

University of Sheffield Library. *Special Collections and Archives*

Ref: **MS 84**

Title: **Desch Manuscripts**

Scope: *Diaries, notebooks, papers, correspondence and slides relating to the work of Cecil Henry Desch, Professor of Metallurgy at the University of Sheffield from 1920 to 1931*

Dates: 1920-1939

Level: Fonds

Extent: 37 boxes

Name of creator: Cecil Henry Desch

Administrative / biographical history:

The collection consists of diaries, reprints, school and university notebooks and working notes; committee papers; photographs; and some 1600 items of correspondence, dealing with Desch's interest in historical metallurgy and Positivism, as well as with aspects of his research and professional career and his chemical work in the First World War.

Cecil Henry Desch was born in 1874, and was Professor of Metallurgy at the University of Sheffield from 1920 until 1931. He was also Superintendent of the Department of Metallurgy at the National Physical Laboratory from 1932 until his retirement in 1939. He is remembered particularly for his efforts in furthering nationally the prestige of his subject. He died in 1958.

Source: Deposited on permanent loan in 1973

System of arrangement: By category

Subjects: Metallurgy; Positivism

Names: Desch, Cecil Henry (1874-1958); University of Sheffield – Department of Metallurgy

Conditions of access: Available to all researchers, by appointment

Restrictions: None

Copyright: Variously according to document

Finding aids: Listed

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CHD.1 Diaries

- CHD.1/1 1896-1900. MS Diary in exercise book
- /2 1900 Oct-1901 Jul. Würzburg: MS diary and personal a/c book
- /3 1902-4, 1943. MS notebook: occasional entries, including botanical observations; record of abstracting for Chemical Society Journal, 1903,04; notes on sociology meeting at Oxford, 1943.
[Most of volume blank.]
- /4 1927. Diary/notebook of professional visit to U.S.A., Feb-March: visits to institutions and works.
[Loose leaves, without cover; format similar to 1/5 below"]
- /5 1931-2 on. Loose-leaf diary/notebook of professional visit to U.S.A., Oct-Jan [not continuous]: visits to institutions and works. Later notes include visit to I.G. Bibberfeld, Germany, June 1938; visit to Ford blast furnace, Dagenham, March 1943.
- /6 1938, 1947. Notebook of European visit, 1938; U.S.A., 1947.
- /7 post-1945. Notebook of European visits: Austria; Norway.
- /8 1948. Diary: records meetings attended, visits made, etc.
- /9-11 [post-2nd World War]. Typewritten and MS notes on 3 visits abroad, to France, Switzerland and flight back from U.S.A., March 1947.

CHD.2 Reprints

CHD.2/CEM Reprints, cuttings, etc. on cement (2 filing boxes)

- /CEM/1-9 1921-31 Building Research Station: Bulletins, etc.
- /CEM/10-35 1926-35 Portland Cement Association Fellowship at U.S. National Bureau of Standards: duplicated outline; printed Papers.
- /CEM/36-7 1926, 28 British Engineering Standards Association: Standard for Portland-Blastfurnace Cement; duplicated circular about proposed alterations.
- /CEM/38 1924 International. Cement Congress proceedings.
- /CEM/39 1923 British Portland Cement Research Association: 5th Ordinary General Meeting.
- /CEM/40-1 Association of Portland Cement Manufacturers Ltd.: 18-page illustrated book about Portland Cement Works, Stone, near Dartford; 'Apex' cement brochure.
- /CEM/42-5 1914-26 U.S. Bureau of Standards: Technologic Papers [Paper No. 174 includes a 2-page typescript Synopsis of a Report on Cal, an accelerator for the hardening of Portland cement].
- /CEM/46-81 Miscellaneous offprints, etc. arranged alphabetically by author, joint papers being filed under the first-named author. Some papers have MS inscriptions to CHD, especially those from Edward De Mille Campbell. The paper by R. Feret [/64] includes 1 page MS summary by CHD.
- /CEM/82 Articles on cement, mainly extracted from Cement and Cement Manufacture. [Not numbered.]
- /CEM/83-5 1929, 31, 4 3 further reprints relating to cement, transferred from a miscellaneous reprints box.

CHD.2/CRY Reprints, etc. mainly on crystallography (1 filing box)

- /CRY/1-28 Arranged in alphabetical order of author. Some with MS inscriptions to CHD.

CHD.2/GEN Miscellaneous reprints and publications on various scientific topics, the science of science, war. (1 transfer filing case)

Some have MS dedications to CHD; one has a MS translated abstract by CHD.

CHD.2/GEOL Reprints, etc. relating to geology (1 box)

/GEOL/1-41 The papers are arranged alphabetically by author, joint papers being filed under the first-named author. At the end of the sequence are three general items. Some items have MS inscriptions to CHD.

CHD.2/GLA Reprints, etc. on glass-making (1 filing box)

A few items have MS inscriptions to CHD.

/GLA/1-5 1918-24 Sheffield University Dept. of Glass Technology: Experimental Researches and Reports, vols. II-III, V-VII.

/GLA/6-31 1917-33 Transactions of Society of Glass Technologists: various reprints.

/GLA/32-47 U.S. Geophysical Laboratory: Papers on Optical Glass: nos. 4-8,10,14,20,21,23,24,26,30-2,35,42.

/GLA/48-59 U.S. Geophysical Laboratory: Papers: nos. 457,554,555, 635,643,655,720-2,822,823,856.

/GLA/60-71 Memoir and Supplementary Memoir on British Resources of Sands Suitable for Glass-Making, 1916,1917; miscellaneous reprints, arranged alphabetically by author.

CHD.2/HM Reprints, etc. relating to historical metallurgy (2 boxes)

/HM/1-64 The papers arranged alphabetically by author, with the exception of items on Ludwig Beck, Charles Martin Hall and James Meredith & Co, which are filed according to the subject matter.
At the end of the sequence are a few general items and a batch of cuttings, mainly from Edgar Allen News, which have not been numbered.
A few items have MS inscriptions to CHD.
The Catalogue of the 1930 Zimbabwe Exhibition has a few pencil annotations, probably by CHD [/62].

/HM/65-85 Additional group of reprints, cuttings, etc. relating to historical metallurgy, arranged alphabetically by author. [Re-boxed].
A few items have MS inscriptions to CHD.
Cutting by George Engleheart has copy of memorandum by him attached (CHD.2/HM/70/1).

CHD.2/MET Miscellaneous reprints, etc. on various aspects of metallurgy (1 box).

/MET/1-31 Arranged in alphabetical order of author. Some have MS inscriptions to CHD.
Includes: Glossary of Words and Dialect formerly used in the Sheffield Trades (1936).

CHD.2/STO Miscellaneous printed/duplicated items about decay of stonework and related topics

/STO/1-9 1860-1927 Subjects include restoration of wall paintings, Palace of Westminster; smoke, etc. abatement. Including D.S.I.R. reports on statues over Middle Gate, Winchester College.

CHD.3 Notebooks

CHD.3/1-56 Pre-1902 CHD's notebooks at school and university and as an external student, prior to his appointment at King's College, London as Assistant to Professor Huntington, 1902.

They cover work done at Birkbeck School, Kingsland; City and Guilds Technical College, Finsbury; privately at Stratford-upon-Avon, whilst CHD was Assistant Chemist with F. Kendall & Son, brewing chemical manufacturers*; and at Würzburg University (1900-02).

(* The business records of F. Kendall & Son Ltd., brewers' chemists, are in the custody of the Shakespeare's Birthplace Trust (DR 197). See also CHD.15/13/6.

[The covers of some of the paper-bound exercise books are detached or incomplete.]

/1-2 [1886-9] Birkbeck School, Kingsland: 2 exercise books, 1 mathematics, 1 French.

/3-26 [1889-92] City and Guilds Technical College, Finsbury: Various series, including:
Chemical Laboratory books I-IV; Chemical Laboratory notes I-II; notes of lectures on organic and inorganic chemistry; theory of gases; mechanics; physics.

/27-36 [1892-1900] Various notebooks compiled whilst studying privately, as a member of the staff of F. Kendall & Son, Stratford-upon-Avon, including: notes on action of heat upon sugars [with part of analysis of water sample loose in vol.]; chemical laboratory notes; notes on spectrum analysis and the rare metals; practical biology; geology; languages.

/37-56 [1900-01] Würzburg University: notebooks of lectures and laboratory work, including: botany (Professor Kraus); chemistry (Dr Ley; Professor Tafel). [CHD.3/54-5 apparently not in CHD's hand.]

/57 1902-07 Notebook of chemical experiments.

/58 1907-17 Notebook of chemical and metallurgical experiments.

/59 1917 Notebook including microphotographs: Puddling Process. Also includes, loose: notes; The Evolution of the Puddling Process by CHD, delivered to Staffs. Iron and Steel Institute, 1919.

/60 1917-25 Notebook: experiments on a variety of materials, many from specified firms. Loose at back of volume: copies of 2 letters from Cyril H.

- White, N. Wales, to Professor W.G. Fearnside: sends and discusses brass samples.
- /61 1918-35 Sketch book: ink and wash drawings of microsections of metals; followed by a few historical metallurgical drawings.
- /62 [1st World War] Register of specimens examined, nos. 1-732. [Sources given, including firms and Aeronautical Dept.]
- /63 [c.1920] Continuation of above, nos. 1001-1484. [Intermediate vol.(s.) missing.]
- /64 1923 Experiments on Fatigue, especially of Reduction Gear Pinions: graphs and notes of results.
- /65 1923-9 Volume containing detailed notes of work by research students, other experiments, historical metallurgy. Loose items include MS reports of experiments carried out by D. Havenhand.
- /66 1926-8 Volume similar to above. Loose items include carbon copy of letter, 6 July 1927, from Professors of Geology and Metallurgy [Sheffield University] to Messrs. T.W. Ward Ltd, Albion Works, Sheffield: about raw materials for cement manufacture on Ketton estate. With duplicated clay analyses.
- /67 1926-9 Volume similar to above.
- /68 1928-31 Volume similar to above. Loose in volume: James Neill & Co. (Sheffield) Ltd.: typewritten notes on treatment of razor blades. The following copy letters from CiLD are affixed to pp.131 and 132 respectively: to Hall's Barton Ropery Co. Ltd, Hull, 14 March 1931: analysis of galvanised wires; to Dr Heinen, Andrews Toledo Ltd, Sheffield, 2 May 1931: analysis of steels and wires.
- /69 1931-47 Loose-leaf file: MS notes by CHD on research, including progress of experiments, meetings, corresp. [Paginated 1-169]. Also includes: at p.55: MS letter, 12 Oct 1932, L.V. Spencer, Keeper of Minerals, British Museum (Natural History) about Bunsenite and Copper-mica. Items loose in file include: Research Manager, British Non-Ferrous Metals Research Association, 21 April 1943, to CHD: addition of aluminium to brasses; estimation of zinc in aluminium; Richard Thomas & Co. Ltd, Ebbw Vale: discussing samples. Various notes, including on wetting agents.
- /70 1933 Volume with inserted microphotographs by M.A. Gell of specimens submitted by CHD.
- /71 1933-5, 38 Notebook without cover: MS analyses of specimens, mainly archaeological.

- /72 1944-5 Pocket sketch book: annotated ink and wash drawings of micro-sections of metal specimens, by CHD.
- /73 1944-51 Notes on work in hand, others' findings, ideas to follow up, 1944-5; notes of main professional engagements, 1946-51.
- /74 1946-9 Misc. notes on work in progress.
- /75 n.d. Pocket notebook: misc. notes, mainly in connection with work in progress.
- /76 n.d. Aluminium-bound note pad: a few metallurgical notes.
- /77 n.d. Pocket notebook: misc. metallurgical and positivist notes.
- /78 n.d. Pocket notebook: misc. metallurgical and other notes.
- /79 n.d. Original folder of notes on substitutes (uses of alloys).
- /80/1-25 n.d. Original group of MS summaries of technical articles made by CHD, some or all apparently for Journal of the Institute of Metals.
- /80/26-47 1940-3 Original group of MS/typescript notes of technical enquiries handled by CHD (name and nature of enquiry specified).
- /81 n.d. Folder of misc. scientific notes and extracts, MS/typescript/printed, chiefly relating to crystals.
- /82 Various Miscellaneous scientific notes, etc.

CHD.3/HM/1 "Metals in History" (file)

- /HM/1-43 n.d. Misc. MS and typescript notes by CHD on historical metallurgy from printed works.
- /HM/44 1947 March Dr. E. Voce, Copper Development Association: typewritten carbon copy 'Notes on Some Analyses of Native Copper and Ancient Artifacts'.
- /HM/45 1944-6 C.B.A.: duplicated report of Natural Science Committee
- /HM/46-9 1946-[7] Royal Anthropological Society duplicated/carbon copy typescript minutes/agenda of Early Mining and Metallurgy Group.
- /HM/50 n.d. Société des Amis de l'Histoire des Sciences: duplicated communication concerning 'Bibliographies critiques'.
- /HM/51 1933/4 'The Origin of Bronze': offprint of paper by CHD from Transactions of Newcomen Society.

- /HM/52 n.d. Publisher's circular for The History of Miners' Diseases by George Rosen.
- /HM/53-5 [1949] Albert France-Lanord, curator of Lorraine Historical Museum, Nancy; duplicated circular letter about damasked steel swords, 4th-10th cents.; with illustrated sheets and offprint.
- /HM/57-60 4 misc. offprints or parts of offprints.
[5 letters, 1947 and n.d., have been transferred from this file to CHD.14/HM]

CHD.3/MISC Miscellaneous working papers

- /MISC/1/1 Working papers: black notebook, 17cm. x 23cm., most of pages torn out, remainder including some metallurgical notes.
- /MISC/1/2-113 Many loose items within the volume: notes, reports, synopses, a few photographs: metallurgy; historical metallurgy; scientific policy; Positivism.
[Contents too heterogeneous to sort further, with exception of 1 cutting; transferred to CHD.10, and a few letters, transferred to CHD.14].

CHD.3/POS Working notes on Positivism

- /POS/1-4 4 notebooks on topics broadly related to Positivism: notes of books, lectures, etc. /2 is an abstract of Comte's Système de Politique Positive.
- /POS/5 Folder of misc. notes or abstracts broadly related to Positivism.

CHD.4 Theses

- /1 1933 'The Energy Changes in the Cold-Working of Metals': typewritten carbon copy of PhD thesis by R.W. France, MSc, Metallurgy Dept., University of Sheffield; also reprint from Transactions of Faraday Society of paper based on it, May 1934.
[Loose-leaf binder; contents not numbered or paginated].

- /2 1932 'The Crystallisation of Ingots': typewritten carbon copy of PhD thesis by R. G. Heggie, BSc, Metallurgy Dept., [University of Sheffield]; preceded by sheet of MS notes by CHD [not bound in with thesis]. [Loose leaf binder; contents not numbered or paginated].

- /3 1932 'The Chemical Properties of Single Crystals of Metals and Alloys': typewritten carbon copy of PhD thesis by R.E. Richardson, Dept. of Metallurgy, University of Sheffield. [Loose leaf binder; contents not numbered or paginated].

- /4 1929 'The Effect of Temperature on the Production of Wrought Iron': bound typescript carbon copy of PhD thesis by G.W. Usherwood, Robert Styring Post-Graduate Scholar.

CHD.5 Lecture notes

- /MET/1 n.d. Folder containing full typewritten text of lectures at University of Sheffield by CHD on 'Metals in the Use of Man'. [Not given new pagination].
- /MET/2 1928 Volume: notes for May lecture by CHD, Institute of Metals. [After p.19 are various, later notes, some relating to historical metallurgy].
- /MET/3-6 1944-50 Typewritten notes or outlines for various lectures on historical metallurgy and on ultrasonic experiments.
- /MET/7-11 n.d. Notes for or incomplete texts of lectures apparently by CHD [one possibly notes of someone else's lecture].
- /MET/12 1934 Dec 7 Text of Royal Institution lecture on Crystallisation of Alloys.
- /MET/13 1942 Oct 9 Text of BBC interview with CRD on Ersatz and Raw materials.
- /MET/14 1947 Nov 21 Text of Royal Institution lecture on Recent Advances in the Steel Industry.
- CHD.5/POS/1-26 1900-08 Box of MSS. of texts/notes of lectures on Positivism, most apparently given by CHD, but some may be notes taken by CRD of lectures by others.
[Mostly dated. Mostly paginated; not given new pagination. See also CHD.7/POS.]
- /POS/27 1944 Nov 11 Typewritten notes for Marvin Memorial Lecture 'The History of Science' [transferred to this box].

CHD.6 Reports on visits

- /1 1901 MS report by CHD on visit to Portland Cement Works (formerly Ludwig Roth), Karlstadt-am-Main.

- /2 1903 MS report by CHD on visit to Wickham Portland Cement Works of Martin, Earle & Co. Ltd, near Rochester.

CHD.7 Texts of articles etc.

- /POS/1-31 1904-33 Box of MSS/typescripts of articles or book reviews for **Positivist Review**, with some texts or notes of lectures by CHD. [See also CHD.5/POS.]
Subjects include scientific topics, as well as aspects of the development of Positivism.
[Mostly undated. Mostly paginated; not given new pagination.]
- /POS/32 n.d. Typewritten carbon copy of short article on 'Positivism in London' [transferred to this box].
- /SCI/1-28 Texts of drafts of miscellaneous scientific papers by CHD
- /SCI/1 1891 Dec MS 'Essay on recent researches into the constitution of the Nitrosophenols and related compounds'
- /SCI/2 1892 MS 'Essay on the explanation of Physical Isomerism by the theory of the A symmetric Carbon Atom'
- /SCI/3 1915 Dec 20 Typescript of Report on the Work of the Department of Metallurgical Chemistry [Glasgow University].
- /SCI/4-15 Texts or drafts of papers on items on: Sir George Beilby [for DNB 1922-30, differing slightly from published version]; Harry Brearley; Origin of Bronze; Cold-Working of Metals; W.H. Hatfield; Mineral Resources and the Atlantic Charter; Moissan's and Hannay's work on preparation of diamonds; Preparation of Pure Metals; Notes on Springback; Steel Industry; Steel Industry in War Time; Swiss Industry.
- /SCI/16-27 Texts of various book reviews by CHD.
- /SCI/28 Folder containing miscellaneous notes, etc., possibly related to CHD's published work, including typewritten notes on a report on Ugiperval Steel, 1947.

CHD.8 **Committee papers**

Original file of copies of metallurgical research papers prepared by CHD for various bodies.

- /MET/1 1933, 1940-5 Contents not individually numbered; organisations include: Iron and Steel Institute committees; Richard Thomas & Baldwins Ltd.
- /MET/2-7 Texts of miscellaneous committee papers on metallurgical subjects, probably all by CHD. [A few duplicate those in /1 above].
- /STO/1 Stone Preservation Committee: file of mounted microphotographs of sections of weathered and unweathered building stones.
- /SU/1/1 1932-40 British Association: Section H: Sumerian Copper Committee:
bound volume: CHD's notes of meetings, corresp, analyses and grants and payments.
- /SU/1/2-5 2 receipted National Physical Laboratory bills, 1 card of notes and 1 folio of graphs loose in vol.
- /SU/2/1-11 British Association: Section H: Sumerian Copper Committee:
miscellaneous printed reports, drafts, etc.
- /UGC/1 [1921] University Grants Committee: duplicated final draft of Report of Sub-Committee on Technology, on which CHD served.

CHD.9 Scientific photographs

- /1-17 Albums of photographs and micrographs, mainly of sections of metals, including the following items:-
 - /1 "Ancient and Prehistoric Metals": contains only 1 micrograph.
 - /2-3 "Beilby Report".
 - /4 "Cement, Concrete and Stone Preservation 1922-".
 - /5 "Coalcutters Picks".
 - /6 "Cutlery Steels".
 - /7 "Ingot Structure": contains only 2 items.
 - /8 Ironfolding".
 - /9 "Lead".
 - /10 "Lineages and Dendrites".
 - /11 1908 "Photo-Micrographs of Metals and Alloys": detailed captions.
 - /12 "Steels": includes 3 loose micrographs.
 - /13 "Transformer Steels": contains only 2 items.
 - /14 "Wire Ropes".
 - /15-17 3 untitled albums, containing micrographs and photographs with detailed captions.
 - /18 1931 Oct Submission by G.A. de Belin and M. Riddihough to Iron and Steel Institute of written contribution to discussion on paper by Hankins & Becker concerning study of fatigue resistance of spring steel. Accompanied by 3 sheets of mounted micrographs.
 - /19 Folder of sheets of mounted micrographs, numbered as follows:-
D.1-9; B.7-12; BO.16-18; A.1-3; A.19-21; E.1-3; W.1-6; L.1-3; DT.1-6;
2,55,112.
With blueprint of analysis of most of above.
 - /20-1 2 envelopes of unsorted and unnumbered micrographs, some endorsed with caption. /21 includes 1 plate from Belaiew, 1923; also graphs and diagrams for illustrating articles.
 - /22-3 2 wooden boxes of glass slides: metallurgical, historical.

/24 Box of plates of similar subjects, for conversion into slides.

CHD.10 **Cuttings**

/1-3 1904, 18, 43 Cuttings from local and national press: report of address, review and article by CHD.

CHD.11 Large accumulation of **offprints of articles by CHD**, examined for possible MS items, but not arranged, numbered or listed.

The offprints mainly relate to CHD's professional, scientific work, but they also include some obituaries, and items relating to Positivism and historical metallurgy. Individual items of note include a few papers by CHD to the Stratford-on-Avon Shakspeare Club and a BBC talks pamphlet, 1928, for a series by him. There is also one envelope of cuttings of reviews, obituaries, etc, including a few proofs.

CHD.14 Correspondence

- /COR 1930-1,1946, 7 National Physical Laboratory File: 'Cornell University': corresp. and papers relating to CHD's visit to Cornell as Non-Resident Lecturer under the George Baker Foundation, Oct 1931 – Feb 1932. Including:-
- /COR/1 1930 Oct "Cornell Chemists": duplicated newsheet, No. 7.
- /COR/2-3 1930 Oct 2 letters from Professor L.M. Dennis, Dept. of Chemistry, Cornell.
- /COR/4 1930 Nov 11 W.L. Bragg, Manchester University: wishes to exchange dates of his visit to Cornell with CHD.
- /COR/5-6 1930 Nov, Dec Vice-Chancellor and Registrar of Sheffield University to CHD.
- /COR/7 1931 Jan 31 Copy letter, CHD to Dennis.
- /COR/8 1931 Mar 8 Dr. N.V. Sidgwick, Non-Resident Lecturer, Cornell, to CHD: his experiences at Cornell.
- /COR/9 1931 June 30 Professor E.F. Burton, President, Royal Canadian Institute, Toronto, to CHD: invitation to lecture there.
- /COR/10 1931 July 13 Dartney Lewis, Research Engineer, American Chain Co. Inc, Bridgeport, to CHD: invitation; discusses heat-treated bridge wire.
- /COR/11 1931 Dec 27 Mrs. Minnie C. Dennis to CHD.
- /COR/12 1923 Printed illustrated booklet on The Baker Laboratory of Chemistry at Cornell University by L.M. Dennis.
- /COR/13 1930 Printed booklet Songs of Cornell.
- /COR/14-15 Cuttings about lectures by CHD.
- /COR/16-17 Typewritten notes [by CHD]: on Edison; account of anti-knock research by J.R. Midgeley.
- /COR/18-19 1922, 9 U.S. Geological Survey: Topographical Map, 1:62,500: Ithaca Quadrangle, Dryden Quadrangle.
- /COR/20 1931 Nov. Science: galley of CHD's introductory published lecture as George Baker Lecturer, Cornell.

The Cornell file also includes material relating to later visit to U.S.A. by CHD, as follows:-

- /COR/21 1946 Jan 30 Paul D. Merica, N. Y, to CHD: congratulations on honorary membership of AIMME; hopes to see CHD at 75th Anniversary Meeting.
- /COR/22-29 Misc. items, apparently relating to visit by CRD to N.Y, March 1947, including hotel bills, MS notes of positivist lecture by CHD.
- /COR/30-31 [1955] Typescript itinerary or schedule of lecture tour by CHD in U.S.A., Feb-March.
- /COR/32 (?1955] Photograph of CHD at formal gathering.
- /FAM Correspondence of members of Desch' s family with CHD.
- /FAM/1-10 1899-1920 Letters from his father, H.T. Desch. /3 (1911) describes protective work by Cubitts on Rothschilds' refinery. [See also CHD.14/STO].
- /FAM/11-26 1909-31 Letters from his mother. [Some undated, apparently 1st World War period.]
- /FAM/27-38 1897-1947 Letters from his brother, Ernest C. Desch, FSI, chartered quantity surveyor. [Incl. letter from his son, Harold, in Ondo, [W.Africa], n.d.]
- /FAM/39-49 1910-45 Letters from his sister, Mabel, and her husband, Herbert Holmes.
- /FAM/50-58 1916-1937 Letters from his wife, Mrs. Elinor Desch.
- /FAM/59-79 n.d, 1925,27,35 Letters from his daughters, Marjorie and Rosalind.
- /HM/MISC/1-77 1911-56, n.d. Miscellaneous letters on historical metallurgy [not an original group], which have been arranged in chronological order. They include:-
- /1 1911 Mar 3 George Orr, Langholme: specimens from Old Irvine farm.
- /2 1929 June 29 D.S.I.R, Building Research Station: nature of metal dowels in St. George's in the East.
- /3 1930 Jan 18 Thos.Andrews & Co. Ltd, Royds Works, Sheffield: works history.
- /4 1930 June 20 Gertrude Caton-Thompson: Zimbabwe material.

- /6-14 1932 Oct-1933 Jan Corresp. with E.W. Hulme, Littlehampton, on hand-forging of cutting tools, in connection with his paper on iron bar currency theory.
- /17-19 1933 V. Gordon Childe: analysis of slag from Castlelaw Fort.
- /20-21 1933 R.A. Mott, Midland Coke Research Committee: Dud Dudley's claims as to use of coal in iron manufacture.
- /27-35 1934 Alexander Curle, Edinburgh: analysis of material from Jarlshof, Shetland.
- /38 1936 Jan 13 F. Saxl, Warburg Institute: balance of imagination and accidental factors in discovery.
- /39-43 1936 Herbert Maryon, University of Durham: on welding of ancient gold; with pages from Goldsmiths Journal, Sept 1934.
- /48-49 1936 Apr W.H. Hatfield, Brown-Firth Laboratories, Sheffield: his claims in respect of austenitic steels and so-called Strauss re-agent.
- /50-52 1940 Eliot Curwen, Sussex Archaeological Society: analysis of flanged celt from Coombe Hill barrow.
- /53-57 1943 Sir Cecil Clementi: various queries about tin in ancient history.
- /76 n.d. V.Gordon Childe: circulated comments on proposed "Copper Age" archaeological period. Annotated by O. Davies and others.
- /HM/SU/1-119 1925-57 (mainly 1930s) Original groups of corresp. about historical metallurgy in envelope marked "Archaeological"; mainly but not exclusively, relating to the work of the Sumerian Committee of the British Association and the determining of the origin of the copper used by the Sumerians. Corresp. has been arranged as far as possible in chronological order, with a few undated notes, analyses, etc, at the end of the series.
Correspondents include:-
G.A. Garfitt; Sir (W.M.) Flinders Petrie; Harold J.E. Peake; H.J. Plenderleith; Dr H. Frankfort, Oriental Institute, University of Chicago; Newcomen Society; J.L. Starkey, Wellcome Archaeological Research Expedition to Near East; Jas. H. Brasted, Oriental Institute, University of Chicago; O.W. Ellis, Ontario Research Foundation; J.R. Partington; Winifred Lamb; J.V. Harrison; Reg. Campbell Thompson; W. Campbell Smith, Deputy Keeper, BM (Natural History); E.W. Hulme; Harry C. Richardson, Republic Steel Corporation; Brit. Non-Ferrous Metals Research Association; Ernest A. Smith; C. Leonard Woolley; N. Belaiew; Chris. Hawkes; H.H. Coghlan; V.

Gordon Childe; Lt.-Col. E.H. Gastrell; British Association (enquiry from Robert I. Jaffee); Survey of Persian Art. Additional subjects dealt with include:- Osemund iron (Hulme); electrum (Smith); comments on Sumerian copper by H.J. Forbes, described as a Dutch engineer. [Not all the corresp. is complete, e.g. there are some copy letters with no related originals in this group. The material also includes analyses, notes of a lecture by CHD, a copy report and printed report and minute gold rings from Marcla Ali (in envelope HM/SU/6); these items have not been transferred, in view of their close relationship with the corresp.]
See also CHD.14/HM/MISC.

- /HM/UK/1-109 1924-48 Original folder entitled "Antiquities Miscellaneous". Corresp. about analysis of metal finds, mainly but not exclusively in U.K. [Some of the corresp. relates to the contents of the Sumerian Copper file, CHD.14/HM/SU.] Corresp. arranged as far as possible in chronological order. Correspondents include:-
Lily F. Chitty; F.S Richards; Harold J.E. Peake; L.W.G. Malcolm; Henry Louis; T. Sheppard, curator, Municipal Museums, Hull; Society of Antiquaries; John L. Myres; A. Leslie Armstrong; H.O. Weller, civil engineer; (Sir W.M.) Flinders Petrie; G.A. Garfitt; H.J. Fleure; H.J. St. George Gray, curator, Somerset County Museum; B.H. Bentley; A. Lucas; Cyril Fox, Director, National Museum of Wales; G.A. Wainwright; O. Davies; Winifred Lamb; W.F. Collins; Survey of Persian Art; Eliot Curwen; C.G. Seligman; L.V. Crinsell; (Sir) Robert Mond; Louis C.G. Clarke; F.C. Mears; V. Gordon Childe.
The above includes analyses from:- F.Orme, Sheffield University; W.H. Herdsman; Adam Hilger Ltd.
- /110-165 Miscellaneous analyses, notes, drawings of finds by CHD, offprint of report by him, large group of photographs and microphotographs of finds, many unidentified, some possibly relating to crystal growth.
See also CHD.14/HM/MISC.
- /HM/VC/1-73 1936-8 Original groups of corresp., with enclosures, about historical metallurgy in envelope entitled "Guernsey Iron &c Collum": CHD's corresp. with Miss V.C.C. Collum of Peaslake, initially analysis of iron hammer from Déhus chambered mound, Guernsey. Also deals with: Armorican culture generally; state of Lukis Museum collections; Central Asian/Mongolian copper objects of Mildred Cable and the Misses French, VCCC's friends [letters include references to their surveillance by OGPU].

Miss Collum was originally supported in her researches in the Carnac district by Sir Robert Mond. The last letters of the group relate to the financing of the analyses and one includes Miss Collum's views on her work, etc, with a reference to her 1st World War experiences (/70).

The corresp. also includes copy letters from CHD to Mond and to Harold Peake, Chairman of the Sumerian Committee.

- /PER/1-151 1893-1957 Letters to CHD of a personal nature, arranged in chronological order. They include letters of congratulation and acknowledgments of congratulations or condolences.
Writers include:-
- /1,3 1893,5 Raphael Meldola, Finsbury Technical College: career advice.
- /2 1894 F. Kendall & Son, Stratford-on-Avon: character testimonial.
- /4 1899 Edgar S. Barratt, Wm. Burton & Sons, chemical and essence manufacturers, Bethnal Green: developments at the works.
- /5-14 1900-05 Letters, bills, etc, relating to CHD's stay and studies in Würzburg.
- /15 1906 Professor Dr Roeschen: Desch genealogical sources are available in Imperial County Record Office Solms-Laubach and Wetteravie town archives.
- /24 1914 William Caldwell, Dublin: long letter, including some details of his research. [also /39].
- /40 1915 Professor Henry M. Howe, Bedford Hills, N.Y. [metallurgist; son of Samuel Gridley Howe, U.S. humanitarian]. [N.B. There are no letters from the period 1915-22, 1924-30].
- /47 1936 Frederick Soddy: on death of Soddy's wife.
- /55 1938 N. Belaiew: congratulations. Mutual appreciation of le Chatelier; shared concern at waste of natural resources. [also /62,110: p.1 only, 128].
- /56-9 1938 Congratulations from Germany on award of Bessemer Medal. Includes comment on syllabus of Kaiser-Wilhelm Institute for Metals Research, Stuttgart.
- /61 1938 W. Rohn, Hanau am Main: discusses German situation.
- /65-6 1939-40 Professor P. Chevenard.

- /81 1943 Sir Harold Hartley: on death of Hartley's father. Also /63.
- /89-90 1944 Leslie Hore-Belisha.
- /107-8 1945 Letter from and copy reply to Etienne Desch, Paris: about Desch genealogy [in French].
- 124,6 1948 British Council: size of audiences at CHD's lectures in Belgium.
- /POS/1-82 1900-58 Correspondence relating more or less directly to Positivism; also to scientific policy and the social science of science. Arranged in chronological order.
Correspondents include [document numbers in brackets]:-
E.S. Beesly (7); Arthur Geddes: dispute with Institute of Sociology over publishing his work, 1945 (61-5); Sir Patrick Geddes (31-4); Glasgow Ethical Society: arrangements for speakers, including: letters from persons invited (14-23, 25-6, 28); Frederic Harrison: personal letters, including references to CHD's wedding 1908 (2-3); (Sir) Julian Huxley: German re-education, 1943 (53); F.S. Marvin (48, 54, 55); New Europe Group, 1950 (75-7); Outlook Tower, Edinburgh: relief of young artists, 1914 (24); Mrs Charles Singer (58, 60); Social Functions of Science: reactions to this paper by CHD, 1931, from: Harry Brearley, R.A. Hadfield and Professor G.R. Potter (36-8); Frederick Soddy: including letter on monetary policy (27, 30, 42, 45, 50, 51, 71); Winifred Soddy: women's suffrage, 1914 (11-12); Gustav Spiller, Secretary, International Union of Ethical Societies (8); Stratford-upon-Avon Positivists: letter from A.H. Wall, 1900 (1); S.H. Swinny, editor, Positivist Review (4, 13).
- /83 MS. distribution list for CHD's obituary of Marvin.
[For letters relating to CHD's obituary of Marvin for Isis, see CHD.14/PUB/46, 9].
- /PRO Correspondence directly relating to CHD's professional career
- /1-6 1908 Glasgow University: original group of testimonials and copy of letter of application from CHD for Graham Young Lectureship in Metallurgical Chemistry.
Autograph testimonials from:-
Professor J. Norman Collie; Professor A.K. Huntington; Professor Herbert Jackson; Professor Raphael Meldola; Professor William Ramsay.
- /7-22 1908- Glasgow University: correspondence concerned with CHD's career and duties there. Also includes copy made by CHD of letter from [Surgeon-Gen. Sir] Alfred Keogh, Rector of Imperial College, to [Sir Donald] MacAlister, Principal of Glasgow University, 1913, about

Chair of Metallurgy, for which CHD and Carpenter were candidates; 3 letters about CHD not accepting professorship at Heriot-Watt College, Edinburgh, 1914.

/23-5 1915 Letter written on behalf of Sir William Ramsay agreeing to give CHD reference; letter from Henry Le Chatelier, accompanying reference.

/26-7 1931 Sheffield University: 2 resolutions on CHD's resignation.

/28-31 1939 Feb D.S.I.R.: corresp. about refusal to allow CHD to serve on P.E.P. group to direct survey of scientific research.

/32-4 1939 Feb Iron and Steel Institute joint scheme for Scientific Adviser: corresp. with W.H. Hatfield.

/35 1945 Whitehead Iron and Steel Co. Ltd.: appointment as Scientific and Technical Adviser.

/PUB Correspondence about papers, books, lectures and broadcasts by CHD

/1-81 1909-50 Arranged by groups in broad chronological order. Contents include:-

/2-6 1909 Sir William Ramsay about completion of text of CHD's Metallography for Longmans, Green & Co.

/22-3 1942 Roland Hunter Briggs: proposal for volume on properties and applications of new metals.

/31-6 1943-6 Longmans, Green & Co. Ltd.: revision and translation of CHD's Metallography.

/44-5 1944 Adprint Ltd.: commissioning of article for first volume of Future.

50-6 194- A.L. Hetherington: CHD's assistance with iron and steel sections of work on British industrial research by ALH and Sir Frank Heath.

57-61 1943-5 Sir James Marchant: chapter by CHD on iron and steel development for Post War Britain – a review of the possibilities.

/62-8 1943-5 Harold Stannard, general editor of Chatham House Reconstruction pamphlets series: CHD's title, Science and the Social Order.

/73- 1945-8 L.G. Wickham Legg: CHD's contributions to DNB.

/REFS/1-48 Letters to CHD concerning appointments, references, etc.

- 1907, 14-50 Arranged in chronological order.
Corresp. includes:
- 1914-15 Vacancies with a number of business firms.
- /16-17 1943 Montagu (later Baron) Norman: co-ordination of research.
- /18, 31, 32, 40 1944, 5, 8 Lord Eustace Percy, Vice-Chancellor of University of Durham: organisation of Dept. of Metallurgy.
- /22 1944 F. Laszlo, Melbourne: includes reference to personal plans.
- /37 1948 Mr Polanyi: personal gratitude to CHD.
- /RES/1-22 1912-31 Original group of corresp. in envelope entitled "RESEARCH CORRESPONDENCE". Arranged in chronological order:
- /1 1912 Jan 26 Thos. Turner, Birmingham University: detailed criticism of CHD's crystal thrust hypothesis.
- /2-4 1914 Apr, July Robert J. Caldwell, Belfast: crystal size in brass castings.
- /5 1915 Mar 24 George Beilby, Glasgow: molecular mobility under surface tension.
- /6-7 1915 Apr, May J.E. Stead (Pattinson & Stead, analysts, Middlesbrough): proof of allotropy.
- /8 1919 Dec 5 T.F. Smeaton, Rugby: work on tungsten specimens.
- /9 1922 May 19 Sir Herbert Jackson, British Scientific Instrument Research Association: grazing illumination.
- /10 1922 Nov 30 Alfred Egerton, Oxford: lead sample.
- /11 1923 Jan 16 J. Neill Greenwood, Stocksbridge: thermionic valves for crystal slip testing; behaviour of cold worked wires or sheet.
- /12-13 1923 Apr, June Sir Herbert Jackson, B.S.I.R.A.: metal specimens found in Co. Tipperary.
- /14 1923 May 3 S.W. Morrison, B.o.T.: diamonds for metal ruling.
- /15 1923 Nov 12 Sir Herbert Jackson, B.S .I.R.A. : protection of glass mirrors.
- /16 1927 June 24 N. Belaiew, S.W.7: mainly about crystals.

- /17 1929 Dec 13 R.F. Mehl, Superintendent, U.S. Naval Research Laboratory, Anacostia: work on Widmanstätten figures in relation to copper-aluminium alloys.
- /18 1930 Dec 10 N. Belaiew, S.W.7: acknowledges CHD's paper on Sumerian copper. [See CHD.14/HM/SU/1-116 above].
- /19 1931 Jan 16 Professor J.E. Lennard-Jones, Bristol University atomic structure.
- /20 1931 Jan 27 Carl Benedicks, Director, Metallografiska Institutet, Stockholm: Peltier effect.
- /21 1931 Mar 4 N. Belaiew, S.W.7: $\triangle_o -s$.

Also in this file, apparently unconnected with corresp.:

- /22 (1913) Printed illustrated fold-out leaflet: Tjilatjap ferruginous sand concession (John J. Loke, The Hague, Holland).

[Letter from F. Soddy, 1926, on economic policy transferred from this section to CHD.14/POS.]

/RES/23-226 Corresp.. concerning various aspects of research, arranged chronologically, 1896, 1903-c.1950.
Correspondents include:-

- /25-6 Professor Arthur Hantssch, Leipzig, 1906, 08;
- /27 Professor E.C.C. Baly, Liverpool, 1910: details of work in progress;
- /28, 29, 31 Dr. Fritz Caspari, Höchst, 1913;
- /30, 7 G. Bruni, Padua, 1913, 14;
- /40, 5 British Portland Cement Manufacturers Ltd., Cousland Works, 1914: complaint about visit of Mr S.S. Sohl;
- /57 Kerr Grant, University of Adelaide;
- /50 H.W. Bywaters, research chemist, J.S. Fry & Sons Ltd., cocoa processors, Bristol, 1914: technical problems;
- /58 Henry Le Chatelier (industrial chemist and metallurgist), 1914;
- /72-3 G.C. Lloyd, Secretary, Iron and Steel Institute: attempted unification of nomenclature of industrial iron and steel products;
- /82, 85 F.H. Schoenfuss, Standard Roller Bearing Co., Philadelphia;

- /88, 90 Thos. Martin Lowry, lecturer in chemistry, Guy's Hospital Medical School: development of research project;
- /91-7 J.W. Trench, Barr & Stroud Ltd., 1916-17: crystal in optical flint glass [with notes and microphotograph]; scratches on glass; appraisal of a diamond;
- /101-2 Cosmo Johns, Vicker Ltd., River Don Works: sends and comments on his paper on 'The Metallurgical Problems of Germany' [Proceedings of Sheffield Society of Engineers and Metallurgists, 1918, pt. II: CHD.14/RES/102];
- /103 Henry Le Chatelier, 1919: discusses plaster and proportion of water used for mixing;
- /105-8 detailed discussion of behaviour of nuclei in crystallisation, 1925: 2 letters from Ulick R. Evans, Cambridge, copy letter to same and to Professor P.J. Daniell, Sheffield University;
- /110-13 F. Lloyd, tool manufacturer, Sheffield, 1930: analysis of unsatisfactory manganese steel rods [with mounted microphotographs];
- /114-17 R.E. Richardson, Sheffield University, 1931-2: sends and comments on microphotographs of various metals;
- /119 N. Belaiew: urges research into interlamellar differences in pearlite, etc.;
- /120 A. J. Allward, King's College, London: discussion of nickel production by unnamed firm;
- /121 F.R. Hensel, P.R. Mallory & Co. Inc., Indianapolis, 1935: interest in copper-sulphur system, in connection with manufacture of electric current rectifier;
- /122-4 A. Portevin, École Supérieure de Fonderie, Paris: discussion at length of true French equivalent for English term "soundness" in description of metals;
- /125 Professor P. Chevenard, 1939: discusses invar alloys [also 2 personal letters about visits, 1940 (/129,130); letter about Le Chatelier centenary, 1950 (/223)];
- /126-7 W.G. Moore, physio and electro-therapist, 1940: requires titanium and uranium metal powder for apparatus for leprosy cure;
- /131 Professor [later Sir] Ronald H. Fowler, Cavendish Laboratory, 1941: discusses in detail presence of hydrogen in metals;

- /132 W.H. Hadfield., Atlas and Norfolk Works, 1941: critical discussion of document being prepared by CHD on alloy steels;
- /140-2 copy corresp. about visit of CHD to Joseph Sankey & Sons Ltd., Aug 1943, in light of possible clash of interest;
- /144 E. Orowan, Cavendish Laboratory, 1943: thanks for advice in connection with lubricants for rolling and drawing;
- /146 Ministry of Economic Warfare, 1943: queries effect on Germany of loss of ferro-alloy supplies;
- /147 [Dame] Kathleen Lonsdale, 1943: scientific integrity of J.B. Hannay [see also /213-15 below; further letter from Dame Kathleen, /220];
- /148-9 P.H. Frankel, 1943: research into core oil problems;
- /150-7 Sqn. Ldr. A.C. Vivian, R.A.F. Henlow, 1944: corresp. about papers by V. on Fracture, Hardness, etc.;
- /175, 185-6 Rosser & Russell Ltd., engineers, 1944: discussion of technical problem;
- /176-7 Mavor & Coulson Ltd., Glasgow: possibility of light alloy roof supports in collieries;
- /188 Frank Adcock: discussion of problems with roofs of steel furnaces;
- /189-193 Small original group of corresp., 1945, on lines of future research: Professor A.M. Tyndall and Professor N.F. Mott, Bristol and Sir Henry Tizard;
- 198-9 J. Hawkes, 1945: recrystallization phenomena in rocks;
- 206-7 R. Mather, Skinningrove Iron and Steel Works, 1946: invitation to CHD to visit and advise Tata Iron and Steel Co, Jamshedpur;
- 210 British. Iron and Steel Research Association, 1946: interviewing of Dr. Werner Lucy of Kaiser Wilhelm Institute, Düsseldorf;
- 213-15 Thomas French, engineer, Seattle, 1946: sends copy of long letter to H.P. Rooksby, G.E.C. Co. Ltd, about his paper on jewels and stones for industrial purposes: French's experience of J.B. Hannay and low opinion of him [see /147 above].
- /SHE/1-41 1919-20 Original file of corresp. and papers about appointment of CHD to chair of metallurgy at Sheffield University and about his taking up the post.
Correspondents [arranged in chronological order] include:

Professor William G. Fearnside; Joseph Husband; Sir W.H. Hadow, Vice Chancellor; W.H. Hatfield; H. Le Chatelier, Paris; William Beardmore; Emeritus Professor Archibald Barr (testimonial); Walter Rosenhain, National Physical Laboratory; W.M. Gibbons, Registrar; Sheffield University Metallurgical Society; W. Ripper, Acting Dean; J. Wreaks, Dept. of Metallurgy; T.W. Bagshawe, Gonville and Caius College, Cambridge; Fred K. Knowles, Dept. of Metallurgy; Dinner Committee, Non-Ferrous Students, Sheffield; N.N. Ghosh.
Also includes copy letters by CHD.

- /S0C/1-160 Corresp. about C.H. Desch's membership of societies, committees, etc., and requests from such bodies for him to lecture. [N.B. material on some of the bodies listed will also be found in other sections of this archive, e.g. research correspondence [CHD.14/RES], committee papers [CHD.8].]. Arranged in alphabetical order of body, as follows:-
- /1 1945 Aeronautical Research Committee.
 - /2 1945 American Council of Learned Societies: microfilming in U.K. scheme.
 - /3 1939 American Institute of Mining and Metallurgical Engineers.
 - /4-5 1952 American Society for Metals.
 - /6 1944 ASLIB Microfilm Service.
 - /7-9 1934, 52, 5 Athenaeum.
 - /10-11 1945, 56 Worshipful Company of Blacksmiths.
 - /12 1945 Borough Polytechnic Governing Body.
 - /13-22 1914-49 British Association for Advancement of Science: includes 2 letters from Alfred Holt, 1915; 2 letters from Sir Richard Gregory, 1948, 9.
 - /23/1-2 1944 British Iron and Steel Federation.
 - /24-5 1944-5 Bureau of Abstracts.
 - /26-30 1909, 46-53 Chemical Society.
 - /31-4 1944-5 Cleveland Scientific and Technical Institution: inaugural Harold Wright lecture: includes 3 letters from Dortman, Long & Co. Ltd., 1 signed by Arthur Dorman giving background on Wright.
 - /35 n.d. D.S.I.R.

- /36-8 1937 Deutsche Gesellschaft für Metalkunde: corresp. with Dr W. Rohn about honorary membership of German Society for Metal Technology.
- /39 1943 Ebbw Vale Metallurgical Society.
- /40 1954 Electrical Research Association: letter from Director of D.S.I.R.
- /41-8 1914-15, 1945-9 The Faraday Society.
- /49 1949 Festival of Britain.
- /50-7 1909, 14 Glasgow University: Amleth Club; Botanical Society; Engineering Society; St. Ninian Society; University Students' Settlement.
- /58 1946 Hilary Bauerman Trust, Imperial College.
- /59-62 1944, 9 Imperial Institute: Advisory Council on Minerals.
- /63-7 1944 Proposed British Institution of Metallurgists [variously titled]: letters from:-
C. Sykes, Thos. Firth & John Brown Ltd.; Professor C.A. Edwards, University College of Swansea; Professor W. Hume-Rothery, Oxford; H. S. Tasker; Dr T. Swinden, United Steel Cos. Ltd.
- /68-9 1909 Institute of Chemistry.
- /70-4 1909, 15, 1944-9 Institute of Metals.
- /75 1949 International Council of Scientific Unions: Committee on Science and its Social Relations.
- /76-95 1914-15, 1945-9, 56 Iron and Steel Institute.
- /96-102 1943-7 London, Midland and Scottish Railway Co, Scientific Advisory Committee: includes 3 letters from (Sir) Harold Hartley.
- /103 1935 Manchester College of Technology.
- /104/1-2 1945 Ministry of Works, Building Materials Research Panel.
- /105 1944 National Trades Technical Societies, Darlington Section.
- /106-11 1944-55 Newcomen Society.
- /112 1946 Rolling Mill Committee.

- /113 1950 Royal Anthropological Institute, Ancient Mining and Metallurgy Committee.
- /114-15 1951, 5 Royal Institute of Chemistry.
- /116-17 1947, 8 Royal Institute of International Affairs, Atomic Energy Study Group.
- /118-21 1933-50 Royal Institution.
- /122 1943 Royal Philosophical Society of Glasgow.
- /123-39 1932-50 Royal Society.
- /140 1946 Sheffield Metallurgical Association.
- /141-2 1943-4 Sheffield Trades Technical Societies.
- /143-5 1915, 1949, 1952, 1954 Sheffield University: signed menu card of 1st and 2nd Reunion Dinners of Dept. of Metallurgy.
- /146-7 1950 Societe Francaise de Metallurgie
- /148 1948 Societe des Ingenieurs Civils de France
- /149 1914 Society of Chemical Industry, Scottish Section
- /150 1905 Sociological Society
- /151-2 1907 University of London Graduates' Union
- /153 1909 University College Union Society.
- /154-6 1948 University College, London, Philosophy of Science Group.
- /157-8 1944-5 Wimbledon Literary and Scientific Society.

Miscellaneous:

- /159 1944 Edward Hulton: group under chairmanship of Lord Sankey to consider post-war policy towards Germany.
- /160 1945 William Cullen, E.C.2: attitude towards resigning from boards.
- /STO Correspondence: group of corresp. with related items about preservation of stonework, especially by use of fluates
- /1-14 1914 June-Dec H.T. Desch, William Cubitt & Co. (Holland & Hannen and Cubitts Ltd.), builders and contractors, London, to his son CHD: about preservation of Portland Stone, with special reference to

the Cunard Building being erected at Liverpool. HTD reports on his visit to Etab. J. Teisset-Kessler, Clermont-Ferrand, producers, inter alia, of fluates (fluosilicates); involvement of Bath & Portland Stone Firms Ltd. and other firms in Portland Stone trade.

Also: 15 pp. illustrated catalogue *Appareil*.

Kessler pour la Concentration de l'Acide Sulfurique [includes views of Kessler quarries and Kessler and other works: CHD.14/STO/2]; 2 letters from Ballantyne Press, Edinburgh about printing CHD's Report; 3 copies of CHD's Report on the Preservation of Portland Stone [CHD.14/STO/12]; copy of part of letter from Mr. Blount [to HTD], 6 Apr 1915, accompanying 64 pp. illus. catalogue of N.C. Szerelmey & Co, London S.E., 1909 (stone liquids, paints, etc.) [CHD.14/STO/14].

- /15 1917 Dec Journal of Society of Chemical Industry: reprint of abstract of paper by CHD on Preservation of Building Stone, given to Glasgow Section.
- /16-19 1920 Aug The Times: cuttings of 3 letters [including 1 from CHD] and comment on stone preservation.
- /20-49 1920 Aug-1921 Jan Corresp. with CHD arising out of the above. Letters from: HTD; M.O. Hollams, Dene Park, Tonbridge; St. Asaph Zinc, Lead & Baryta Co. Ltd.; John Bilson FSA, Hull; C.H. Harrison, Algars Manor, Iron Acton; Dr Hedley Bartlett, Saffron Walden (owner of Pembridge Castle); E.J. Horniman, Burford Priory, with printed notes by R. H. Gretton on the Priory, Aug 1917; Lord Harcourt, Nuneham Park; Dr. E.F. Armstrong, Joseph Crosfield & Sons Ltd.; Sydney W. Ambler, Estates Office, Sandbeck Park; Director of Building Research, S.I.R.D.; Lewis G. Fry, Limpsfield; also includes typewritten note by CHD on visit to Limestone Quarries, Kiveton Park [CHD.14/STO/23]; MS note of tests on Kiveton Park dolomite [CHD.14/STO/47].
- /50-3 1921 June 3 letters from Director of Building Research, 1 from Imperial War Graves Commission: acknowledgement of CHD's report on Paris visit; possible manufacture of fluates in England; end of working of Ancaster stone quarry.
- /54-6 1922-3 Oxford stone: letter from Douglas T. Thring, Estates Bursar, Merton College, about treatment of College stonework; typewritten notes [by CHD] on visit to Oxford, May 1922; 20 pp. printed booklet Suggestions for the Prevention of the Decay of Building Stone by J.B. Marsh (Blackwell, 1921).
- /57 MS notes of results of tests on: Bath stone; Dark Hopton Wood Limestone; Hopton Wood Stone; Portland Stone; Robin Hood Stone; Tadcaster Stone; part of draft report.

- /58 1914 Jul 28 Typewritten instructions to workmen for fluating Portland, Bath and similar stones, J.F. Barnes, 14 Nine Elms Lane, S.W.
- /59 1921 May 31 CHD: typescript Report for Building Research Board on 'The Use of Silico fluorides in Paris Buildings [see CHD.14/STO/50-3 above].
- /60-1 1934 Imperial War Graves Commission: 2 letters about CHD's report on maintenance of headstones in France and Belgium.
- /62 1944 Jul 3 I.W.G.C.: meeting of Headstone Committee on headstones for N. Africa.

[/58-62 were transferred to this group from other groups].

[The various categories of material are too closely related for the printed items to be separated from the correspondence in the above group].

- /WW/1-213 1914 Oct - 1917 Feb Original group of corresp. principally relating to CHD's scientific activities in 1st World War. Subjects dealt with include:

- (i) manufacture of chemicals by CHD, including hydroxylamine (Thos. Tyrer & Co. Ltd., Stirling Chemical Works, Stratford; May & Baker Ltd., Battersea; Royal Society War Committee; Frederick Soddy; Thomson, Skinner & Hamilton, Glasgow; Special Chemicals Co., London; Hopkin & Williams Ltd., Hatton Garden; John Griffin & Sons Ltd., Kingsway; Baird & Tatlock (London) Ltd.; W. Martindale, manufacturing chemist, London; Standley, Belcher & Mason Ltd., Birmingham; Parazone Co. Ltd.; J. Allen Pickard, London);
- (ii) testing of metal for fuse production by William Cubitt & Co. (H.T. Desch); question of use of swarf [waste brass from machines];
- (iii) alternative sources of lignite supply (John Craig & Son (1914) Ltd., Dalsholm Paper Mills; Clerk to Bovey Tracey Parish Council; G.W. Colenutt, FGS (solicitor), Ryde; Clerk to Whitby U.D.C.; Percy Kendall, Geology Dept., Leeds University; T. Trattles, Whitby; J.L. Cardwell & Co. Ltd., Manchester;
- (iv) appointment of individuals to scientific war work, including corresp. with or about:- Barr & Stroud Ltd., Anniesland; Frank Hargreaves; North British Rubber Co. Ltd. (concerning Harrison); Elsie G. Kennedy; Dalzell Steel Works; Patrick Brough; Leonard Hawkes; Rev. R.W. Stewart; S. English;

Alfred G.C. Gwyer, Lymm; Robert Hay; Francis H. Melville;
Miss A.B. Henderson; Barbara Scott.

Also includes corresp. about: supply of samples, equipment, etc., some possibly for teaching purposes (F. Kendall & Son Ltd., Stratford-on-Avon; 'Cromit' Engineering Co. Ltd.; United Alkali Co. Ltd.; Castner-Kellner Alkali Co. Ltd.; Doulton & Co. Ltd.; Alfred Johnson & Co. Ltd., Queenborough); examination of samples (W.H. Herdsman, Glasgow); membership of British Science Guild Committee on Microscopes; 'badging' of Desch and his staff for war work.

CHD.15 Personalia

- /1 [1885?] June 20 MS. description [by CHD] of visit with his father to the Inventions Exhibition.
- /2-3 1891, 92 CHD's personal data recorded on visit to Francis Galton's Anthropometric Laboratory.
- /4 c.1897 Volume with MS details of books bought by CHD: nos. 1-159 only.
- /5-9 1900-01 Royal Bavarian Julius-Maximilians-University, Würzburg: booklets relating to CHD's studies there, including: fees-receipt book, lecture lists, illustrated brochure, V.D. warning leaflet.
- /10 1906 Christmas book on metallurgy, compiled by CHD for his fiancée, Miss Elison A. Macadam.
- /11 Unnumbered accumulation of biographical press-cuttings and similar material relating to CHD, including obituaries. Also 3 letters to Mrs. Elison Desch, from: W. Barr, Colvilles Ltd., with copy of his obituary for American Institute of Mining and Metallurgy; Sir Ivison Macadam [her brother]; Dr Harold Moore, with copy of his obituary for Institute of Metals (also note by CHD, 1944, on Moore's retirement). There are also several copies of the Tribute delivered at Golders Green Crematorium by T.S. Lascelles, of the Royal Society Biographical Memoir and of the Notice Nécrologique of the Académie des Sciences.
- /12 Unnumbered accumulation of press-cuttings of reviews of CHD's books, notices of his work, etc.
- /13 Miscellaneous printed, typescript or photographic items relating to other people or institutions, including:
- /1-5 1889 Birkbeck Magazine, vol. 1, 1-5.
- /6 1899 Sep F. Kendall & Son, chemical manufacturers, Stratford-upon-Avon: 41 pp. printed Price List.
- /7 1913 Printed circular letter about presentation portrait of Emeritus Professor Archibald Barr.
- /8-9 H.C. Sorby: Typescript 'Twenty-Eight Years' Micrographic Recollections' by J.D. Arnold FRS. Photograph of Sorby on board ship, collecting specimens.
- /10-13 1932-3 Positivist Churches' ephemera: Liverpool, London and Union Internationale des Pacifistes Patriotes.
- /14 1946 Aug 21 German prisoners-of-war in U.K.: duplicated memorial to Prime Minister.

- /15 n.d. 'Early Iron-making in the Sheffield Area': typescript of paper by R.A. Mott.
- /16 16 pp. prospectus for A History of Fire and Flame by O.C. de C. Ellis.
- /21 Framed photograph of Fanny Hertz, with autograph.
- /14 Unnumbered miscellaneous personalia, souvenirs, etc., including: printed invitation to CHD's wedding; offprint of paper 'The Chemical Examination of Water' by Alison Macadam [later CHD's wife], 1903.
- /15 Unnumbered accumulation of personal photographs, including studio portraits, photographs of CHD at official functions, 2 class photographs at Finsbury Technical College, with Professor Meldola, 1891, and album of centenary celebrations at mining school, Loeben, 1949.

CHD.15 Miscellanea

- /16 Exercise book containing MS standard specification for erection of dwelling house [? deriving from H.T. Desch].
Included in above:
- /17 MS botanical notes.
- /18 [1939-45] Radial distance map from A.R.P. Post 25, Wimbledon, [drawn by CHD].
- /19 Small group of press-cuttings on subjects of interest to CHRD, including article on Mr. W.D. and Mrs. Fanny Hertz, positivists.

CHD.17 Sketches

- /1 1918-21 Personal sketch-book of CHD: views, flowers, ink/ink and wash.
- /2 1918-27 Archaeological sketch-book of CHD: copies of book-illustrations or slides, ink/ink and wash.
- /3 1903-21 Batch of loose ink/ink and wash sketches by CHD: botanical, landscape, copies of illustrations.