1883-1901, 1883-1903, 1901-1924.]

Mineral industry: its statistics, technology and trade in the United States and other countries later *Mineral industry: statistics, during ...* [NEIMME has 1892-1930]

Mining and mineral statistics of the United Kingdom of Great Britain and Ireland 1882-1887. [NEIMME has all]

Has a summary of production in British colonies and possessions.

Mines Inspectors reports Part IV Colonial and foreign statistics 1897- 1919 [NEIMME has all.]

The mineral industry of the British Empire and foreign countries: statistical summaries (production, imports, and exports) [NEIMME has volumes covering 1913-1971]

Has figures for Britain.

Also volumes for 1913-22 covering a particular mineral with more detail and including value, eg Coal, coke and by-products; Lead.

Maps

The Institute Library has an extensive collection of Ordnance Survey and Geological Survey maps and other local maps – some 20000 in total. There is quite a good coverage of the local area in Ordnance Survey maps of various scales A database is being developed and will be available online soon.

The online *Durham Mining Museum* has a selection of OS and other maps from different periods showing the location of collieries in the North:

<http://www.dmm.org.uk/maps/index.htm>

There are similar maps for the whole country at the *Coalmining History Resource Centre*

<http://www.cmhrc.co.uk/site/maps/scotland/index.html>

Mine plans

Prior to 1840 there was no requirement for mining plans to be prepared and it was not until 1850 that The Inspection of Coal Mines Act 1850 required a coal mine owner to keep a plan at each mine.

In 1872 The Coal Mines Regulation Act and Metalliferous Mines Regulation Act made the deposition of plans of abandoned mines with the Secretary of State a statutory requirement. Non-coal mines were not required to deposit plans if there had been fewer than 12 men employed below ground and this relaxation was perpetuated in all subsequent legislation until 1993.

The Institute Library has an extensive collection of plans of mine workings, mainly from older pits.

Accident reports often include plans of underground and other workings relevant to the accident.

Abandoned mines

Mining and mineral statistics of the United Kingdom of Great Britain and Ireland 1886 and 1887 have lists of plans of abandoned mines received – they give parish and post town.

Mineral statistics 1889 has a list of plans of abandoned mines deposited in the Home Office.

Some individual district Mines Inspectors reports include lists of abandoned mines from 1880s to 1920s, but not consistently.

Mines Department *Catalogue of plans of abandoned mines* 5v, 1928-31 and supplements 1930-39.

All types of mine. Has location information not in previous catalogue

Home Office *List of the plans of abandoned mines ... deposited in the Home Office under...* Annual 1889-1920. [NEIMME: 1889-91]

National Coal Board, Durham Division *Catalogue of plans of abandoned coal mines and worked out opencast coal sites*. 1958

Durham, part of Northumberland, Westmorland, North Riding of Yorkshire. Alphabetical by OS 6in to mile maps. Contains 1928 Catalogue + supplements 1930-9 and later plans. Location of entrance shaft and where plans held – NCB or private.

do. *Amendments and corrections* 1959-75; various supplements to 1988

National Coal Board *Catalogue of plans of abandoned coal mines and opencast coal sites in the county of Northumberland*. 3 vols 1984

Boring and sinkings

NEIMME *An account of the strata of Northumberland and Durham as proved by borings and sinkings*.

A-B 1878 and C-E, 1881 bound together.

F-K, 1885 and L-R, 1887 bound together.

S-T, 1894 and U-Z, 1897 bound together.

Supplementary volume, 1910

- colliery, longitude/latitude, materials, thickness