

ARMSTRONG PAPERS
Second Series

Imperial College Archives

IMPERIAL COLLEGE

University of London

ARMSTRONG PAPERS

Second series

List of the correspondence and other
papers of Henry Edward and Edward
Frankland Armstrong.

Compiled by Jeanne Pingree

IMPERIAL COLLEGE ARCHIVES

1974

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Introduction

Miss Nora Armstrong, the daughter of Professor H. E. Armstrong, FRS, presented a collection of her father's correspondence and other papers to Imperial College in 1958. A list of these papers was circulated in 1967. In 1968 Miss Armstrong then gave a further set of papers to the college which included some of the correspondence of her brother, Edward Frankland, in addition to her father's papers. This second series of Armstrong material is listed here. It is not described in full as many letters are only of ephemeral interest. Unless otherwise described, all letters were written to Professor Armstrong and are holograph or signed typewritten letters.

Abbreviations

B A	British Association for the Advancement of Science.
B D C	British Dyestuffs Corporation.
CGLI	City and Guilds of London Institute.
CJ	The Central. Journal of the old students of ... the Central Institution. Vol. XXV, June 1938. Armstrong Memorial issue.
E F A	Edward Frankland Armstrong.
Eyre	J. Vargas Eyre : Henry Edward Armstrong. London, Butterworths, 1958.
H E A	Henry Edward Armstrong
JCS	Journal of the Chemical Society.

Outline of the careers of Professor Armstrong and his son.

1. Henry Edward Armstrong.

- 1848 Born 6 May, son of Richard Armstrong, at Lewisham.
- 1865 - 7 Student at the Royal College of Chemistry.
- 1867 - 70 Student at the University of Leipzig: awarded PhD degree.
- 1870 Appointed as a part time lecturer at St. Bartholomew's Hospital, and Professor of Chemistry at the London Institution.
- 1874 Published ' Introduction to organic chemistry. '
- 1875 Joint Secretary, with W. H. Perkin, of the Chemical Society.
- 1876 Elected Fellow of the Royal Society.
- 1877 Marriage to Louisa Lavers.
- 1879 Appointed Professor of Chemistry at the Cowper Street Schools (later Finsbury Technical College.)
- 1883 Senior Secretary of the Chemical Society : Finsbury Technical College opened.
- 1884 Appointed Professor of Chemistry at the Central Institution (later City and Guilds College.)
- 1892 Awarded honorary LLD , University of St. Andrews.
- 1893 - 5 President of the Chemical Society.
- 1897 Visited the USA as lecturer for the Lawes Agricultural Trust.
- 1911 Appointment at the City and Guilds College terminated. Awarded the Davy Medal of the Royal Society.
- 1913 Closure of the Chemistry Department at the City and Guilds College: appointment as Professor Emeritus, Imperial College.
- 1937 Died 13 July.

2. Edward Frankland Armstrong.

- 1878 Born 5 September at Lewisham. Educated St. Dunstan's College.
- 1895 Occasional student at the Royal College of Science.

- 1896 - 8 Student at the Central Institution: awarded ACGI (Chemistry)
- 1898 Student at the Universities of Kiel and Berlin.
- 1901 Awarded PhD degree, University of Kiel.
- 1902 - 3 Salter's Research Fellow, Central Institution.
- 1905 Appointment as Chief Chemist, Huntley and Palmer.
- 1907 Marriage to Ethel Mary Turpin.
- 1911 Received honorary LLD, University of St. Andrews.
- 1914 Appointment as Technical Adviser, later Director, Crosfields.
- 1920 Elected Fellow of the Royal Society.
- 1922 - 4 President of the Society of Chemical Industry.
- 1925 Appointed Managing Director, British Dyestuffs Corporation.
- 1928 Resignation, to become consultant in London.
- 1935 President of the Association of British Chemical Manufacturers. Death of his son, Kenneth, in Alpine accident.
- 1939 -45 Scientific Adviser to the Ministries of Home Security and Works.
- 1945 Died, 14 December, after an operation for appendicitis.

A PERSONALIA

- 1 Royal School of Mines and Science Applied to the Arts. Tickets of admission to lectures on Organic Chemistry, etc., for HEA, sessions 1865-6 and 1866-7. Signed by Trenham Reeks, Registrar.
- 2 Government School of Mines. Royal College of Chemistry. Receipts for payment of fees for admission to work in the laboratory, signed by W. Valentin. Six items.
- 3 The feast of the blues. By the author of 'A chemical review'. Printed for private distribution. London, 1865. 7pp. 15 cms.
A poem about a dinner at the 'Albion' attended by Abel, Hofmann, Odling, etc.
- 4 Autographs. R.W. Bunsen. A small envelope containing autographs by Bunsen and others.
- 5 The Jacksonian Professorship. Printed application, 1 April 1876; containing original testimonials from W. Morant Baker, Hon. Secretary to the Medical School, St. Bartholomew's; Henry Roscoe; Dr. W.J. Russell; and a copy of a testimonial from Professor Frankland, 1874-5.
- 6 Testimonials for HEA as a candidate for the above. 12 pp. Printed.
- 7 '1884 - 1885. Finsbury Technical College. Central Institution'. Notebook with a large number of letters, etc., pasted into it. 23 cms.
Correspondence and memoranda: notes by HEA and letters from members of the staff of the two colleges.
 - 1 Scheme for the organisation of the Central Institution 1884. 20 pp. Printed.
 - 11 City and Guilds of London Institute. Preliminary programme for the Central Institution. 9 pp. Printed.
 - 31 Finsbury Technical College. Printed memorandum on its organisation, from HEA, W.E. Ayrton, A.F. Brophy and J. Perry. 4pp. Pencilled note says 'Dec. 1883'. [Printed in full, CJ, pp. 31-2].
 - 33a 10 December 1884. Draft of a letter to the members of Sub-Committee C, of the City and Guilds of London Institute, on the administration of Finsbury Technical College. 9pp. [See CJ, pp. 40-4, printed in full].
 - 37a 13 December 1884. Draft of letter from HEA to Sir Frederick Abel on the organisation of the Chemistry Department at the Central

- Institution: appointment of Dr. Miller, etc., 2pp. Quoted, CJ, pp. 53-4.
- 38a 1 December 1884. Draft of letter from HEA to Philip Magnus, Principal of the Central Institution, on the appointment of Dr. [Alexander Kench] Miller as his assistant. 2pp.
- 39 15 December 1884. Letter from Sir Frederick Abel stating that the Council of the CGLI agrees to the appointment of Dr. Miller.
- 41 16 December 1884. Reply from Magnus stating the approval of the appointment at a salary of £150 p. a.
- 44a-49 Central Institution examination papers and marking list, 1884.
- 52 14 January 1885. Draft of letter to Magnus. Asks if Mr. Waterhouse can proceed with laying the floor, and other building works, in the chemical laboratories.
- 53 19 January 1885. Letter from Magnus to HEA stating that the various works are to be carried out at once.
- 54a 31 January 1885. Draft of letter to E. C. Robins on the possible award of a Fellowship in Applied Chemistry by the Dyers' Company. 2pp.
- 61a 7 March 1885. Draft of letter to Professor W. C. Unwin from HEA, W. E. Ayrton and O. Henrici asking that the chairman of the Board of Studies should be present at meetings of Committee A when educational matters are under discussion.
- 62 7 March 1885. Letter from Olaus Henrici on the matter of representation enclosing the probable original of (61a) above.
- 64-68 March 1885. Three letters from W. C. Unwin on the question of representation.
- 70 23 March 1885. Reply from HEA to Unwin, stating their views: 'we are not at present able to comprehend how the work of the Central Institution is to be carried on to the advantage of the Institution unless this principle [of representation] is adopted'. Draft.
- 73 28 April 1885. Letter from Philip Magnus stating that Raphael Meldola had been appointed Professor of Chemistry at Finsbury. Draft of reply from HEA stating that he is not now clear about the extent of his own duties at Finsbury, on the back of the letter.
- 75 1 May 1885. Reply from Magnus 'you are absolved from attendance at the Finsbury College from the commencement of this term'.

- 76 Long draft memorandum, in pencil, from HEA [to Committee A ?] on the views of Ayrton and himself on the organisation of Finsbury.
- 78 27 October 1883. Finsbury Technical College. Draft of letter to Magnus from HEA expressing his strong dissatisfaction with alterations which Magnus had made in the agreed timetable.
- 79 9 May 1884. Letter from W. E. Ayrton to Sir Frederick Bramwell, from Finsbury Technical College. Application for the post of Professor of Physics at the Central Institution.
- 81 30 April 1884. Letter to HEA from Philip Magnus, stating that he had been appointed Professor of Chemistry at the Central Institution, at a salary of £1,000 p. a., the appointment to be renewable annually.
- 84 1 August 1884. Letter from Philip Magnus, sending a copy of a resolution of the Executive Committee, and hoping that during the vacation HEA can proceed with the preparation of drawings for the fittings in his Department.
- 85 Copy of a resolution that Mr. Waterhouse should consult with the Director and the professors on the preparation of drawings for the fittings. (£4,000 was to be spent on the Chemistry Department).
- 86 3 June 1885. Draft of letter from HEA to W. C. Unwin on the recommendation of staff for his Department. 'It is unnecessary for me to say anything about Dr. Perkin', etc.
- 87 6 June 1885. Letter from Magnus asking why HEA is not giving a summer course; requesting a list of apparatus; giving arrangements for the projected dynamo room.
- 89 7 June 1885. Letter from S. P. Thompson. An enquiry about the period of Dr. Miller's appointment at Finsbury, etc.
- 91 13 June 1885. Draft of letter to Magnus from HEA. 'I deeply regret being compelled by circumstances to see my name omitted from the Syllabus of summer courses'. The laboratories were not yet fitted up and he could not superintend this work and also prepare for the courses.

Complimentary banquet in honour of Professor Henry Edward Armstrong. 13 May 1911. Menu, table plan, reprint of article from the 'Chemical News'. 2 June 1911.

- A 9 Presentation volume, given by staff and students of Chemistry to Professor and Mrs. Armstrong on the occasion of their Golden Wedding, 27 April 1927. Illuminated address and lists of names, etc., bound in dark brown leather tooled with gold, in matching silk lined slip case.
- A 10 City and Guilds College. Jubilee anniversary dinner in honour of Professor Armstrong, 4 February 1935. Signed menu card. See Eyre, p. 210.
- A 11 Jottings and Cuttings. A scrap book with obituary notices of Professor Armstrong's death.
- A 12 Obituary notices from the Journal of the Institute of Brewing. Royal Society, etc. Off-prints.
- A 13 Catalysts' Club dinner in honour of HEA. 1951. Menu, etc.
- A 14 Press cuttings about Edward Frankland Armstrong: 'The Chemical Age', 8 July 1922, with cartoon, etc.

B

PHOTOGRAPHS, etc.

1. One packet of photographs of HEA and others. Ten items: mounted 'cartes de visite' of various sizes. There is one of HEA, with the queried date '1875' on the back; two of Mrs. Armstrong; a photograph said to be Alexander Pedler, another of Adrian Brown, etc.
2. Packet of photographs of HEA and his family, taken over a period of about ten years; groups on holiday, walking, etc. 43 items. One group includes Sir William and Lady Perkin.
3. Small postcard with photograph of scientific apparatus and the message 'Wishing success for your experiments in 1898'.
4. Group photographs of HEA with staff and students at the Central Institution, from 1884. Two unmounted and three mounted photographs. One is reproduced in Eyre's biography, facing p. 130. Another in CJ , facing p. 69.
5. Photograph of a group of students at the Royal College of Science, with an accompanying letter from (William) George Valentin to HEA, 28 April 1929.
6. Photograph of EFA, with five others, all in a German students' uniform, peaked cap, etc. Probably taken between 1899 and 1902.
7. Two small photographs of EFA, with a second copy of each, taken in later life: two of the photographs are stamped '28 January 1937'.
8. A further small photograph, with the caption '... Chemical Adviser, E. F. Armstrong' in a packet attached to the Prospectus for St. Dunstan's College, Easter, 1891.
9. The London Institution. Print, 4 June 1819. Reproduced in CJ, facing p. 12.

C GENERAL CORRESPONDENCE

ABEL, Sir Frederick Augustus. 1826 - 1902

- 1 1 December 1895 Imperial Institute. Sends extract from a letter which he has received from India about the turpentine enquiry, etc.

ADAMS, John Crouch. 1819 - 1892

- 2 31 March 1875 18 Montpelier Crescent Brighton. To Warren De La Rue. Urges that H E A should put his name before the members of the electoral roll for the Jacksonian chair.

ADKIN, Robert

- 3 29 September 1864 Lewisham. Addressed to 'Master H Armstrong / Gibraltar.' Additions to his butterfly collection; a 'moddle' regatta on the Heath.

ALEXANDER, William

- 4 9 May 1925 43 Hertford Street Mayfair. To E F A . Congratulations on his appointment to B D C . Typewritten.

ANDERSON, Sir John. Viscount Waverley. 1882 - 1958.

- 5 14 September 1939 Home Office. To E F A . Invitation to serve as a member of the Civil Defence Research Committee. Typewritten.
- 6 19 September 1939 Home Office. To E F A . Glad that he will join the Committee. Typewritten.

ANDREWS, Thomas. 1813 - 1885.

- 7 20 January 1876 Queen's College, Belfast. Arrangements for his lecture to the Chemical Society on 28 April 1876.
- 8 24 January 1876 The same. Alterations to the title and subject of his lecture; his appointment as Bakerian lecturer to the Royal Society.

ARMSTRONG, Edward Frankland, and ARMSTRONG, Henry Edward.

- 11 - 46 Letters from EFA to his father (excepting no. 11, to his mother) from Berlin, 29 March 1899 to 1 May 1902, about his studies and research at the Chemisches Institut, under Van't Hoff and Emil Fischer; accounts of his research and descriptions of student life, etc.; comments on the attitude of the Germans to English people and events; meetings with German chemists; later work on sugars, etc. Letter no. 19 has an account of the opening of the Hofmann House; letter no. 31, an account of the PhD examination; letter no. 36, an account of his career, as an application for a post at the Goldsmiths' Institute in 1901.
- 47 - 50 Letters from Copenhagen, describing EFA's biochemical research there with Hansen, August-September 1904.
- 51 - 113 Correspondence between the father and son, 1906 - 11, 1928, 1931; general subjects, and detailed accounts of their joint research on analysis of plant extracts, etc. There is a letter to EFA from Miss M. Wheldale of Newnham College on this subject.

Many of the letters are extremely long particularly those written from Germany.

- 114 - 126 Miscellaneous notes and correspondence on plant analysis, etc. One folder. Letters from Sir David Prain on plant cuttings, 1911; notes on Vicias.
- 127 Notes on aldehydes, n. d. Probably written by HEA.
- 128 Tests for organic acids, alkaloids, sugars, etc., required for the first MB examination at London University. C Firth, S[t.] Bartholomews] H[ospital] June 1871. 6 ff.
- 129 'On Valency with special reference to methods of writing rational formulae and the existence of so-called molecular as distinct from atomic compounds'. 25 ff.
- 130a Diary of a visit by HEA to the USA with the Mosely Commission, 1903. 22 pp. Typescript.
- 130b 'Autobiography'. 16 ff. Typescript. Part of the article by HEA in 'The Central', vol. 35, June 1938, pp. 3 - 8.

ARMSTRONG, Kenneth. 1909 - 1935 .

- 131 192 ?
Hotel Victoria,
Fort Victoria
South Rhodesia. To his parents, Dr. and Mrs. E F
Armstrong. An account of his visit to
Ladysmith, the National Park, the
Victoria Falls, etc. 6 ff.
- 132 [7 August 1932]
618 Kearney Street,
Portland, Oregon. To H E A. Observations on conifers; his
work on chlorophyll; comments on geological
formations , Grand Canyon, etc. 2 ff.
- 133 [8 November 1932]
John Winthrop House
Cambridge, Mass. To H E A . An account of his work and views
on chlorophyll and a friend's work on the
carotenoids of deep sea crustacea. 2 ff.

ARMSTRONG, Richard. 1827 - 1884.

- 134 - Thirteen letters to his son ' My dear Pip' (H E A) in Leipzig, from
146 Lee, 27 November 1867 to 13 September 1868, on family matters,
comments on public affairs, etc.

ARRHENIUS, Svante August. 1859 - 1927.

- 147 14 May 1911
Gambier, Ohio. Details of his future movements after he
leaves New York; cannot yet say how long
he will stay in London.

ASHLEY, Sir Percy. 1876 - 1945.

- 148 29 May 1941
Cotton Control
Ministry of Supply,
Manchester. To E F A . Brief note. Thanks for letter of
sympathy.
- 149 13 November 1941
The same. To E F A. Discussion of the possible co-option
of a representative of the Institution of Civil
Engineers on the Executive Committee of the
British Standards Institution, etc. Typewritten.

ASTON, Joseph K

- 150 17 October 1873
Bounty Office
Dean's Yard
Westminster. Observations on streams springing from rock
in the valleys near Mont Blanc; and on the
effect of water, possibly impregnated with iron,
on quartz, of which he sends a sample, enquiring
H E A 's opinions on the matter.

BAIRD AND TATLOCK

- 151 2 June 1894
14 Cross Street
Hatton Garden. From A L Gower. States the results of his
firm's enquiries about the manufacture of
absolute alcohol; the trade unable to compete
with the Germans.

BAKER, Julian Levett. 1873 - 1958.

- 152 4 February 1941 To EFA. Praise of the Armstrong
The Laboratory, Stag Memorial Lecture and comments on
Brewery, Pimlico. HEA's influence.

BALFOUR, Arthur James. 1st Earl of Balfour. 1848 - 1930.

- 153 20 December 1895 Dictated. Regrets his inability to
Whittinghame. attend a lecture by Professor Dewar.
- 154 14 July 1908 Dictated. Thanks for a copy of address
4 Carlton Gardens. by HEA; sends one of his own papers.

BARLOW, William. 1845 - 1934.

- 156 25 January 1927 Observations on the characteristics
Elm House, Stanmore. and relationship of the crystals of
tetraphenylmethane and tetraphenylsilicon.

BENNETT, Richard Bedford. 1st Viscount Bennett. 1870 - 1947.

- 158 15 October 1945 To EFA. Typewritten invitation to a
Juniper Hall, complimentary lunch for the retiring
Mickleham, Surrey. President of the Royal Society of Arts.
- 159 14 November 1945 To EFA. Congratulations on his recent
The same. work for the Society of Arts.

BERNSTHEN, Heinrich August. 1855 - 1931.

- 160 10 April 1889 In German. His interest in HEA's research
Mannheim. and his own work on naphthalene; asks for
advice about dichloronaphthalene.

BOLTON, Frank

- 161 27 January 1874 Detailed descriptions of the analyses of
Broad Sanctuary. river water, crystals, etc. to be made by
HEA on visit to the Logrono sulphate of soda
mines; asks for his opinion on the chemical
plant required and potentialities of the
property; details of expenses, etc; fee of
fifty pounds, etc. 2 ff.

- BOWSER, Rev. Sidney W** 1853 - 1928.
- 163 26 May 1871 Thanks for HEA's kindness and attention at
Cromwell house, the chemistry classes at the London Institution.
Hackney.
- BRODIE, Sir Benjamin Collins.** 1817 - 1880.
- 164 26 February 1874 Thanks for copy of 'Introduction to the study of
Brockham Warren, organic chemistry'; which he praises. His dis-
Reigate. approval of the use of methods of 'pictorial
chemistry' when conveying fundamental facts.
- BROWN, Horace Tabberer .** 1848 - 1925.
- 165 2 December 1912 To EFA. Thinks that EFA should be proposed
52, Nevern Square, for election to the Royal Society, and asks him
Kensington. to amend the enclosed paper drawn up in
conjunction with Sir William Pope.
- BRUNNER, Sir John Tomlinson.** 1842 - 1919.
- 166 21 June 1915 Dictated, with amendments by Sir John. Comments
Silverlands, on Ludwig Mond; HEA has too low an opinion of
Chertsey. Lord Haldane; the firm's production of ammonium
nitrate; about to under take purification of TNT on
national scale, etc. 2 ff.
- BRUNTON, Sir Thomas Lauder.** 1844 - 1916.
- 167 6 April 1875 A testimonial in support of HEA's application
Library, for the Jacksonian Professorship.
St. Bartholomew's
Hospital.
- BURR, Edmund C**
- 168 16 October 1865 An account of his rambles through Saxony and
Dresden. Bohemia with a party of other Americans; the
scenery, etc., too civilised for him compared
with the vast prairies at home, etc. 2 ff.
- 169 16 April 1867 Observations on new method for making gas ana-
Leipzig. lyses; Kolbe's new laboratory 'best in the world';
remarks about Stoddard's laziness, etc. 2 ff.
- 170 31 May 1867 His discovery of a method of making chloral
(sketch); life rather dull; a ride on a velocipede, etc.
- 171 7 August 1867 Arrangements for HEA's studies; Kolbe's praise
Universitäts of Frankland; the need to reserve a place in the
Laboratorium. laboratory; purchase of apparatus needed, etc.

CARO, Heinrich. 1834 - 1910.

- 173 8 January 1901
Mannheim. To EFA. In German. Congratulations on achieving PhD and thanks for copy of dissertation. Has not been able to follow its method of argument completely as he has not kept up with new methods.
- 174 2 March 1904
Mannheim. To HEA. Thanks for good wishes on his 70th birthday.

CARPENTER, Charles Claude. 1858 - 1938.

- 175 1 March 1930
The White Lodge,
Sandgate, Kent. To EFA. The history of his election to the Athenaeum; pleased to have received so much distinguished support, with thanks to EFA.
- 176 8 March [1930]
The same. To EFA. Pleasure at his election to the Club; comments on 'Ulysses' which he will lend to EFA. Admiration of George Moore's 'Memoirs'.

CHATFIELD, Alfred Ernie Montacute. 1st Baron Chatfield. 1873 - 1967.

- 177 17 December 1945
House of Lords. To Mrs. EFA. Letter of sympathy on the death of EFA; 'his loss is a national one'.

CHEMICAL SOCIETY, London.

- 178 14 October 1878
Burlington House. Faraday lecture. Dinner for Professor Wurtz. Preliminary list of stewards. Printed.
- 179 1884
Dinner to Dr. Perkin. List of stewards. Printed.
- 180 4 May 1926
55, Granville Park,
Lewisham. Draft. Letter from HEA to the President of the Society, resigning from the Council and the Society.
- 181 22 October 1937
Burlington House. To EFA from the President of the Society, F.G. Donnan. Conveys resolution of the Council expressing profound sorrow at the death of HEA. Typewritten.
- 182 [1941]
Draft. Notes on the centenary of the Society by EFA. 3 ff.

CHEMICAL SOCIETY. London. Dining Club.

- 183 14 November 1872 to
14 January 1875. Notebook. Minutes of proceedings of the Club from its foundation, with lists of persons present at the dinners, mostly held at the Café Royal. Some letters of recommendation of membership are pasted in and there are also a number of loose postcards about attendance at dinners from Frankland and others, January and February, 1897. 48 ff.

- 186 5 August 1915 To H E A [?] from Sir Phipson Beale, Bt.
Drumlamford (1839 -1922) Covering letter for notes on
Barrhill, Ayrshire. the 'B' Club of the Society. 6 ff.
- 187 Dining Clubs. An account of the 'x', 'B' and
Chemical Society Dining, clubs. Typewritten.
Includes two pages of lists of names. 13 ff.
- 188 12 April 1938 From the Librarian of the Chemical Society,
Burlington House. F W Clifford, to E F A. Describes 'B' Club
material in the library and gives information
about names in the 'typed lists' (see above.)
Typewritten.

CITY AND GUILDS OF LONDON INSTITUTE

- 189 13 May 1879 Copy. From George Jarman, to E C Robins.
9 York Place Definition of a technical school; detailed
Huddersfield description of accommodation required for
instruction in dyeing, and observations on the
character of suitable courses in wool and cotton
dyeing. 4 ff.
- 190 17 December 1879 From E C Robins. Arrangements for meeting
8 Marlborough Road H E A to discuss plans for the Cowper Street
St. John's Wood. Schools.
- 191 n. d. Memorandum [by E C Robins?] expressing Mr.
Robin's opinion that the Cowper Street plans
should be reconsidered.
- 192 [December 1879] The last two pages of the report by E C Robins
to the sub-committee on the Cowper Street
Schools. Printed in the C G L I Report to the
Governors for the year ending March 1880,
Appendix III, p. 42. 2 ff.
- 193 Plans of the Schools. 4 ff. Probably the
provisional plans mentioned by Eyre, p. 73.
- 194 - 1879 - 1896 Printed reports etc. issued by the Institute and
203 others, including the anonymous pamphlet
'Is the Central College a failure?' 23 April
1896.
- 204 25 July 1910 From A L Soper, Assistant Secretary. Informs
Gresham College. H E A of his reappointment as Professor of
Chemistry for the next year. Typewritten.
- 205 18 February 1911 From A L Soper. Informs H E A that the
The same. Delegacy of the City and Guilds College does
not intend to renew his appointment. Typewritten.
- 206 18 February 1911 From A L Soper. Expression of his sincere
The same. regret that he has been called upon to send the
above letter.

- 207 19 February 1911 Draft. From HEA to A.L. Soper. 'I need scarcely say that so abrupt a termination a period of service extending over 30 years comes as a severe shock to me'.
- 208 20 February 1911 From Sir John Wolfe Barry. Would like to discuss matters with HEA. 'I am sure everyone will wish to make the change as agreeable to you as possible'.
- 209 21 February 1911 From HEA to Sir John. Arrangements for meeting; asks for a week to think things over. Draft.
- 210 Resolution of meeting of the Executive Committee on 6 March 1911 expressing appreciation of the services of Professors Armstrong and Henrici and their appointment as Emeritus Professors. Typewritten. Signed by the Chairman, Wolfe Barry and the Hon. Sec. Sir John Watney. 2 ff.
- 211 10 March 1911 From Sir John Wolfe Barry. Covering letter for the above resolution, with a further recommendation from the Committee about an honorarium and the reappointment of HEA at half salary until September 1913. Typewritten. 2 ff.
- 212 22 March 1911 From A. L. Soper. Notification of the extension of HEA's services until September 1913 'by which time the present students of the Chemical Department will have finished their diploma courses' at half his present salary. Typewritten.
- 213 7 April 1911 From A. L. Soper. The Council have adopted the resolutions about the honorarium, etc., for HEA proposed by the Executive Committee.
- 217 City and Guilds (Engineering) College. Students who took a course in chemistry. 14 pp. Typewritten. Drawn up by John Walker, Registrar.

CLOWES, Frank. 1838-40c - 1928.

- 219 19 November 1872 His reasons for decision not to apply for the post at Owen's College; finds life at present rather lonely; his researches, etc.

COWPER STREET SCHOOLS:

see CITY AND GUILDS OF LONDON INSTITUTE, above.

CROOKES, Sir William. 1832 - 1919.

- | | | |
|-----|--|--|
| 221 | 14 January 1885
7 Kensington Park
Gardens. | Reasons for diffidence in accepting nomination
as President of the Chemical Society. |
| 222 | 3 June 1887
The same. | Arrangements for staging to be set up by the
Office of Works outside the Chemical Society
[for the Golden Jubilee celebrations] ; details of
address to the Queen, etc. |
| 223 | 19 September 1887
The same. | Arrangements for the A G M of the Chemical
Society; congratulations [on tenth wedding
anniversary ?] |
| 224 | 17 December 1887
The same. | Reasons for disqualifying a paper by Dr.
Bailey in the 'Proceedings '. |
| 225 | 19 December 1887
The same. | Asks H E A to give only the title of Bailey's
paper and omit the few words he had written
about it, etc. |
| 226 | 30 March 1888
The same. | Comments on remarks about him in the 'Times.'
Typewritten. |
| 227 | 3 April 1897
The same. | Congratulations on H E A's election to the
Athenaeum. |
| 228 | 25 June 1897
The same. | Thanks for congratulations on his knighthood. |
| 229 | 15 September 1900
Dixcart Hotel, Sark. | Thanks for papers sent by H E A. |
| 230 | 25 May 1903
7 Kensington Park
Gardens. | Sends notes on his experiments with crystals
of saccharin. Type-written. |
| 231 | 14 March 1905
The same. | Brief note, Cannot attend ballot at the
Chemistry Club. Typewritten. |
| 232 | 9 November 1906
The same. | Enquiry about a research chemist who would
be suitable for post in the Woolwich research
laboratory. Typewritten. |
| 233 | 5 July 1910
The same. | Brief note. Sending ten grammes of yttria, etc.
Typewritten. |
| 234 | 23 November 1910
The same. | Arrangements for a discourse by H E A at the
Royal Institution; gives him advice on lecturing.
Typewritten. |
| 235 | 8 June 1912
The same. | Interest in H E A's work on rare earth elements.
Offer of some scandia. Typewritten. |

- 236 3 November 1913 Brief note. Has been unable to obtain any
The same. information about manganese in ductile
state. Typewritten.
- 237 27 January 1915 Brief note. Thanks for compliments on 'my
The same. diamond and other work'. Typewritten.
- 238 18 June 1915 Brief note. Asks HEA to write notice on
The same. Hugo Müller for the Royal Society. Typewritten.

CROSFIELD, George . 1877 - 1962.

- 238 21 April 1915 To EFA. He has resigned from Brunner, Mond,
on account of the firm's treatment of his
brother; thanks for helpful assistance with the
technical branches of the business. Written
in pencil. 2 ff.

CROWE, Sir Edward Thomas Frederick . 1877 - 1960.

- 240 14 December [1945] To Mrs EFA. Letter of sympathy on the death
of EFA 'his loss is also a national disaster'.

DAY, James John

- 241 23 November [1867 ?] Has plans to visit Leipzig; various commissions
Walnut Tree house, for HEA; comments on the report on the
Leyton. Cumberland and Welsh waters; his experiments
on the 'artificial river' and news of acquaint-
ances, Meldola, Clowes, etc.; Chapman's
paper on the action of bad water on birds;
mishaps with apparatus in the laboratory. 2ff.
- 242 14 December [1867] Description and sketch of gas apparatus; his
The same. method of making calibrations and calculating
results; the Fenian's attempt to blow up
Clerkenwell prison; details of his prospective
trip to Leipzig.
- 243 4 April [1868] His return from Holland; Frankland has
173 Gloucester Road, appointed him as an assistant to work in the
Regent's Park. Westminster laboratory for the River Commis-
sion; a description of the decorations at Drury
Lane where he saw 'Semiramide'; news of
various friends.
- 244 6 May [1868] Describes Kolbe's report on researches at
The same. Leipzig in the JCS; his own investigations
on water samples, etc.

- 245 21 June 1868. Account of experiments on artificial waters;
The same. the laboratory is very busy; his visits to the
opera; long and detailed description of McLeod's
new gas analysis apparatus (sketch); mentions
other new equipment in the laboratory. 2 ff.
- 246 27 March 1869. Comments on Frankland's refusal of the
53 Bedford Square Presidency of the Chemical Society; Wanklyn's
views on triatomic sodium, and other papers, read
at the Chemical Society; has just been appointed
a Fellow; very busy at the laboratory, which
Frankland visits rarely; Frankland's research
on atmosphere with Lockyer.

DEBUS, Heinrich. 1824 - 1916.

- 247 8 April 1875 To the electors of the Jacksonian Professor ship.
Athenaeum Club. Testimonial for H E A.

DE LA RUE, Warren. 1815 - 1889.

- 248 5 April 1875 To the electors of the Jacksonian Professorship.
73 Portland Place. Testimonial for H E A.

DEWAR, Sir James. 1842 - 1923.

- 249 - 65 letters from Dewar to H E A , 14 October 1893 to 17 May 1920,
313 and one from Lady Dewar, 20 May 1924 (313 a). The letters are mostly
confidential, on matters relating to developments in research on
hydrogen, liquid hydrogen, etc; internal politics of the Royal Society
and of the Royal Institution, with unrestrained comments on the principal
officers of each, particularly the successive Presidents of the Royal
Society, Geikie, Crookes, Thomson and Rayleigh; his lawsuit with the
Crookes family; Lady Dewar's health, etc.

DONNAN, Sir Frederick George. 1870 - 1956.

- 314 28 October 1937 To E F A. Will bring the matter of H E A's
23 Woburn Square Frankland lecture before the Council of the
W C 1 Chemical Society, etc. Typewritten.
- 315 9 November 1937 To E F A. Asks for the M S of the lecture, so
The same. that he may read it before its publication is
considered.
- 316 8 May 1944 To E F A. Wishes to return papers relating to
Roseneath, H E A; he had been unable to persuade Sir W.
Hartley, Kent. Pope or Sir G. Morgan to write a memorial
notice of H E A for the Chemical Society.
Typewritten.

See also CHEMICAL SOCIETY OF LONDON.

DUISBERG, Friedrich Carl. 1861 - 1935.

- 317 6 January 1932 In German. Will gladly send copies of his
Leverkusen papers, lectures, etc., and also material
I. G. Werk. relating to the celebrations of his 70th
birthday, etc. Observations on the current
world economic crisis. 2 ff. Typewritten.

EVANS, Sir John. 1828 - 1908.

- 318 22 December 1904 Regrets that HEA was unable to attend a
Nash Mills, meeting [of the Royal Society of Arts ?];
Hemel Hempstead. various matters relating to it.

FARMER, Sir John Bretland. 1865 - 1944.

- 319 1 March 1930 To EFA. Discussion of the problem of
St. Leonard's, the direction of growth of climbing
Weston Rd., Bath. plants.
320 16 July 1941 Thanks for copy of obituary notice of
The same. HEA.

FERGUSON, John

- 321 21 October 1871 Asks if HEA will translate part of
30 St. Vincent Ct., Würtz' Chemical Dictionary.
Glasgow.

FISCHER, Emil. 1852 - 1919.

The following three letters are in German and typewritten.

- 322 3 October 1907 Arrangements for meeting in London,
2 Hessische St., plans for his lecture there, which he will
Berlin. read from a script, etc.
323 5 October 1907 Thanks for the translation of his lecture
The same. by EFA; dwells again on the difficulty of
speaking without a script, etc.; hopes to
have HEA as a guest in November;
unable to dine at the Athenaeum, etc.
324 12 October 1907 To EFA. Thanks for the translation;
The same. observations on his paper on amygdalase;
further comments on difficulty of learning
the lecture by heart, etc.

FOSTER, Sir Michael . 1836 - 1907.

- 326 n. d. Discusses indexing of some papers, etc.
Nine Wells, Index slip enclosed.
Great Shelford,
Cambridge.

FRANKLAND, Sir Edward . 1825 - 1899.

- 328 18 September 1888 Agrees that Japp is the best candidate for
Queen's Hotel, the Aberdeen appointment; has already
Manchester. written strongly to the Principal on the
subject.
- 329 3 April 1890 Gives emphatic support of W.H. Perkin
The Yews, as a candidate for election to the Royal
Reigate, Surrey. Society. [He was elected the following June].
- 330 16 May 1894 Arrangements for a 'Saturday to Monday'
The same. visit.

FRANKLAND, Percy Faraday. 1858 - 1936.

- 331 18 February 1928 Gives reference for information about
Hotel 'Tembani' water supply; regrets that they will be
Paignton. unable to see HEA in Edinburgh.

GASELEE, Sir Stephen . 1882 - 1943.

- 333 19 October 1938 To EFA. Thanks for a letter; letters directly
Foreign Office. received from the USA have only praised the
Prime Minister; would point out to taunters
about refusal to make war that they 'live
some 3,000 miles away from the nearest
bomb'.

GILBERT, Sir Joseph Henry. 1817 - 1901.

- 334 29 January 1887 Answers an enquiry about papers on absorption
Harpenden, of nitrogen; he and Sir John Lawes hope soon
St. Albans. to write on this; importance of work of Frank
Wolff, etc.
- 335 2 May 1890 Arrangements for a display of photographs
The same. about experiments in fixation of nitrogen.
- 336 2 July 1892 Agrees with HEA that it would be interesting
The same. if Bernard Dyer would determine nitrogen in
soils; he is now examining the potash contents;
the soda lime process at Harpenden.

- 337 12 July 1890
The same. Discussion of the relation between the incidence of rainfall and quantity of wheat production, etc. 2 ff.
- 338 28 July 1890
The same. Sends papers on the subject of rainfall; invitation to look at experimental plants.
- 339 2 August 1892
The same. Arrangements of a visit by HEA.
- 340 19 August 1893
The same. Sorry not to have seen HEA; thanks for congratulations on his knighthood.
- 341 17 February 1894
The same. Hopes to send in report of Dyer's paper.
- 342 27 July 1896
The same. Hopes to send altered proofs for some article soon.
- 343 13 February 1897
The same. Enquiry about lantern slides of experimental plants relating to the fixation of nitrogen question for a lecture.

GREGORY, Sir Richard Arman. 1864 - 1952

The following letters are to EFA.

- 348 30 October 1945
The Manor House
Middleton on Sea. Will gladly sign E V Evans' certificate for the Royal Society; short account of recent visit to Paris, representing the British Association.
- 349 5 November 1945
The same. Delighted that EFA has 'been able to put science on the map of UNESCO.' Details of biography of Sir Norman Lockyer. 'Lady Lockyer and Miss L. did not write a word in the book, but I wanted their names to appear as the authors as their personal tribute. I designed the whole scheme ...'

GROVES, Charles Edward. 1841 - 1920.

- 351 17 December 1872
17 Rodney Street
Pentonville. Enquiry about a reference for Graebe and Liebermann's method of preparing quinones, etc.
- 352 25 December 1872
88 Upper Kennington Lane. Detailed description of his method of producing resocin (sketch of apparatus.) Thanks for information about a post as librarian.

HANSEN, Emil Christian. 1842 - 1909.

- 360 30 June 1906. To EFA. Will be pleased to welcome him
Carlsberg Laboratorium on a visit to the laboratory.
Copenhagen.

HARCOURT, Augustus George Vernon. 1834 - 1919.

- 361 1 July 1874 A testimonial for HEA for the Chair at
47 Cadogan Place the Yorkshire College of Science.

HARTLEY, Sir Harold. 1878 - 1972.

The following letters are to EFA, and are typewritten.

- 362 10 February 1942 Thanks for a letter which he has sent to
LMS Railway Company his father.
Euston Station.
- 363 9 February 1943 Would like to have a talk with EFA [about
The same. (Temporary Armstrong lecture ?]
address: Watford.)
- 364 2 March 1943 Suggests a title for the Armstrong lecture.
The same.

HASLETT, Caroline. Dame. d. 1957.

- 365 31 October 1945 To EFA. Regrets her inability to hear his
The Electrical inaugural address. Typewritten.
Association for Women.
- 366 18 December 1945. To Mrs. EFA. Letter of sympathy.
The same. Typewritten.

HAWORTH, Sir Walter Norman. 1883 - 1950.

- 368 25 November 1937 To EFA. ' I am indeed highly pleased that
The University you and Heilbron succeeded in getting five
Edgbaston, Birmingham. chemists into the Royal this year ... ' Typewritten.

HEATH, Sir Henry Frank. 1863 - 1946.

- 369 3 April 1938 To EFA. Thanks for proposal to put his name
Brown Tiles forward as EFA's successor as chairman of the
Guestling, Sussex. Council of the British Standards Institution.
- 370 7 November 1945 To EFA. Ill health prevents his attendance at
2 Morpeth Mansions lecture on the Prince Consort. 'His great
London S W 1. contribution to the encouragement of science and
the arts has never been properly recognised.'
Typewritten.

HENDRICK, Ellwood. 1861 - 1930.

- 372 10 October 1922 Unfavourable report of work of women in the
139 East 40th St., Eastman research laboratory. 'Everything
New York. desirable except that they had butterfingers'.
Comments on review of Loeb's book on
colloids; invitation to the Spring meeting of the
American Chemical Society. 3 ff. Typewritten.
- 373 4 May 1927 His projected visit to South Africa with his
315 Havermeyer widowed sister who needs a change from her
118th St. and fellow workers in the YWCA; appalling
Broadway, possibility of meeting fellow missionaries
New York. on the boat, etc.
- 374 14 January 1928 Congratulations on HEA's Golden Wedding;
139 East 40th St., comments on Bancroft; HEA's remarks on
New York. men of science; his scheme for an Institute
of Osmics.

HOPKINS, Sir Frederick Gowland. 1861 - 1947.

- 376 16 November 1939 To EFA. Thanks for reprint of one of HEA's
71 Grange Road, articles; belated condolences on his death;
Cambridge. 'he was a wonderful man whose influence was
most valuable in science...'.
'

HUTCHINSON, C H

- 381 25 November 1880 Description of an evening party at [Horace]
5 Claremont Terrace Brown's home; his work at the maltings and
[Burton on Trent] the laboratory; chemical work, admiration
of apparatus designed by Brown, thanks for
the introduction to him, etc. 2 ff.
- 382 13 February 1881 Comments on cold weather and skating exploits;
The same. work on examination of phosphates is slow as
there is no muffle furnace; details of costing
of production in small model brewery adjoining
the laboratory; comments on Kieldahl's paper,
(last page missing).
- 383 5 March 1882 Comments on differences in the work in large
24 London Road and small breweries; local tastes in beer which
Braintree. would have the effect on 'anyone suffering from
alkalinity, would in these parts be instantly
converted into a dangerous gasogene'; agri-
cultural depression, etc. 2 ff.

LAPWORTH, Arthur. 1872 - 1941.

394 24 February 1910 Pleasure at his election as FRS and
30 Amherst Road thanks for the support of HEA.
Withington, Manchester.

LARMOR, Sir Joseph. 1857 - 1942.

394a 14 July 1907 Discussion of the problems of mixed
St. John's College solutions.
Cambridge.

LAWES, Sir John Bennet, Bt. 1814 - 1900.

395 - Ten letters to HEA, 7 July 1891 to 4 January 1897, from Rothamsted,
404 St. Albans, mostly on a projected lecture by HEA in the United States;
references to visits from the Director of the US Department of Agri-
culture, his own paper on wheat crops, etc. See Eyre, p. 126.

LE MAISTRE, Charles. d. 1953.

405. n. d. To EFA. Thanks for help as Chairman of
28 Victoria Street, SW1. Finance [British Standards Institution.]
406 9 May 1944 To EFA. Thanks for his support and apprec-
Lea Gate House, Guildford. iation of EFA's work for the BSI.

LEVER, William Hesketh. 1st Viscount Leverhulme. 1851 - 1925.

Correspondence with EFA.

407 18 December 1919 Congratulations on address as Chairman of
Hotel Vancouver the Society of Chemical Industry; ' am in
Vancouver, Canada. hearty accord with your views. '
408 7 January 1920 From EFA. Copy. Thanks for appreciation;
comments on American and German competition
in the soap industry. Typewritten.
409 27 January 1920 Discusses final plan for extensions at Widnes
Cunard Steamship Co. and ' we want the last word in soaperies at
[Off Plymouth.] Warrington' etc. 2 ff.
410 19 July 1924 Is honoured by the award of the Messel medal
Lever House, EC 4. from the Society of Chemical Industry. Typewritten.

LEVER, William Hulme. 2nd Viscount Leverhulme. 1888 - 1949.

411 15 May 1925 To EFA. Congratulations on appointment as
Port Sunlight, Cheshire. Managing Director of BDC. Typewritten.
412 17 December 1945 To Mrs. EFA. Letter of sympathy.
Thornton Manor, Wirral.

LIVEING, George Downing. 1827 - 1924.

- 414 - Four letters, 26 March to 7 April 1875, on HEA's application
417 for the Jacksonian Chair at Cambridge; advice on canvassing,
testimonials, etc.; candidature of Dewar.

LOCKYER, Sir Norman Joseph. 1836 - 1920.

- 418 n. d. [Watermark 1893] Asks for a clear definition of applied sciences
Westgate. referred to in a circular sent by HEA [probably
connected with discussion over the scope of
membership of the Royal Society].

LODGE, Sir Oliver Joseph. 1851 - 1940.

- 419 17 March 1884 Has made up his differences with Ayrton;
National Liberal describes his correspondence with him
Club, about possible job [professorship of physics
Trafalgar Square. at the Central Institution] etc.
- 420 5 May 1884 Has declined the post because of the
20 Waverley Road, condition of annual reappointment.
Liverpool.
- 421 7 May 1884 Outlines his correspondence with Ayrton and
The same. Magnus and states his previous ignorance of
See Eyre, pp. 84 - the conditions of appointment. Considers the
85. terms quite improper ones 'and I might retort
that you are doing your scientific brothers harm
and lowering the dignity of your position by
accepting office under such conditions'. 2 ff.
- 422 15 May 1884 Letter of recommendation for S. G. Rawson
University College, who would like to work with HEA.
Liverpool.
- 423 29 May 1885 Will be delighted to received HEA's criticism
The same. of his EMF paper; discussion of plans for the
British Association meeting.
- 424 6 July 1885 Regrets he will be unable to take part in the
10 Penywern Road, discussion on electrolysis until after publication
South Kensington. of Clark's paper; the difficulties of joint research
in a joint laboratory, 'a very delicate business'.
- 425 19 July 1885 Hopes to be able to do something for HEA 'will
University College, attend most to the thermal notations of electro-
Liverpool. chemic phenomena. It is a repulsive subject in
some aspects, but it wants working through...'

- 426 23 July 1885
The same. Letter from J.W. Clark to HEA, enclosed in (425) above. Regrets he will not be able to contribute to discussion at the Aberdeen meeting.
- 427 2 September 1885
26 Waverley Road
Liverpool. Hopes to be able to publish some preliminary notes on his work which he will send to HEA; comments on electrolytic processes. 2 ff.
- 428 30 December 1885
University College
Liverpool. Wishes to know how much heat comes from the combination of various metals; plans for a holiday, various visitors, etc.
- 429 2 November 1886
Liverpool. Enquires why HEA has not written since his visit to Berlin.
- 430 18 April 1887
University College
Liverpool. HEA's laziness in not attending the BA meeting at Cambridge; plans for further meetings.
- 431 11 May 1881
The same. Short note. Agreement with HEA's protest re Arrhenius.
- 432 29 May 1890
2 Grove Park, Liverpool. Brief note about the candidature of J. V Jones for fellowship of the Royal Society.
- 433 4 July 1902
Mariemont, Liverpool. Thanks for congratulations [on knighthood.]
- 434 20 October 1912
The same. Thanks for a friendly speech by HEA; comments on his point that a stimulus was necessary for change in organic compounds.
- 435 13 September 1913
The same. Brief note; will not be visited by Bragg the following day.
- 435a 23 December 1935
Normanton House,
Lake, Salisbury. Brief note. ' I hear of you sometimes and marvel at your energies. ' Typewritten.

LONDON. The London Institution.

- 436 21 December 1870
London Institution,
Finsbury Circus. From Thomas Piper, Hon. Secretary. The Board of Management of the Institution have appointed HEA as Professor of Chemistry.
- 436a Printed notice for lecture by HEA on ' On the artificial formation of alcohols from their elements', 23 May 1872.

- 437 2 June 1973 Description of a sketch for a chemical laboratory to be erected at the London Institution. Signed by Arthur Charles [Booth ?] Architect.
- 438 6 January 1882 From D. A. Louis. Reports on work in the laboratory; analysis of salt, etc.
77 Shirley Gardens
Maida Vale.
- 439 14 January 1882 From T. Norris. Statement about the analyses in hand and stock of turpentine.
London Institution.
- 440 n. d. From D.A. Louis. Has been interviewed by Dr. [J. H.] Gilbert for possible job; his dislike of routine work, etc.
The same.
- 441 9 August 1883 From the Assistant Hon. Sec. Julian Hill. States the terms of HEA's employment.
The same.
- 442 /1 An historical account of the London Institution, 1835. 68 p.
- 442/2·8 Journal of the London Institution, 1871 - 1880. Incomplete.

LONDON. The Leathersellers' Company.

- 444- Four letters, and other papers, January - February 1907, from the
449 Clerk to the Company, W. Arnold Hepburn, on HEA's election as
Honorary Freeman of the Company.

LUBBOCK, John. 1st Baron Avebury. 1834 - 1913.

- 451 - Three brief notes: invitation to breakfast, etc. October 1900 to
453 June 1901.

McGOWAN, Harry Duncan. 1st Baron McGowan. 1874 - 1961.

- 457a 11 July 1928 To EFA. Asks EFA to come and see
Nobel House, him the next day. Note by EFA ' to go at
London, SW 1. once .£20,000 in lump sum. '

McLEOD, Herbert. 1841 - 1923.

- 458 10 July 1873 To W. Longman. Praise of HEA and on
Cooper's Hill Staines. proofs of [Introduction to the study of
Inorganic chemistry.]

See also WATSON, David. 580.

MACMILLAN AND COMPANY

459 30 April 1885 Confirmation of the proposal for HEA to write a laboratory textbook of inorganic chemistry. 'We were fully aware that your views on the subject differed considerably from those hitherto prevalent, but we were given to understand that they were very likely in the course of time to be accepted by the most intelligent teachers'.

MILLS, Edmund James. 1840 - 1921.

467 8 November 1872 Invitation to 28 Park Crescent to 'put you up to a dodge of calibration which increased accuracy and saves time'.
12 Pemberton
Terrace,
St. James' Park.

468 16 November 1872 Comments on Griess' "acid". Hopes that others will do research in 'my three forms of nitrobenzoic acid'; his dynamical interpretation of isomerism.
The same.

MINISTRY OF HOME SECURITY

469 13 April 1942 From L. Eardley Wilmot to the Chief Constable, Eastbourne. Note of introduction for EFA as Senior Gas Adviser. Typewritten.

MOND, Sir Alfred Moritz. 1st Baron Melchett. 1868 - 1930..

471 15 January 1914 Draft of letter to Sir Alfred from HEA. Discussion of the terms of payment for the biography of Ludwig Mond which was projected and description of work involved.
55, Granville Park,
Lewisham.

MORTON, Sir James. 1867 - 1945. .

473 16 June 1927 To EFA. He has checked the letter of agreement which may be sent to Durand's; suggests that statements made by EFA to Sir Harry [McGowan?] 'were not a little ungenerous towards me'; he has only had the goodwill of the industry at heart in his wish to regain freedom from 'incubus... of that unfortunate agreement between BDC and Durand's'.
Tuethur,
Carlisle.

PEDLER, Sir Alexander. 1849 - 1918.

479 30 May 1873 Account of life in India ' there has been no
 9 Middleton Row provision whatever in the shape of laboratory
 Calcutta. made for me yet'; the rains; his voyage out, etc.

PERKIN, Sir William Henry. 1838 - 1907.

481 12 July 1873 Comments on the preparation of
 Seymour Villa, salicylic aldehyde.
 Sudbury.

482 11 March 1887 Suggests further specimens ' coal tar
 The Chestnuts, Sudbury. products ' etc. for a lecture .

PERKIN, William Henry. 1860 - 1929.

483 2 December 1899 Account of the work of his brother Arthur ' it is
 Fairview, Wilbraham Road kind of you to interest yourself so much in my
 Fallowfield, Manchester. brother's candidature for the Royal Society. ' 2 ff.

484 10 December 1899 Is sending copies of his brother's papers; an
 The same. idea for his BA address at the Bradford meeting.

485 7 May 1925 To EFA. Congratulations on his appointment
 5 Charlbury Road at BDC.
 Oxford.

PERRY, John. 1850 - 1920.

486 27 November 1899. Admiration of a letter from HEA.
 Royal College of Science.

QUINCKE, Georg Herman. 1834 - 1924.

495 17 October 1895 In German. Asks HEA to forward the enclosed
 Heidelberg. Italian postcard to EFA who would like to have
 the stamp for his collection; hopes EFA will
 visit him in Heidelberg.

RAMSAY, Sir William. 1852 - 1916.

496 n. d. Expresses his disagreement with a theory of
 University College, London. [P. S. U. ?] Pickering but does not wish to
 embark on a useless controversy.

ROBINS, Edward Cookworthy. See CITY AND GUILDS OF LONDON
INSTITUTE, 189 - 193, above.

ROSCOE, Sir Henry Enfield. 1833 - 1915.

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| 498 | 23 January 1871
Owens College
Manchester. | Has mentioned HEA's name as a possible
candidate for the chair at the India
Engineering College. |
| 499 | 23 October 1872
The same. | Further details of a vacancy in his own
department; invitation to stay in Manchester. |
| 500 | 27 October 1872
Victoria Park. | Asks for an acknowledgement of (499)
above, which he fears has gone astray . |
| 501 | 29 October 1872
The same. | Brief note. Regrets that HEA does not wish
to apply for the post. |
| 502 | 23 March 1875.
The same. | Suggests that HEA should apply for the
Jacksonian professorship and that he
should write to Liveing. |
| 503 | 29 March [1875]
Manchester. | Brief note. Suggests that HEA calls on Dr.
Campion of Queen's when at Cambridge. |
| 504 | 8 April [1875]
The same. | Suggests that HEA withdraws his application
at Cambridge as Dewar has been nominated.
"Without the support of the Committee you
stand no chance whatever. ' |

ROYAL SOCIETY

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| 506 | 3 November 1911
Burlington House. | Letter from J. Larmor, Secretary stating that
HEA has been awarded the Davy Medal.
Typewritten. |
| 507 | 23 November 1911
The same. | Letter from Sir Archibald Geikie, President.
Asks HEA as Davy Medallist to reply to the
toast at the Society's anniversary dinner. |
| 508 | 10 June 1926
The same. | Letter from Lord Rutherford, President.
Congratulations on the 50th anniversary of
HEA's election as Fellow of the Society.
Typewritten. |

TILDEN, Sir William Augustus. 1842 - 1926.

- 551 27 January 1874
Glenfart Cottage,
Clifton Park Road, Clifton. Suggestions for the improvement of Miller's textbook; importance of nomenclature, etc ; need for a book on chemical philosophy; his own experience teaching boys has revealed the shortcomings of textbooks. 2 ff.
- 552 9 October 1879
Clifton College. Asks if HEA will give him a testimonial and mentions other referees he has in mind.
- 553 8 July 1880
The same. Intends to send a note to the 'Berichte' on rosin spirit; objects to the proprietary attitude of Germans to fields of research and in this case ' I think we may fairly shut up M. Kolbe. '
- 554 19 September 1880
36 Frederick Road
Edgbaston, Birmingham. Thanks for copy of Miller; need of an international conference on chemical nomenclature; progress on rosin spirit research . 2 ff.
- 555 28 November 1880
The same. Regret at the death of HEA's sister; hopes to visit him in London; his research and the differences in the spirit they each use; mere college business prevents his return to research on the terpenes. 2 ff.
- 556 7 March 1881
Sir Josiah Mason's Science
College, Birmingham. Now has an assistant and hopes to get on with something; asks if HEA can let him have some Russian turpentine, etc; asks if he is free for a walking holiday at Easter.
- 557 21 April 1881
The same. His illness; some missing luggage of HEA's; 'dreadfully bothered ' with candidates for the post at Nottingham, all asking for testimonials .
- 558 14 May 1881
36 Frederick Road,
Edgbaston. Griess had told him of the latest addition to HEA's family; Brown and the Nottingham chair; progress in his research, etc.
- 559 27 July 1881
Folkestone. W. J. Nicol has been appointed as his assistant; hopes for an increased number of students in the coming term; foundation of the Central Institution; comments on construction of fume closets in the new building, etc; his future plans, etc. 2 ff.
- 560 23 October 1881
36 Frederick Road,
Edgbaston. Has been busy drawing up plans for an academic board. Suggests that Ramsay should be put up for election to the Royal Society; his research into isoprene. 2 ff.

- 561 25 December 1881
The same. His wife's ill health has prevented them from visiting Armstrong; envy of their stay on the Riviera; hopes to carry on work on terpenes; some results with the india rubber hydrocarbon, etc. 2 ff.
- 562 24 March 1884
The same. Has been invited to stand for the Central Institution chair; believes that HEA is the man for the job.
- 563 27 July 1885
Buxton. Very surprised at the appointment made for the Physics chair at Leeds; will not be able to contribute very much to the discussion at Aberdeen [BA meeting ?]
- 564 1 April 1889
77 Harborne Road
Birmingham. Will be glad to act as a steward at the Mendeleef dinner; comments on various candidates for the Royal Society, Mond, Brown, etc.
- 565 13 March 1892
The same. Discussion of Dufton's thesis; thinks he should be allowed to add an introduction to amend it.
- 566 16 March 1892
The same. Disagrees with HEA's opinion of Dufton's work and further discussion of the character of his work. Second page missing.
- 567 19 February 1893
The same. Agreement with HEA's wording for a statement about the use of the letters ' FCS', with some modifications.
- 569 4 June 1893
Birmingham. Sympathy with HEA's views [on Royal Society matters]Howorth's claims not strong; suggests HEA puts forward one or two young chemists and suggests Wynne and Kipping, and others. 2 ff.
- 570 6 March 1896
Royal College of Science. Surprise at reading HEA's remarks on inversion etc . in the Proc. Chem. Soc. , which he had previously told HEA he was working on; thinks that HEA might have deferred his speculations.

TIZARD, Sir Henry. 1885 - 1959.

- 571 22 February 1937
Imperial College. Dismay at learning of the action of the Society of Chemical Industry. ' I shall try and get you on in another and more permanent way as soon as possible. ' Typewritten.

TODD, Alexander Robertus. Baron Todd. 1907 -

- 572 25 August 1938 To EFA. Thanks for congratulations on
Lister Institute of appointment: regret at death of
Preventive Medicine. ' Kenneth' [Armstrong.]

WARINGTON, R

- 574 3 May 1888 Note on proposed title for a paper to be
Chemical Society read at the June meeting.
Burlington House.
- 575 9 November 1888 Suggests names of suitable Fellows for
Harpenden. Presidency of the Society, such as Odling.
Would be willing to show relevant papers of
his father's on the foundation of the
Society, at the Jubilee celebrations.
- 576 8 April 1889 Gives a list of some of his papers; ' I cannot
The same. work either with or under Dr. Gilbert after
his conduct towards me'; asks the Managing
Committee for leave to continue working in the
laboratory under the present terms.
- 577 16 June 1890 Suggestions for the celebration of the Jubilee
The same. of the Chemical Society; sketch for a history.
- 578 19 December 1891 Discussion of possible portraits for the
The same. Jubilee album, etc.

WARREN, Sir Thomas Herbert. 1853 - 1930.

- 579 26 May 1925 To EFA. Pleasure at meeting; ' you have the
Magdalen College independence of mind of your father'. Comment
Oxford. on the intellectual and moral balance of the
English speaking races. Typewritten.

WATSON, David. 1846 - 1899.

- 580 29 March 1871 Pleasure at the appointment of McLeod;
The College, Chester. discussion of his research on the determination
of oxygen and hydrogen. 2 ff.

WEST, Arthur G B

- 581 22 October 1926 Covering letter for a copy of a lecture
St. Dunstan in the East delivered at St. Dunstan's College, Catford,
Great Tower Street, EC3 on the history of education. 20 p.

WILLIAMSON, Alexander William . 1824 - 1904.

584 8 November 1872 Sends details of an appointment which he
University College, has received from Roscoe which may
London. interest HEA.

WILSON, Arnold T

585, 16 January 1930 Covering letter, for a letter from his
586 Britannic House , father, J.M. Wilson, commenting on a
E. C. 2 . paper by HEA ' I hail him as one of the
 prophets of the new age'.

WRIGHT, Charles Romley Alder .

588 18 November 1870 Asks if HEA would like to join him in
Rector's Cottage, researches on codeia, as he proposed
Washington, to continue the investigations he had
Co. Durham. begun with Dr. Mathiessen; account
 of his future line of research.

WYNNE, William Palmer. 1861 - 1950.

590 12 June 1904 Hopes HEA will reconsider his decision
Chemical Society. and allow the Society to publish his
 Frankland lecture, and not prevent the
 Society 'from doing that exceptional
 honour to Frankland's memory which
 the Memorial lecture was intended to
 express'.

591 31 July 1904 Thanks for congratulations on Sheffield
9 Selwood Place, appointment; remarks on the keen interest
S. W. of the Council there on the promotion of
 education, etc. 2 ff.

592 9 May 1925 To EFA. Best wishes for his appointment
17 Taptonville Road, with BDC.
Sheffield.

593 31 May 1936 Thanks for Golden Jubilee telegram
2 Belvoir Terrace, celebrating beginning of his research
Cambridge. with HEA; detailed account of his
 naphthalene research; difficulties with
 chlorination, with comment on this by
 HEA at the end of the letter.

594 25 August 1940 To EFA. Returns a letter about the work
1 Cranmer Road, of HEA at St. Bartholomew's Hospital.
Cambridge.

D PRINTED MATERIAL

Professor Armstrong and his son both wrote many scientific and non-scientific papers. In particular, Professor Armstrong wrote many papers of a general character and interest in the years of his retirement. The material presented by Miss Armstrong included the following printed books and papers:

Henry Edward Armstrong

- 1 Introduction to the study of organic chemistry, London, Longmans, 1874. Autographed.
- 2 The teaching of scientific method and other papers on education. 2nd ed. London, Macmillan, 1925. Author's copy. Two postcards from Sir Philip Magnus, letters from the publisher, etc., are pasted in.
- 3 Essays on the art and principles of chemistry, London, Benn, 1927. Letters from Sir Joseph Larmor, Professor H. B. Baker, the publishers, etc., are pasted in.
- 4 - 8 Five bound volumes of scientific and non-scientific papers including one of 'Memorial Lectures'.
- 6 Royal Society papers; unbound.
- 7 Other papers, unbound.

Edward Frankland Armstrong

- 1 - 3 Three bound volumes of papers, including one on 'Enzyme action'.
- 4 Royal Society and other papers. One packet.

See 'Obituary Notices of Fellows of the Royal Society' vol. 5, no. 16, for a bibliography.

E FAMILY NOTEBOOKS

Professor Armstrong arranged a series of scientific experiments with three of his children to demonstrate the heuristic method of investigation and teaching, 1898. The children kept notebooks of their work, illustrated with diagrams and photographs.

1, 2 Harold Armstrong. Two notebooks. 194, 198 pp.

3 James Armstrong. Notebook. 197p.

4, 5 Nora Armstrong. Two notebooks, 197, 191 pp.

See W.H. Brock ; Prologue to heurism in 'The changing curriculum',
History of Education Society, Methuen, 1971.

