

CSAC 30/7/75

THE ROYAL SOCIETY THE ROYAL COMMISSION ON HISTORICAL MANUSCRIPTS

Joint Committee on Scientific and Technological Records

CONTEMPORARY SCIENTIFIC ARCHIVES CENTRE

Papers of

Sir Patrick Linstead CBE FRS

(1902 - 1966)

Listed by: Jeannine Alton
Harriot Weiskittel

Deposited in The Archives of the Imperial College of Science and Technology,
London 1975

Description of the collection

The collection consists of Sir Patrick Linstead's personal papers, received from Lady Linstead who retains some private and domestic material.

Administrative papers relating to Sir Patrick's service as Rector of the Imperial College are in the College Archives; papers relating to his service as Foreign Secretary of The Royal Society are in the records of the Society.

There is a note on p.20 about official documents returned to the Public Record Office.

Titles and descriptions in inverted commas are those which appear on the manuscripts.

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Summary of the career of Sir Patrick Linstead

(A full account of Sir Patrick's career and honours is given in the Memoir prepared by D.H.R. Barton, H.N. Rydon and J.A. Elvidge, Biographical Memoirs of Fellows of the Royal Society, 14, 1968, which appears in Item A.1.)

1902	b. London
1903 - 1919	educ. City of London School
1920 - 1923	Imperial College (1st cl. Hons. Chemistry)
1926	Ph.D., Imperial College
1929 - 1938	Demonstrator and Lecturer in Organic Chemistry, Imperial College
1930	married Aileen Rowland (née Abbott), (died 1938)
	D.Sc. London
1938	Firth Professor of Chemistry, Sheffield University
1939 - 1945	Professor of Organic Chemistry, Harvard University (Hon.M.A. 1942)
1940	Fellow of The Royal Society
1942	married Marjorie Walters
	Deputy Director of Scientific Research, Ministry of Supply
1945 - 1949	Director, Chemical Research Laboratory, Department of Scientific and Industrial Research
1946	C.B.E.
1949 - 1955	Professor of Organic Chemistry, Imperial College
1955 - 1956	Rector of Imperial College
1959	Knighthood
1960 - 1965	Vice-President and Foreign Secretary, Royal Society.

A. Biographical and Personal. Items A.1 - A.60

- A.1 Memoir by D.H.R. Barton, H.N. Rydon and J.A. Elvidge, Biographical Memoirs of Fellows of the Royal Society, Vol.14 1968
pp.309-348.
- A.2 Misc. printed material and press-cuttings on Imperial College, 1966
RPL's career and appointments, obituary notices.
- A.3 Misc. personal souvenirs, press-cuttings, invitations, etc.
- A.4 Misc. press-cuttings. 1945-47
- A.5 Misc. personal travel documents.
- A.6-A.17 Desk diaries. 1955-66
- A.18 Travel diary to Victoria Falls.
- A.19 Non-scientific writings (2 notebooks).
- A.20 Imperial College Musical and Dramatic Society misc. programmes 1923-25
of activities (most with signatures of participants).
- A.21 'Portion of Zeppelin C21 destroyed by Flt.-Lt. Robinson, 3 Sept. 1916, given by the finder (the late) E.W. Bishop to R.P. Linstead 10 Sept. 1916.' 1916
- A.22 Misc. material re RPL's service during the General Strike: corres., 1926
letters of thanks, press-cuttings, booklet of instructions for railway
signalmen.
- A.23 Monastral Fast Blue BS. Printed matter, newspaper cartoons etc. 1935-36
announcing I.C.I.'s launching of new colour (after molecular
analysis by RPL).
- A.24 Misc. applications for posts. Heath Harrison Chair of Organic 1936
Chemistry, Univ. Liverpool.
Sir Jesse Boot Chair of Chemistry, Univ. Coll. Nottingham, with
testimonial from James C. Philip FRS.
Firth Chair of Chemistry, Univ. Sheffield. 1938
- A.25 Harvard College: letter of appointment as Professor of Chemistry 1939-45
1939, letters of appreciation on resignation. 1945
- A.26 Misc. wartime souvenirs. 1945-46
- A.27 Combined Intelligence Objectives Sub-Committee: letter of 1945
thanks for RPL's service (as British Deputy Chairman) from General
T.J. Betts, Director of Intelligence, U.S. Group.
- A.28 Corres. etc. re RPL's appointment as Director, Chemical Research 1945-47
Laboratory: application, conditions of appointment, etc.

- A.29 Award of CBE and letters of congratulation (not indexed). 1946
- A.30 G.H.J. Adlam Memorial Appeal: corres., copy of appeal published in School Science Review. 1950-52
- A.31 Imperial College: letters exchanged on RPL's appointment as Rector; letters re FSSU, Rector's Lodgings, etc. (incl. early FSSU agreements: Imperial Coll. 1927, Univ. Sheffield, 1938). 1954-61
- A.32 Corres. and documents re purchase of 24 Pembroke Sq. as Rector's Lodgings. 1959
- A.33-A.47 Letters and telegrams of congratulation on his Knighthood (not indexed) some with RPL's reply: 15 envelopes: 1959
- A.33 Universities in UK.
- A.34 Government Departments, Committees and individuals.
- A.35 Professional Associations, Institutions, Research Inst., etc.
- A.36 Schools and Colleges.
- A.37 Industry.
- A.38 Imperial College: Governing Body and Delegacy.
- A.39 Imperial College: former Governors, staff, alumni.
- A.40 Imperial College: present members of staff and student body.
- A.41 Churches.
- A.42 Banks.
- A.43 Press and Publishers.
- A.44 Mayors and Officials in Local Government.
- A.45 Architects and Consultants.
- A.46 Colleagues and friends abroad.
- A.47 Personal friends and relations.
- A.48 Letters of congratulation on RPL's election as Foreign Secretary and as Vice-President of the Royal Society (not indexed). 1960
- A.49 Letters of thanks for Rector's m/s letters of congratulation (not indexed). 1957, 1960, 1961

A.50	Misc. corres. on appointments, honours and awards:	1929-64
	Harrison Memorial Prize.	1929
	Meldola Medal.	1931
	Chair of organic chemistry, Imperial College.	1949
	Catalysts' Club.	1949
	Munition Chemistry Advisory Board, Advisory Council on Scientific Research and Technical Development.	1949
	Birkbeck Coll. Univ. of London (Mastership - declined).	1951
	Consultant, Division of Atomic Energy on Scientific Research and Technical Development.	1949-53
	Trustees of the London Parochial Charities (re Chelsea Polytechnic).	1954
	Conferral of Knighthood.	1959
	City and Guilds of London Institute.	1959
	Editorial Advisory Board, Commonwealth Library.	1960
	The General Committee, The Athenaeum.	1963
	Hon. Membership, The Geographical Club.	1963
	Fellow, Royal Society of Arts.	1964
	Vice-President, NPL Sports Club.	

Letters of appointment and corres. re:

A.51	Royal Albert Hall Council.	1955
	Crowther Committee.	1956-61
	Leverhulme Trust Fund, Advisory Committee.	1956-63
A.52	Commonwealth Fund.	1956-62
	Science Museum, Advisory Council.	1962-66
A.53	British Council: Science Advisory Committee, Executive Committee.	1959-63
	National Gallery.	1962
A.54	Advisory Council on Scientific Policy.	1963-64
	National Gallery Honorary Scientific Advisory Committee.	1965-66
	Royal Society Building Committee.	1964
	BBC Science Consultative Group.	1964

Corres. re Membership of:

A.55	Society of Chemical Industry and Chemical Society.	1965-66
	Harvard Club of London.	1965
	Honorary Membership, South African Institute of Mining and Metallurgy.	1963-64
	Robbins Committee letter of appreciation.	1964

Corres. re proposed activities:

A.56	Ministry of Defence: Enquiry into Service education. Royal Commission on Medical Education.	
A.57	Centennial Lecture, Toronto. Science Policy Consultant, Kenya. Trust for Wolfson College.	

A.58 Certificates of Honours and Awards:

Cuthbertson Memorial Open Scholarship, City of London School	1916
Diploma, Imperial College.	1924
University of London, First Class Honours in Chemistry.	1923
Royal College of Science, Associate.	1923
Scoutmaster, St. Paul Winchmore Hill Troop.	1924
University of London, D.Phil. in the Faculty of Chemistry.	1926
Harrison Memorial Prize of the Chemical Society.	1929
University of London, D.Sc.	1930
Meldola Medal, Institute of Chemistry.	1931
Certificate of election to Royal Society.	1940
Membership in Alpha Chi Sigma Fraternity.	1940
Harvard University, MA (Honorary).	1942
Royal Institute of Chemistry, Fellowship.	1946
CBE (letter signed by Queen Mary).	1946
Certificate of election to the Athenaeum.	1949
Mt. Zion certificate.	1953
Freedom of the Mystery of Goldsmiths of the City of London.	1955
KBE.	1958
City and Guilds of London Institute, Fellowship.	1959
Institute of Mining, Honorary Member.	1960
Royal Society of Arts, Fellowship.	1964
Exeter University, Hon. D.Sc.	1965

A.59 Photographs of RPL and colleagues.

A.60 RPL's signatures.

B. Notebooks and Working Papers. Items B.1 - B.81

B.1-B.13 Student notebooks, Imperial College, 1920-23

B.1	Grey notebook; notes on geometry; at rear, notes on engineering.	n.d.
B.2	Black notebook, 'R.P. Linstead 1st yr. chem. Some branches of Heat'; at rear, 'Theoretical Light'.	n.d.
B.3	Red notebook, 'R.P. Linstead City and Guilds College Finsbury. Practical Chemistry First Year'; pages numbered and indexed. Both ends of book used.	n.d.
B.4	Blue notebook, 'R.P. Linstead. City and Guilds College Finsbury. Practical Physics'; with marked class exercises and experiments.	n.d.
B.5	Notebook labelled and dated 'Botany Lectures'.	1921
B.6	Notebook labelled and dated 'Practical Botany'.	1921
B.7	Notebook labelled and dated 'Physical Chemistry'; at rear, 'Chemical Philosophy'.	1921
B.8	Notebook labelled and dated 'Practical Chemistry', with marked class exercises and experiments.	1921-22
B.9	Notebook labelled and dated 'Physics Lectures', with RPL's index of titles and lectures.	1921
B.10	Notebook labelled and dated 'Practical Physics', with marked class exercises and experiments.	1921
B.11	Notebook, 'Chemical Physics'.	1922
B.12	Notebook labelled and dated 'Practical Botany' (drawings and diagrams).	1922
B.13	Notebook labelled and dated 'Inorganic Chemistry'.	1922
B.14	Notebook, 'Jaborandi Alkaloids' (few pages used).	1928-29
B.15	Notebook, 'Reports to Dyestuffs Group Research Committee'.	Oct.1935
B.16	'Lectures in Elementary General Theoretical Chemistry', Sheffield.	1938

B.17-B.29 Work at Harvard, 1939-42

- B.17, B.18 2 notebooks labelled on spine 'Linstead Private Assistant Work I and II'. Expt. notes by RPL and others. 1940-42
- B.19 Notebook begun at Sheffield, continued (at rear) at Harvard. 1939
1942
- B.20 Black loose-leaf notebook (with some loose pages inserted); notes on various projects, including RDX. 1942
- B.21 Notebook of expts. at Harvard, with index (not in RPL's hand). 1940-41
- B.22 Notebook, 'Harvard experimental'; notes of expts. on catalytic hydrogenation, some dated. (c. 1939-42)
- B.23-B.26 4 large loose-leaf notebooks dealing mainly with work on unsaturated lactones. Notes on books and articles read, expts., diagrams, calculations, some dated. 1940-42
- B.27 Loose notes probably taken from loose-leaf notebook on 'Cardiac Glycanides', mainly books and articles read. c. 1942
- B.28 Loose notes (as B.27), 'Metathetic changes in Steroid Group. Stereochemical Aspects'. c. 1942
- B.29 Misc. reports by RPL and others; work on enzymes etc. 1941-42
- B.30 Misc. notes and drafts, perhaps for lecture, 'The Renaissance of Chemotherapy' (on Penicillin). n.d.
- B.31 Misc. notes on scientific organisation and research in post-war Britain, with related printed material. 1944-45
- B.32 Loose-leaf notebook, 'Abstracts and Translations'. n.d.
- B.32a Loose-leaf notebook, misc. notes, mainly on amino-acids. n.d.
- B.33 Loose-leaf notebook, first page reads 'Field for Research. Own Laboratory' (mainly plans for research, probably for Chemical Research Laboratory, where RPL was Director 1945-49, one project dated 1946).

B.34-B.80 Notes and Working PapersB.34-B.45 work at Imperial College, 1932-38, on phthalocyanines

- B.34 'Phthalimide metallic compounds' (G.T. Byrne?); 'Phthalocyanines experimental Work'; misc. expt. notes, corres. c. 1930-32

- B.35 'Iso Indoles Phthalozines etc.'; includes: ms draft of 'The Chemistry of the iso Indoles and related compounds' (not in RPL's hand); typescript of 'Phthalocyanine Formula' by PGC, 1932; notes by RPL on the literature; corres., Sir Christopher Ingold, 1937. 1932-37
- B.36 'Lithium Pc. Free from organic reagents Metallic phthalocyanines Reduction'; includes: corres. 1933-36, J.M. Robertson (one letter addressed to J. Thorpe), E.H. Rodd, W.A. Silvester; ms progress report by E.G. Noble on 'Preparation of pyridinoporphyrazine and intermediates', April 1935; ms progress report by RPL and typescript of 'introduction', March 1935; typescript of 'New methods for the preparation of metallic phthalocyanines' dated 9/12/35, RPL; experimental results, notes and data (in various hands), photograph of crystal. 1933-36
- B.37 1. 'The preparation of substances related to phthalocyanines', April 1936; typescript report of work in progress.
2. 'Report on further attempts to prepare porphyrazines (tetrazaporphins) from derivatives of maleic acid', typescript.
3. ICI Dyestuffs Group Research Committee report on phthalocyanines. 1934-36
- B.38 'P.A. Barrett Reports':
1. Ms reports on research programme.
2. Typescript of 'Preliminary Report on the preparation and reactions of lithium phthalocyanine' by RPL and PAB, 5-2-36.
3. Typescript of reports by D.A. Frye, 1937. 1934-37
- B.39 1. Preparation of cyclic dienes.
2. Diels-Alder Reaction.
3. Cyanohydrins of Ketonic esters'; notes on the literature. 1935
- B.40 Mostly bibliographical notes, 'Cyanohydrins of ketoesters'. c. 1935
- B.41 'Simple phthalocyanines Literature'; notes (in various hands) on the literature. n.d.
- B.42 'M.P.' Absorption Spectra to 1938'; charts and graphs of curves; ms draft in unidentified hand with annotations by RPL; experimental readings. ? - 1938
- B.43 'Absorption Spectra 1938-39'; notes, experimental readings, curves; includes note from E.A. Braude dated 1951 on comparison of results of experiments 1938-40 and 1951. 1938-39, 1951
- A.44 'Benz-aza-porphins and Benz Porphins Literature'; corres., notes on the literature, offprints (esp. on Helberger's work). 1938-39

- B.45 'Phthalocyanines Light Absorption Reprints RPL'; reprints of articles by RPL and others; ms draft of 'Part VI'. 1936-50
- B.46-B.52 Work at Harvard, 1939-42, on catalytic hydrogenation by RPL and research team.
- B.46 Misc. notes, diagrams, experiments, notes on the literature, corres. with C.S. Marvel, F.H. Slinger, misc. related drafts and offprints, notes for colloquia by RPL.
- B.47 'Naphthalene Models of the Cardiac Aglycones' by William G. Dauben; typescript of 'experimental section' of report and covering letter. n.d.
- B.48 'Oxidation of crotonic acid and ester. R.C. Jones, July 1941'; 4 pp typescript, 21 pp carbon; 'Research Report February to August 1940, William S. Johnson'; corres.: Homer Adkins, unidentified 1st page. 1940-41
- B.49 R.C. Jones: research reports on Digifoline Ciba, and Oxidation of crotonic acid; corres. 1940-41
- B.50 'L. Holmes'; ms draft of unidentified paper. n.d.
- B.51 Misc. students' research reports and accounts of laboratory work (some annotated by RPL) from Dale P.J. Goldsmith, Selby B. Davis, Elizabeth J. Cook, Leonard Spector, etc. 1940-41
- B.52 'Current papers 1941'; typescripts of: 1941-42
 1. 'Research report 1941-42. Harold Baer.'
 2. 'Research report November 1940 to May 1941. Dexter B. Pattison.'
 3. Draft (ms), typescript (uncorrected carbon) of 'Model Compounds related to the Heart Poisons, I. The Synthesis of Aldehyde Acids by the Rosenmund Reaction+'.
 4. Typescript of review by RPL of 'Organic Synthesis'.
 5. Letter to Prof. Arthur B. Lamb submitting papers on Stereochemistry of Catalytic Hydrogenation I-VII, 1942, for J. Amer. Chem. Soc.
- B.53 'Muconic lactones'; notes on the literature; typescript of paper, list of references, ms notes by B.A. O(rkin?); notes on work performed by other members of team. 1949
- B.53a Misc. notes on Synthetics: includes: ms memo. 'Synthetic rubber. Summer 1942', 6 pp.; 'German Synthetic Fatty Acids and Fat'; 'Synthetic Indigo'; 'Synthetic rubber'; 'U.K. Statistics' (of natural resources and chemicals production); notes on early production of synthetic alkali by Leblanc; printed M.O.S. report on German Chemical Industry, 1944; misc. American press-cuttings on synthetic rubber, 1942; typewritten report 'The chemical raw material potential and its relation to the Trend of Synthetic resin development' by W.D. Scott. 1942-44

B.54-B.72 Work at Imperial College

- B.54 'Blue Benzonitrile Compound'; lecture notes dated May 1947 (? not in RPL's hand); typescript of 'The Blue Compound - Dr. Thomas'; graph labelled 'Blue Compounds - Absorption Spectra'; misc. notes by RPL. 1947-54
- B.55 'MP Tetrazaporphin', Whalley, Ficken, Baguley; offprint; typescript of 'Tetrazaporphin', report by M. Whalley; typescript of chart 'preparation and light absorption of mixed pigments'; reports of research; RPL's notes on the literature; RPL's division of research and priorities for supplies; RPL's notes and calculations. 1951-54
- B.56 'Oxidation Reduction of Macrocyclic Nuclei'; typescript of 'catalytic hydrogenation of porphyrins and of tetrazaporphins' by M. Whalley; typescript of 'Oxidation of porphyrins by Chromic acid' by RPL (13.12.54); research progress report by Miss E.M. Stephen; offprints; RPL's notes on the literature; RPL's notes and ideas on the subject. 1952-54
- B.57 'Macrocyclic rings. General and speculative'; typescripts by RPL 'formation of metal-free macrocycles from heterocyclic diimines by elimination of ammonia in reactions which do not involve oxidation and reduction procedures'; ms note by RPL, 'macrocyclic pigments are considered aromatic for chemical and physical reasons'; ms notes by others; extensive notes and diagrams by RPL. 1950-53
- B.58 'Hydrophthalic papers'; ms draft (in unidentified hand) of 'Imino derivatives of Δ^8 hexahydro- and of octahydro-iso indoles'; RPL ms draft of paper headed 'Blackley, Nov 5th 1953' with contents given as 'I intermediates, II tetrazaporphins, III Miscellaneous'; RPL's publication plans for December 1953, December 1954. 1953-54
- B.59 'MP Imidines with open chain intermediates'; ms draft of paper called 'Imidines divided into preparation, reactions, applications'; offprint with notes; note from J.A. Elvidge 1954; RPL's notes on the literature; RPL's extensive notes with ideas on the subject. (c.) 1954
- B.60 'Vitamin B₁₂'; notes on the literature; offprints; copy of notes of mtgs. held at Great Burgh on 11 June and 24 June 1954; corres.: K.H.W. Turck, H.M. Stanley; 5p typescript 'Speculation on Structure' by RPL (containing postscript October 1954 of Oxford mtg. and report by D. Hodgkin). 1954
- B.61 'Hydrogen transfer'; RPL's notes on the literature; progress report by R.B. Johns. c. 1955
- B.62 'MP Cross conjugated macrocycles (Clark) HCl Adducts of Nitriles'; RPL's notes on the literature; RPL's notes and diagrams of structures. n.d.

- B.63 'MP Porphyrins C-links Gore Fitt' (work on chlorophyll). Obituary of Sir Jocelyn Thorpe by G.A.R. Kon; 2 articles by Melvin Calvin; ms draft (in unidentified hand) on fluorescence of chlorophyll; RPL's notes on the literature; diagrams of structures of compounds and extensive notes; RPL's ms draft of 'polyenes and macrocyclic intermediates from Dinitriles'. n.d.
- B.64 'Iminazoles'; ms notes by RPL.
- B.65 'Research Residual notes'. 1942-49
1. Notes on the literature (not labelled).
 2. Notes on 'fatty acids and ringworm'.
 3. 'Interesting reduction levels in (Hydro)f '
 4. 'Ion exchange Resins'.
 5. Work on Acenaphthylenes.
 6. 'Catalyst Hindrance', 1949.
 7. 'Bases'.
 8. 'Stereochemistry of hydrogenation: Trimenic Acid'.
 9. 'Langenbeck'.
 10. 'Miscellaneous' (incl. typescript of 'liquid-phase oxidation of hydro-carbons with air or oxygen' 1947).
- B.66 Kolbe Tetrahydro program Cartwright Decarboxylation.' Letter from H.J. Cartwright enclosing ms draft on Kolbe electrosynthesis; ms draft in unidentified hands; RPL's notes. n.d.
- B.67 'Research Problems.' Misc. notes and drafts on hydrogenation, 'Research Project. Reserve Material' etc.
- B.68 'Dr. Whalley. Draft paper on hydrogenation 18.4.50.': draft; typst. of 'hydrogenation of acenaphthylene'; chart. File also contains: offprints by RPL; typst. of 'Hydrogen transfer - 2'; progress reports on research by P.W.D. Mitchell, G.E. Ficken; draft research programme for P.W.D. Mitchell. 1950
- B.69 'MP Phthalocyanine Azaporphins Aza Intermediates.' RPL's notes, some headed 'War Jobs', some dated 1950. c. 1950
- B.70 'Higher Hydrocarbons.' Offprints; notes 'Higher Petroleum Hydrocarbons', n.d.; notes on the literature. c. 1950
- B.71 'MP Reserve Material'; typescript of 'preliminary tests to be applied for conversion of Intermediates into Phthalocyanines. Revised July, 1935'; ms notes of discussion with Paine, Piggott, Haddock, Feb. 1950; typescript of 'Maleic Series', March 1950; typescript of 'Screening of Intermediates for conversion to Macrocyclic pigments', May 1950; notes on the literature; typescript of 'The Phthalocyanines as semiconductors', by D.D. Eley 1935-50

- B.72 'Pentalenes.' Notes on the literature; notes; correspondence from C.T. Blood 1951, 2 abstracts of Thesis submitted for Ph.D. by Blood; MS and typescript of 'Non-Benzenoid conjugated ring systems, Part I. experiments directed towards the synthesis of simple pentalenes' by C.T. Blood and RPL; correspondence from Prof. John D. Roberts (MIT) enclosing typescript of 'The Synthesis of Some Bicyclo [3.3.0.] octane derivatives', 1951 1950-51
- B.73-B.81 Research Programmes and Reports 1950-55 (many with extensive notes by RPL)
- B.73 'Research projects and Literature for sorting'; misc. notes and drafts: 'hydrogenation of benzene', 'dibenzpentalene series', 'dihydropolyenes acids'; notes on the literature. 1950
- B.74 'Research Topics.' RPL's ms list of provisional allocations of research topics; RPL's ms summary of research programme 'macro-cycles and intermediates' and typescript; copies of various reports on research. 1953-54
- B.75 'Research Programmes 1954-55'. ms typescript of 'Division of Macrocyclic Field' (summary of research programmes prepared by RPL); reports of students on their research; RPL's notes. 1954-55
- B.76 'Research Topics 1943-55'. Research programme and progress reports prepared by students for RPL; typescript list of 'New research students and fellows. Organic chemistry research laboratories'; RPL's notes on the subject. 1954-55
- B.77 'Organic Chemistry Research Students' Progress Reports, February 1955.' 1955
- B.78 'Research Students' Progress Reports due on 28 March 1955.' 1955
- B.79 'Anodic Synthesis Kolbe Reaction and Synthesis. Research Projects.' Reports on research prepared by students; typescript of 'Crossing and Coupling Reactions' setting forth the development of the Kolbe reaction, five lines of 'attack' on the problem and preliminary plans for experiments to achieve this end; RPL's notes on the literature; RPL's ms notes on the subject. n.d.
- B.80 'Unsaturated lactones and Unsaturated Acids.' Research projects and reports; notes by RPL on the literature; RPL's notes on the subject. n.d.
- B.81 Misc. notes and drafts on Research projects, mainly Hydrogen transfer and Catalysts; reports of research by P.W.D. Mitchell, M. Blackman. c.1950-52

C. Lectures. Items C.1 - C.20

- C.1,C.2 Lectures on 'Natural Products', given at Harvard. 2 folders 1940
- C.3 Loose-leaf file, 'Lectures in general organic chemistry. 2nd year post intermediate'; ms notes for lectures in the series, offprints. 1949-50
- C.4 'Postgraduate lectures "Synthetic High Polymers", Monday 6th and Monday 20th March'; ms draft of lectures; typescript of 'Chemistry in a Changing World' given to Imp. Coll. Chemical Society, 25 Oct. 1949. 1949
- C.5 'P.1.3* lecture Macrocyclic pigments 1952'; ms draft of lectures; file also includes ms draft of lecture at Cambridge on Azaporphins, March 1954 (see also C.7). 1952-54
*3rd year post intermediate lectures in organic chemistry.
- C.6 Lists of RPL's lecturing engagements in Britain and abroad. 1950-55
- C.7 Lectures 1949-50:
- 'Chemistry in a Changing World', 25 Oct. 1949, Imp. Coll. Chemical Soc., typescript. 1949
- 'Chemical Research and Human Affairs', 17 Feb. 1950, lecture in Imp. Coll. series 'Ends and Means in Science', typescript. 1950
- 'Chemistry in your Life', 28 Dec. 1950: aid of Crosby Hall Endowment Fund; typescript with ms annotations, notes (in another hand). 1950
- 'Aspects of the Catalysed Addition and Transfer of Hydrogen in Organic Compounds', 4 May 1950, S.W. Counties Section, Royal Institute of Chemistry, ms draft, typescript of drawings, offprint. 1950
- C.8 Lectures 1951:
- 'The Stereochemistry of the β methyl muconic acids', paper presented at Royal Society, 1 Nov. 1951; RPL's notes, abstract, typescript of diagrams. 1951
- 'The Transfer of hydrogen between organic compounds', 16 Nov. 1951; lecture at St. Andrews, ms draft, typescript of slide diagrams, print. 1951
- C.9 'Some recent developments in macrocyclic pigments', 8 Feb. 1952, Univ. of Manchester; ms draft, typescript, preparations of slides. 1952
- 'Transfer of hydrogen between organic compounds', 21 Nov, 1952, Univ. Coll. of Swansea; 5 Dec. 1952, Portsmouth Chemical Soc.; ms draft. 1952

- C.10, C.11 Pedler Lecture (2 folders) 1953
'Discoveries among conjugated macrocyclic compounds',
Thirteenth Pedler Lecture, 22 Jan. - London; 12 March -
Aberdeen: corres., 3 typescript drafts with ms annotations, lists
of slides, demonstrations, references, diagrams and tables and
graphs, offprints used in preparing lecture, ms draft of lecture.
(J.R. Ruck Keene, A. Barclay, M.A.T. Rogers.)
- C.12 Lectures 1952-53:
'Transfer of hydrogen between organic compounds', 31 Dec. 1952
Science Masters' Assoc.: ms draft, corres. re draft of account
of RPL's lecture. (Dr. Victor A. Carpenter.)
'Value of Anodic Reactions in organic chemistry', April, prepared 1953
for meeting of Electro-Organic Div. of Electrochemical Soc.,
New York: corres. re RPL & Weedon paper to be read at meeting,
ms draft 'Anodic synthesis: lectures, old notes', typescript of
diagrams (copy of paper missing). (Dr. Stanley Wawzonek.)
- C.13 'The Synthetic Dyestuffs Industry and its consequences', lecture 1953
to L.S.E. Students, 12 Feb.: ms draft of lecture, typescript,
ms material collected for the lecture, notes by RPL and others,
bibliography and extensive notes.
- C.14 Zürich Lectures 1953 1953
Lectures to Organic Chemistry Dept. of Eidgenössische Technische
Hochschule, Zürich, 4-6 May: RPL's notes on visit to E.T.H.,
RPL's typescript report of visit, corres. (Sir Roderic Hill, Prof. V.
Prelog), drawings made for lantern slides, ms draft of lecture on
hydrogen transfer, typescript of slides for lecture on anodic syntheses.
- C.15 Lecture on Anodic Synthesis, Manchester, 17 Nov.: ms notes, 1953
offprints of articles by RPL and his research team.
- C.16 Lectures 1953-54:
'New Intermediates', Imp. Coll. colloquium: RPL's notes. c. 1953-54
'The Stereochemistry of catalytic hydrogenation', Chem. Soc., 1954
Univ. of Leicester, 18 Oct.: ms draft, slides, corres. (Prof. L.
Hunter).
'Hydrogen transfer', Chelsea Polytechnic, 24 Feb.: ms draft, 1954
corres. re lecture at Sir John Cass Coll.
- C.17 Lecture at meeting of British Association, Oxford, Sept. 'Chloro- 1954
phyll and related hydrides of macrocyclic pigments': scientific
material (notes by RPL and others), bibliographical notes, reports
of research (R.B. Johns), copy of programme for B.A. meeting,
ms draft for lecture, corres. (K. Schofield, J.A. Elvidge,
J.W. Cook).

- C.18 'The Structure of Chlorophyll: New analytical and synthetic evidence', paper read at Chemical Society Symposium, Exeter, 14 July.: notes for slides, typescripts (one with extensive annotations for publication - not entirely in RPL's hand), corres. with organisers and editors. 1955
- C.19 'An education for our Times?'. Ninth Hinchley Lecture delivered at the Institution of Chemical Engineers, 5 Nov. 1957: typescript of lecture with RPL's ms annotations and additions, uncorrected carbon copy, list of questions prepared by RPL for secretary(?), copy of the lecture as printed in Transactions of the Institution of Chemical Engineers, 36, no.1, 1957, 1958
offprint, list of people who received offprints, notes collected for lecture, list of persons to be invited.
- C.20 'Quality in Scientific Education'. Maitland Lecture delivered at the Institute of Structural Engineers, 22 Nov. 1962: carbon copy of speech with amendments by RPL, offprint in The Structural Engineer, 41, no.1, 1963, extract of speech published in Education Today, March 1963, background material - ms and typescript, press cuttings, corres. (1960-63) re publication, list of guests, preparation of slide, list of people to receive preprints and offprints. 1962-63

D. Publications, books, articles, reviews. Items D.1 - D.20

(Not all these items are listed in the Bibliography of the Royal Society Memoir)

- D.1 'Synthetic Dyestuffs': contract and misc. corres. with publishers and colleagues (RPL was unable to complete this project because of pressure of other commitments). 1947-53
- D.2 'British Chemical Research', article in British Chemicals Overseas: typescript with ms corrections, corres. with editors. 1948-49
- D.3 'Chemistry and the Amenities of Life': RPL's contribution to Chemistry and Man, Spon, London 1953; misc. corres. with publishers, copy of book. 1952-66
- D.4 Revision of 'Phthalocyanine section' in 2nd ed. of The Colour Index: corres., proof. 1954
- D.5 Report on RPL's contribution to the British Association symposium on Complex Natural Colouring Matters: corres., RPL's draft notes, typescript of illustrations, draft letter to ed. of Nature correcting error in report. 1954
- D.6 Obituary notice of Sir Roderic Hill: typescript. 1954
- D.7 Corres. re: A Course in Modern Techniques of Organic Chemistry by RPL, J.A. Elvidge, M. Whalley; A Guide to Qualitative Organic Chemical Analysis by RPL, B.C.L. Weedon (corres. re these 2 books is so interdependent that files cannot be segregated): corres. with Butterworth and with co-authors, RPL's notes of meetings, corres. after publication from readers, typescript of preface to Guide. 1954-56
- D.8 'A Guide to Qualitative Organic Chemical Analysis', memorandum of agreement, copy of review, corres. re 2nd printing. 1955-59
- D.9 'Modern Techniques in Organic Chemistry': memorandum of agreement, copy of review, corres. with Butterworth re revisions, 2nd edition, publication (some of the 1956 letters deal also with 'A Practical Course in Organic Synthesis' to be written by Drs. Crombie and Smith), typescript list of papers to be written on research carried out under RPL's supervision (1956). 1956-65
- D.10 'A course in modern techniques of Organic Chemistry' by RPL, J.A. Elvidge, M. Whalley (published 1955): typescript with ms corrections (not in RPL's hand). 1954

- D.11 'Chlorophyll and related compounds. Part VI' (with U. Eisner and A. Lichtarowicz), J. Chem. Soc., p.733. Roy. Soc. Memoir no.195: corres. with Eisner 1956, typescript and ms of RPL's covering note to editor. 1957
- D.12 'Conjugated Macrocycles. Part XXXI' (with G.E. Ficken, E. Stephen, M. Whalley), J. Chem. Soc. p.3879. Roy. Soc. Memoir no.197: typescript of paper, corres. with Dr. Margaret Elvidge (Dr. M. Whalley). 1958
- D.13 'Heterocyclic Imines and Amines. Part IX' (with J.A. Elvidge and A.M. Salaman), J. Chem. Soc. p.208. Roy. Soc. Memoir no.200: typescript of paper, corres. with Elvidge. 1958
- D.14 '1:2-Dicarboxylic acids. Part IV. The α -ethyl - β methyl succinic acids and their derivatives' (with J.H. Golden), J. Chem. Soc. p.1732. 1957-58
- 'Chlorophyll and related compounds. Part VII. The structure of bacteriochlorophyll' (with J.H. Golden and G.W. Whitham), J. Chem. Soc. p.1725. Roy. Soc. Memoir nos. 198, 199: typescript of both papers, corrected proofs, corres. with co-authors.
- D.15 Article on '8th Quinquennial Congress of the Universities of the Commonwealth' for Educational Supplement: corres., ms draft of article. 1958
- D.16 'Biochemistry at the Imperial College of Science and Technology, London', article in Nature, 26 March: corres., typescript draft, proof. 1960
- D.17 'London meets the Technological age', article for The Advertiser, So. Australia: corres., draft with RPL's corrections (article written by G.S. McDonald). 1960
- D.18 'Science and the Universities', for Times Special Supplement on Royal Society Tercentenary: corres., typescript. 1960
- D.19 'Hydrogen Transfer. Parts XVII and XVIII', J. Chem. Soc. 1960. Roy. Soc. Memoir nos. 206, 207: corrected mss and comments, typescript, corres. 1958-59
- D.20 Misc. book reviews:
Review of vol.10 of Thorpe's Dictionary of Applied Chemistry, Nature: ms with typescript notes, proof. 1951
Review of Chemistry of Carbon Compounds, Vol.II, Part A, for Journal of Royal Institute of Chemistry: typescript, corres. 1953

- Review of The Chemistry of Heterocyclic Compounds, Vol. VI: 1954
typescript, corresp.
- Review of The Chemistry of Heterocyclic Compounds, with 1954
Indole and Carbazole Systems: corresp., typescript (review was
prepared by J.A. Elvidge),
- Review of The Chemistry of Carbon Compounds, Vol. II, Part B: 1954
corresp., typescript of review.
- Review of Index to Thorpe's Dictionary of Applied Chemistry: 1956
corresp., typescript, proof.
- Review of A Short History of Technology, for 'Endeavour': 1960-61
corresp., typescript, other reviews of the book (Trevor Williams).

E. Committees and Consultancies. Items E.1 - E.62

Although Sir Patrick served on many important scientific and government committees, no personal papers relating to them appear to survive other than those listed below. Official documents relating to E.3 and E.5 are in the Public Record Office.

- E.1 Natural Resources (Technical) Committee (Chairman: Sir Solly (now Lord) Zuckerman): corres. on formation and meetings of Committee with Chairman and government officials; RPL's resignation Aug. 1956. 1950-57
- E.2 The Perkin Centenary Celebration. (RPL was Royal Society representative on the Executive Committee, and Chairman of the Scientific Technical Committee until his appointment as Rector of Imp. Coll.: he resigned the Chairmanship in Dec. 1954 but remained a member of the Scientific and Technical Committee and also of the Committee of Honour.) Corres., memos and minutes of Committee meetings, suggestions and arrangements for Centenary Celebrations, lists of members of Committees, enquiries from chemists overseas. 1954-56
- E.3 Ministry of Works Advisory Council on Building Research and Development (Requirements and Materials Panels): invitation to serve, membership of panels, closure of service after 2-year period. (Minutes and Committee papers returned to PRO, Ref: Ministry of Works RDAC/P.63.) March 1955-
Aug. 1957
- E.4 British Advisory Group, Committee on Scientific and Technical Personnel: invitation to serve, drafts of evidence and report, copy of Report to NATO Special Committee on Scientific and Technical Personnel, 1 July 1957, and subsequent discussion and comment of proposals. Official papers have been retained only where they are essential to the understanding of the work or bear RPL's annotations, emendations or comments. April - Dec.
1957
- E.5 Committee of Enquiry into Government Chemist's Department (Chairman: RPL; Secs.: Mrs. M.B. Sloman, Dr. A. Hassell): invitation to serve, constitution and membership of Committee, terms of reference, meetings and evidence submitted, drafts and discussion of Report, corres. with colleagues, secretaries, etc. Note: Official papers and reports, evidence submitted to the Committee by government departments etc. are retained only where they are of special relevance or bear RPL's annotations and amendments. All other Committee papers (ref: H.M. Treas. G.C. (58)) are in the PRO. June 1957 -
Oct. 1958

- E.6-E.25 British Association Study Group on 'The Education of the Graduate Scientist in School and University', sponsored by The British Association, supported by Leverhulme Trust. The report was published as 'The Complete Scientist', OUP 1960. Chairman: RPL; Sec.: Miss Jane H. Lidderdale OBE. Note: Committee papers have been kept in full (20 folders). Jan. 1958 - Nov. 1960
- E.6 Background material, arrangements for receipt of published reports, data, relevant press-cuttings etc. for Sec. (Miss Lidderdale), corres. with Central Advisory Council for Education.
- E.7 Preliminary stages of enquiry; RPL's draft suggestions for subject of enquiry and subsequent meetings; formal invitation to serve as Chairman, composition of Committee. Jan. - Nov. 1958
- E.8 1st meeting 20 Nov. 1958: corres with members of Group and sponsors about meeting on 20 Nov. 1958; preliminary papers on terms of enquiry, outline of scope and objectives by RPL and Secs.; agenda, papers and Chairman's briefing and Minutes for 1st meeting, 20 Nov. Oct. - Nov. 1958
- E.9 2nd meeting 6 Jan. 1959: arrangements and corres.; draft questionnaire to Univ. Registrars, Schools and Faculties for factual information, amended and revised; agenda, papers, Chairman's briefing and Minutes. Nov. 1958 - Jan. 1959
- E.10 Corres., questionnaires and letters to Univ. and schools for information; drafts for papers, meetings and discussions. Jan. 1959
- E.11 3rd meeting 29 Jan. 1959: agenda, papers, Chairman's briefing, Minutes (incl. 1st Quarterly Report to Brit. Assoc.).
- E.12 Corres. on collection of data, circulation of questionnaires to schools and universities, and replies, incl. 2nd Quarterly Report to Brit. Assoc.). Feb. - April 1959
- E.13 4th meeting 16 June 1959: corres. and papers on questionnaires and replies received, agenda, Committee papers, Chairman's briefing, Minutes (incl. full summaries by Sec. of evidence received). May - June 1959
- E.14 Corres. with Committee members on matters arising from 4th meeting; 3rd Quarterly Report to Brit. Assoc.
5th meeting 24 Sept. 1959: agenda, papers, Chairman's briefing, Minutes. June - Sept. 1959
- E.15 6th meeting 19 Oct. 1959: agenda, Minutes, 4th Quarterly Report to Brit. Assoc. Oct. - Nov. 1959
7th meeting 23 Nov. 1959: agenda, papers, Chairman's briefing, Minutes. (Papers incl. RPL's Chairman's Paper 'Answers to University issues ... a personal opinion', B.A. SE 34 10.11.59).

- E.16 8th meeting 21 Dec. 1959: corres. and arrangements, agenda, papers, Chairman's briefing, Minutes. Nov. - Dec. 1959
- E.17 9th meeting 15 Jan. 1960: arrangements for meeting, draft of Report Chap.I with ms.notes and amendments by RPL; agenda, papers, briefing and Minutes. Dec. 1959 - Jan. 1960
- E.18 Corres. on draft of report; 5th Quarterly Report to Brit. Assoc. 10th meeting 12 Feb, 1960: agenda, papers, Chairman's briefing, Minutes; draft Chap.III with RPL's ms.notes and amendments. Incl. 5th Quarterly report to Brit. Assoc; ms.report on Introduction and Chaps.I and II by Miss Margaret McCraeth (RPL's Secretary). 5 pp. Feb. 1960
- E.19 Corres. with Sec. on RPL's amendments to drafts of Chap.II and III of Report; agenda and Chairman's notes for 11th meeting 25 Feb. 1960. Agenda and Minutes of 12th meeting 11 March 1960. Jan. - March 1960
- E.20 6th Quarterly Report to Brit. Assoc.; corres. on contents of report; misc. corres. on publication of report, editorial arrangements etc. and for RPL to speak on Committee's work to Education Section, Brit. Assoc., Cardiff, 1 Sept. 1960. March - June 1960
- E.21 Corres. with members of group and others, re party given by RPL at Brit. Assoc. meeting, Cardiff, Sept. 1960; guests lists etc., press-cuttings. July - Sept. 1960
- E.22 Arrangements for RPL's paper at B.A. meeting, Cardiff; invitation, drafts and typescript of paper and summary; arrangements for British Council reception (host: RPL) at Cardiff. April - Aug. 1960
- E.23 Misc. corres. on publication of 'The Complete Scientist' (OUP 1960); distribution of copies, some letters of appreciation, misc. corres. on RPL's Brit. Assoc. address 'Broadening the Education of the Graduate Scientist', The Advancement of Science, Nov. 1960.
- E.24 Misc. ms notes and drafts by RPL for B.A. Study Group; complete copy of B.A. Report in final draft, with ms note on findings and recommendations by RPL.
- E.25 List of Committee papers circulated.
- E.26-E.33 Imperial Chemical Industries Dyestuffs Group (later Dyestuffs Division) 1938-45, 1950-54:
- E.26 Misc. corres. re RPL's consultancy with I.C.I. Dyestuffs Group, Courtaulds Ltd. etc. 1938-45
- E.27 Scientific and legal corres. including: RPL's ms.notes in preparation 1950-54 for meetings at I.C.I. lab. in Blackley, notes from those meetings, notes on the experimental work in progress at Imperial College, notes on methods of preparation of material, summaries of progress, notes from discussions with colleagues at Imperial College; agenda and

minutes of meetings held between RPL and I.C.I. staff (many with RPL's amendments and additions); lists of compounds, requests for samples; notes prepared by Imperial College workers for RPL on results of laboratory experiments; notes and memos prepared by I.C.I. staff on the results and findings obtained; provisional specifications; patents entitled 'Improved process for the making of colouring matters', 'Tetra-aza-porphins and their intermediates'; typescript of 'Formation of tetrazaporphin pigments by reaction between two dissimilar imidines' on which patent specification was based. 7 folders:

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|-----------|--|-----------------|
| E.27 | | 1950 |
| E.28 | | 1951 |
| E.29 | | 1952 |
| E.30 | | Patents |
| E.31 | | 1953 |
| E.32 | | 1953 |
| E.33 | | 1954 |
| E.34-E.62 | <u>Hedley v. Unilever</u> : RPL was retained as consultant by Thomas Hedley and Co. in their case against Unilever Ltd. The documents include: legal and scientific corres.; reports on experiments, laboratory tests etc., many by RPL; arrangements and agenda for meetings, demonstrations, laboratory visits etc.; drafts for legal submissions, many annotated and amended by RPL; periodical summaries and progress reports on scientific tests, many by RPL; legal and technical documents. Chief correspondents are: Thomas C. Yule (Field Roscoe and Co., Solicitors), H.R. Galleymore (Chief Chemist), W.H. Adamson (Research Laboratories), G.H.R. Watson, Frank B. Dehn and Co. (Patent Agents) for Thomas Hedley and Co.; Bristows, Cooke and Carpmael (Solicitors) for Unilever. The case was not brought. | March 1952 - |
| E.34-E.46 | Misc. technical and legal documents and experimental data (many annotated). | |
| E.47-E.62 | Correspondence: 16 folders: | |
| E.47 | 4 March | - 30 May 1952 |
| E.48 | 3 June | - 30 June 1952 |
| E.49 | 1 July | - 31 July 1952 |
| E.50 | 6 Aug. | - 29 Sept. 1952 |
| E.51 | 1 Oct. | - 25 Nov. 1952 |

E.52	1 Dec.	-	24 Dec. 1952
E.53	12 Jan. 1953	-	26 Feb. 1953
E.54	5 March	-	30 March 1953
E.55	1 April	-	30 April 1953
E.56	15 May	-	23 June 1953
E.57	7 July	-	29 Sept. 1953
E.58	1 Oct.	-	23 Oct. 1953
E.59	3 Nov.	-	23 Dec. 1953
E.60	6 Jan. 1954	-	29 Jan. 1954
E.61	5 Feb.	-	29 March 1954
E.62	5 April	-	18 June 1954

F. Scientific and professional correspondence. Items F.1 - F.37

- F.1 Corres. re obtaining offprints and back issues of learned journals. 1946-47
- F.2 'Manufacture of Amino Compounds by the Catalytic Reduction of Nitro Compounds': British Patent Application 1097/51: corres. with Patent Agents and National Research Development Corp, E.A. Braude's ms-summary of experimental results, 2 typescript copies of British Patent Application and official documents, RPL's notes. 1951-52
- F.3 British Patent Application no.1097/51: corres, typescript of application, agreement with National Research Development Corp. 1952-54
- F.4 'Macrocyclic Pigments. Correspondence with J.C. Speakman': corres., tracings of projections, draft and offprint of 'The Crystal Structure of an Analogue of nickel phthalocyanine' by J.C. Speakman, published in Acta Crystallographica, 1953. 1952-54
- F.5-F.37 33 files of corres. in chronological order. The corres. is of a scientific nature containing letters re research projects, consultancies, the exchange of offprints and of samples of chemical substances, the publication of papers, etc. Many of the files contain lengthy notes by RPL's departmental colleagues. If an entire file pertains to one topic, its contents have been enumerated in the handlist; otherwise the year has been noted and the correspondents indexed.
- F.5 1948
- F.6 1949
- F.7 1949
- F.8 1949
- F.9 1950
- F.10 1950
- F.11 1951
- F.12 1951
- F.13 Corres. with W. Charles Evans and typescript of 'Experiments to test the pathway from cis-cis muconic acid to b-Ketoadipic acid', with comments by RPL. (Paper was published as 'Chemistry of the oxidation metabolism of certain compounds by micro-organisms', Nature, 168, p.772.) 1951
- F.14 1951
- F.15 1951

F.16	Corres. with R.T. Williams re muconic acid, typescript of abstract 'The Metabolism of Benzene' by D.V. Parke and R.T. Williams, RPL's comments on the draft.	1951
F.17	Corres. re RPL's consultancy in patent dispute; copies of report prepared by RPL and B.C. Weedon.	1951
F.18	'Polypyridyles': corres. with F.H. Burstall, offprints of papers by Burstall on the subject, note by E.L. Braude.	1952
F.19		1952
F.20		1952
F.21		1953
F.22		1953
F.23		1953
F.24		1953
F.25		1953-54
F.26	Corres. with William Mitchell re work on chlorophyll, RPL's notes on the subject, typescript of Mitchell's paper 'The Structure of Chlorophyll'.	1953-54
F.27		1954
F.28		1954
F.29		1954
F.30		1954
F.31		1955
F.32		1955-56
F.33		1956-57
F.34	Corres. with T.V. Arden re history of Chemical Research Laboratory. Work on uranium ore treatment.	1956-59
F.35		1958-59
F.36		1960-64
F.37	Corres. re RPL's consultancy in penicillin patent controversy.	1960-62

ADAMS, Roger	F.6, F.23, F.24, F.31
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APPLETON, Sir Edward	A.28, C.19, E.7
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BRYCE-SMITH, D.	F.22
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BURN, Joshua Harold	F.32
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MORGAN, C. D.	C.20
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MOTT, Sir Nevill (Francis)	E.12
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